



Bölüm 7: Ağaç

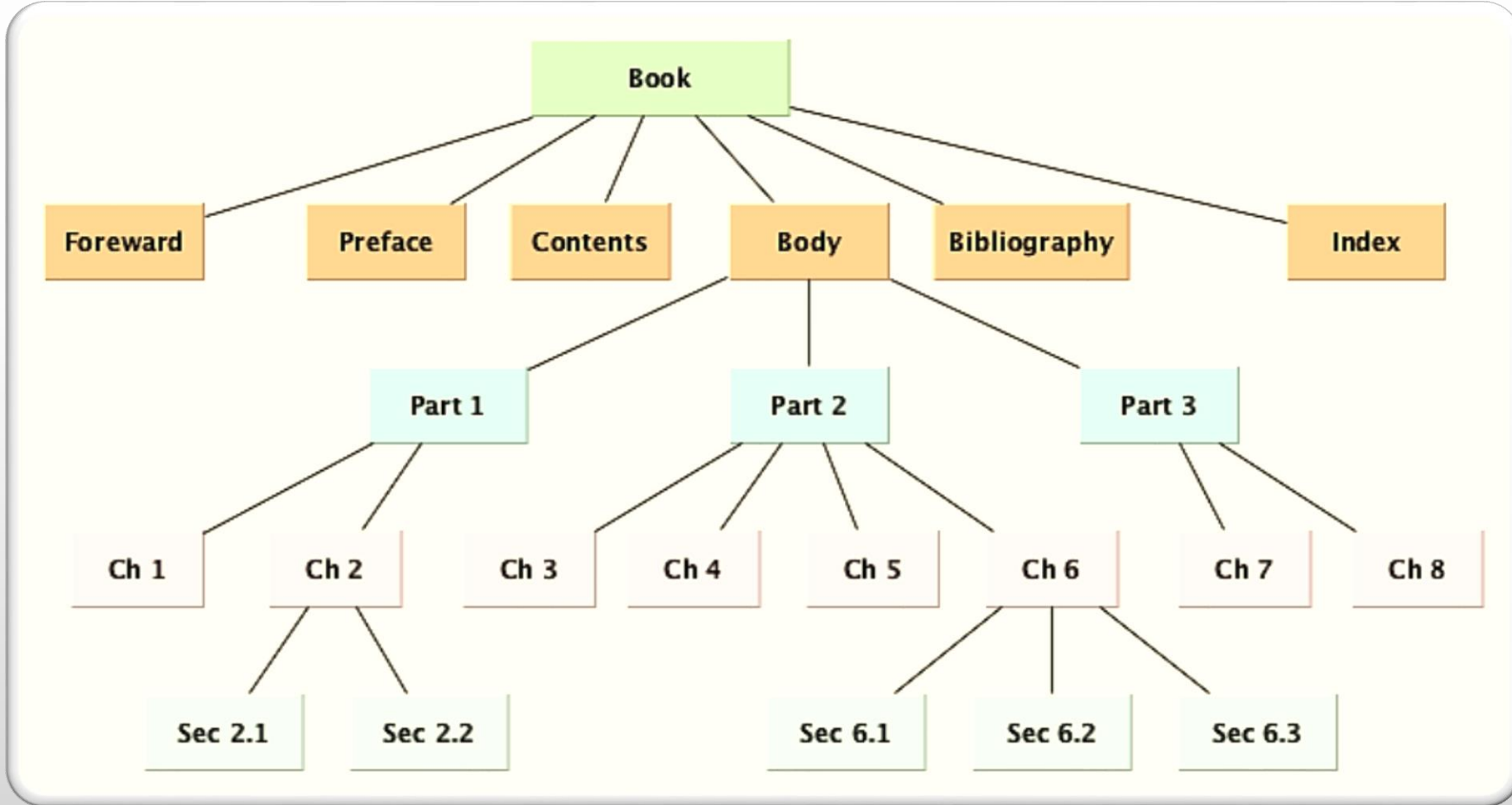
Veri Yapıları

Ađaç





Ağaç

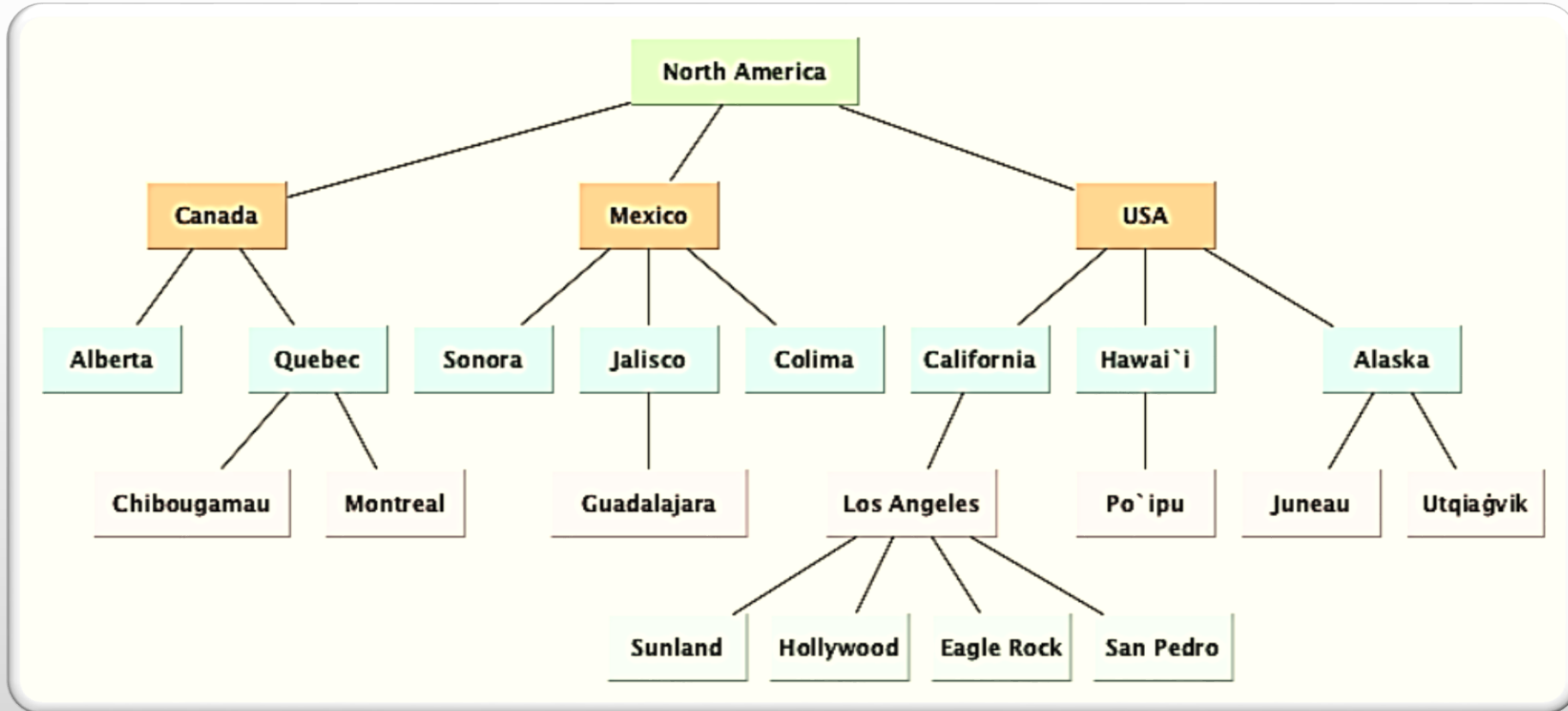




Ađaç

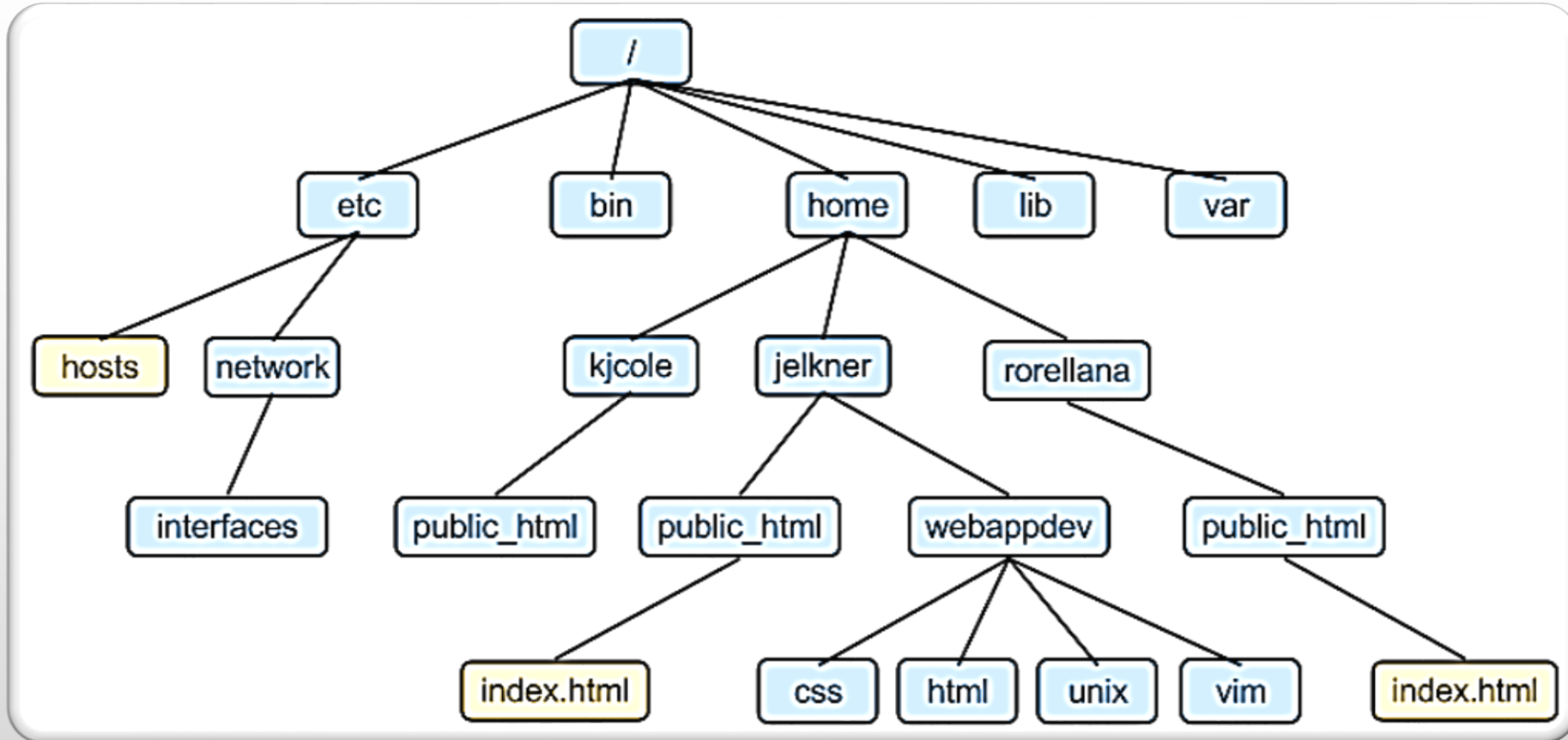
- Dügümler arasında döngüler bulunmaz.
 - Her düğüm, sadece bir tane üst düğüme sahiptir.
- Kök en üstte olacak şekilde ters çizilir.
 - Kök düğüm, ağacın en üst düğümünü temsil eder.
- Hiyerarşik düzenlemeleri temsil eder.
 - Dügümlerin alt düğümlerinin sırası önemlidir.

Ağaç





Ağaç



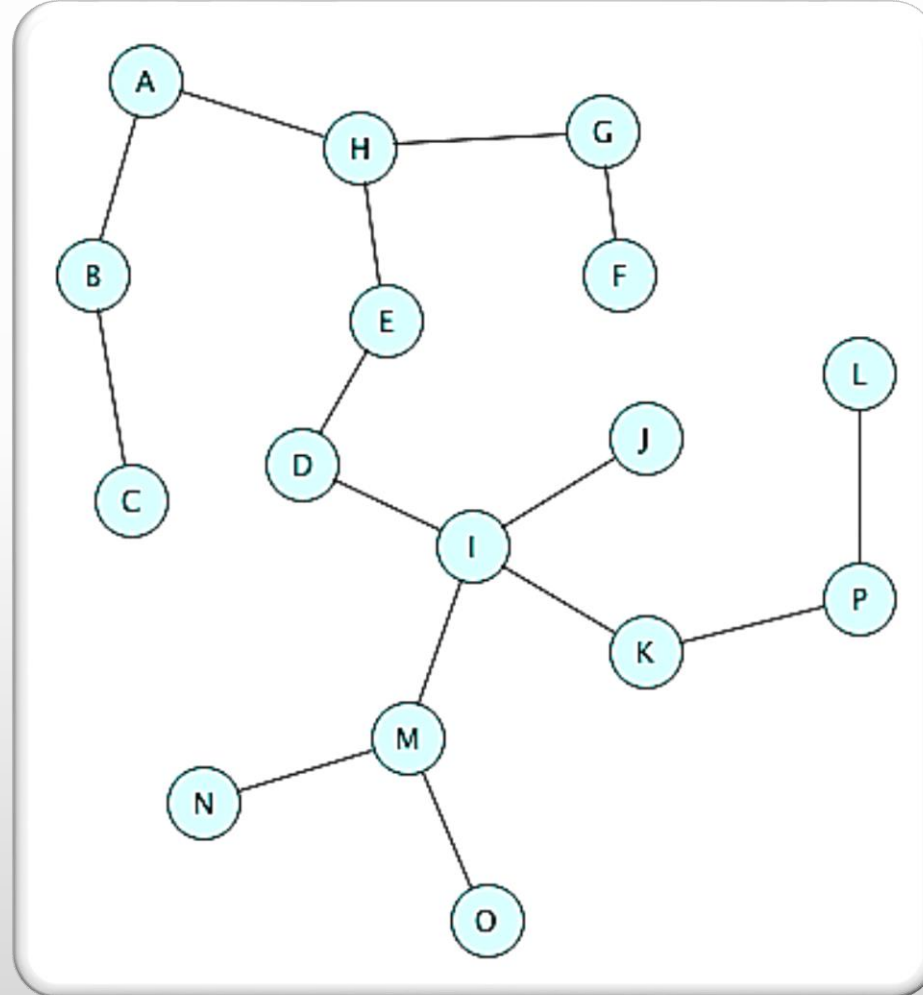


Ağaç

- **Doğrusal olmayan** bir veri yapısıdır.
- Verileri **hiyerarşik** ve düzenli bir şekilde saklar.
- **Düğüm**ler (nodes) ve **kenar**lar (edges) 'dan oluşur.
- **Kök** düğüm, **yaprak** düğüm ve **iç** düğüm, temel ağaç öğeleridir.
- Ağaç, bir adet kök (root) düğüm içerir ve ondan dallanır.
- Her düğüm, bir veya daha fazla alt düğüme sahip olabilir.
- Her düğüm, bir üst düğümün (**ata**) altında yer alabilir.
- Sıralama ve arama işlemleri hızlıdır.



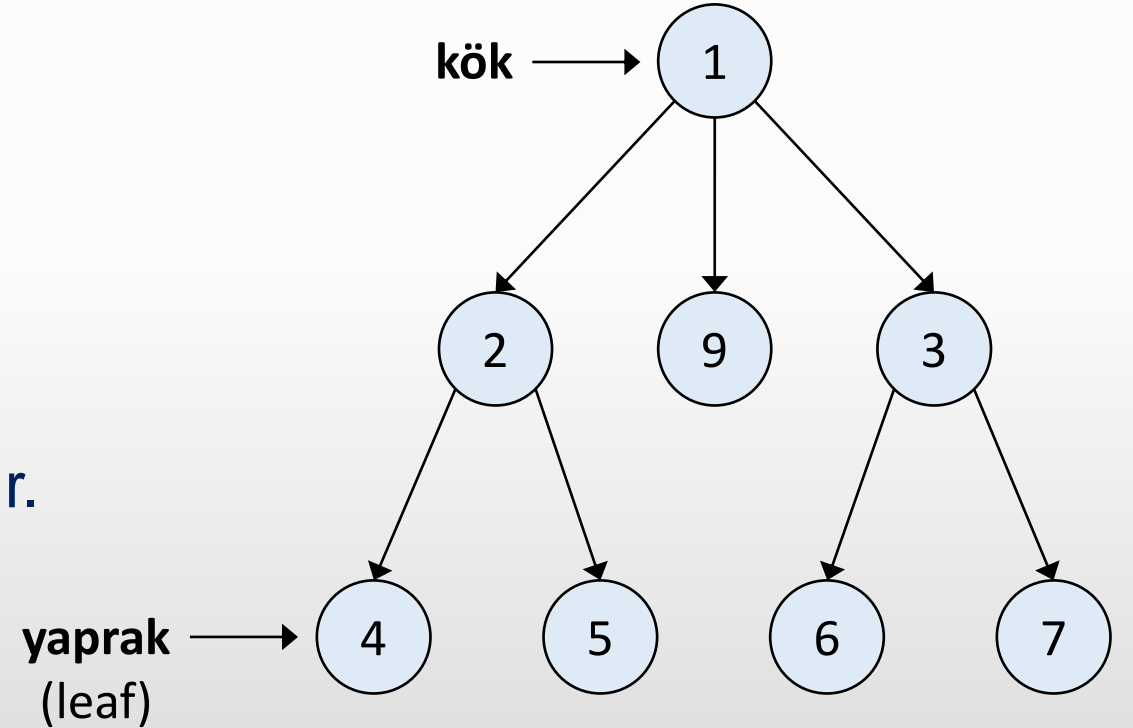
Ağaç mı?





Ağaçların Temel Unsurları

- **Kök Düğüm (Root Node)**
 - Ağacın en üst düğümüdür.
 - Hiçbir üst düğüme sahip değildir.
- **Yaprak Düğüm (Leaf Node)**
 - Hiçbir alt düğüme sahip değildir.
- **İç Düğüm (Internal Node)**
 - Hem üst hem alt düğümlere sahiptir.





Temel Ağaç Türleri

- **k-ary Ağaç** Her düğüm en fazla k çocuğa sahiptir.
- **İkili Ağaç** Her düğüm en fazla iki çocuk düğüme sahiptir.
- **Arama Ağacı** Her düğümün bir anahtar değeri vardır, ve bu anahtar değerine göre sıralıdır.
- **İkili Arama Ağacı** Her düğüm en fazla 2 çocuğa sahiptir, ve anahtar değerlerine göre sıralıdır.
- **Kırmızı-siyah Ağaç** İkili arama ağaçlarının performansını artırmak için ağacın yüksekliğini kullanarak dengeleme teknikleri uygular.
- **Splay Ağaç** Sık erişilen düğümleri kökte tutmayı amaçlar.
- **(a,b) Ağaç** , Her iç düğüm, a ile b arasında çocuk düğüme sahiptir.

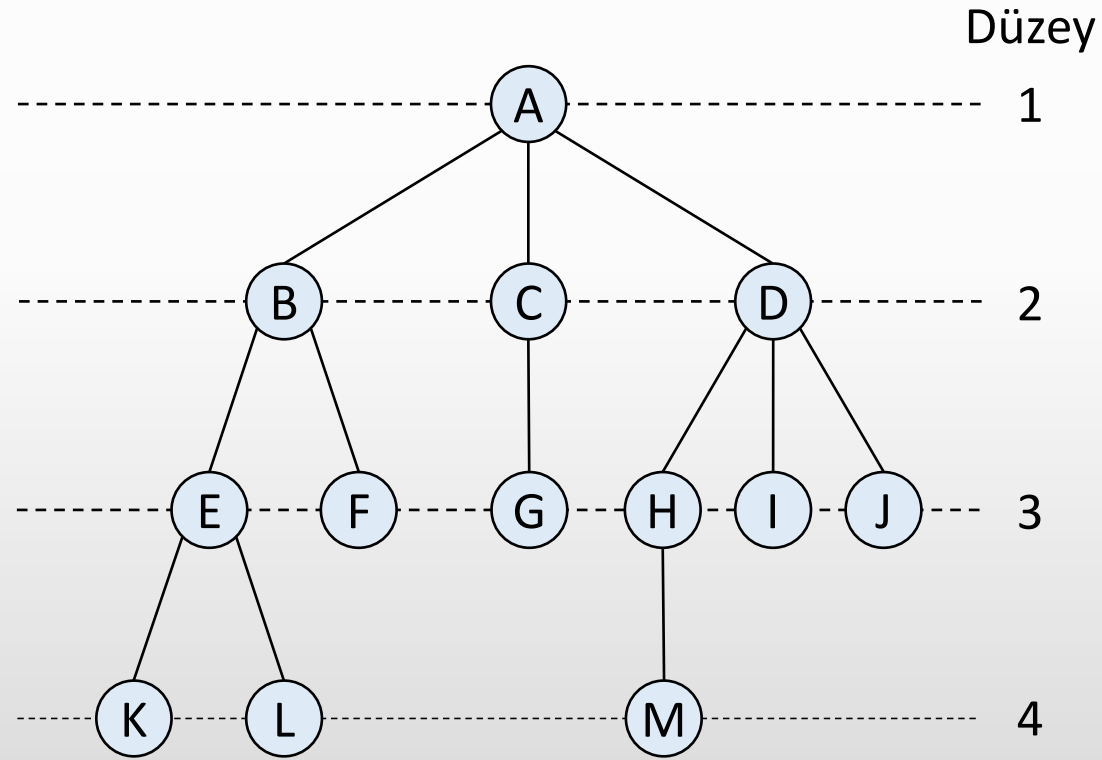


Ağaç İlişkileri

- **Ata Düğüm (Parent Node)**
 - Bir düğümün üstünde bulunan düğümdür.
 - Her düğümün yalnızca bir atası vardır (kök düğüm hariç).
- **Çocuk Düğüm (Child Node)**
 - Bir düğümün altında bulunan düğümlerdir.
 - Her düğümün birden fazla çocuğu olabilir.
- **Kardeş Düğüm (Sibling Node)**
 - Ata düğümü aynı olan düğümler kardeştir.
 - Yani, aynı düzeydeki düğümler kardeştir.



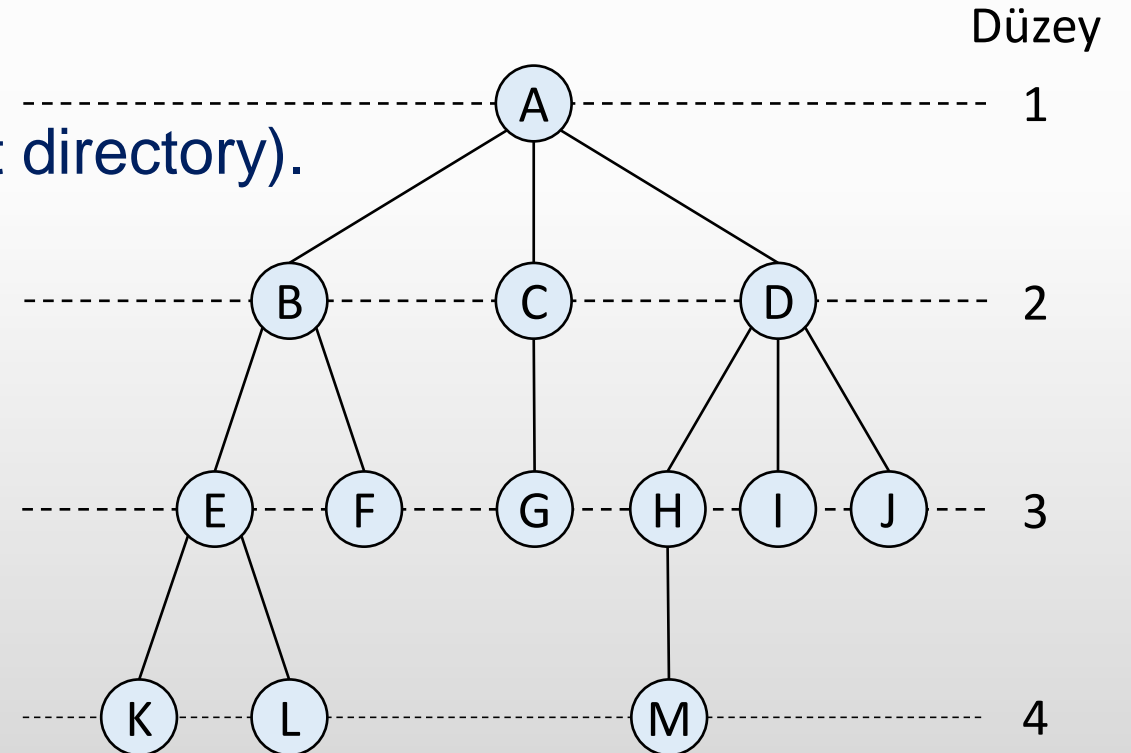
Ağaç İlişkileri





Kök Düğüm (Root Node)

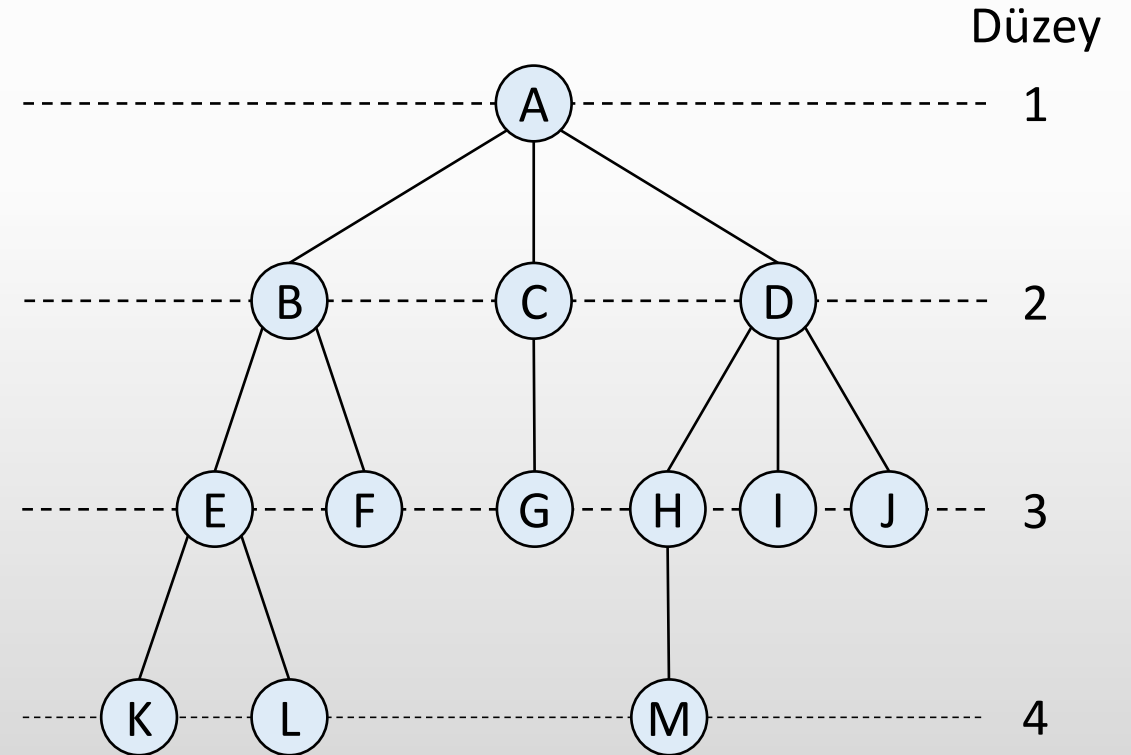
- Ağacın en üst düğümüdür.
- Hiçbir üst düğüme sahip değildir.
- **Örnek:**
 - Dosya sisteminin ana dizini (root directory).





Yaprak Düğüm (Leaf Node)

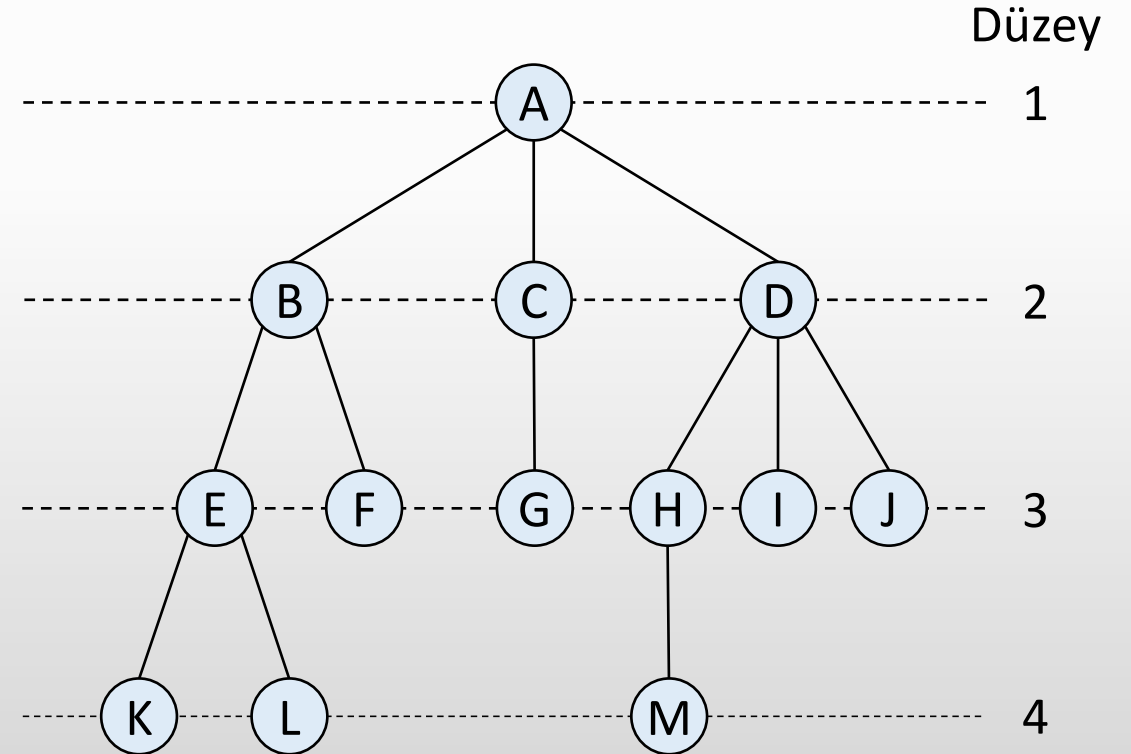
- Hiçbir alt düğüme sahip olmayan düğümlerdir.
- **Örnek:**
 - Bir dosya sistemindeki dosyalar.





İç Düğüm (Internal Node)

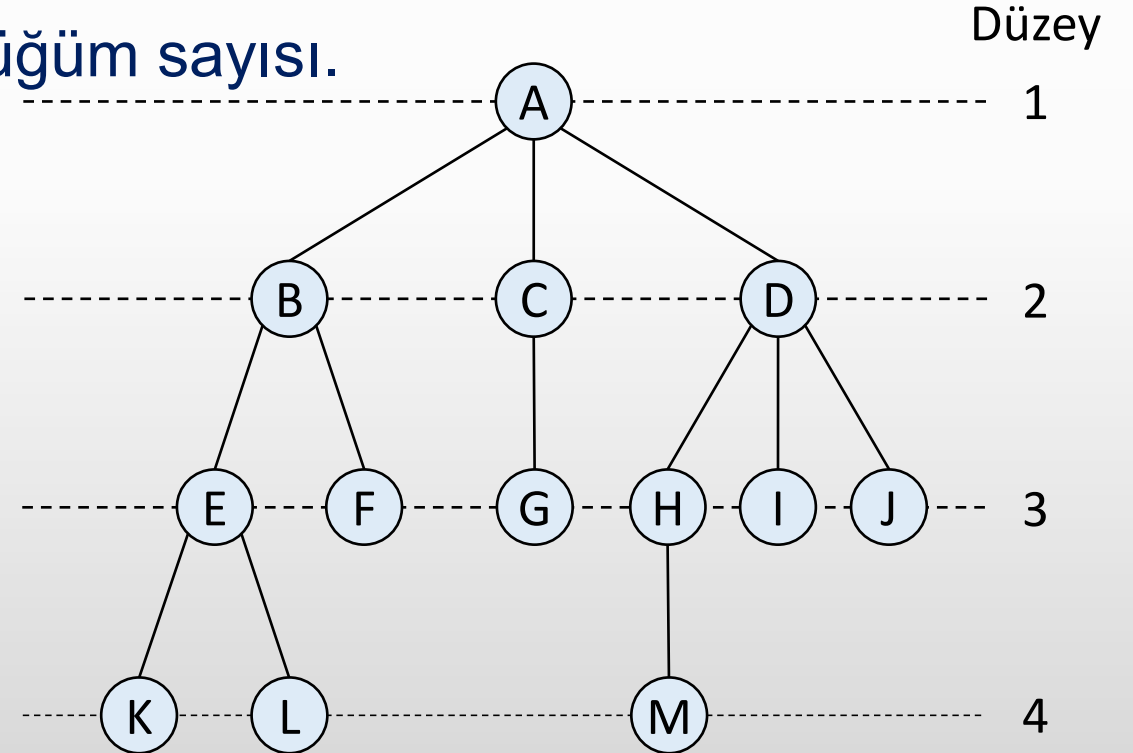
- Hem üst hem de alt düğümlere sahip olan düğümlerdir.
- **Örnek:**
 - Bir dosya sistemindeki klasörler.





Derece (Degree)

- Bir düğüme eklenen alt ağaçların toplam sayısına denir.
- **Örnek:**
 - Düğümün sahip olduğu çocuk düğüm sayısı.



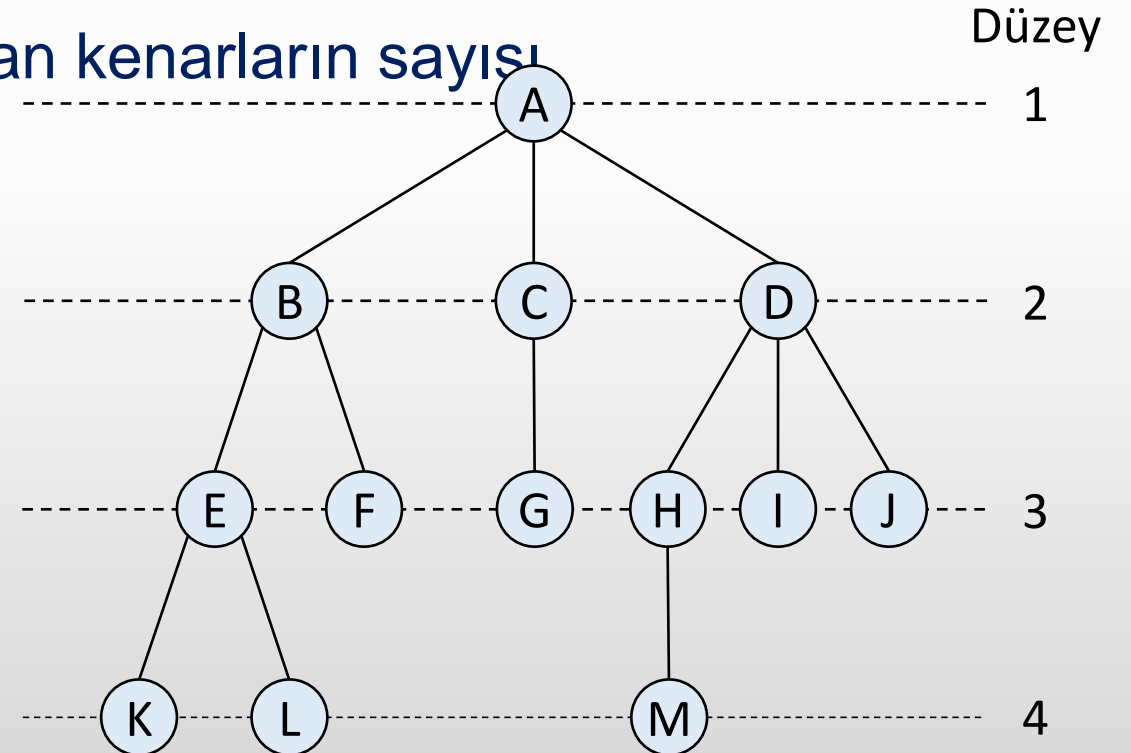


Derinlik (Depth)

- Bir düğümün kök düğüme olan uzaklığını ifade eder.

- **Örnek:**

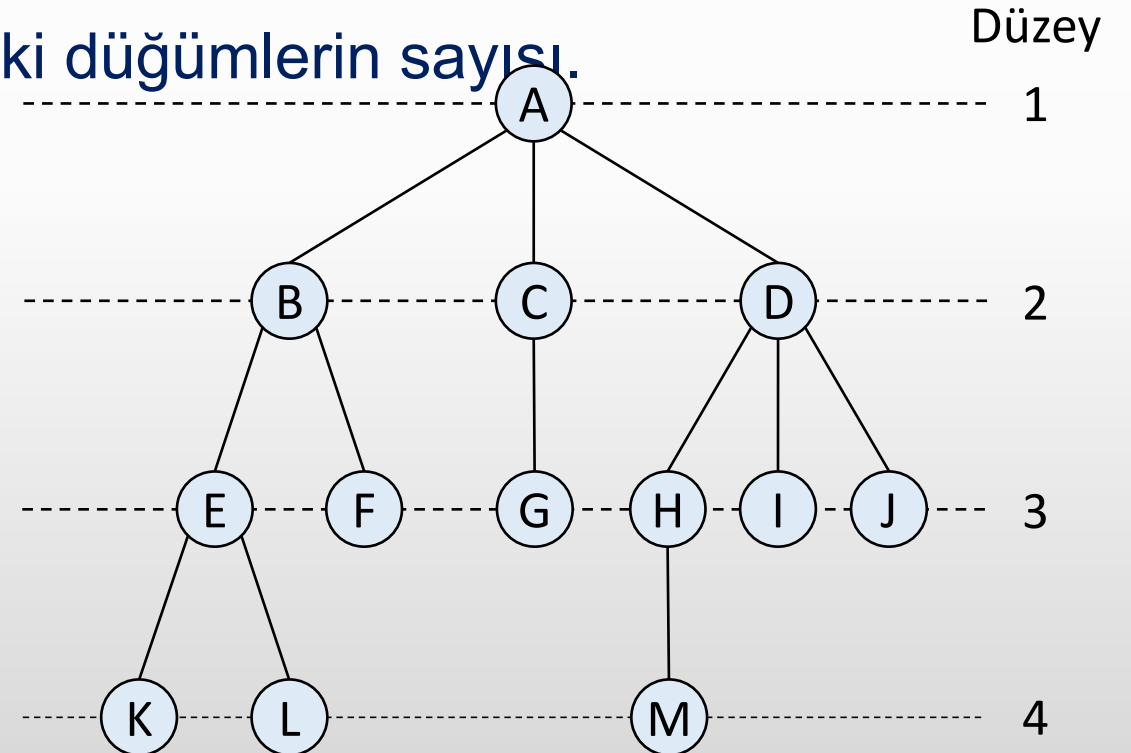
- Kökten yaprak düğüme kadar olan kenarların sayısı





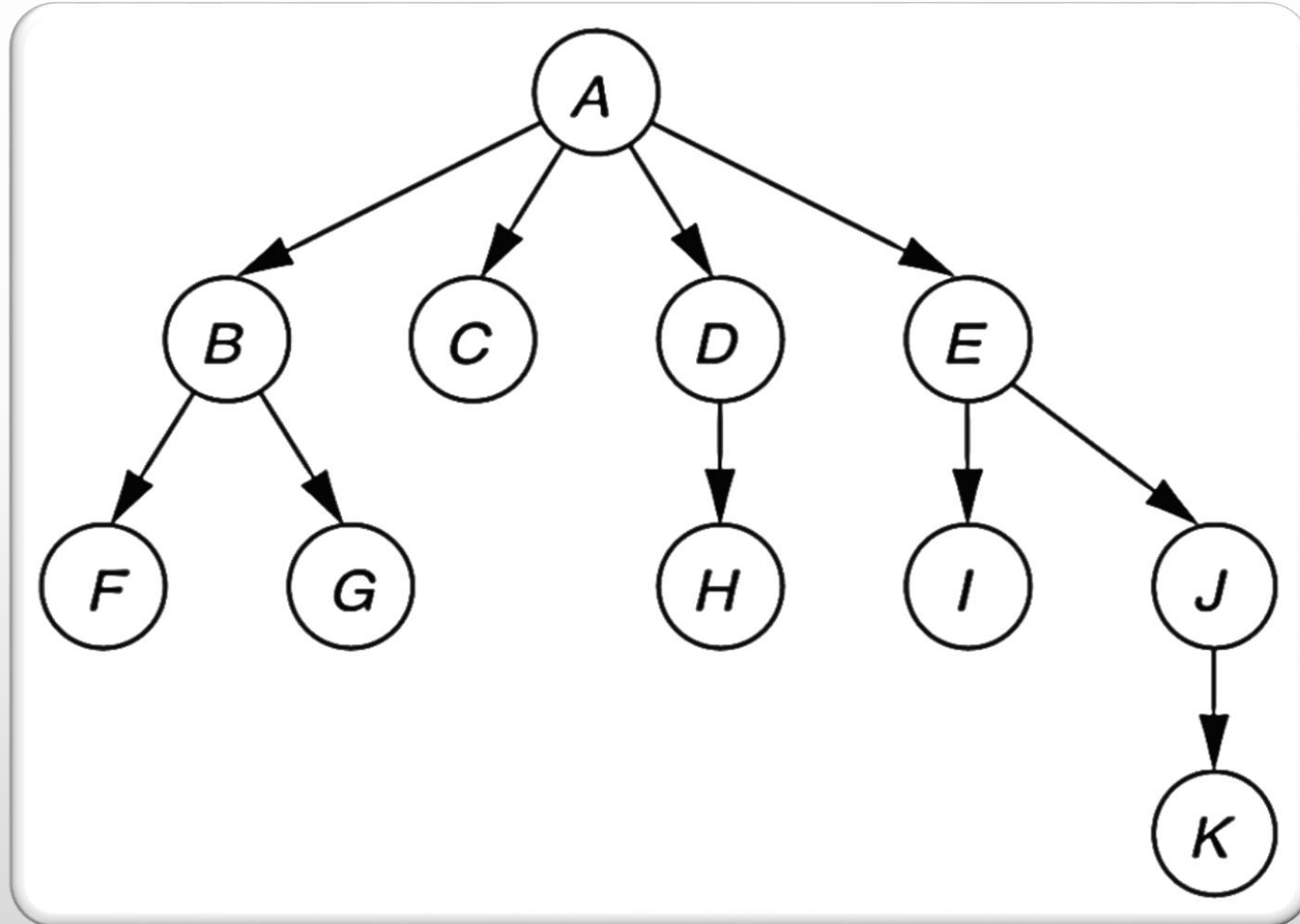
Yükseklik (Height)

- Ağaç kökünden bir yaprak düğüme kadar olan en uzun yolun uzunluğudur.
- **Örnek:**
 - Ağacın en uzun dalının üzerindeki düğümlerin sayısı.





Derinlik ve Yükseklik



Düğüm	Yükseklik	Derinlik
A	3	0
B	1	1
C	0	1
D	1	1
E	2	1
F	0	2
G	0	2
H	0	2
I	0	2
J	1	2
K	0	3



Ağaçlarda Gezinme ve Yollar

- Yol, bir düğümden başlayıp diğer bir düğüme kadar olan bir dizidir.
- Düğümler arasında bir kenar (edge) bağlantısı bulunur.
- **Notasyon:** $p=(v_0,e_1,v_1,e_2,v_2,\dots,e_k,v_k)$
- **Start(p):** Yolun başlangıç düğümü.
- **End(p):** Yolun son düğümü.
- **Length(p):** Yolun uzunluğu, kenar sayısı.



Alt Ağaç (Subtree)

- Ağacın bir alt kısmıdır, kendisi de bir ağaçtır.
- Bir düğümün tüm alt düğümlerini içerir.
- **Örnek:**
 - Bir klasörün altındaki tüm alt klasörler ve dosyalar.

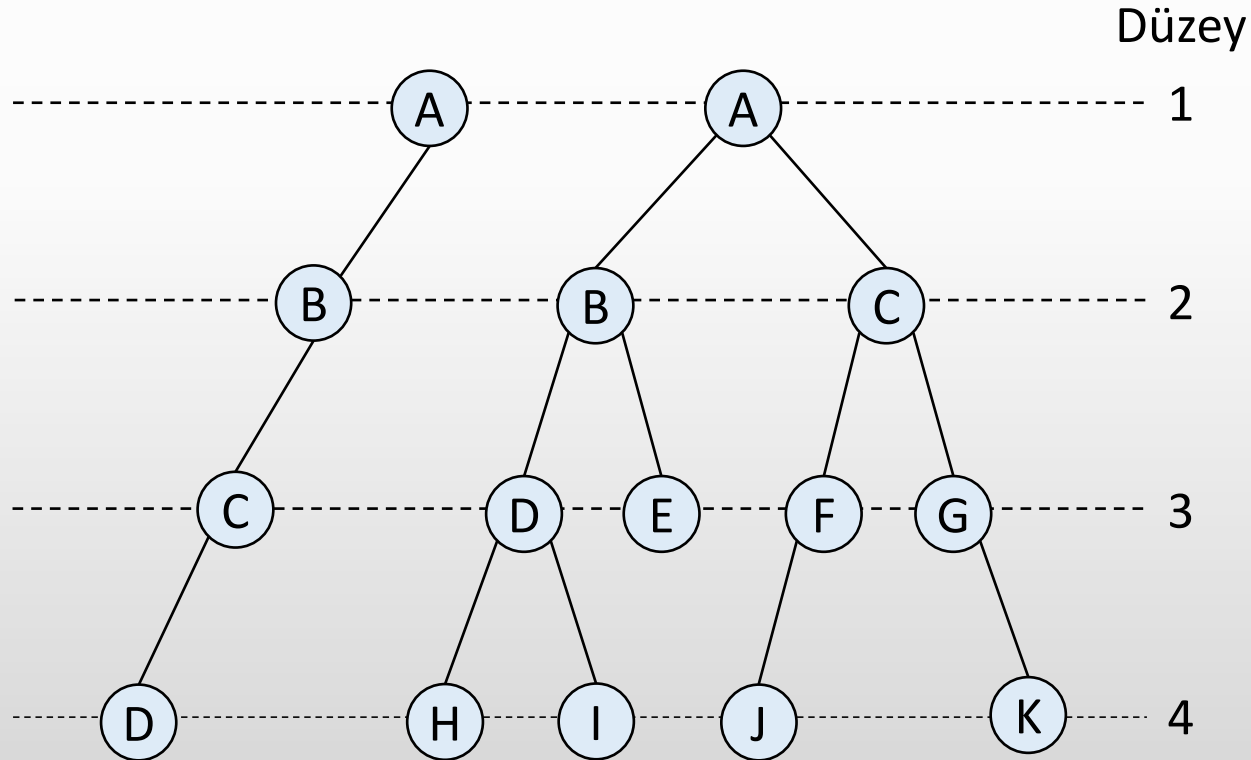
İkili Ağaç





İkili Ağaç

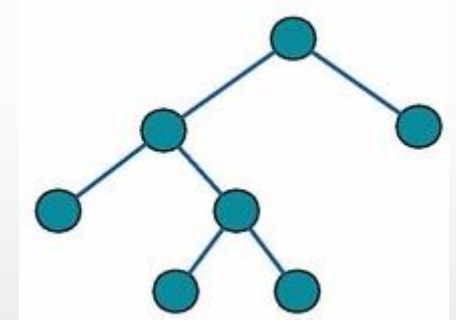
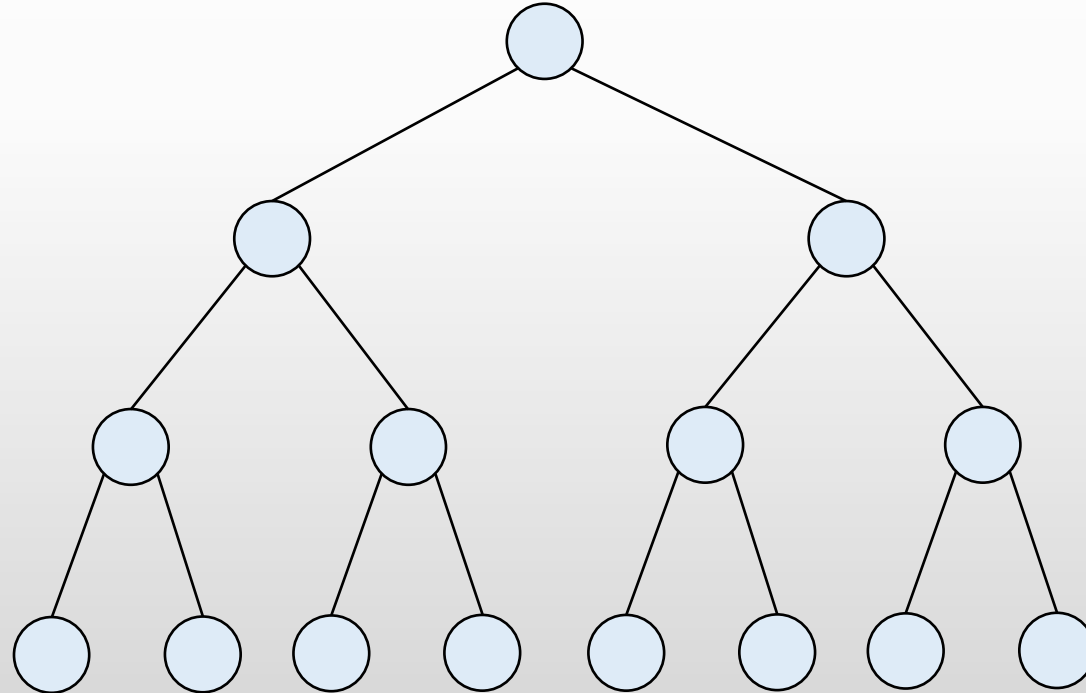
- Her düğüm en fazla iki çocuğa sahip olabilir. Düğümler rastgele dağılmış olabilir.





Dolu Ağaç (Full Tree)

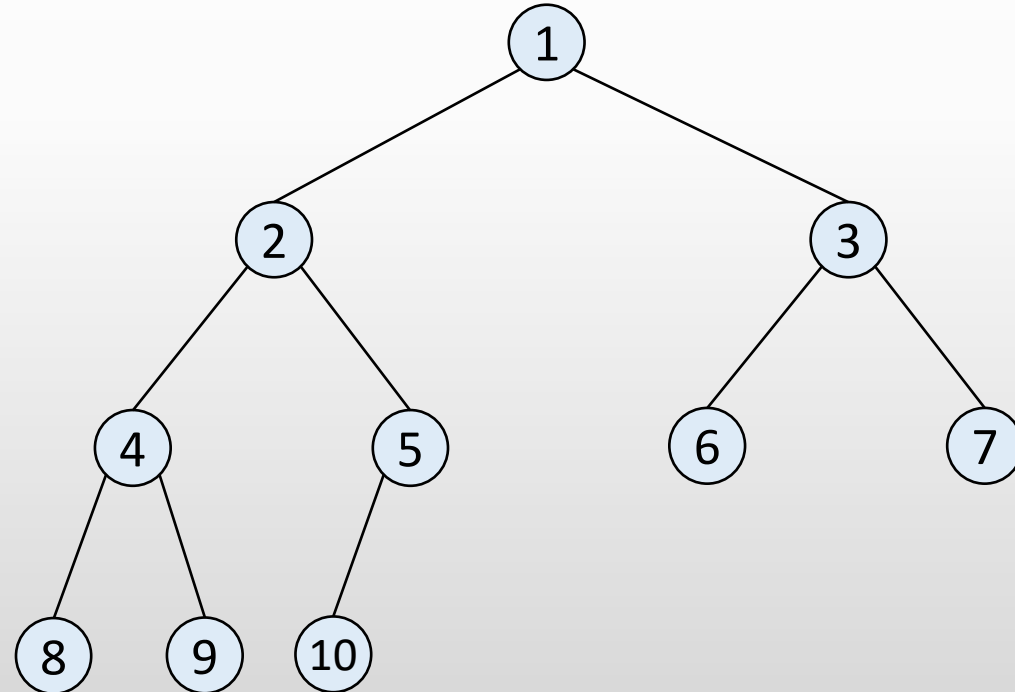
- Her düğümün ya hiç çocuğu yoktur ya da iki çocuğu vardır.





Tam Ağaç (Complete Tree)

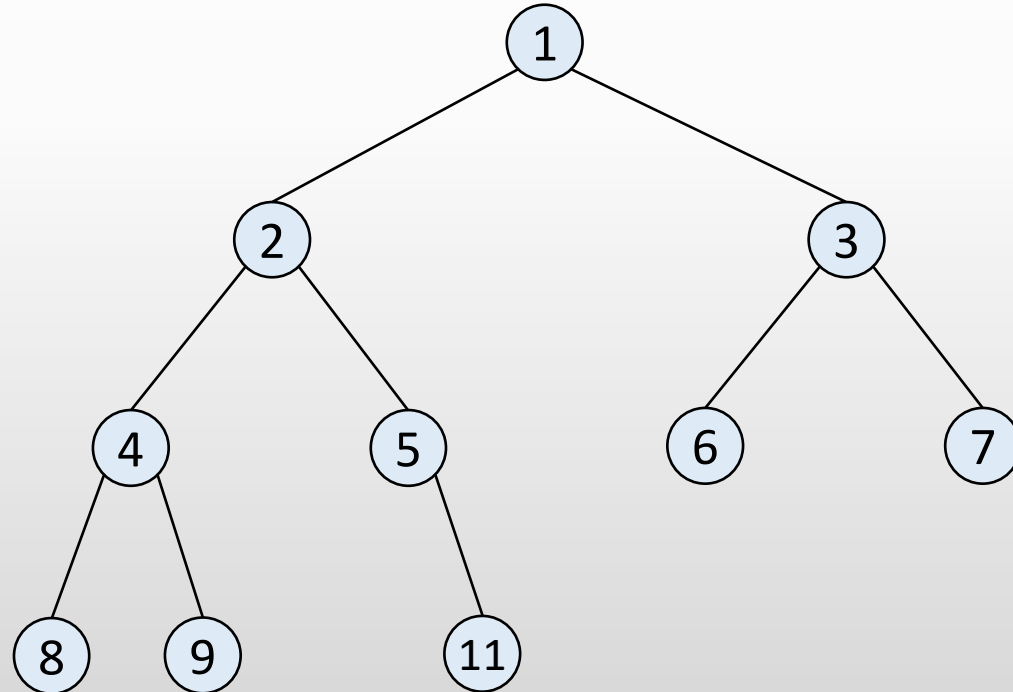
- Son seviyede bazı düğümler eksik olabilir. En alt seviyedeki düğümler soldan sağa doğru yerleştirilmiştir.





Ne Tam Ne Dolu Ağaç

- D ğ m 5'in tek  ocuėu var. En alt seviyedeki d ğ mler soldan saėa doėru yerleřtirilmemiřtir.





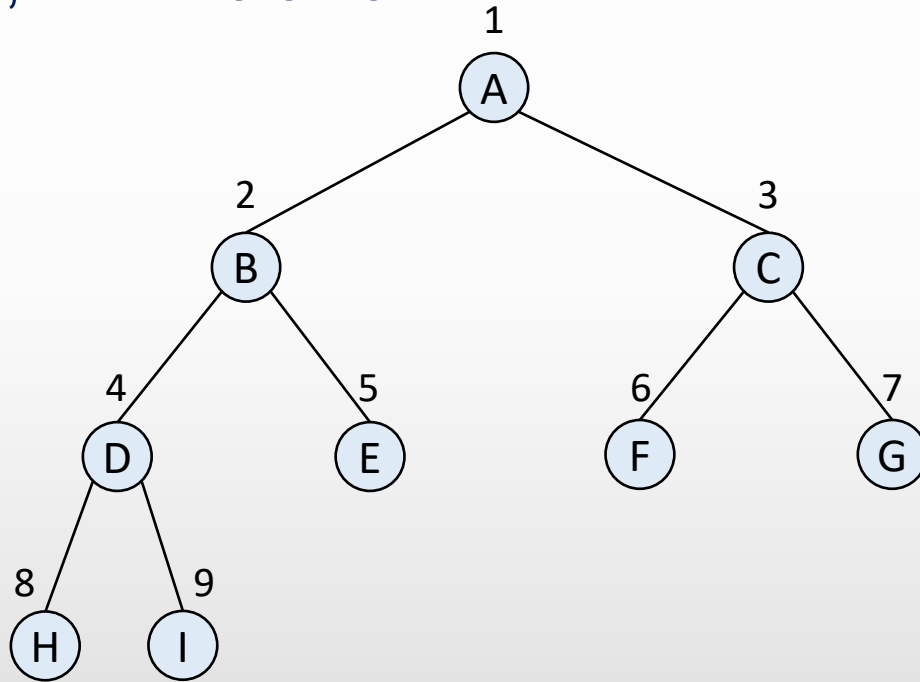
Dizi Temsili

- İkili ağaçlar, dizilerle temsil edilebilir.
- İndeks hesaplaması için düğümün seviyesi ve konumu kullanılır.
 - Sol çocuğunun indeksi « e » ise, sağ çocuğunun indeksi « $e+1$ » olur.
 - Her düğümün ata düğümünün indeksi « $(e/2)$ » olur.
 - Çocuk düğümlerin indeksi « $2*e$ » ve « $2*e+1$ » olur.
- Düşük maliyet ve yüksek hız avantajlarına sahiptir
- Dinamik yapıları temsil etmek için uygun değildir.



Dizi Temsili

- Derinlik k , $2^k - 1$ eleman

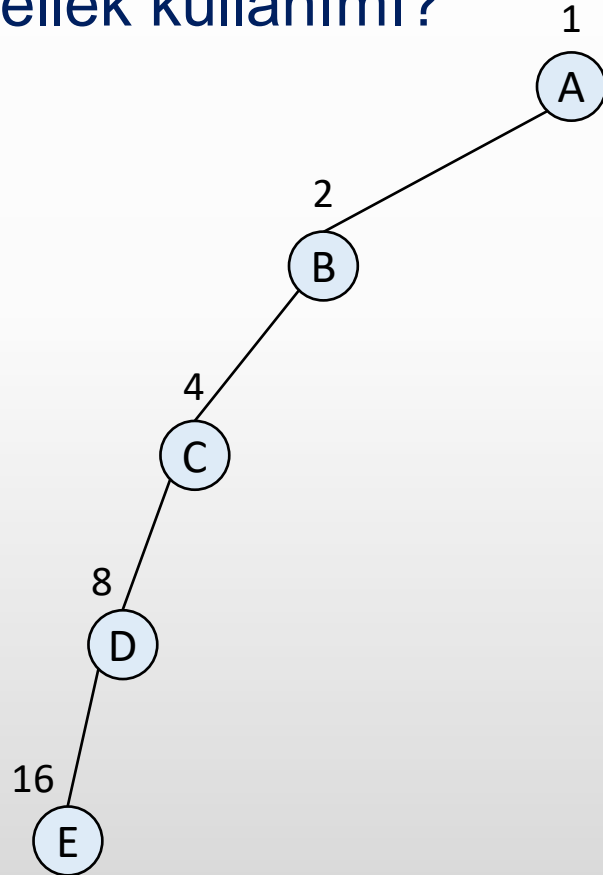


1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I



Dizi Temsili

- Verimsiz bellek kullanımı?

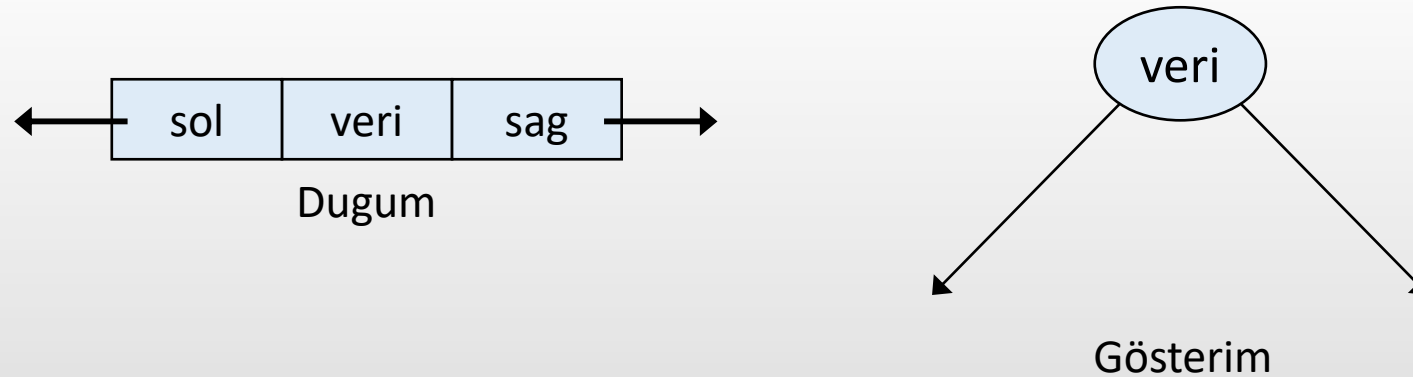


1	A
2	B
3	
4	C
...	
8	D
...	
16	E
...	...
31	



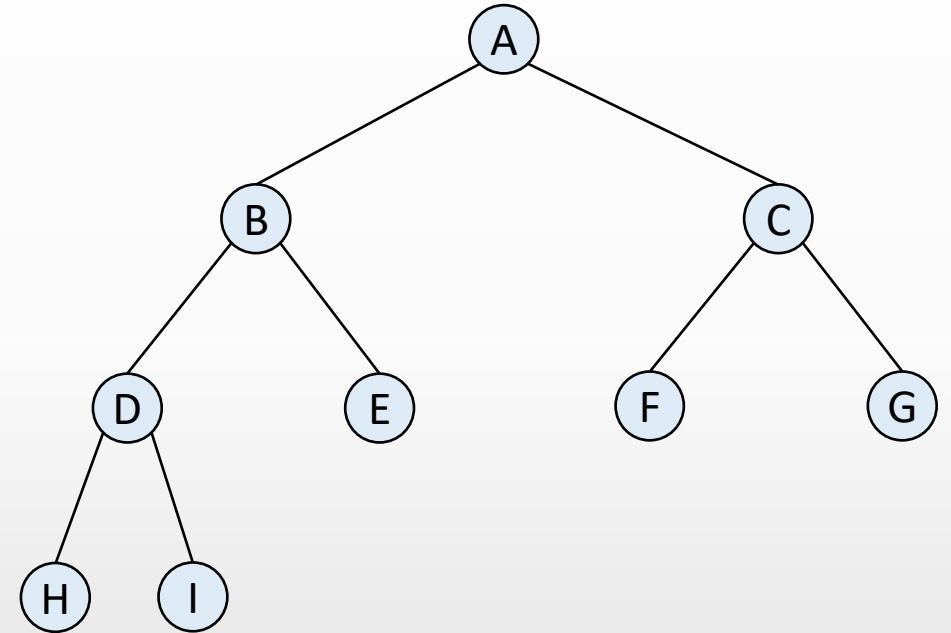
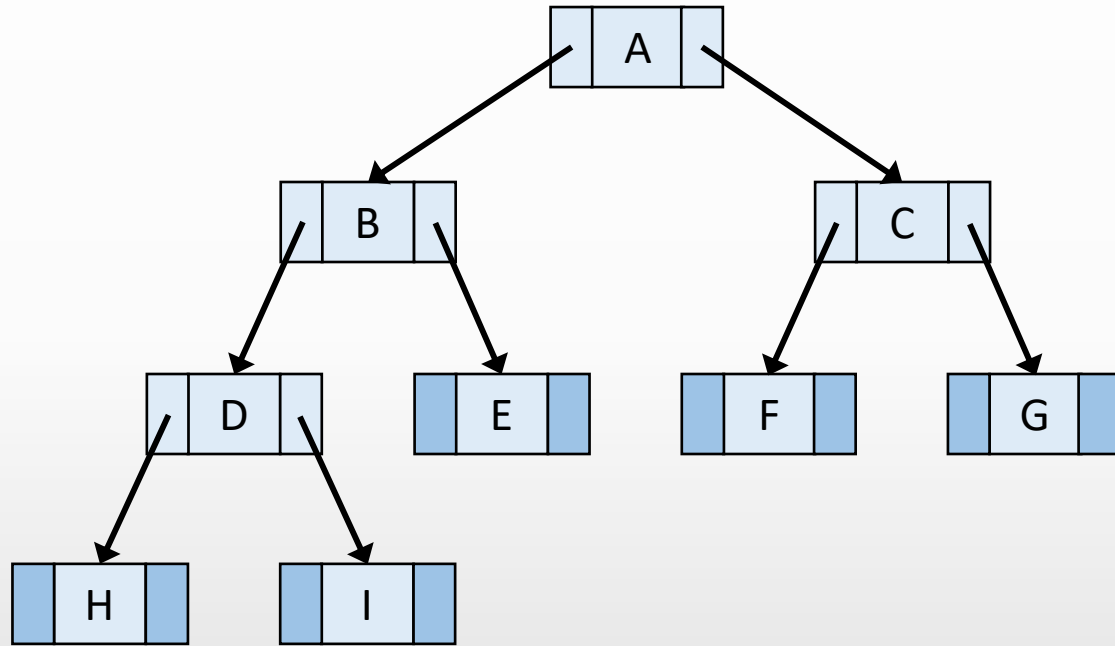
Bağlı Liste Temsili

- İkili ağacın her bir düğümü bir bağlı liste düğümüne karşılık gelir.
- Her bir düğüm, veriyi saklar ve sol ve sağ çocukları işaret eder.
- Dinamik boyutludur, erişim maliyetlidir.



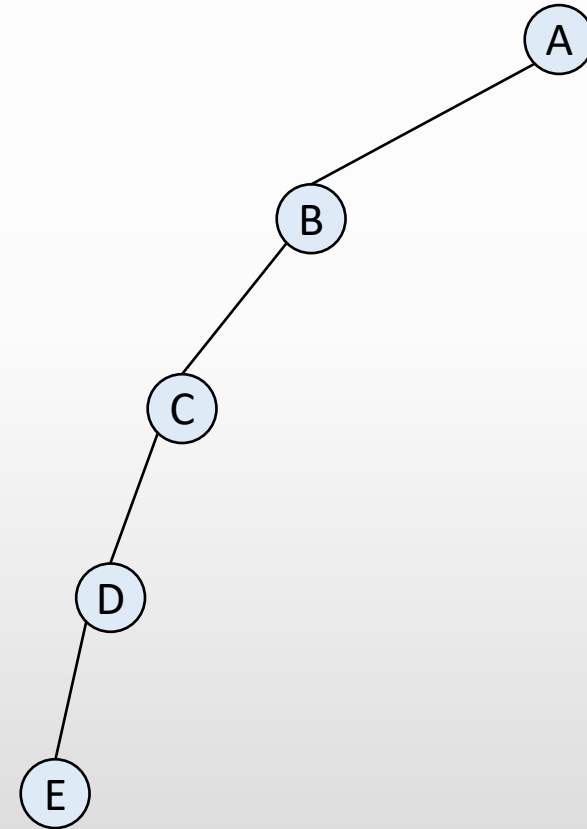
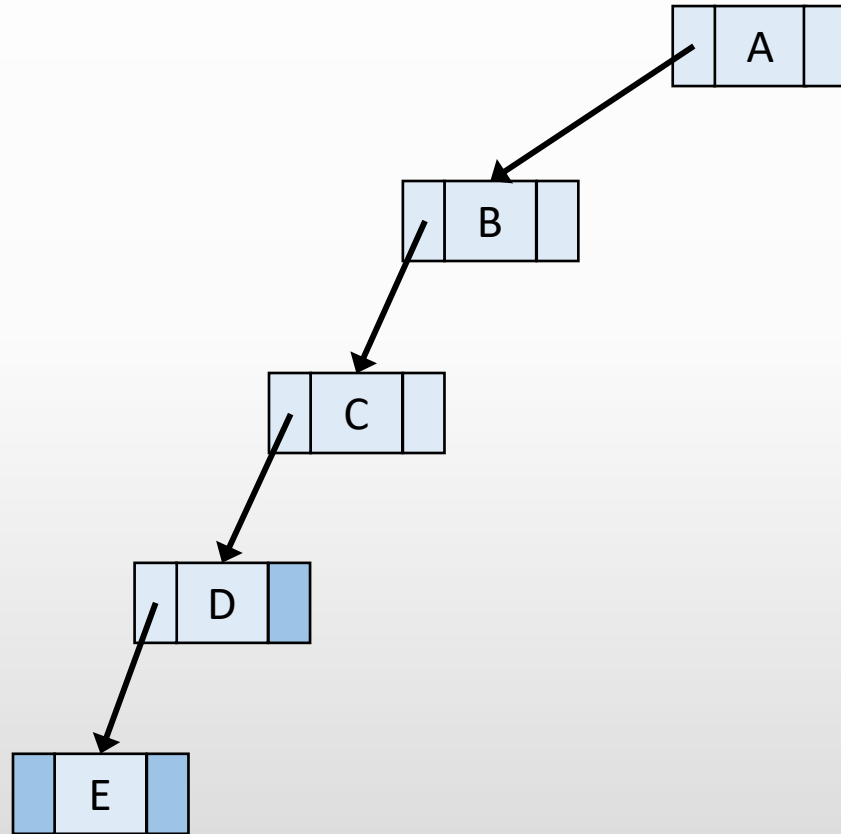


Bağlı Liste Temsili



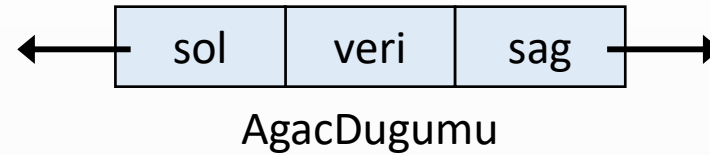


Bağlı Liste Temsili





Bağlı Liste Temsili



```
public class AgacDugumu {  
    private int veri;  
    private AgacDugumu sol;  
    private AgacDugumu sag;  
  
    public AgacDugumu(int veri) {  
        this.veri = veri;  
    }  
}
```



Ağaç Gezinmeleri

- İkili ağaçlarda, düğümleri gezerek içerdikleri verilere erişebiliriz.
- Düğümleri belirli bir sırayla **yalnızca bir kez** ziyaret etmek için kullanılır.
- **Kök başta** - Ön Sıra Gezintisi (Preorder Traversal)
- **Kök ortada** - İç Sıra Gezintisi (Inorder Traversal)
- **Kök sonda** - Sonra Sıra Gezintisi (Postorder Traversal)
- Seviye Sıra Gezintisi (Level-order Traversal)



Kök Bařta - Ön Sıra Gezintisi (Preorder)

- Önce kök düğümü,
 - Sonra sol çocuęu,
 - Sonra saę çocuęu ziyaret eder.
-
- **Kullanım:**
 - Ağacı kopyalamak,
 - Ağaçtaki düğümleri bir diziye eklemek.



Kök Ortada - İç Sıra Gezintisi (Inorder)

- Önce sol çocuğu,
- Sonra kök düğümü,
- Sonra sağ çocuğu ziyaret eder.
- **Kullanım:**
 - İkili arama ağaçlarını sıralamak,
 - Verileri sıralı bir şekilde dolaşmak.



Kök Sonda - Sonra Sıra Gezintisi (Postorder)

- Önce sol çocuğu,
- Sonra sağ çocuğu,
- Sonra kök düğümü ziyaret eder.

- **Kullanım:**
 - Ağaçların düğümlerini silmek.



Seviye Sıra Gezintisi (Level-order Traversal)

- Ağacın tüm seviyelerini soldan sağa tarar ve düğümleri ziyaret eder.
- **Kullanım:**
 - Genişlik önceliği ile ağaçları dolaşmak,
 - Seviyelere göre işlem yapmak.

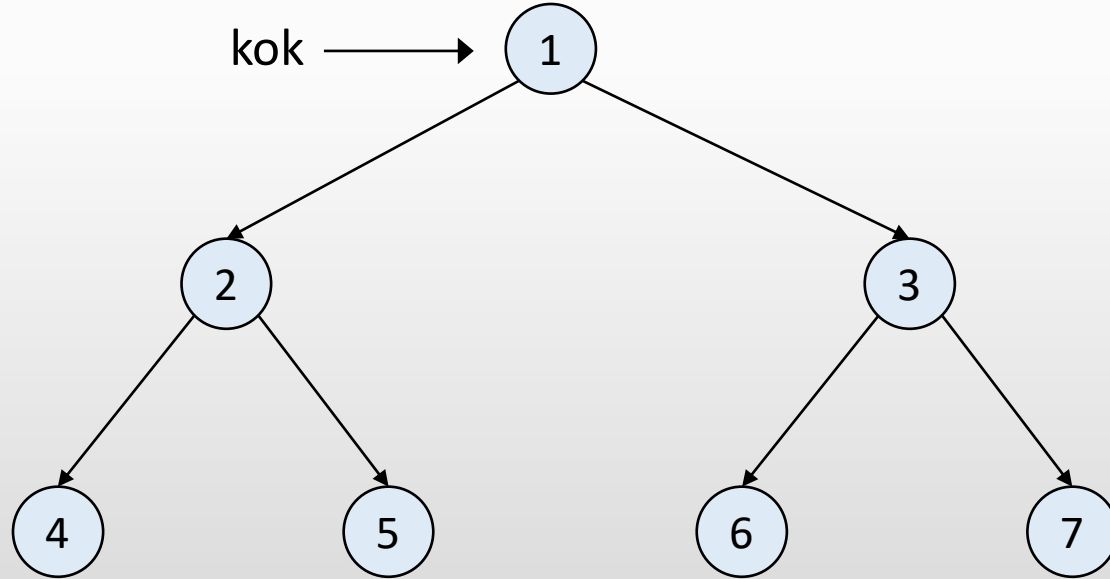
Kök Bařta (Preorder) Dolařımı





Kök Baştta (Preorder) Dolaşımı

- Kök düğümü ziyaret et.
- Kök başta olacak şekilde sol alt ağacı dolaş.
- Kök başta olacak şekilde sağ alt ağacı dolaş.



Kök başta dolaşımı: **1 2 4 5 3 6 7**

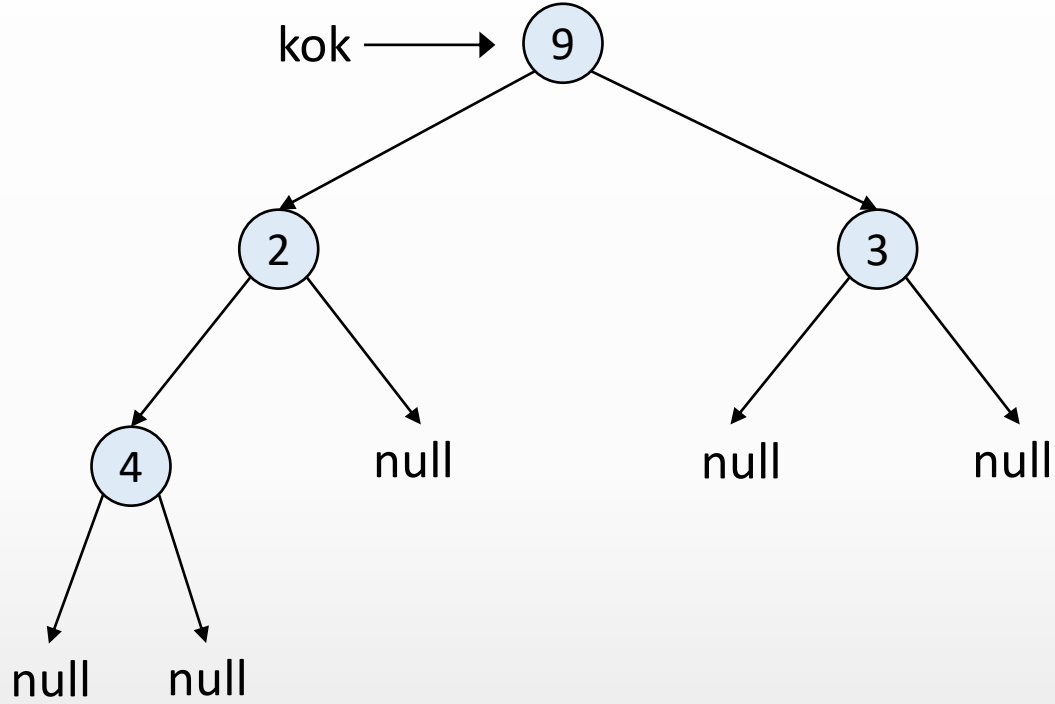


Çağırma Yiğiti (Call Stack)

Metot Çağırımı

Satır Numarası

Kök



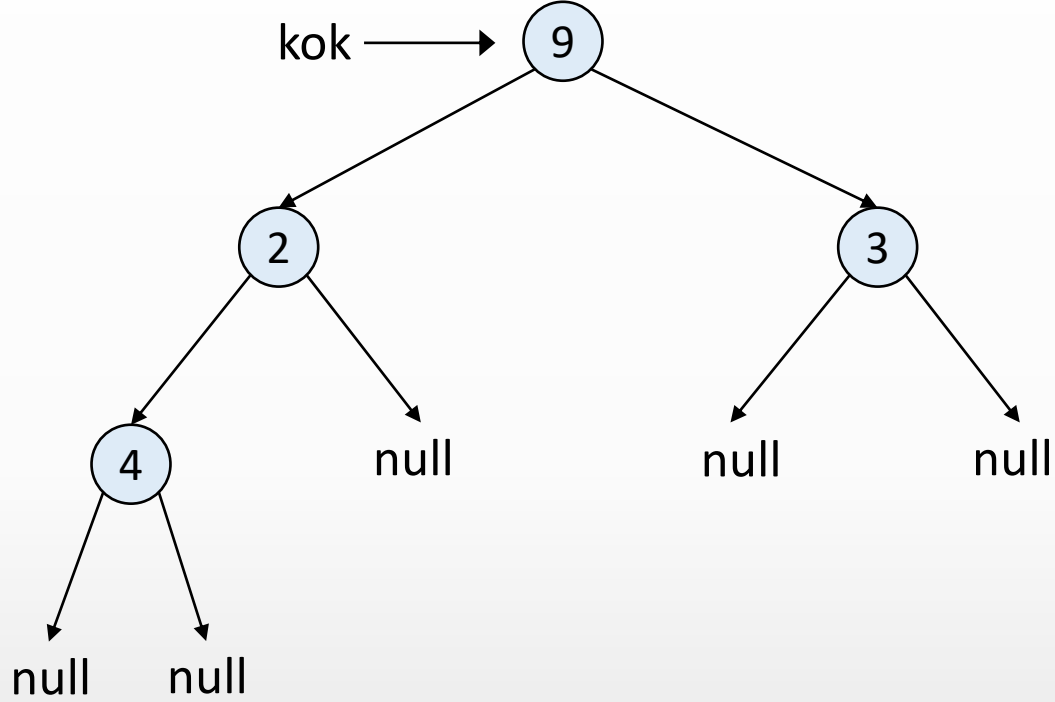
Çıktı:

```
1 public void kokBasta(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     System.out.print(kok.veri + " ");
6     kokBasta(kok.sol);
7     kokBasta(kok.sag);
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()		9



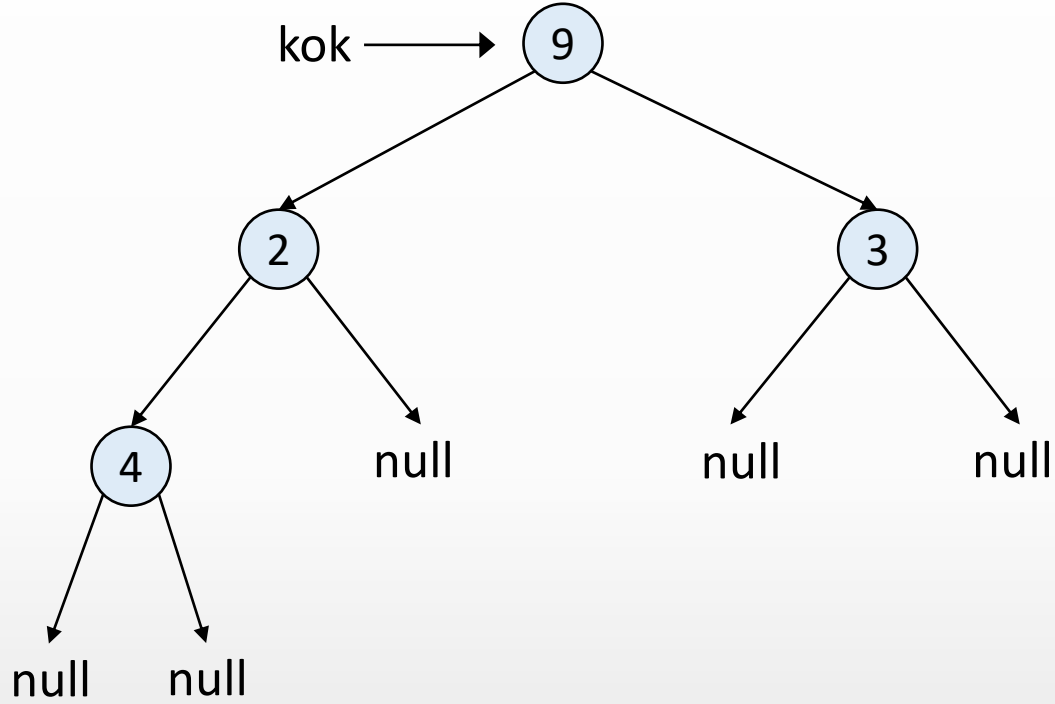
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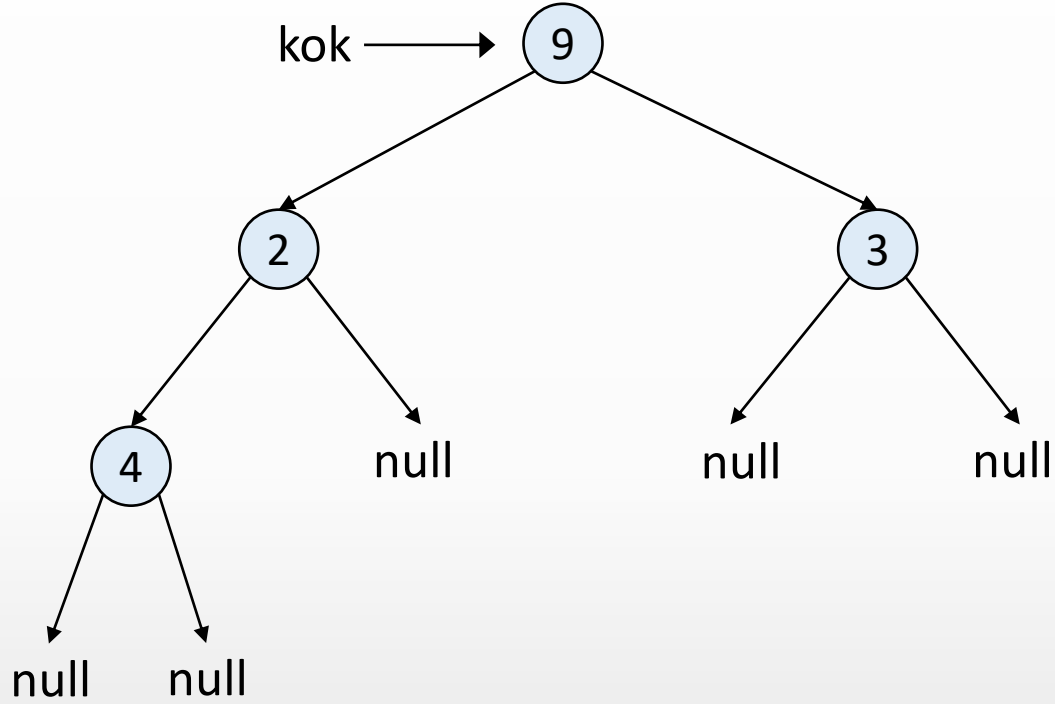
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Çağırma Yiğiti (Call Stack)

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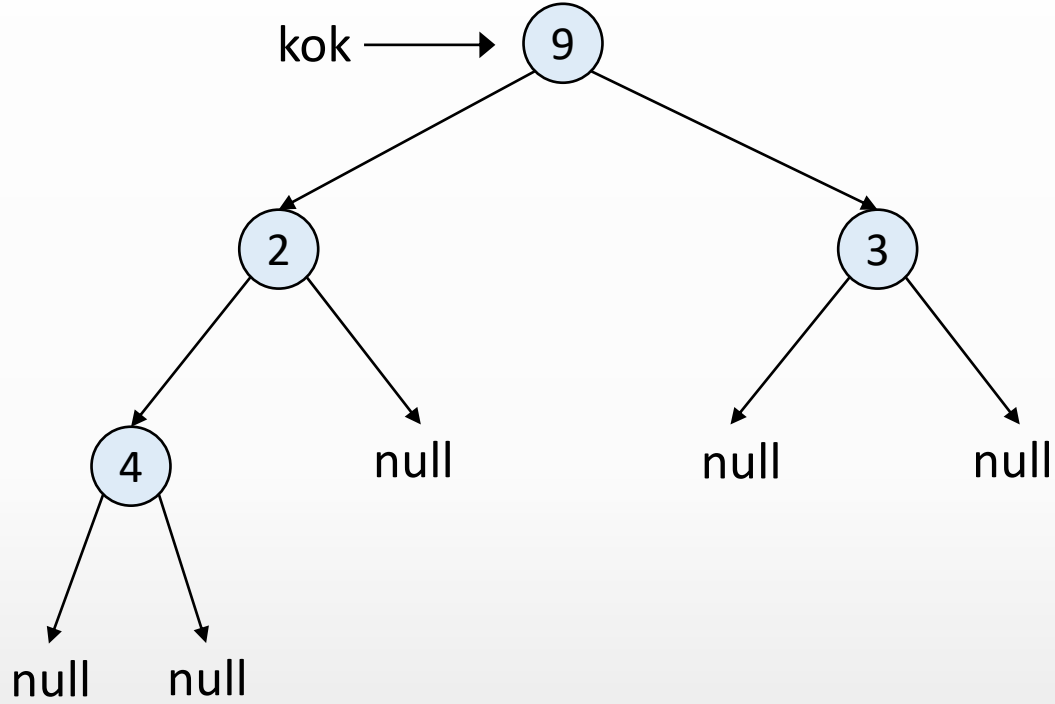
Çıktı: 9

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```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9



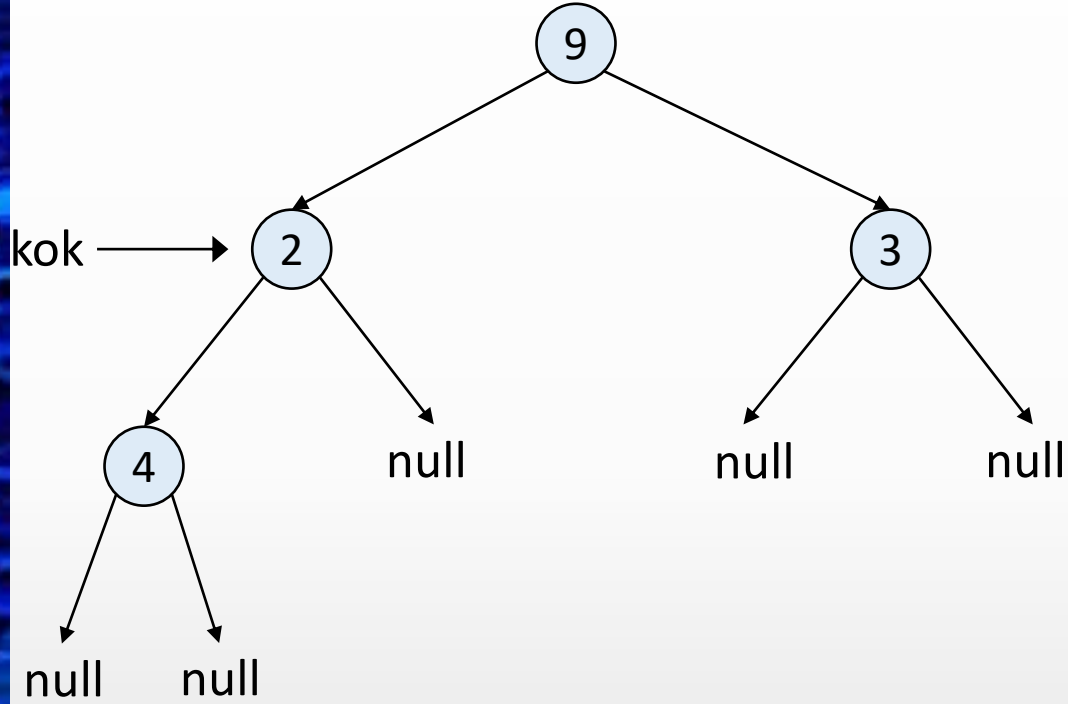
Çıktı: 9

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1 public void kokBasta(AgacDugumu kok) {
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8 }
```




Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()		2



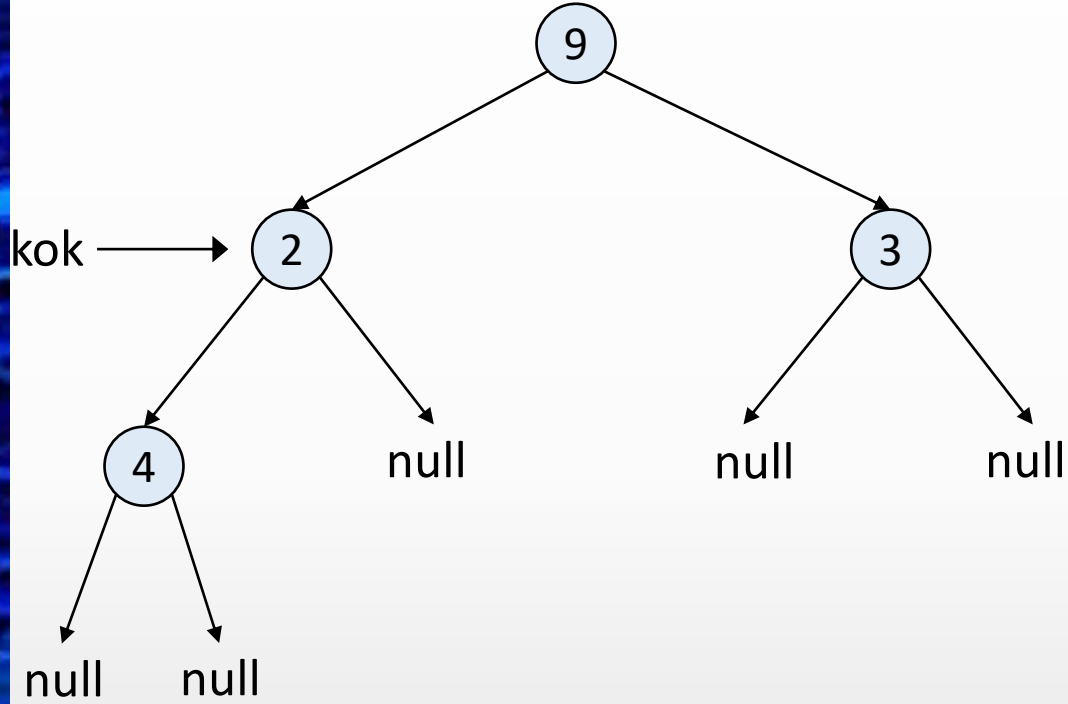
Çıktı: 9

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8 }
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()		2



Çıktı: 9

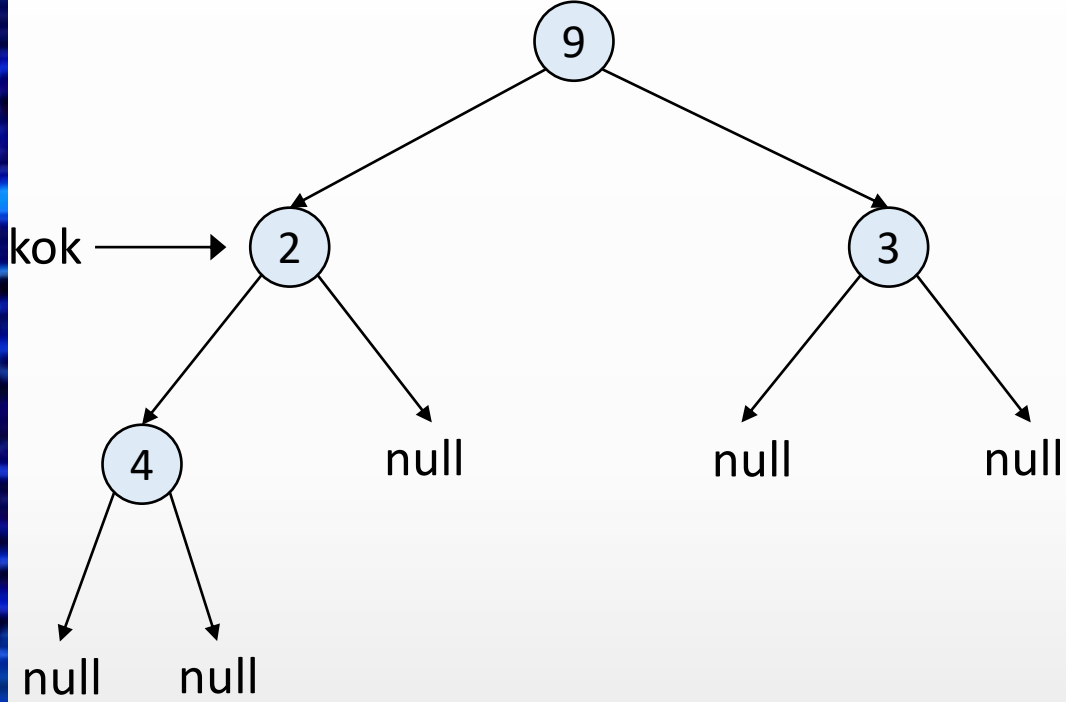


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Çağırma Yığıtı (Call Stack)

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kokBasta()	6	9
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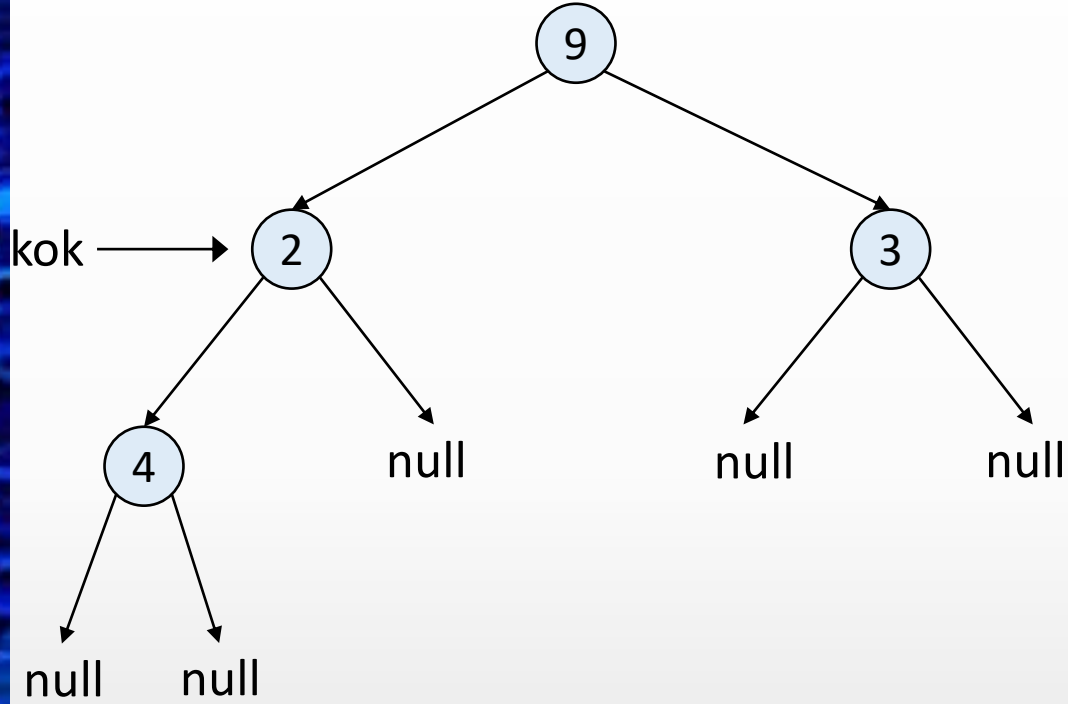
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



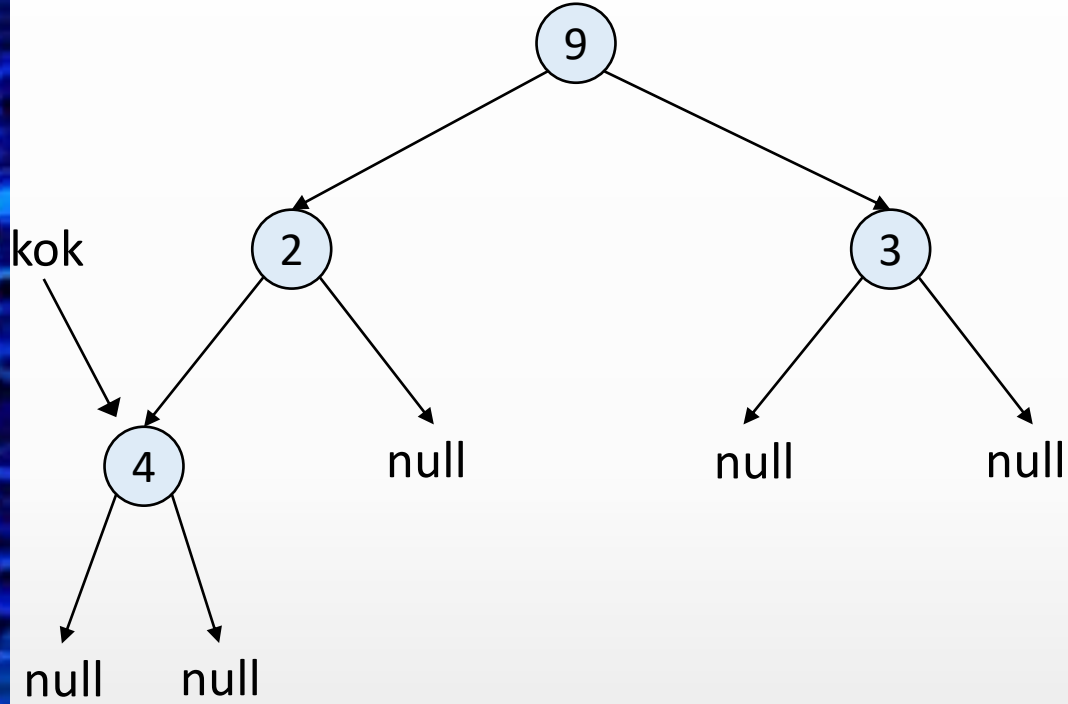
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()		4



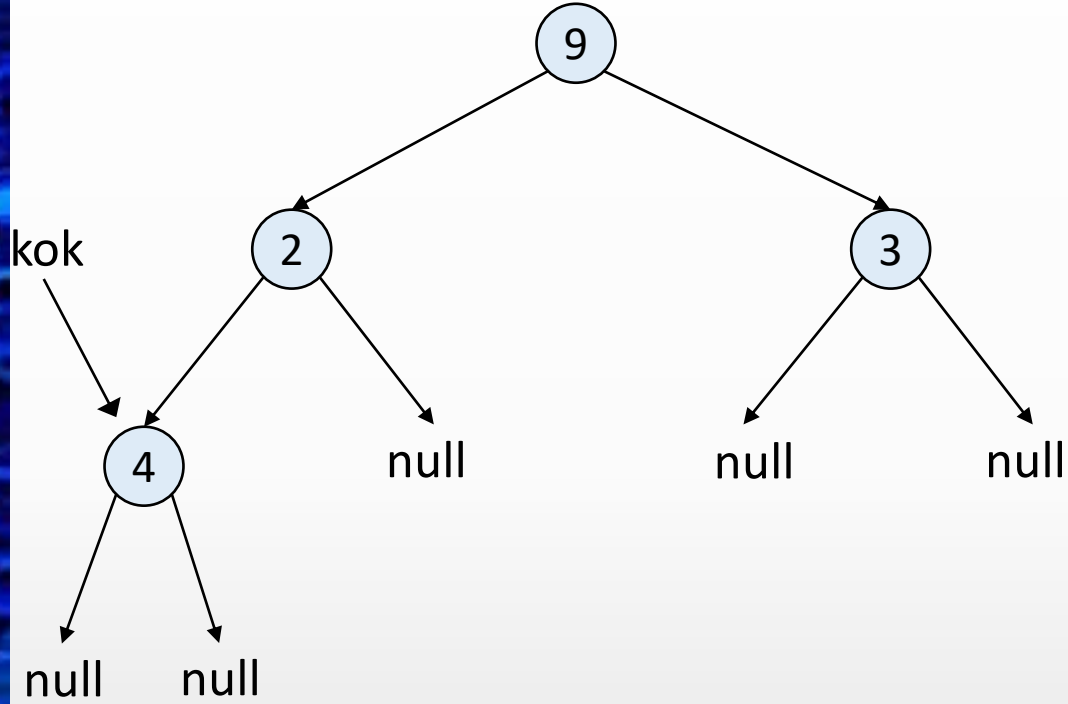
Çıktı: 9 2

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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()		4



Çıktı: 9 2

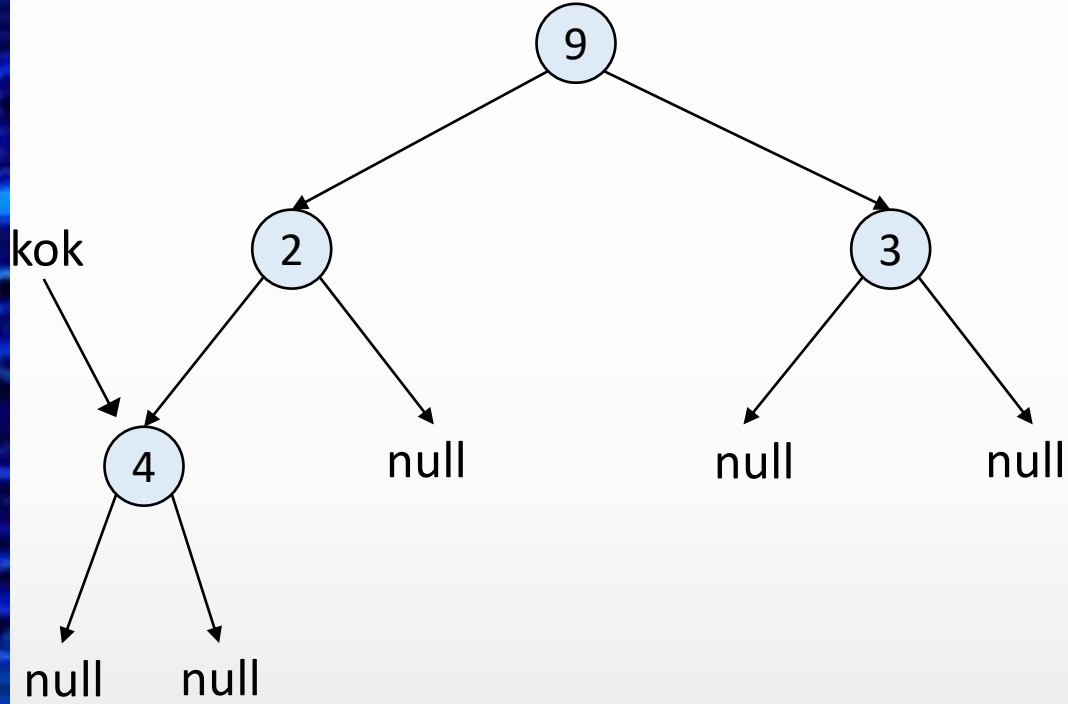


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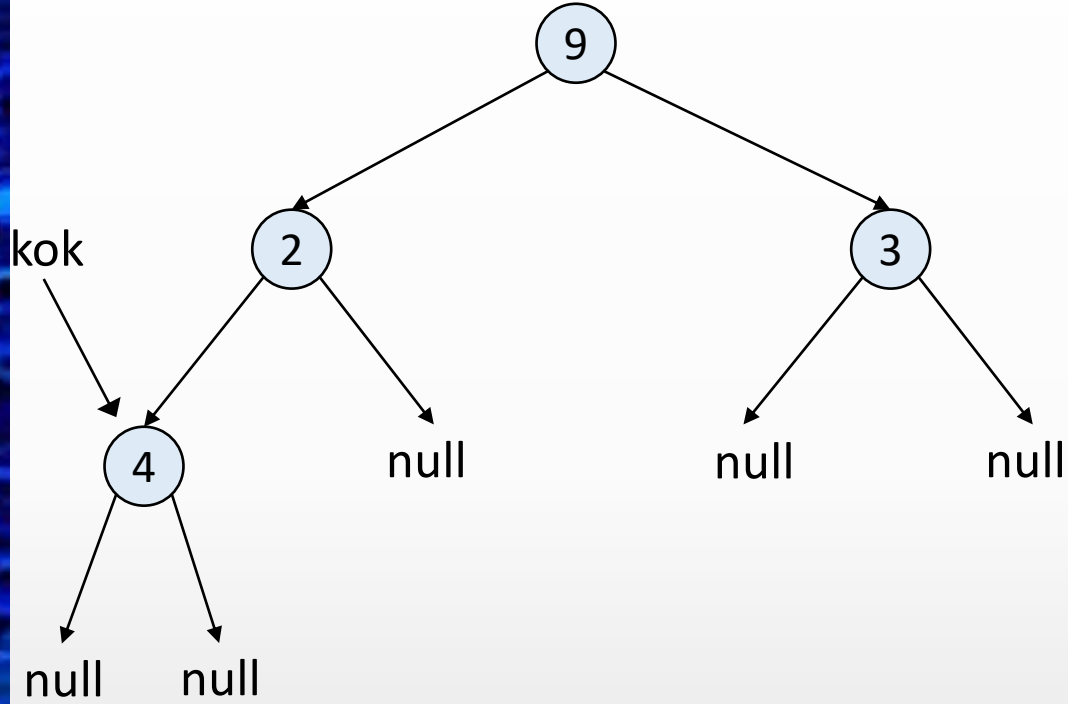
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
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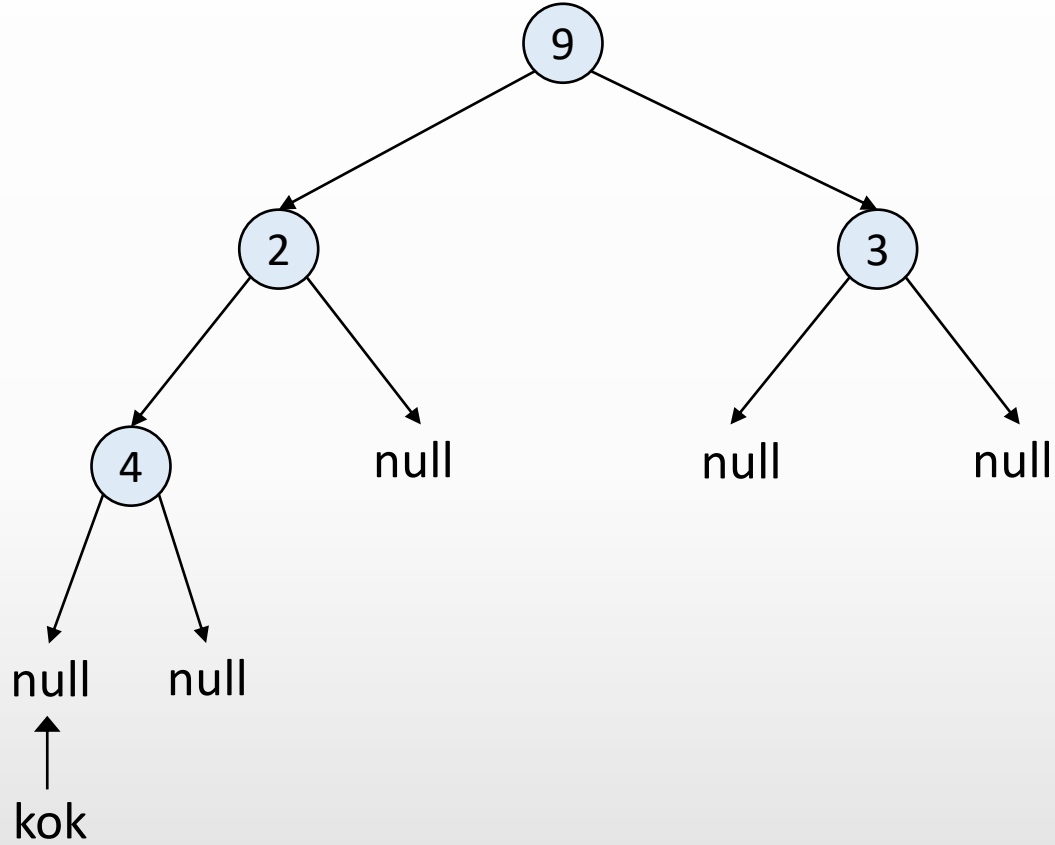
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Metot Çağırımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
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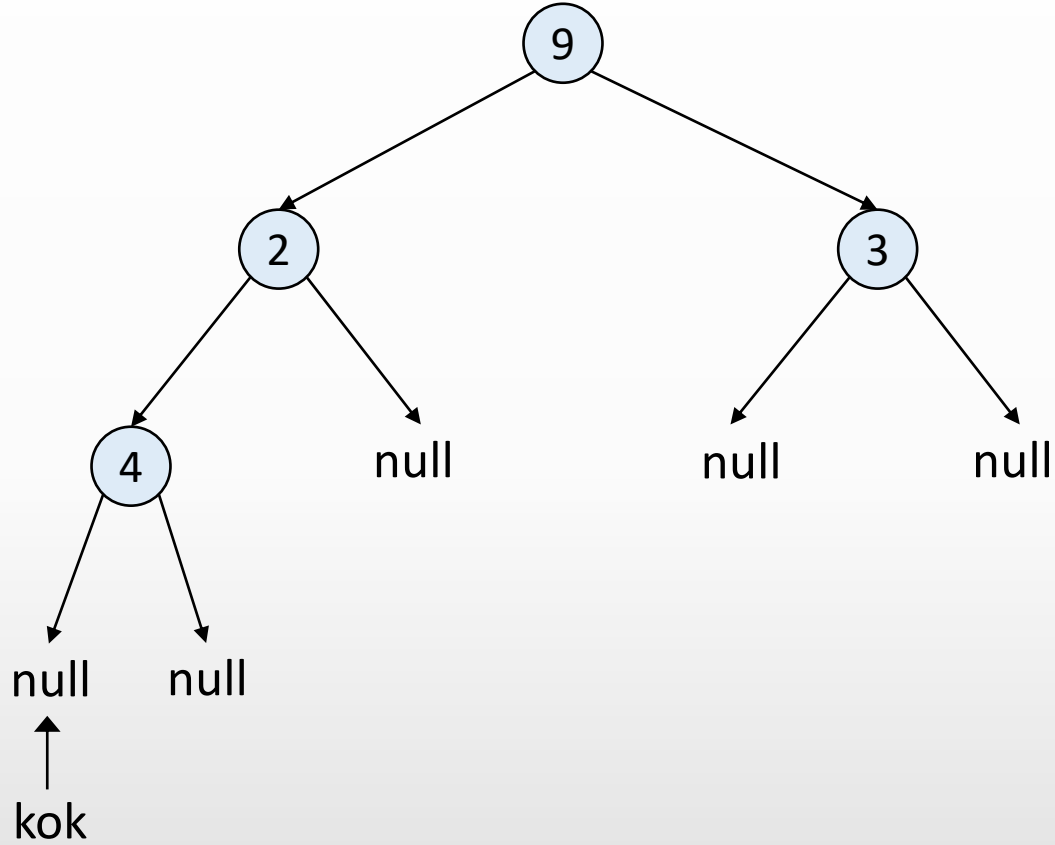
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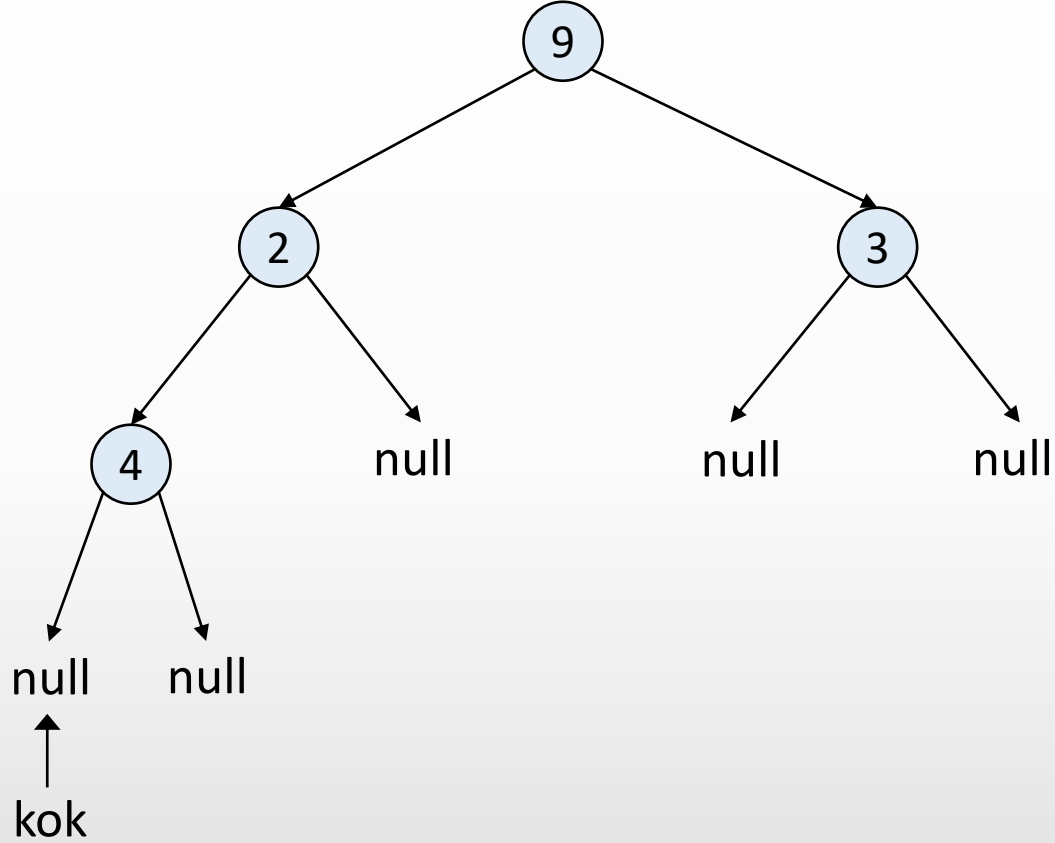
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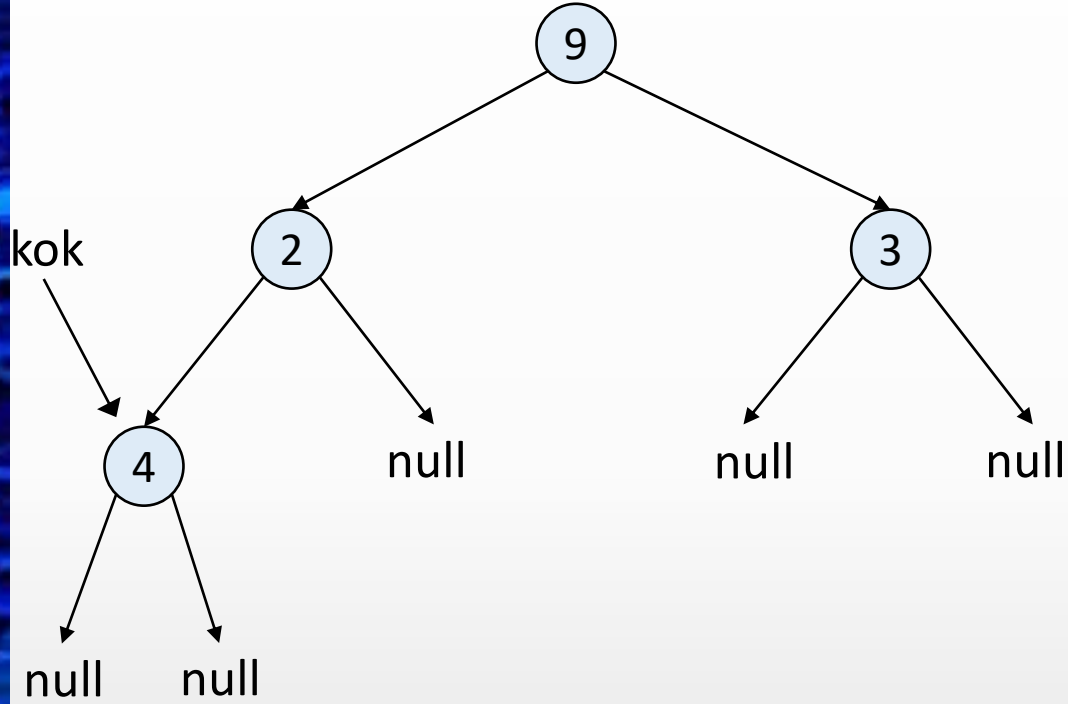
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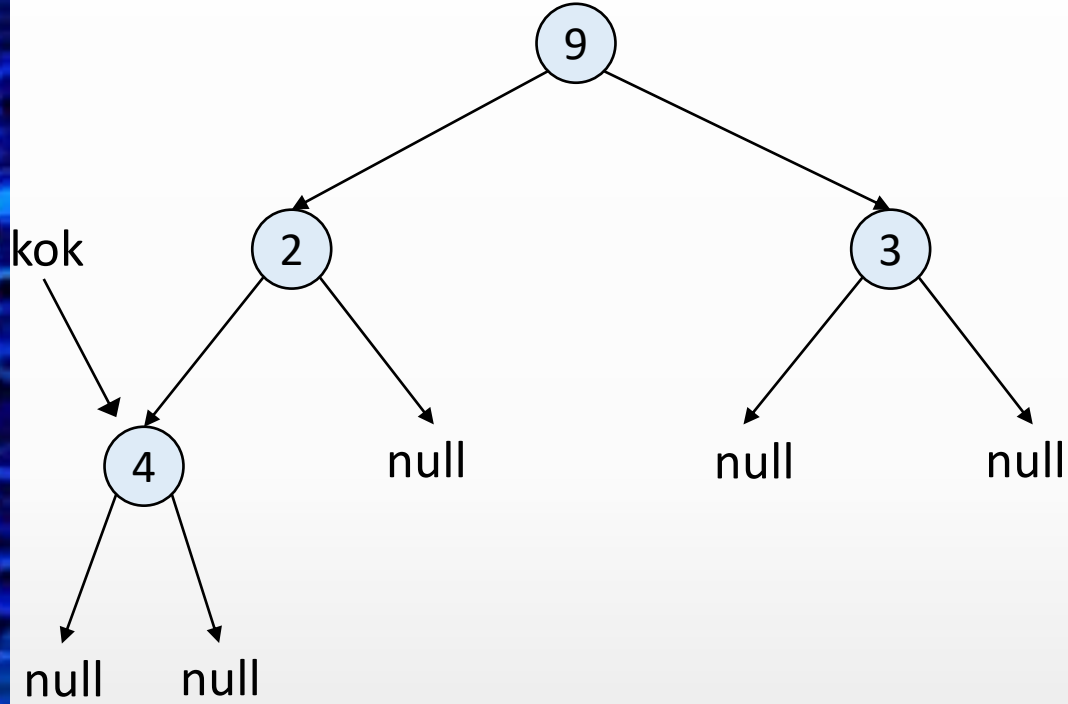
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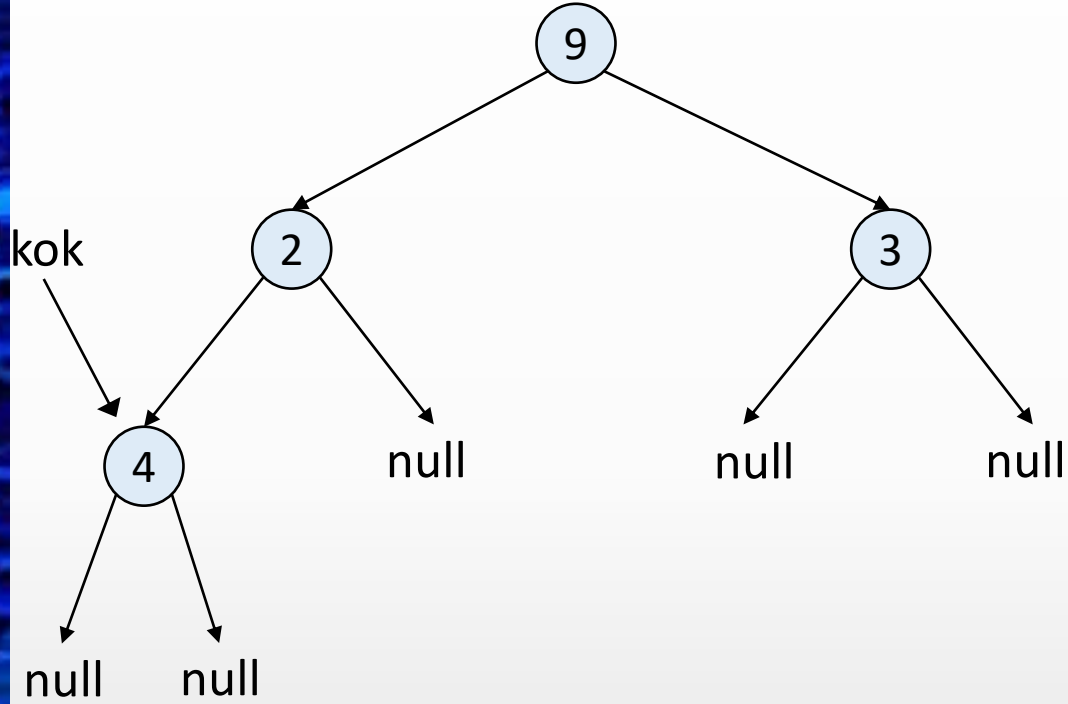
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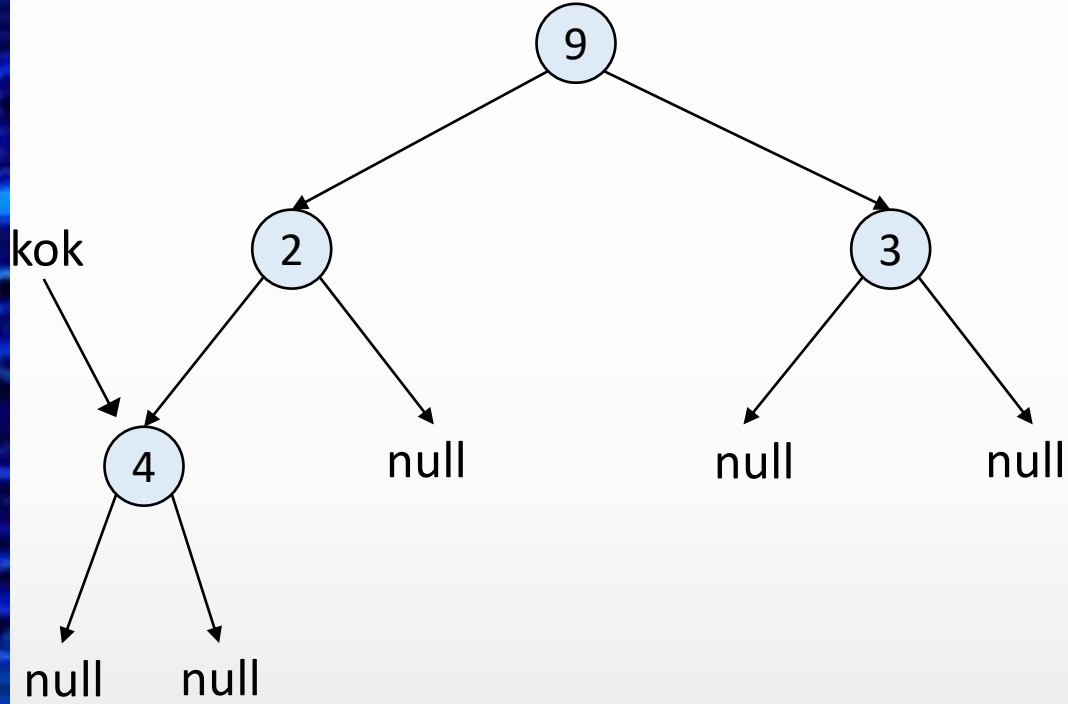
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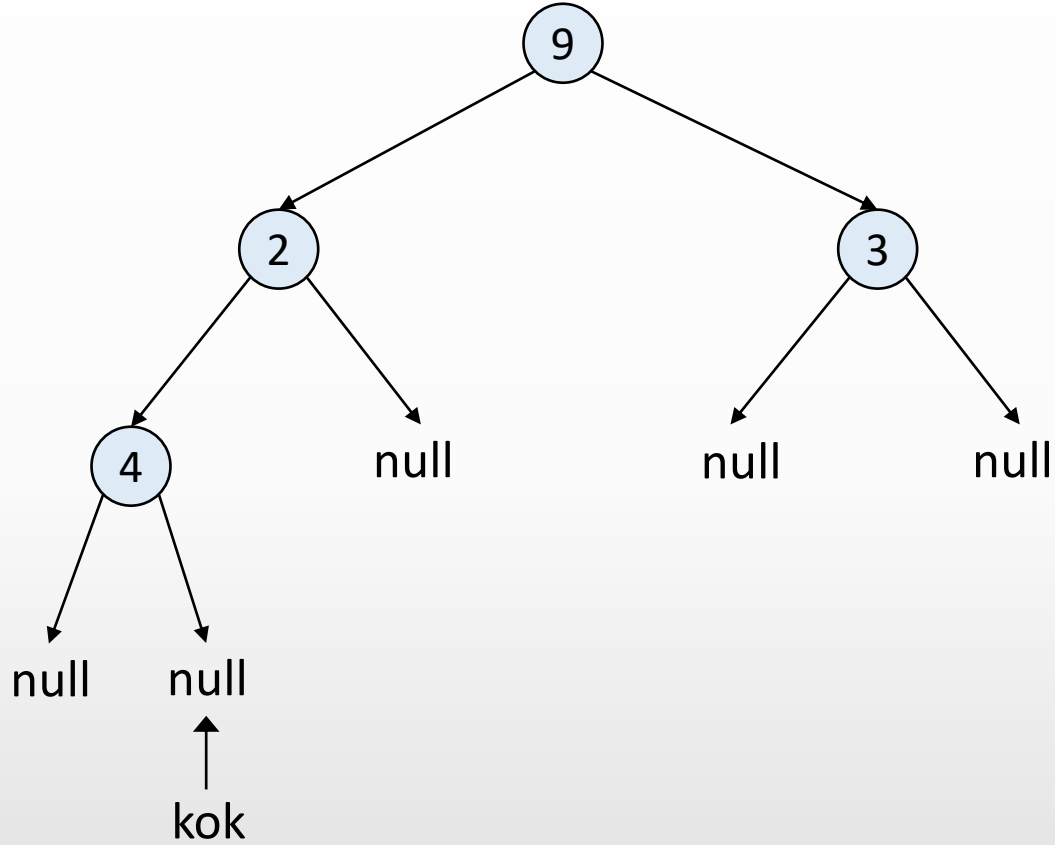
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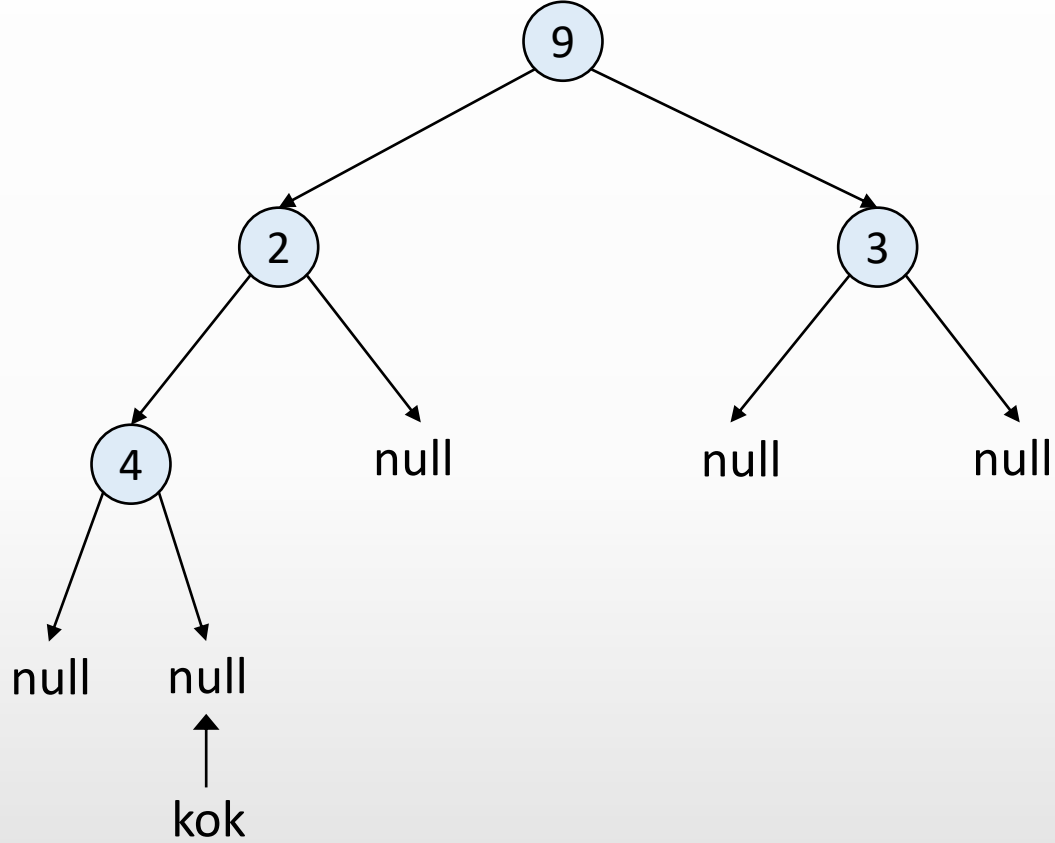
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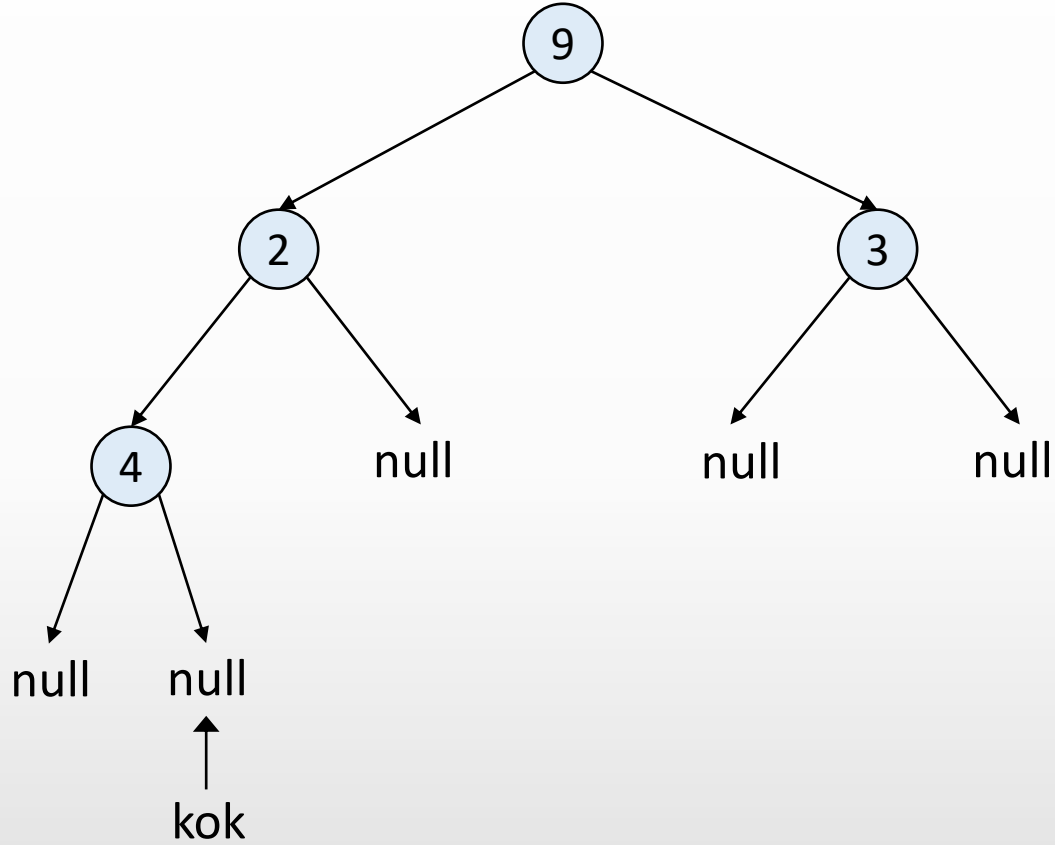
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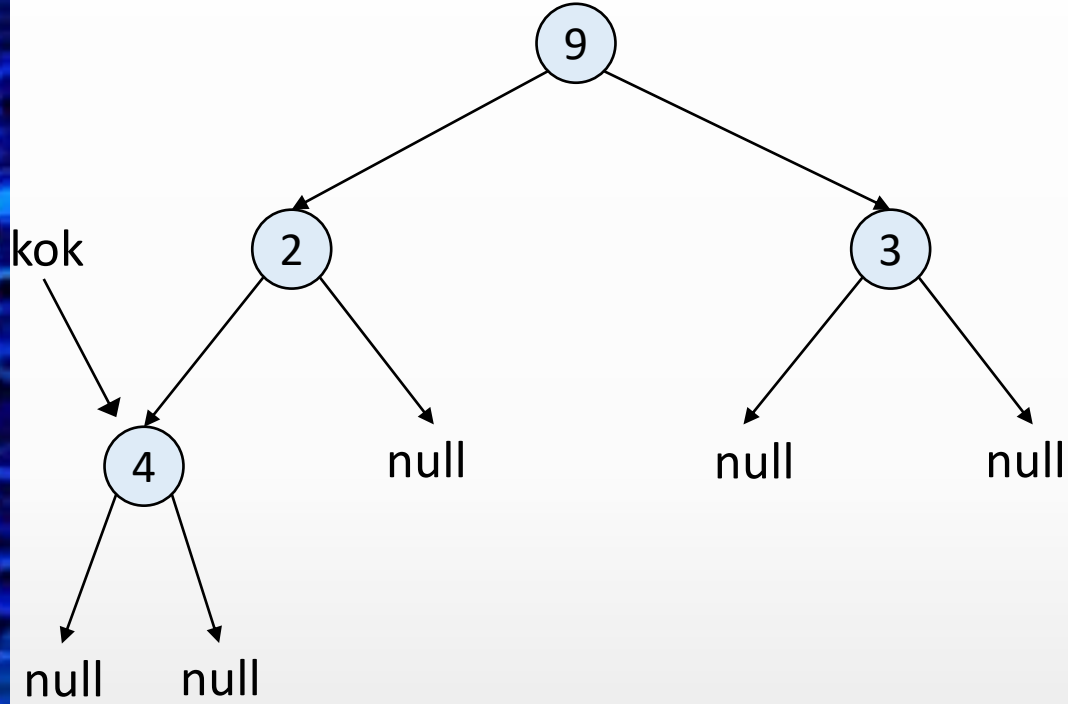
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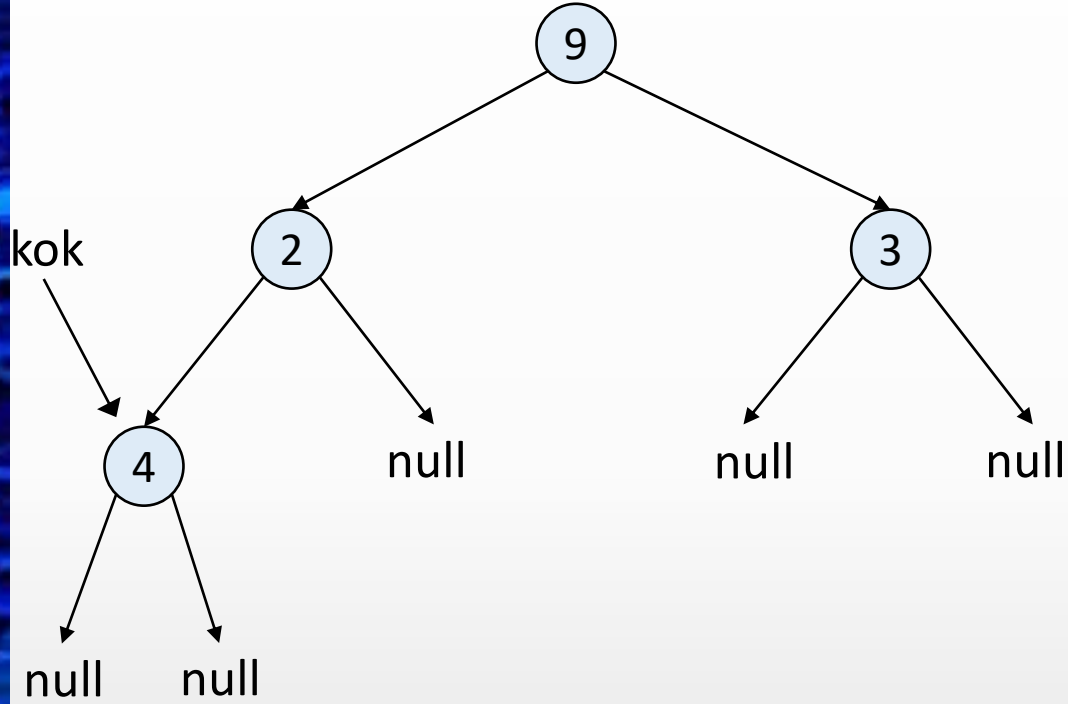
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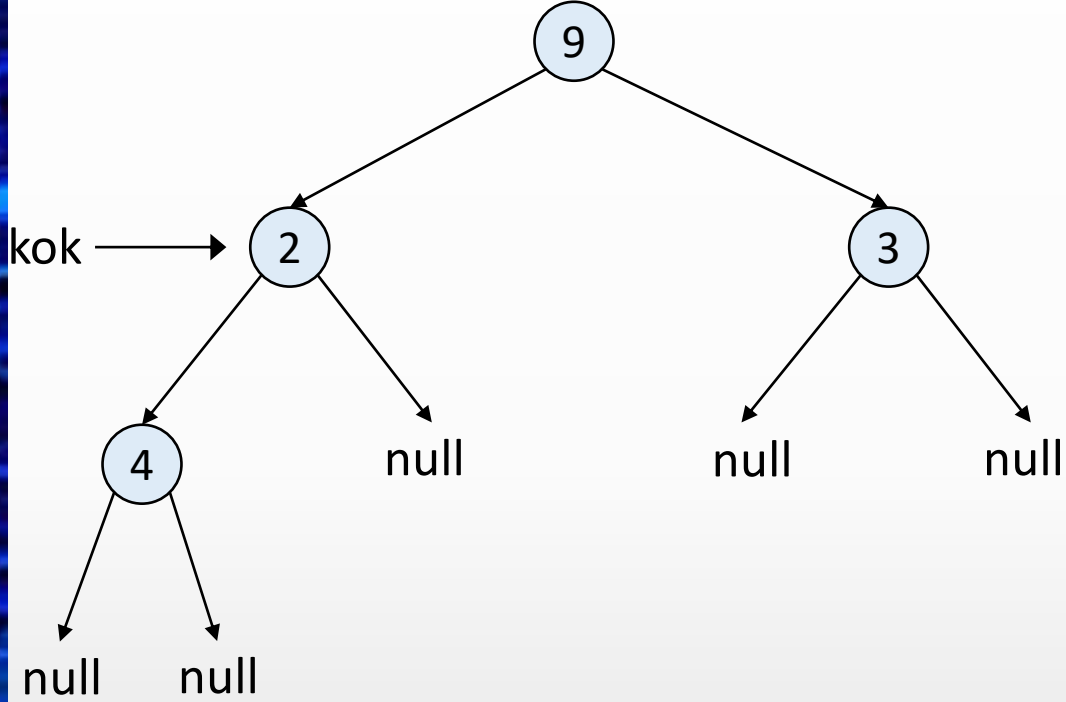
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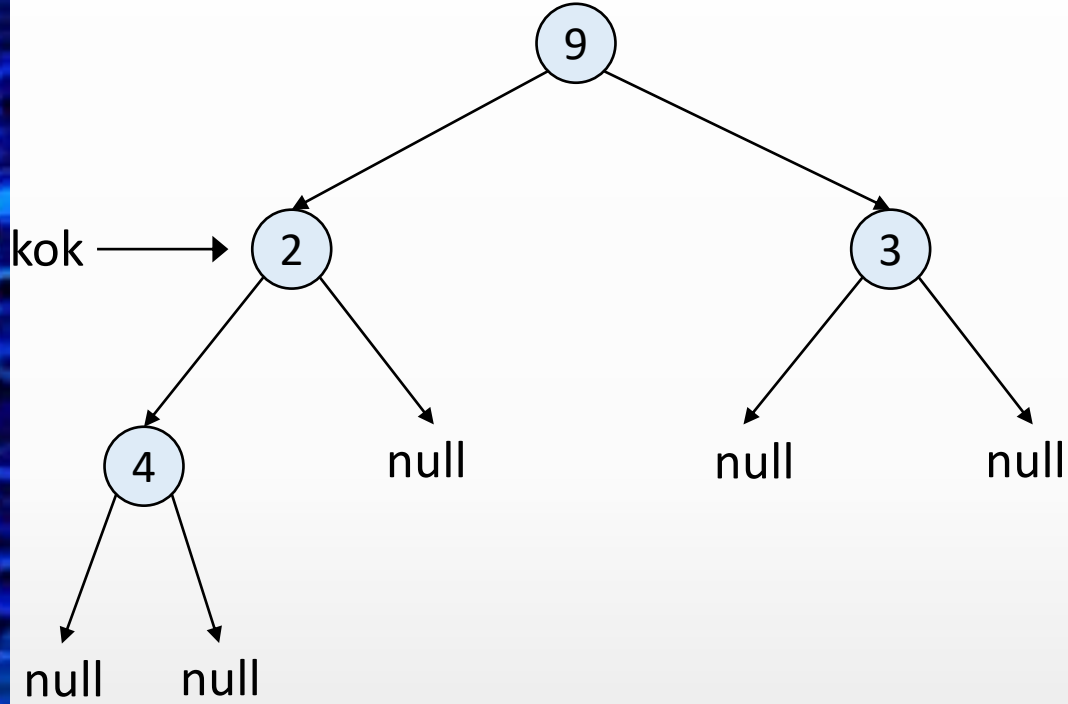
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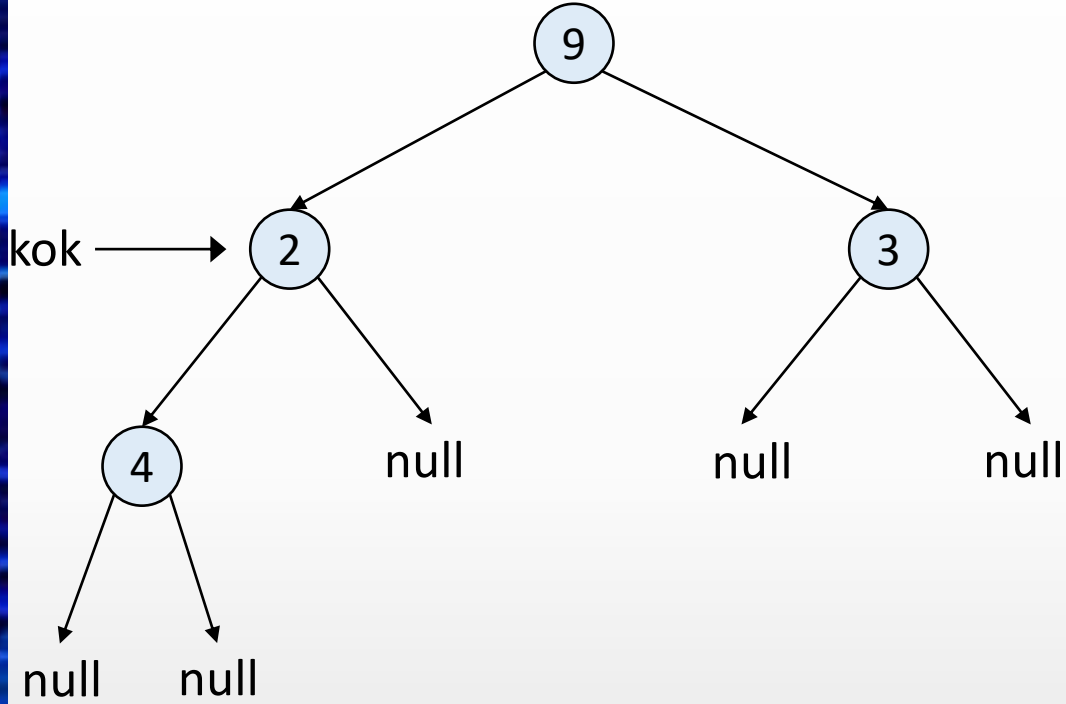
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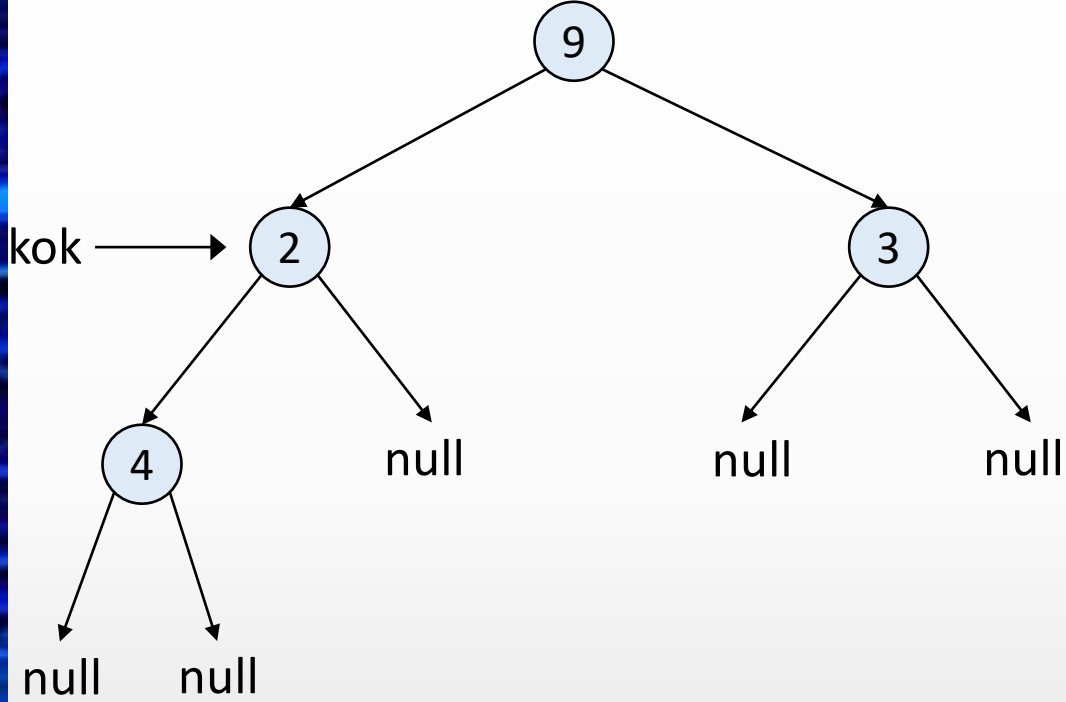
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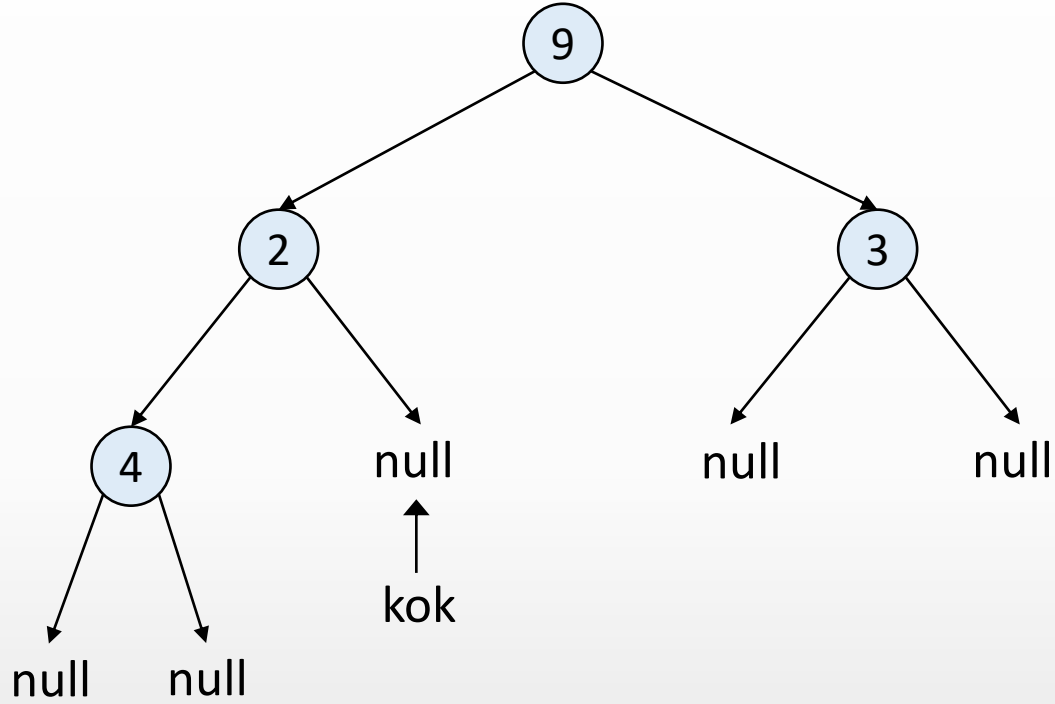
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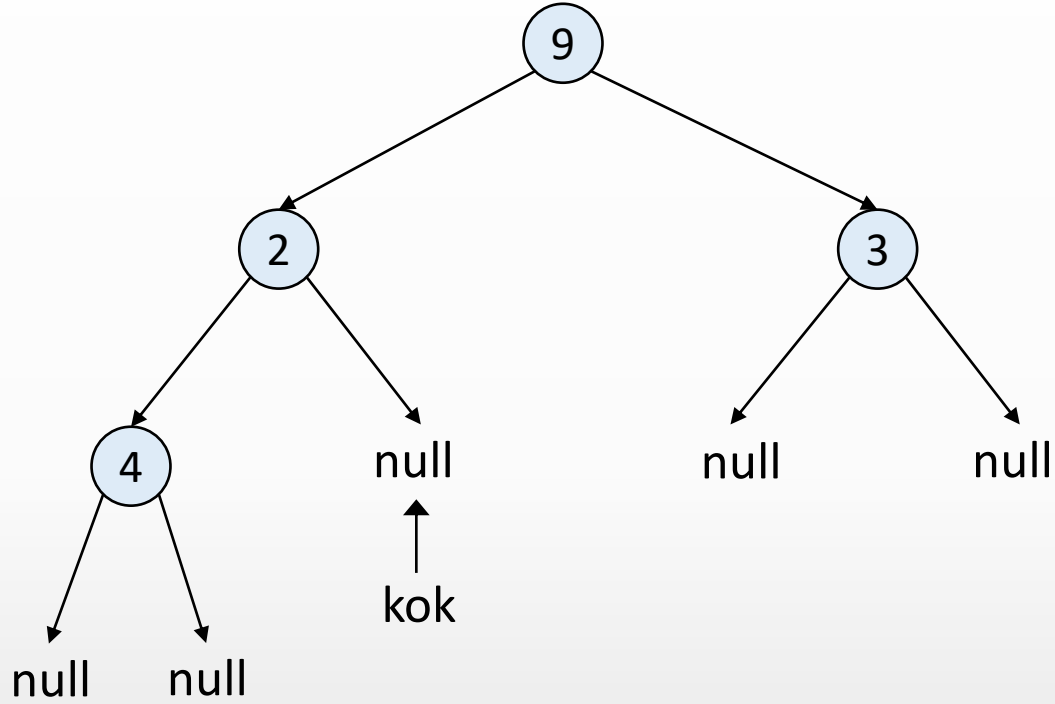
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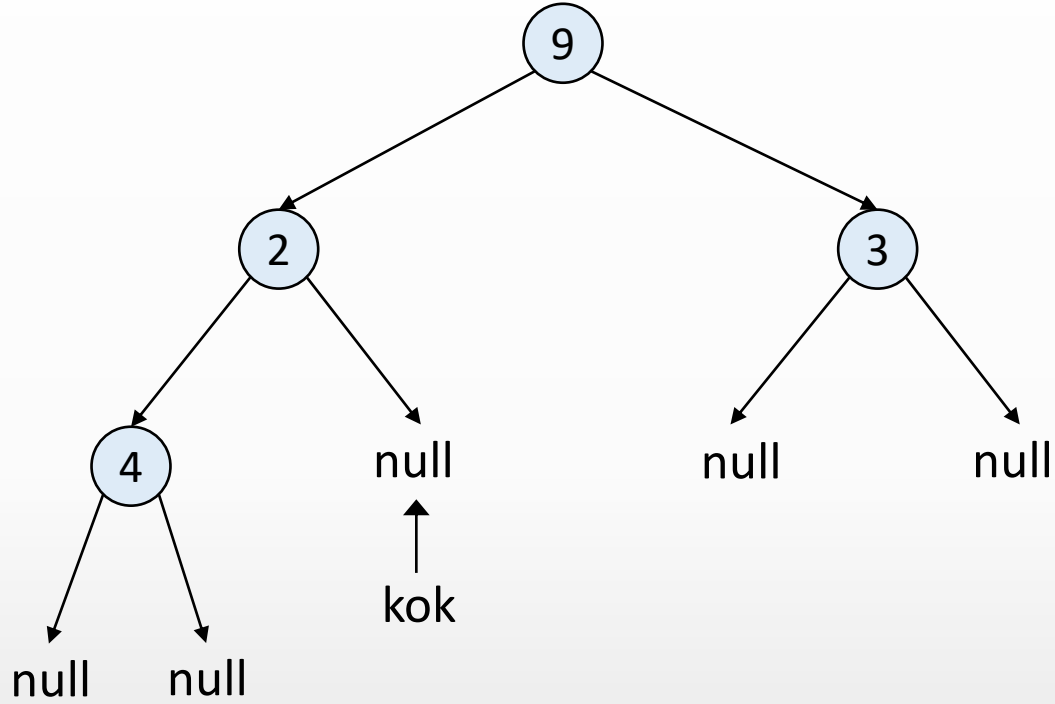


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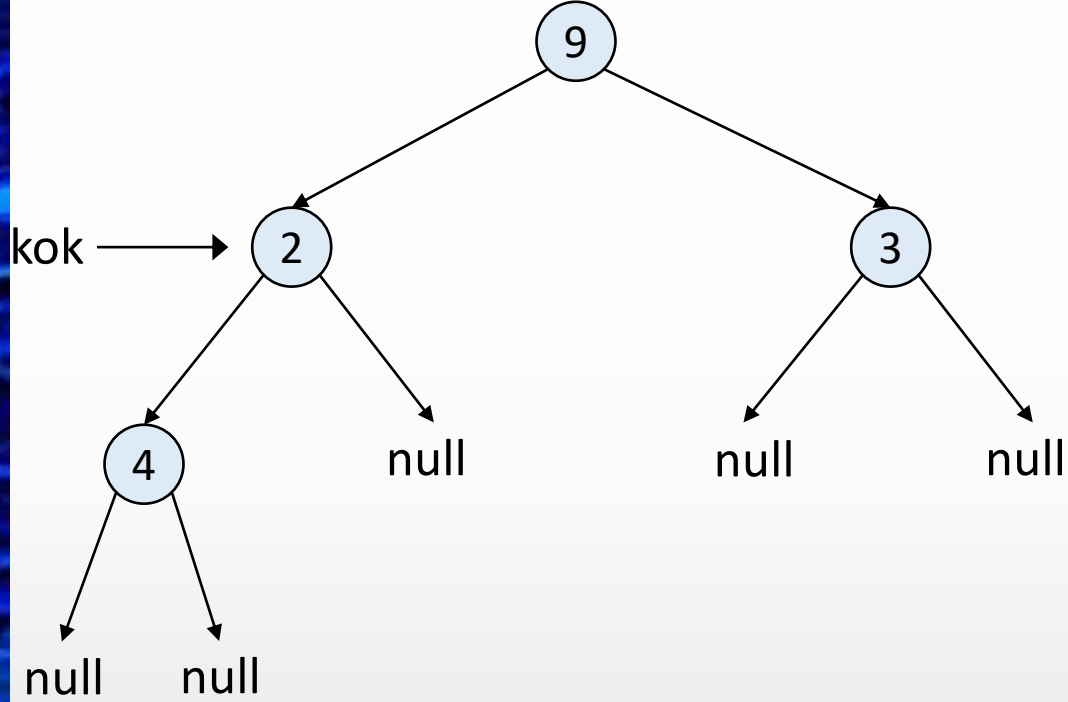
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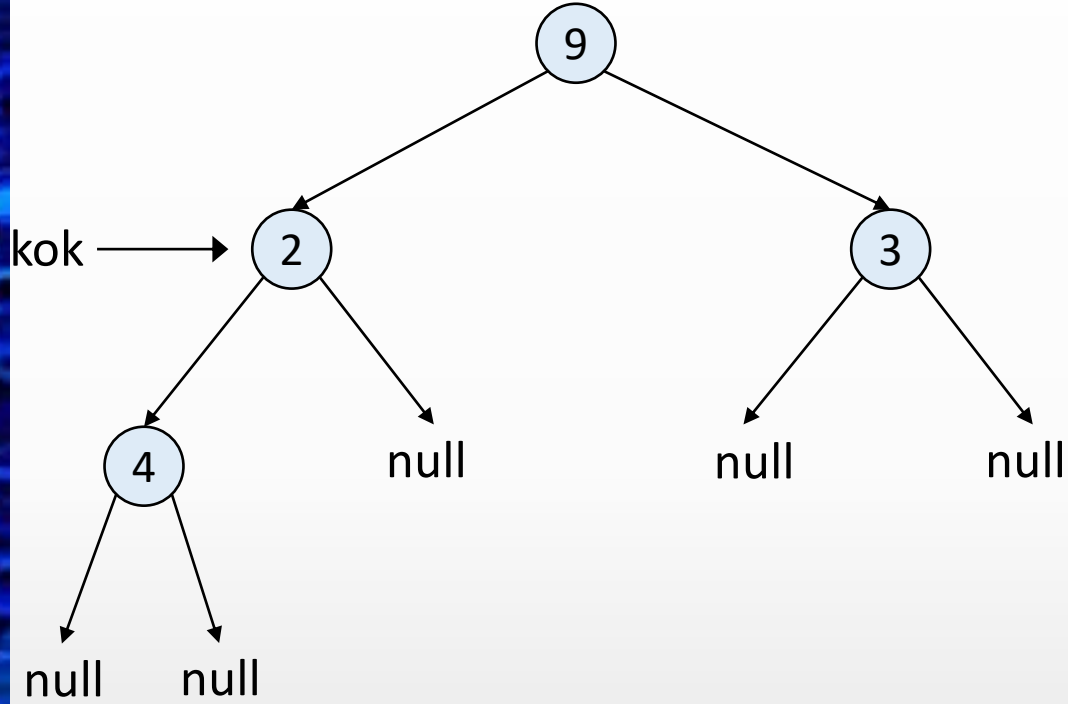
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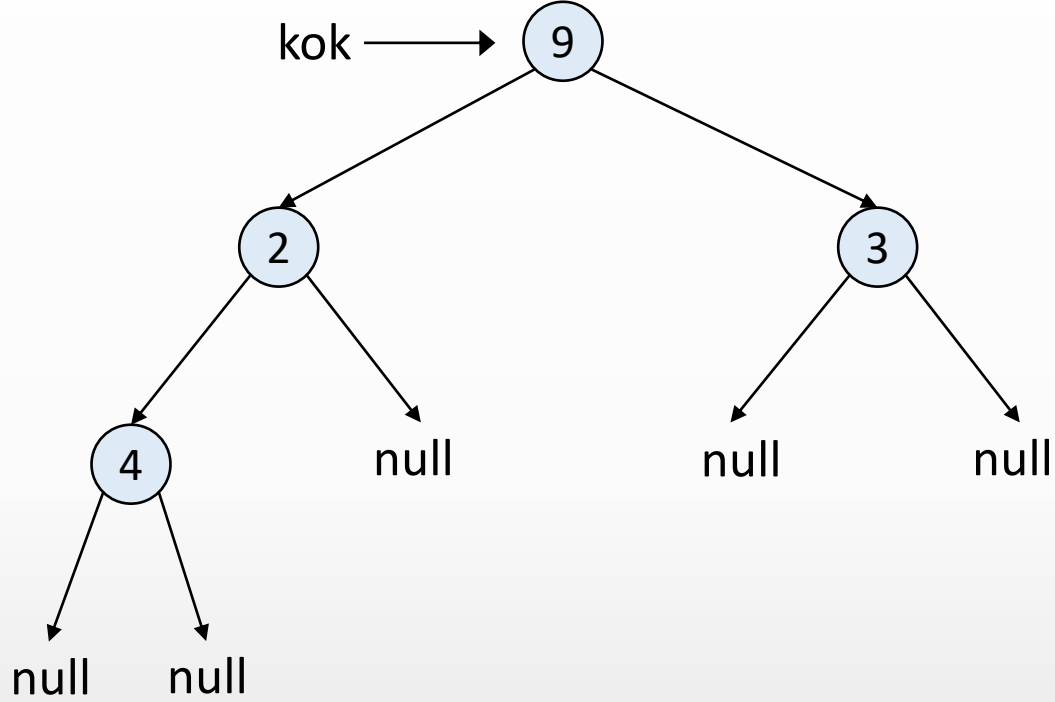
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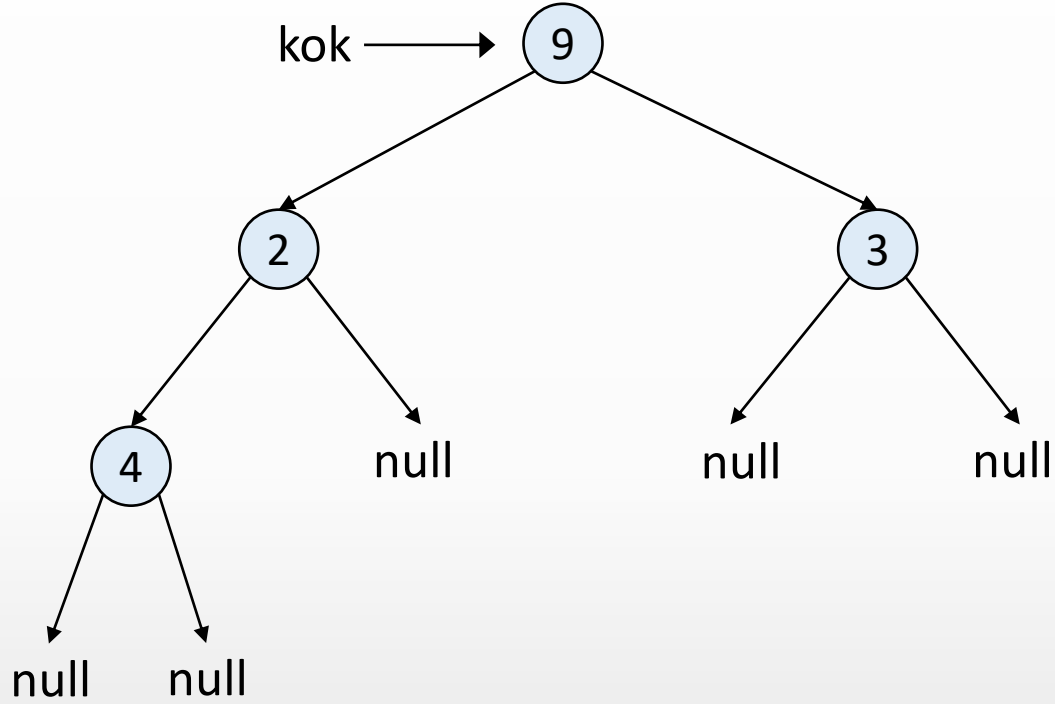
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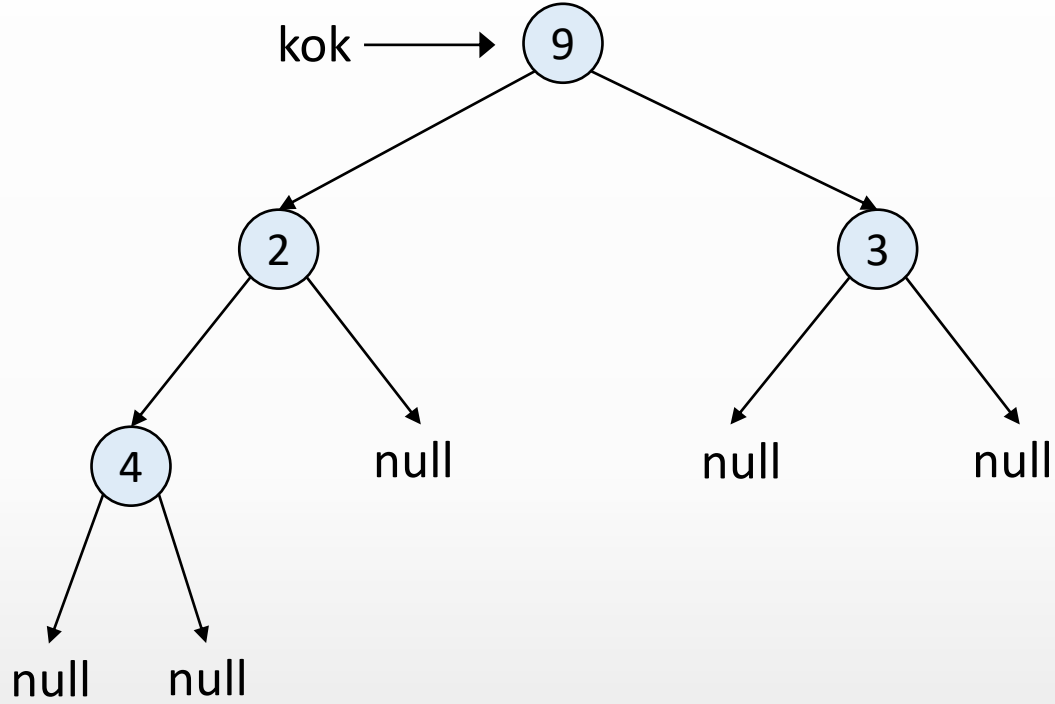
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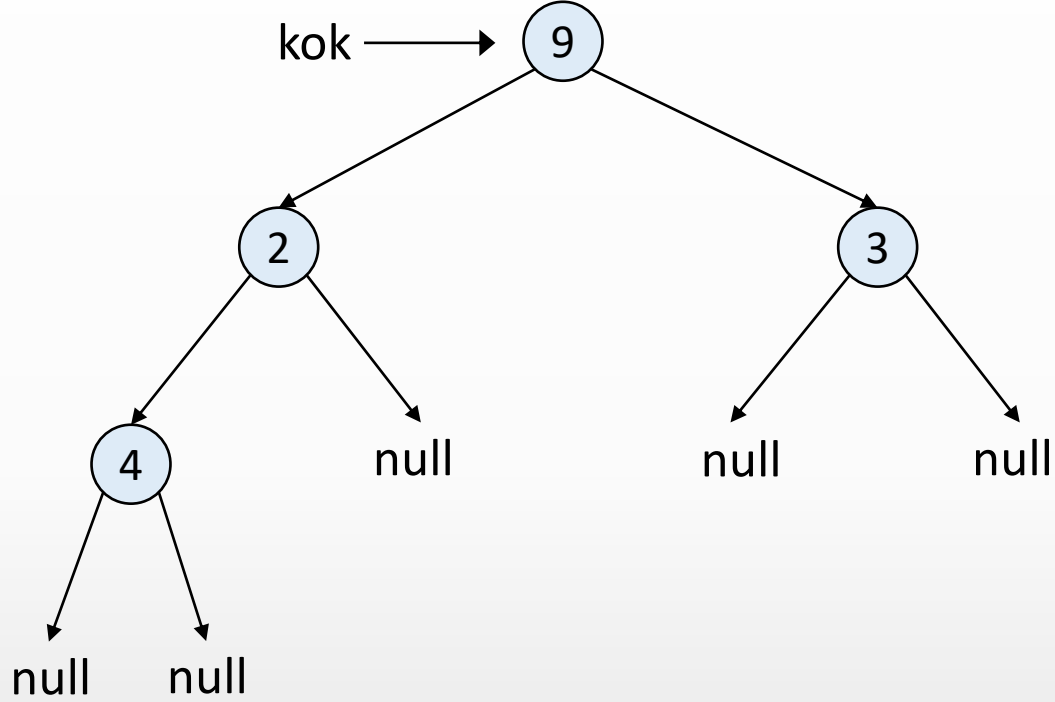
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Metot Çağırımı	Satır Numarası	Kök
kokBasta()	7	9



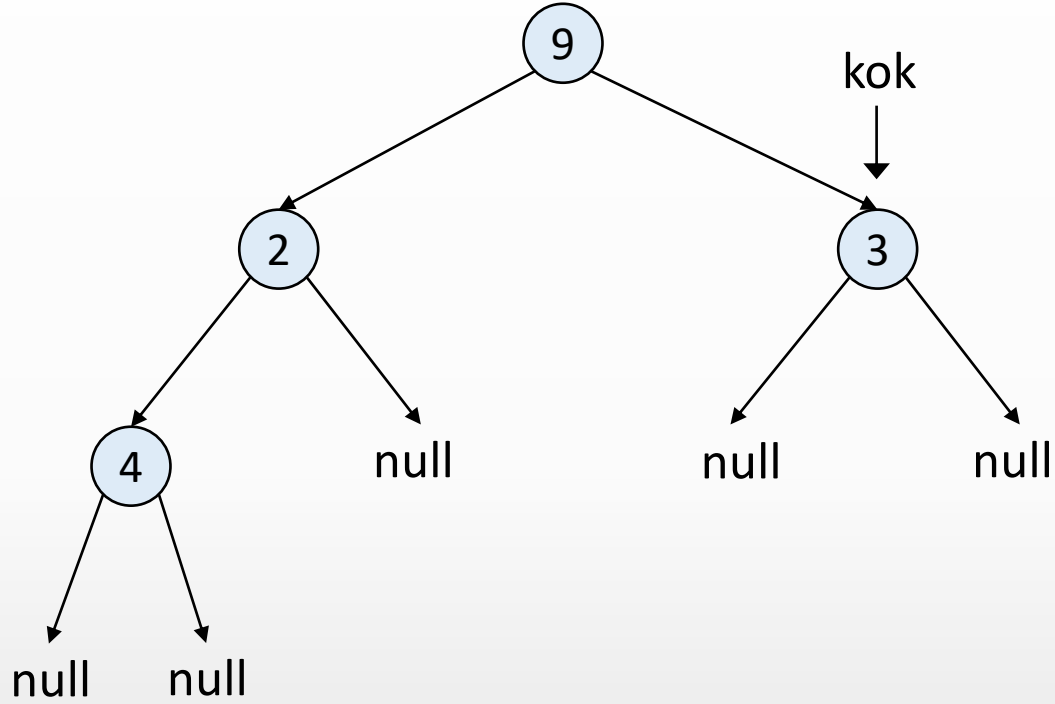
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()		3



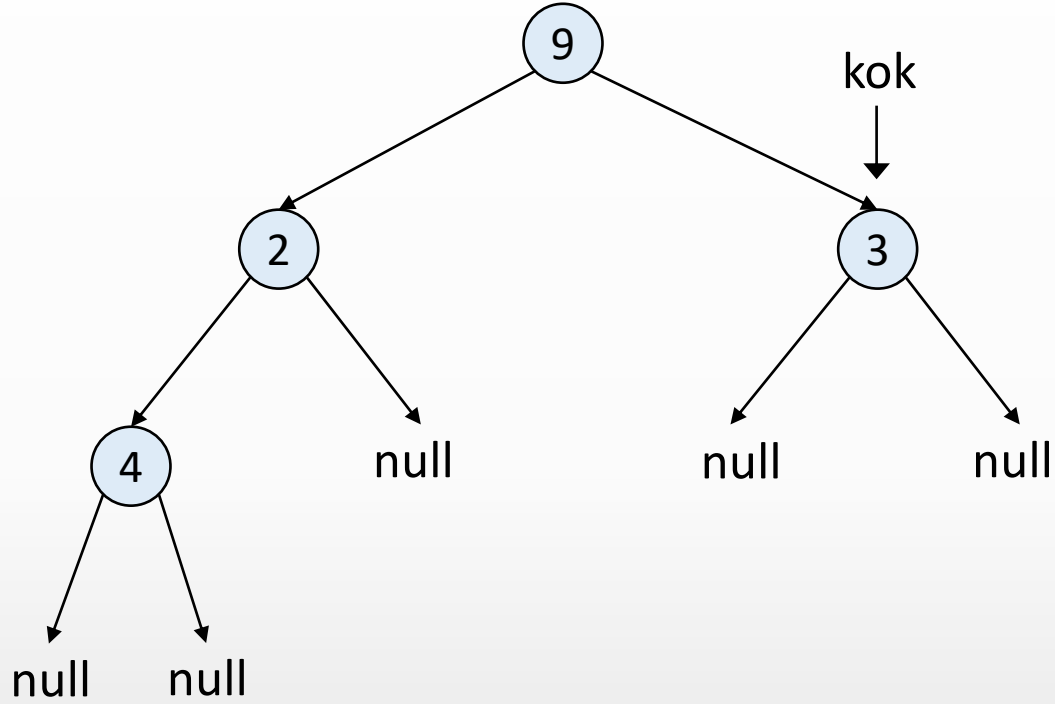
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Çıktı: 9 2 4

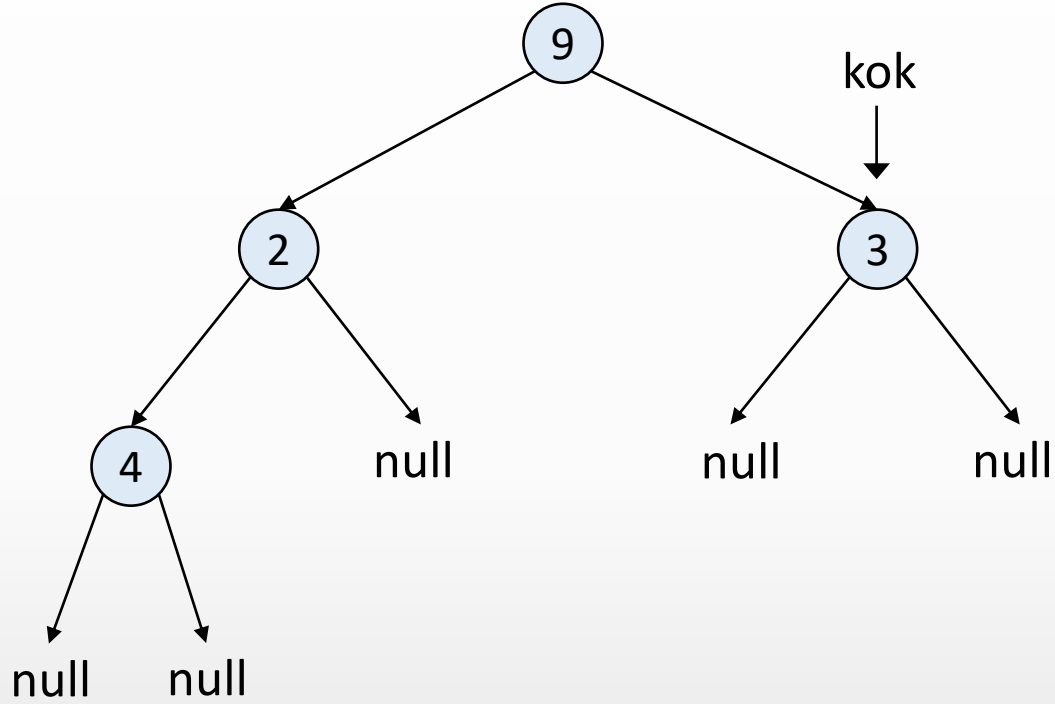


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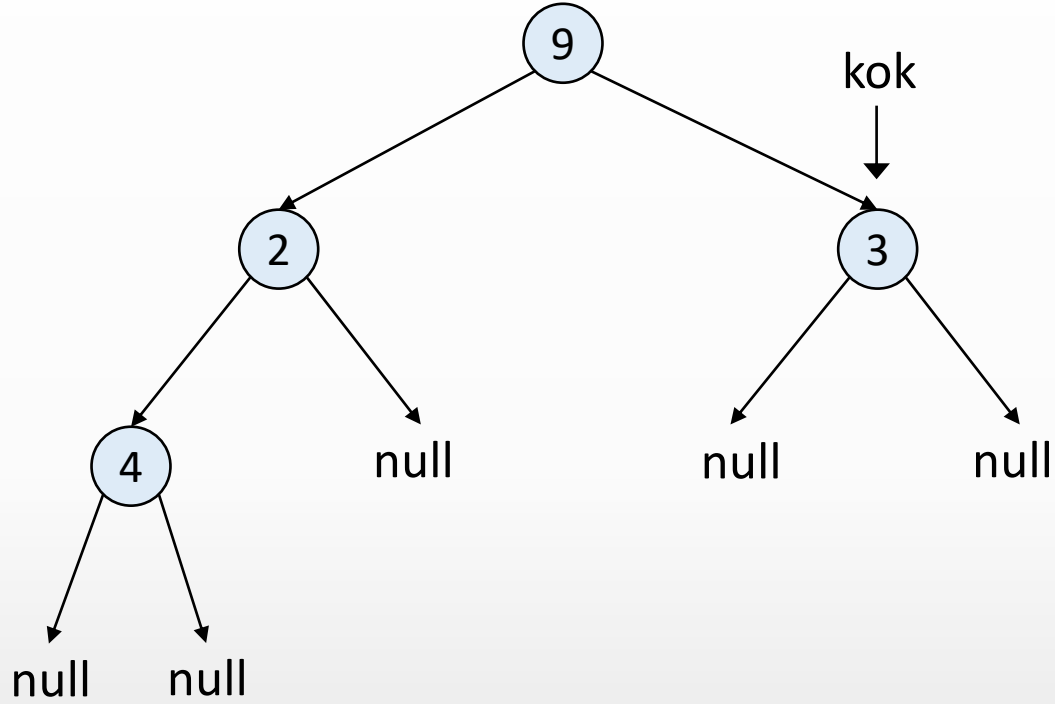
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kokBasta()	7	9
kokBasta()		3



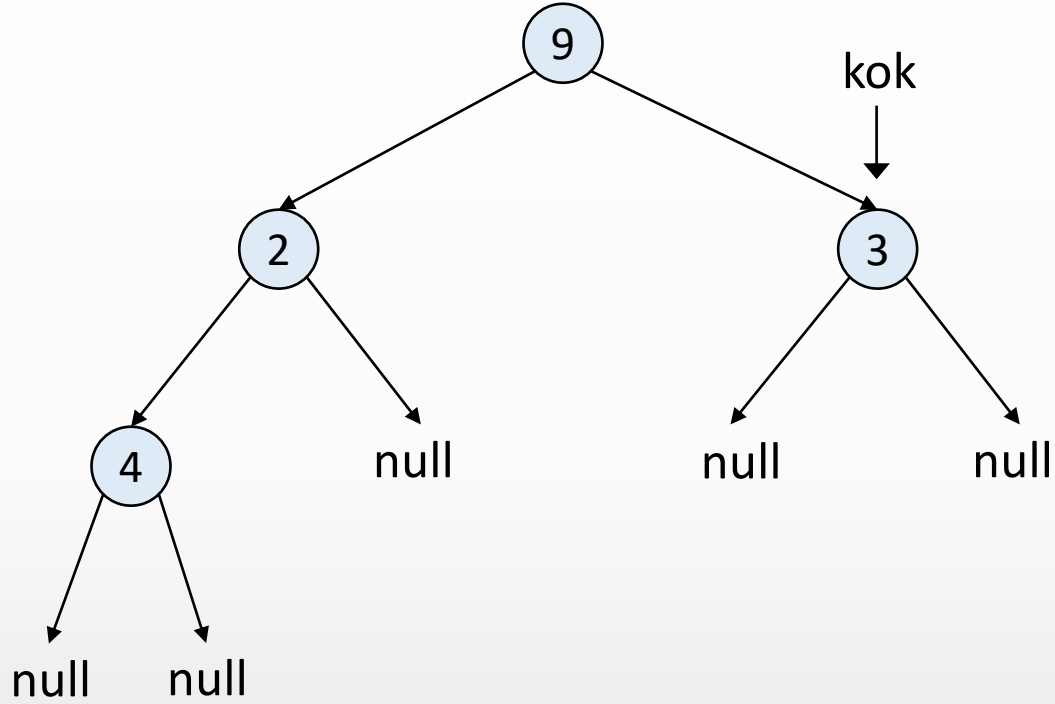
Çıktı: 9 2 4 3

```
1 public void kokBasta(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     System.out.print(kok.veri + " ");
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8 }
```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()		3



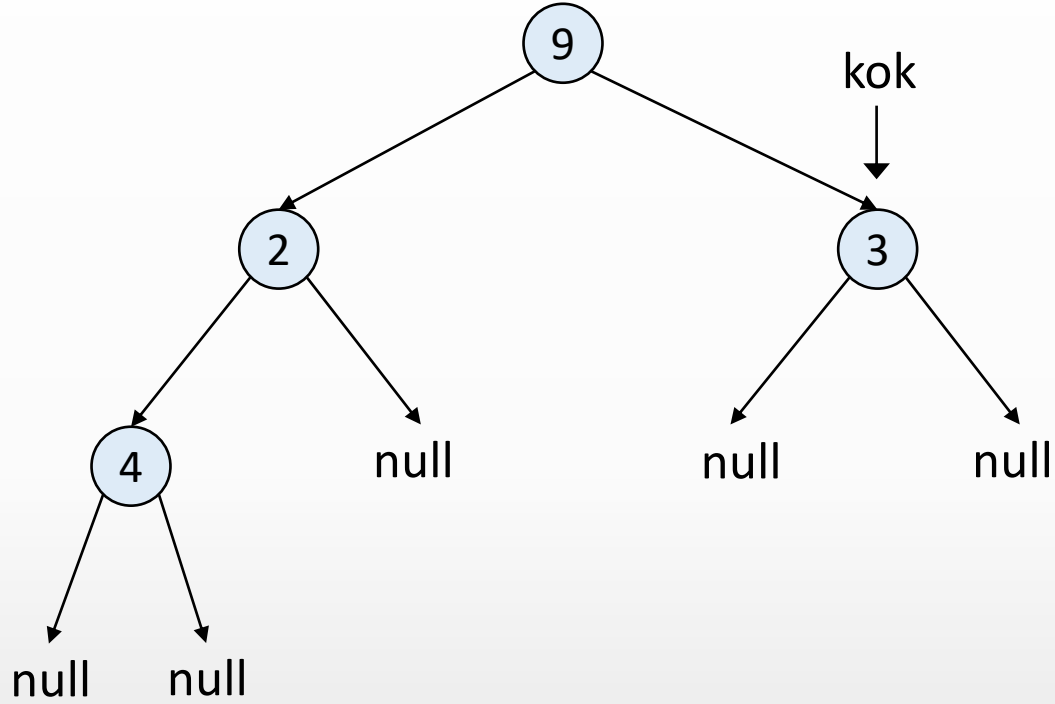
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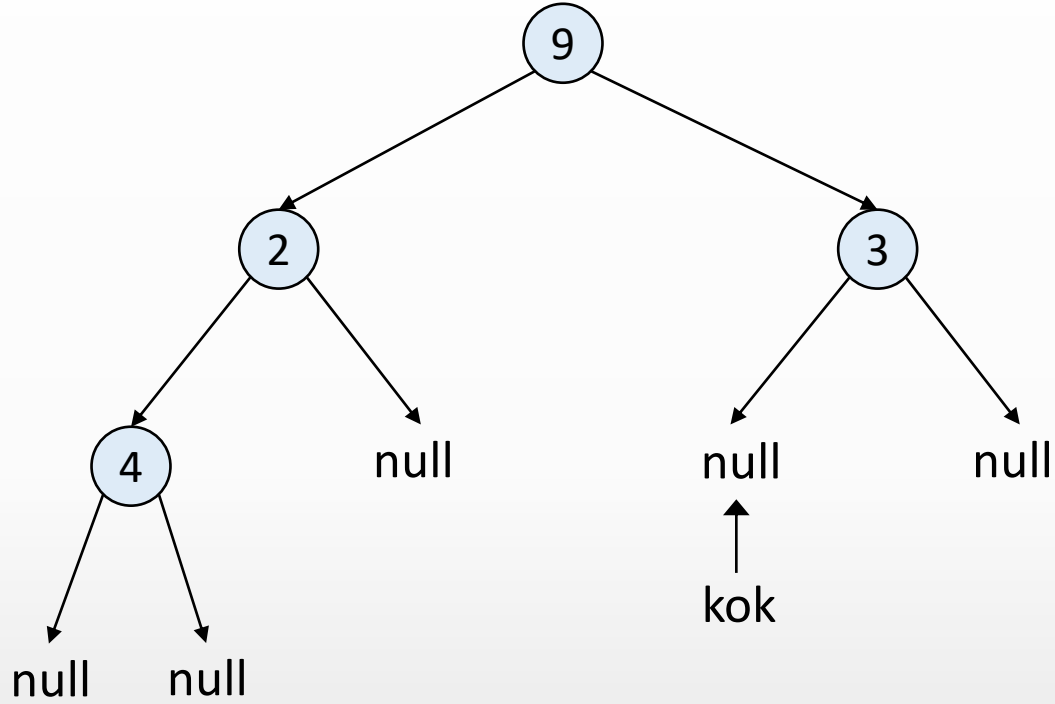
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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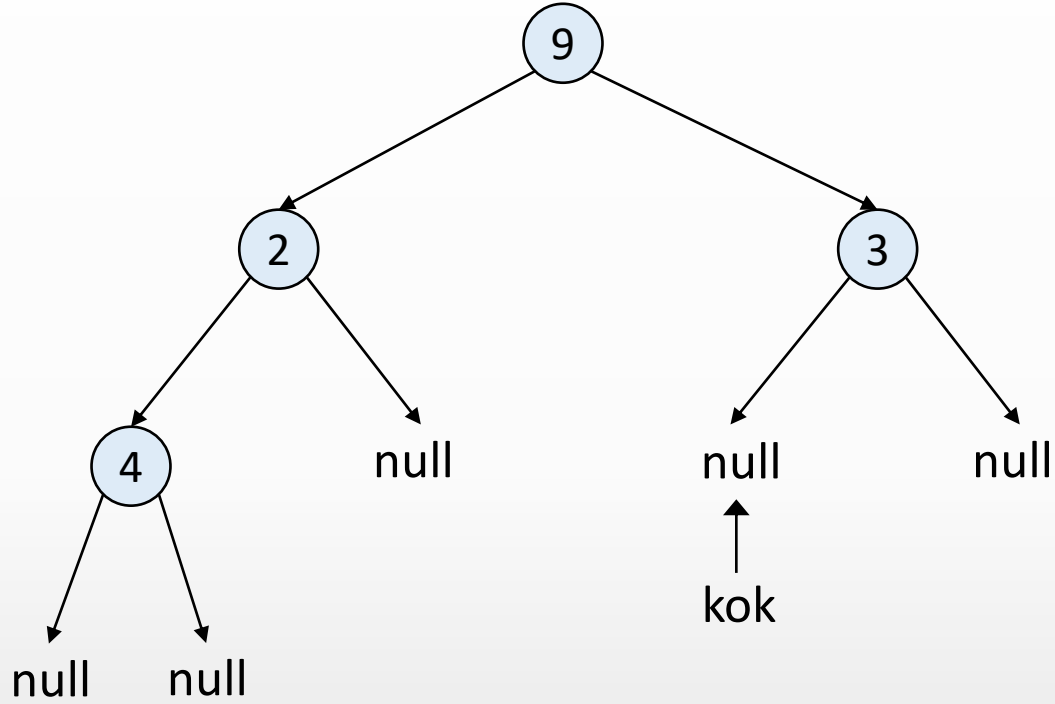
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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Çıktı: 9 2 4 3

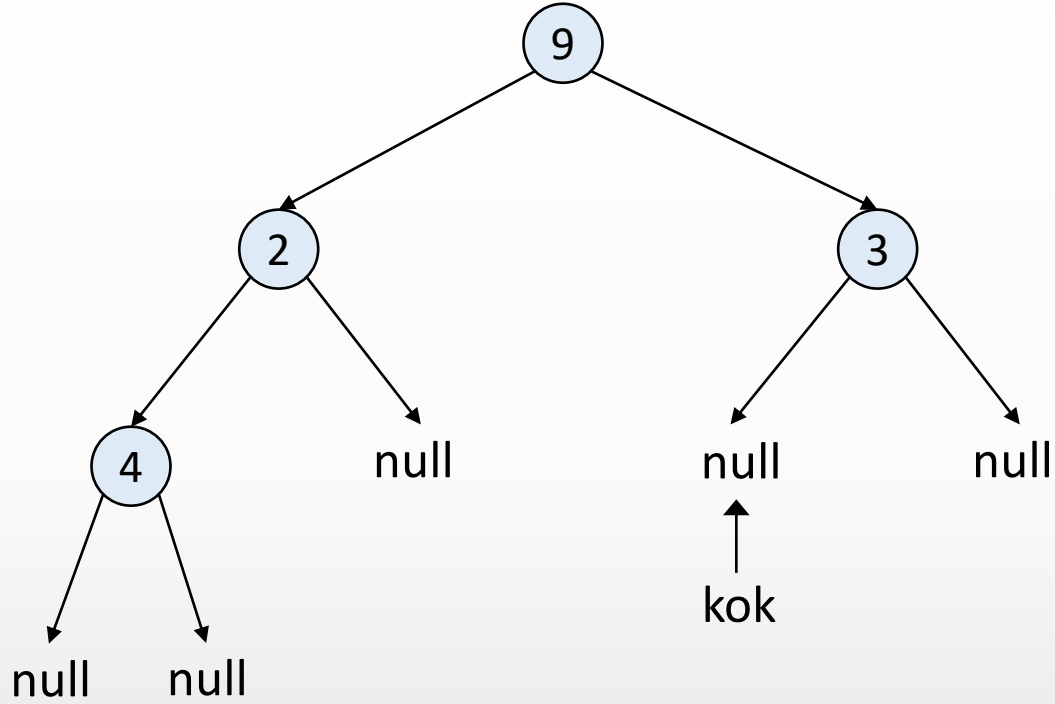


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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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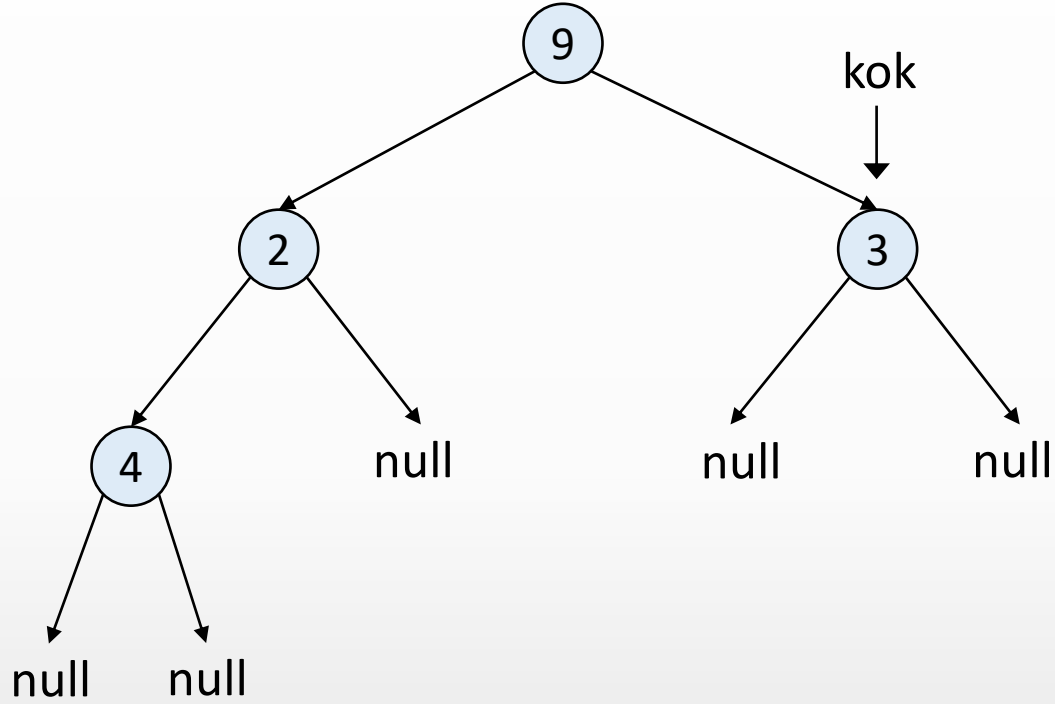
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Çağırma Yığıtı (Call Stack)

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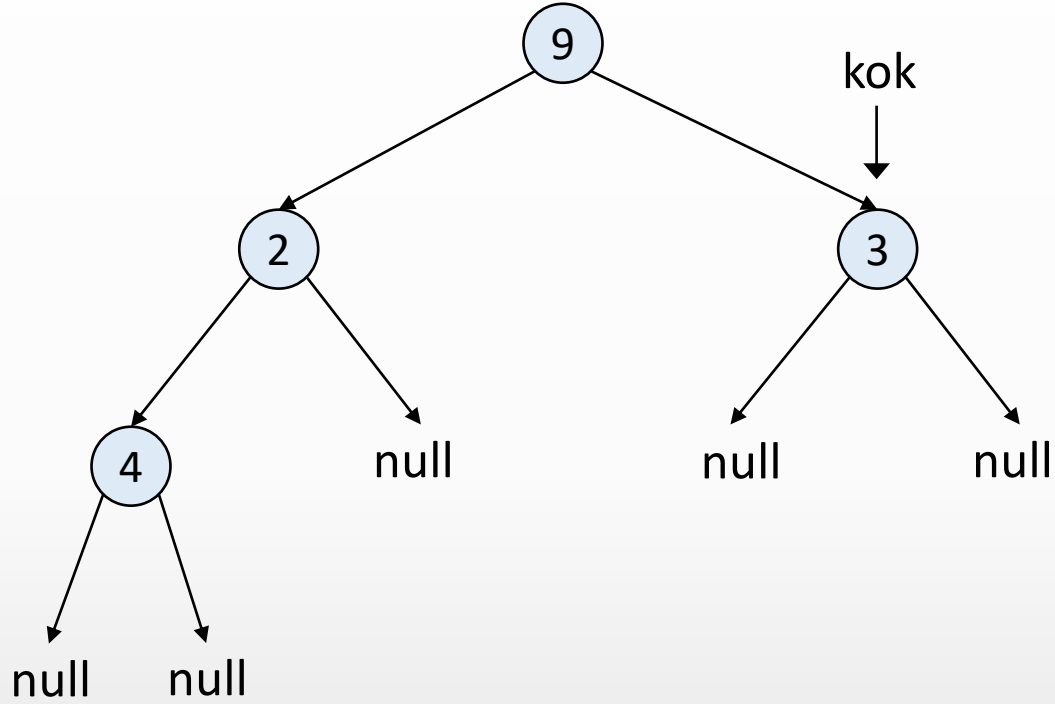
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Çağırma Yığıtı (Call Stack)

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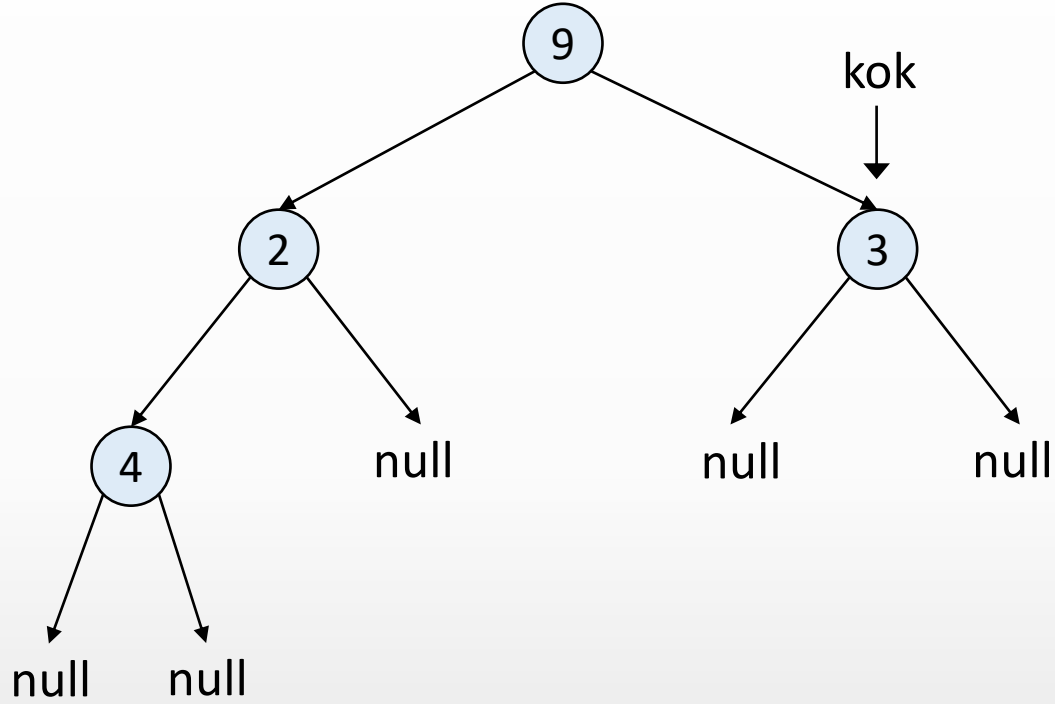
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Çağırma Yiğiti (Call Stack)

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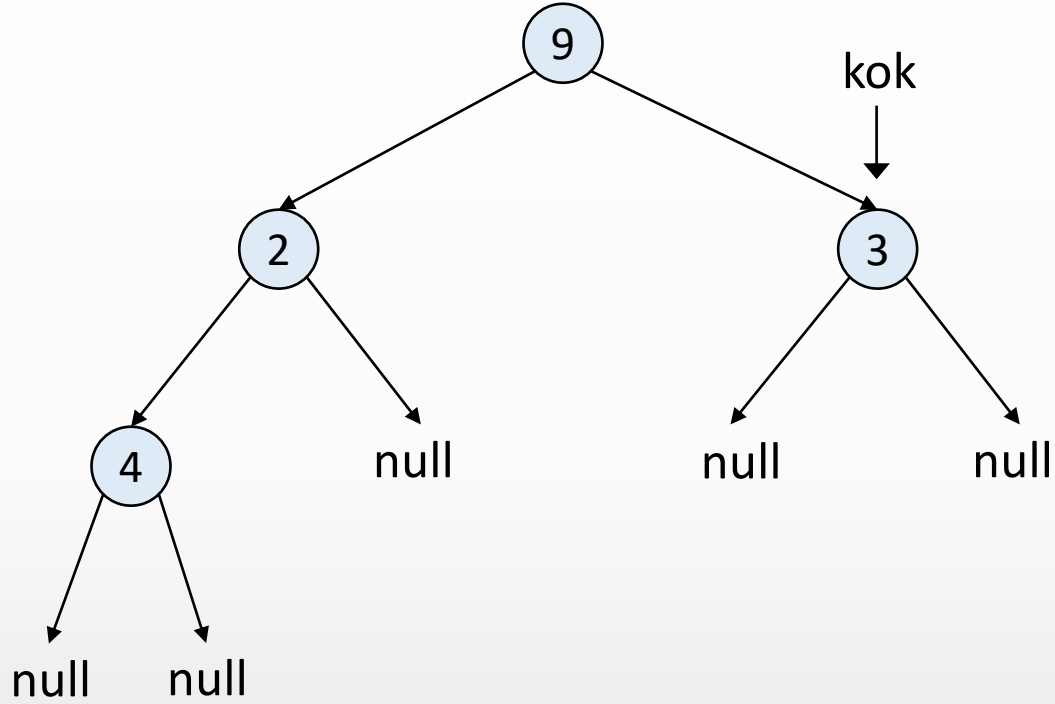
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	7	3



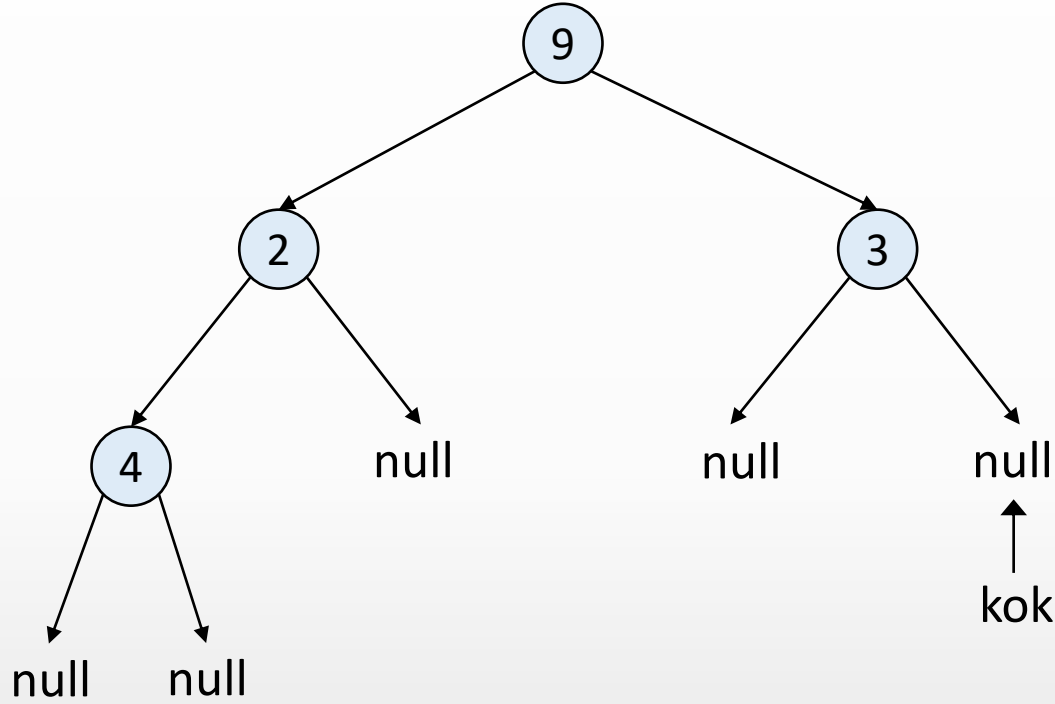
Çıktı: 9 2 4 3

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2     if(kok == null) {
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4     }
5     System.out.print(kok.veri + " ");
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8 }
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Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	7	3
kokBasta()		null



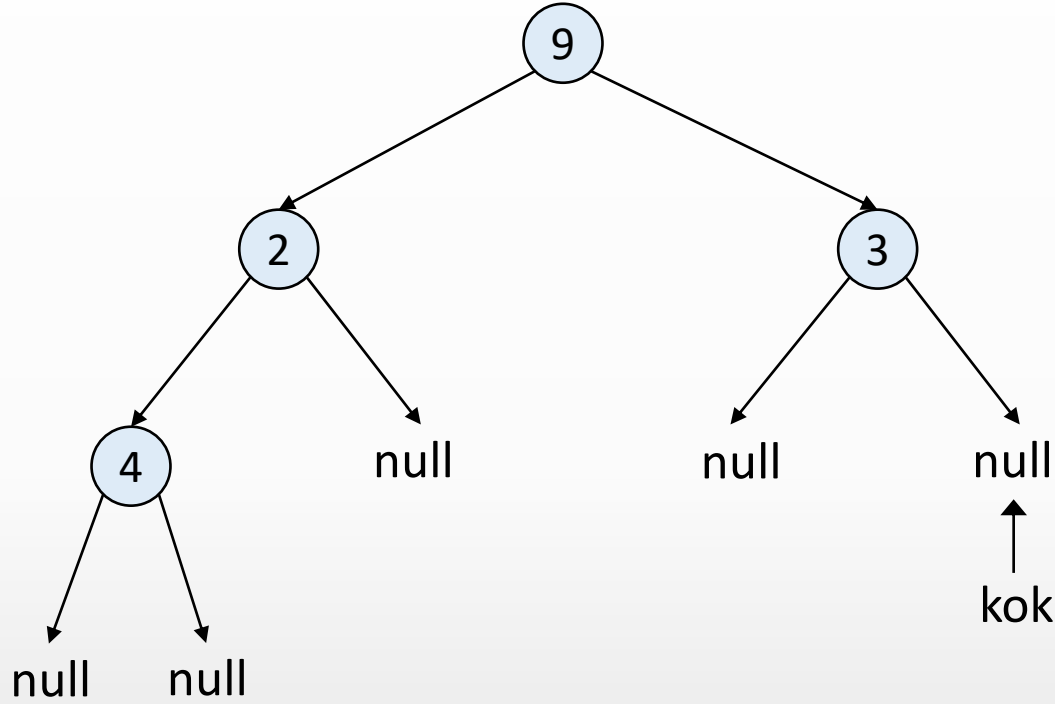
Çıktı: 9 2 4 3

```
1 public void kokBasta(AgacDugumu kok) {
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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kokBasta()	7	3
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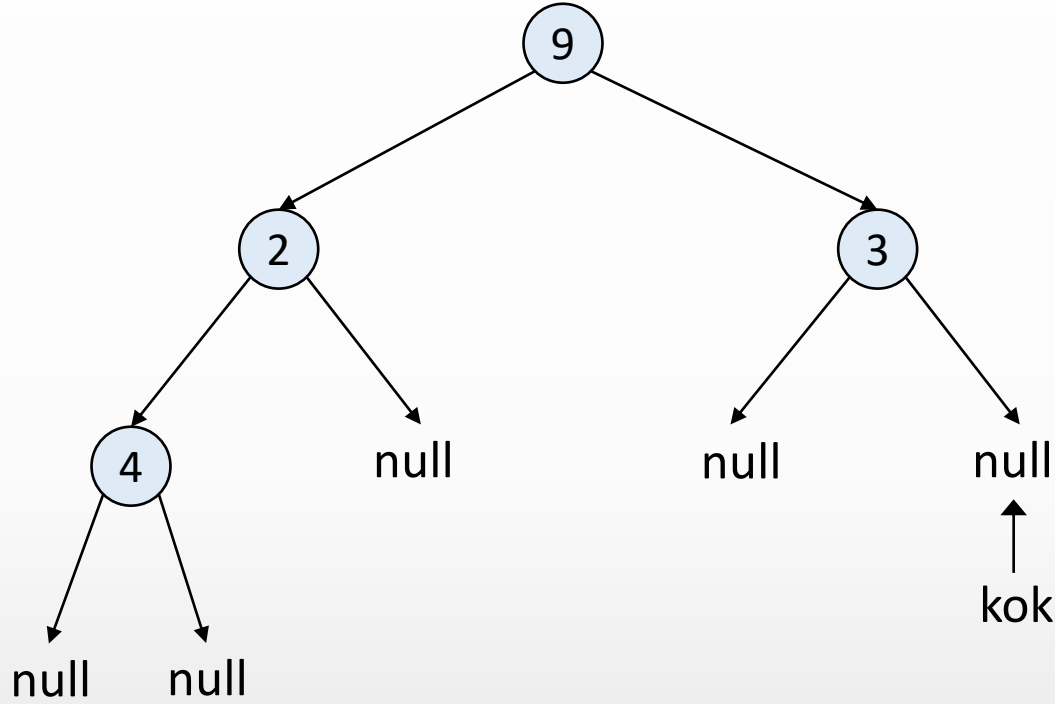
Çıktı: 9 2 4 3

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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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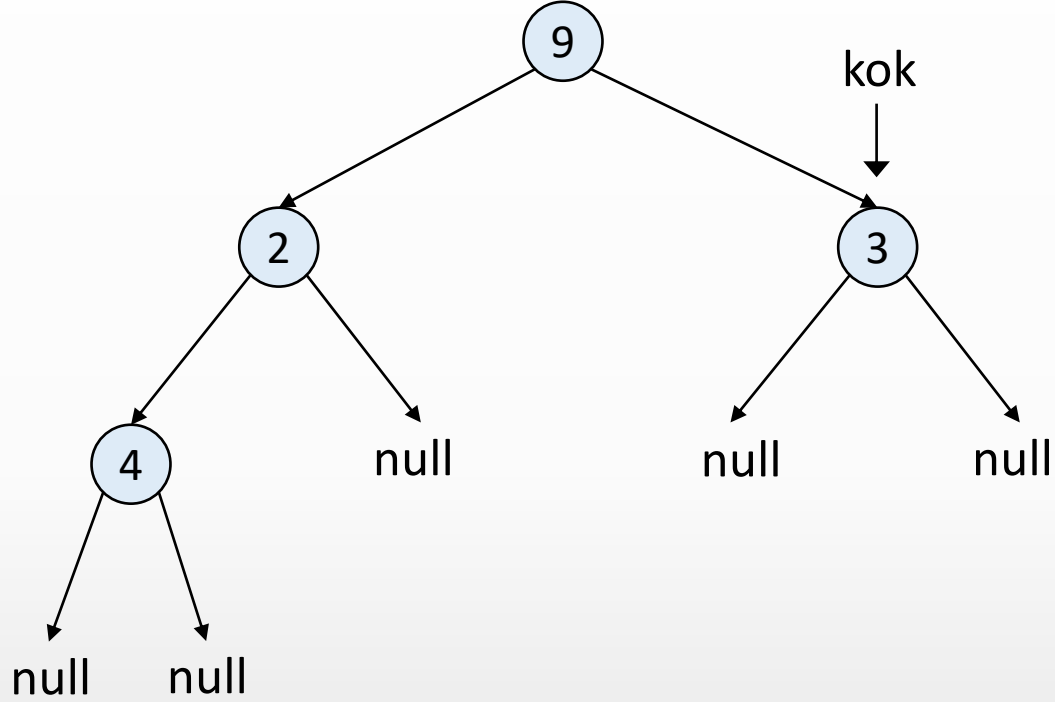
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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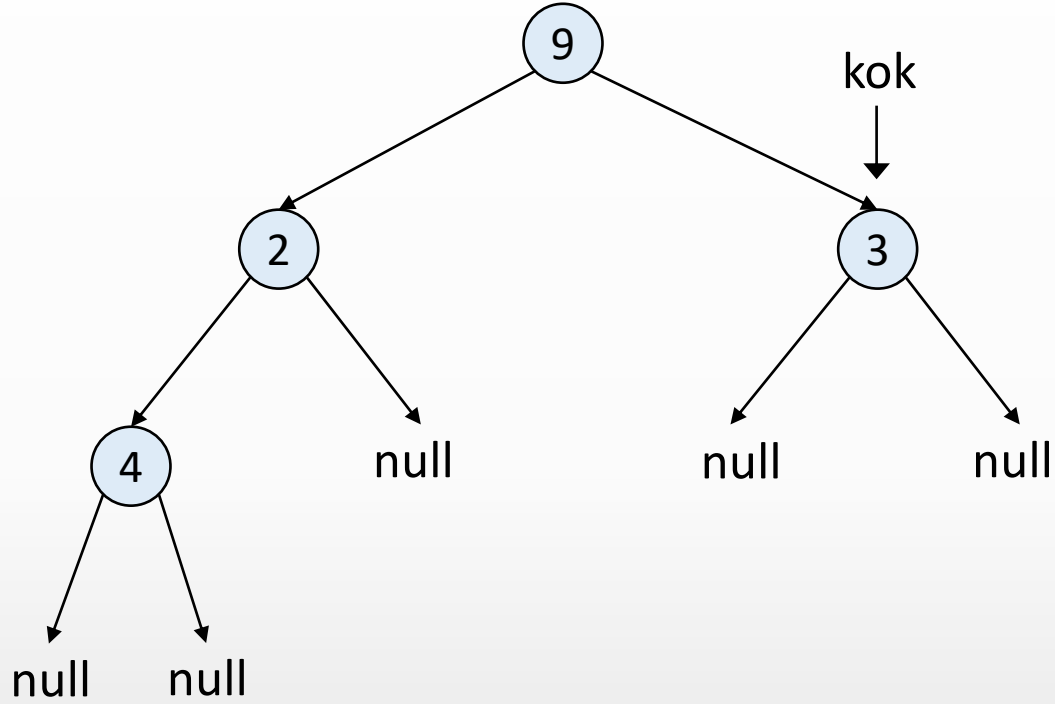
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokBasta()	7	9
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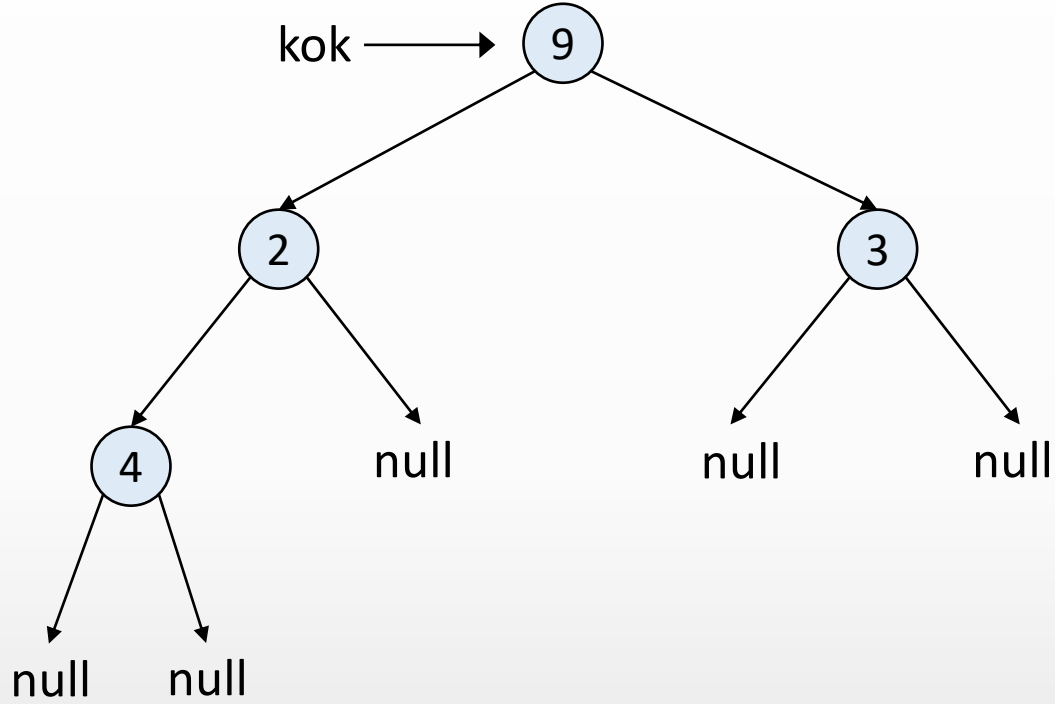
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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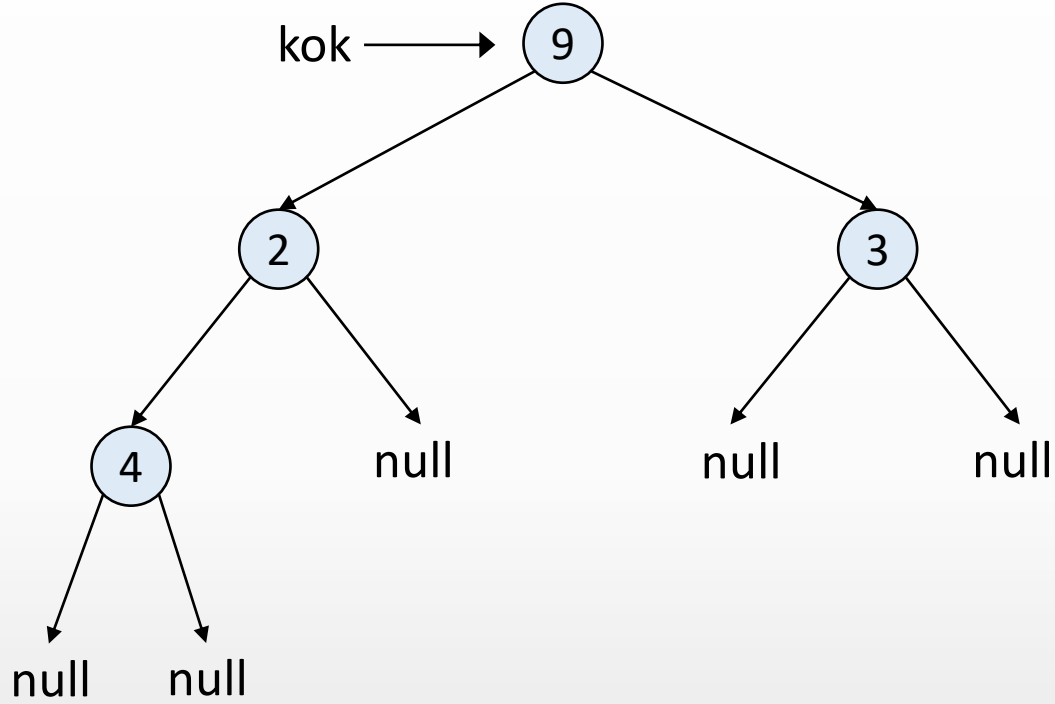
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Çağırma Yığıtı (Call Stack)

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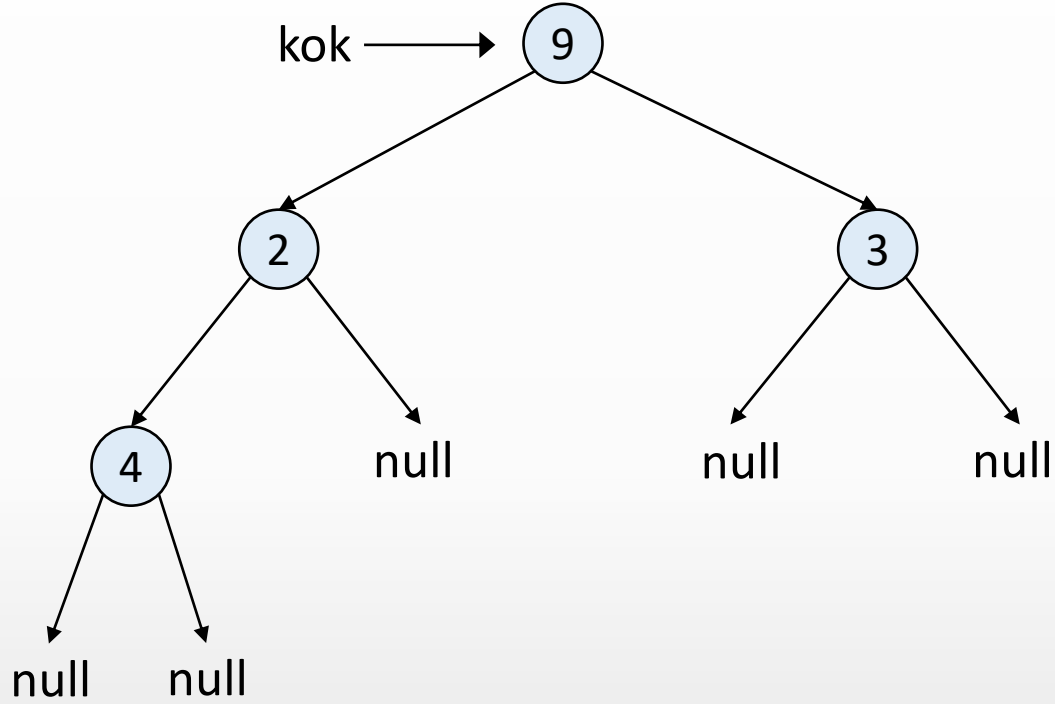


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```



Çağırma Yiğiti (Call Stack)



Çıktı: 9 2 4 3

Metot Çağırımı

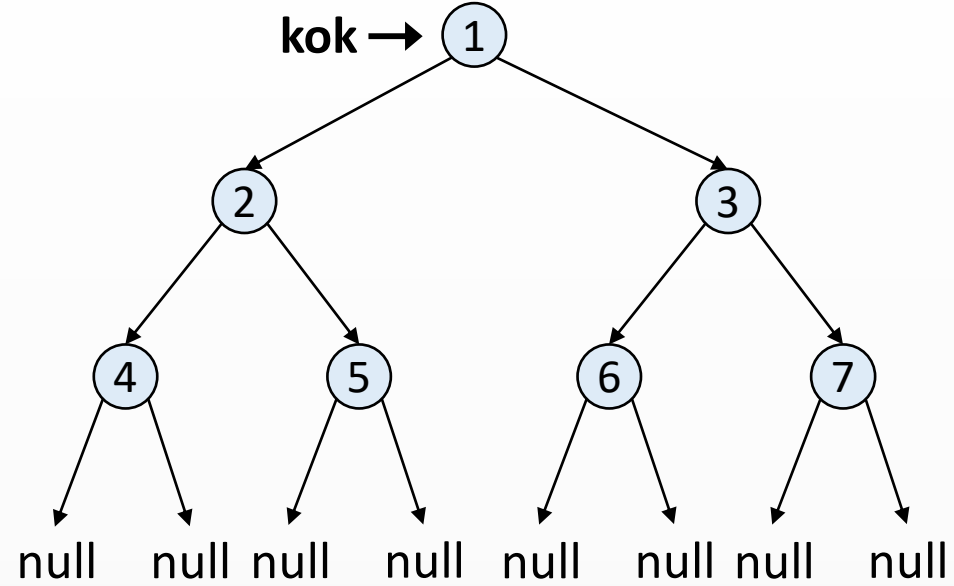
Satır Numarası

Kök

```
1 public void kokBasta(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     System.out.print(kok.veri + " ");
6     kokBasta(kok.sol);
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8 }
```

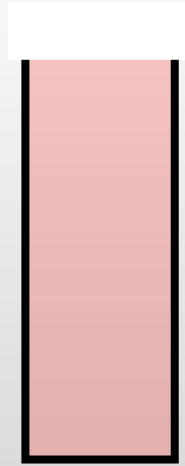
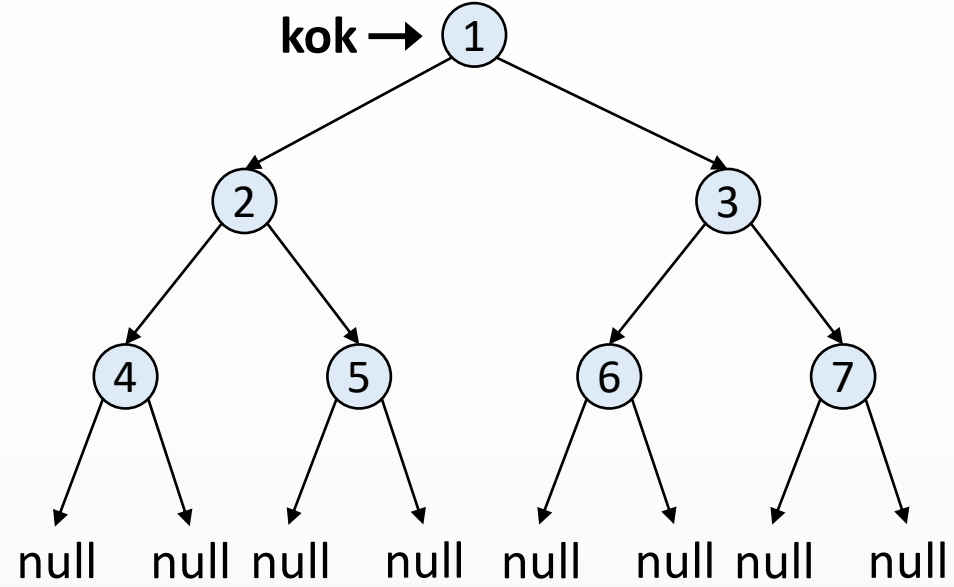


Yığın ile Kök Başıta (Preorder) Dolaşımı



Çıktı:

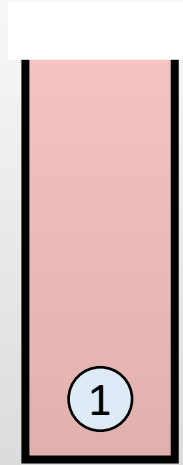
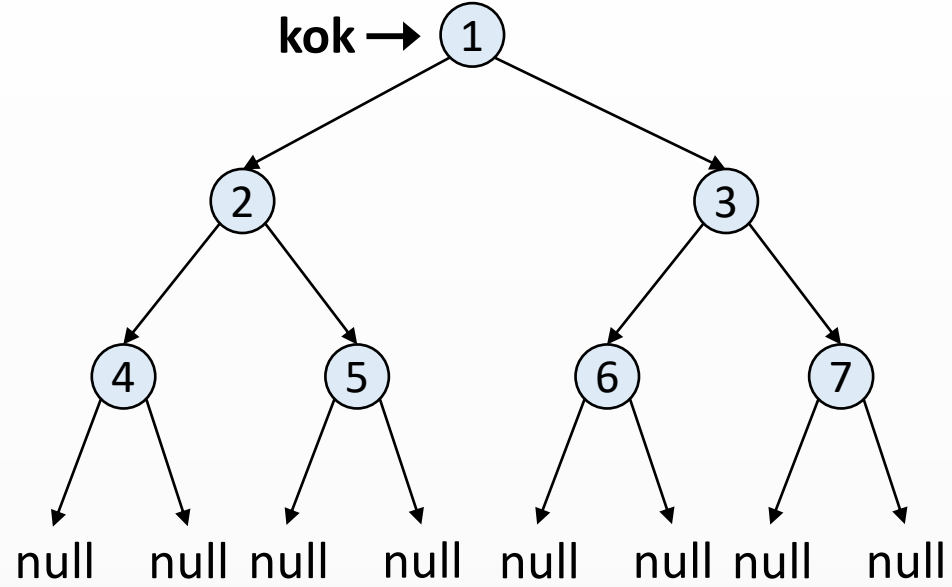
```
→ if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```

Yığıt

Çıktı:

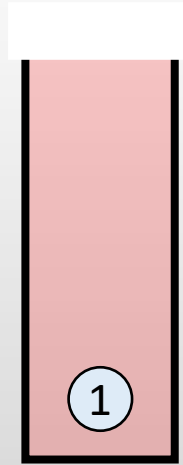
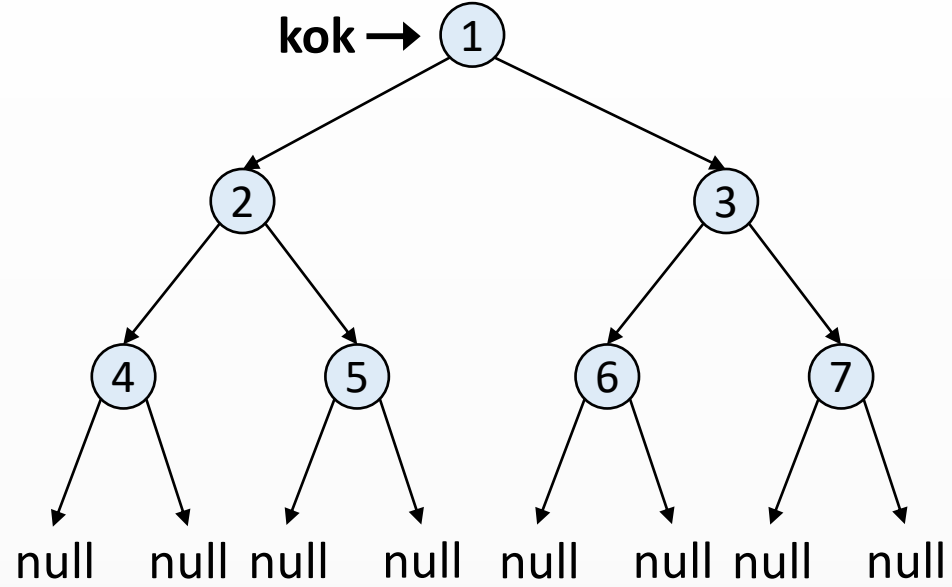
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    }  
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}
```



Yığıt

Çıktı:

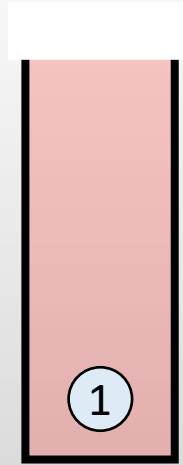
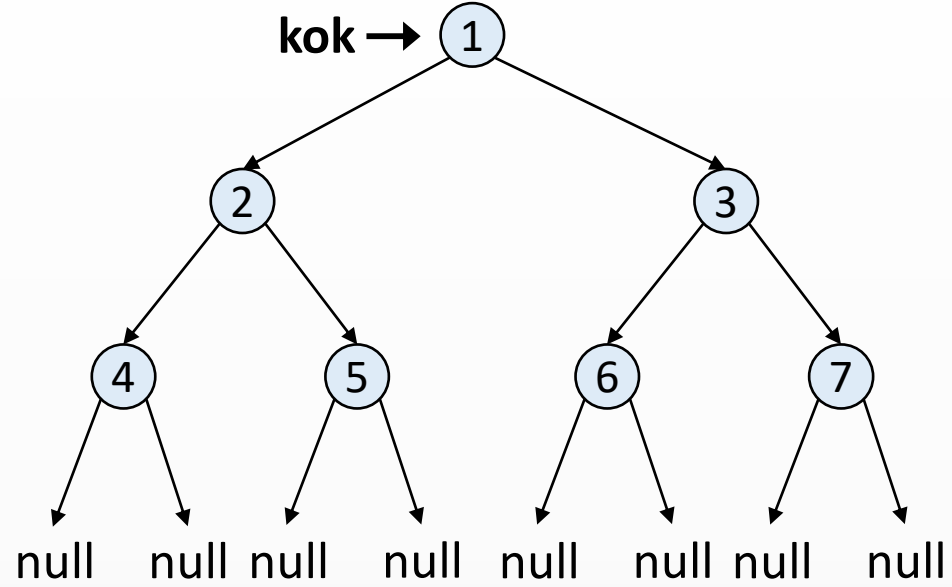
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    }  
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```



Yığıt

Çıktı:

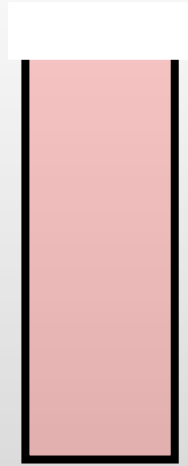
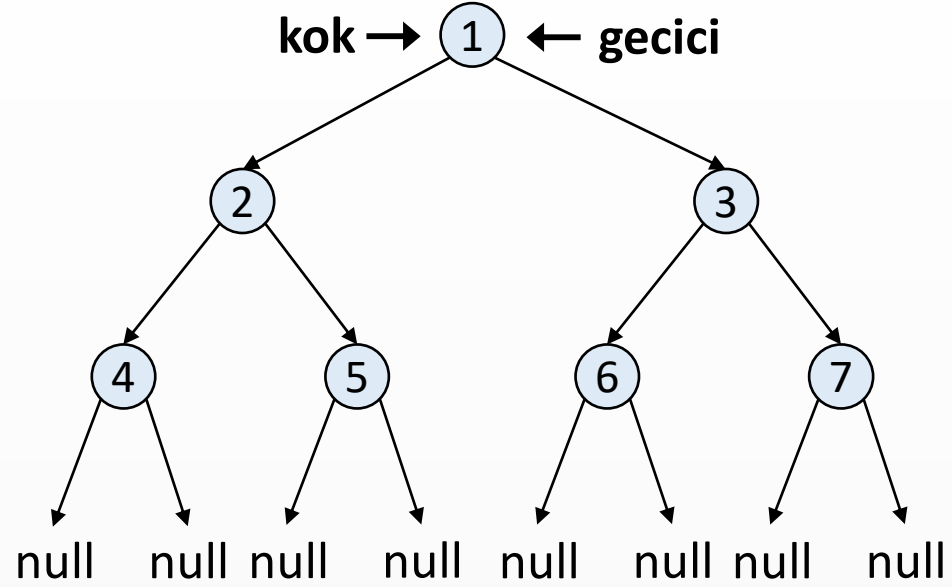
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Yığıt

Çıktı:

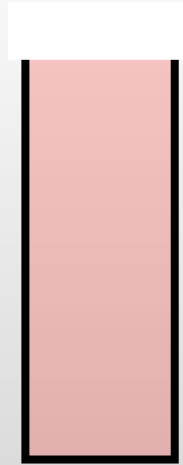
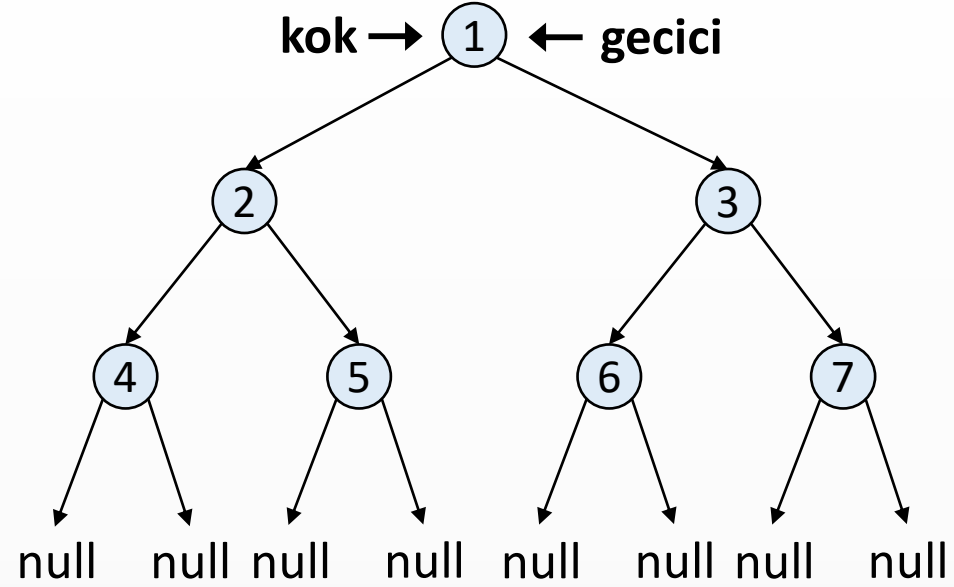
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Yığıt

Çıktı:

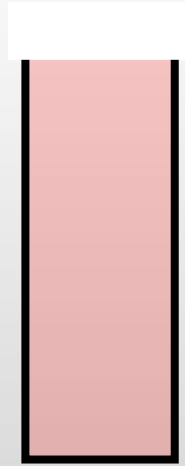
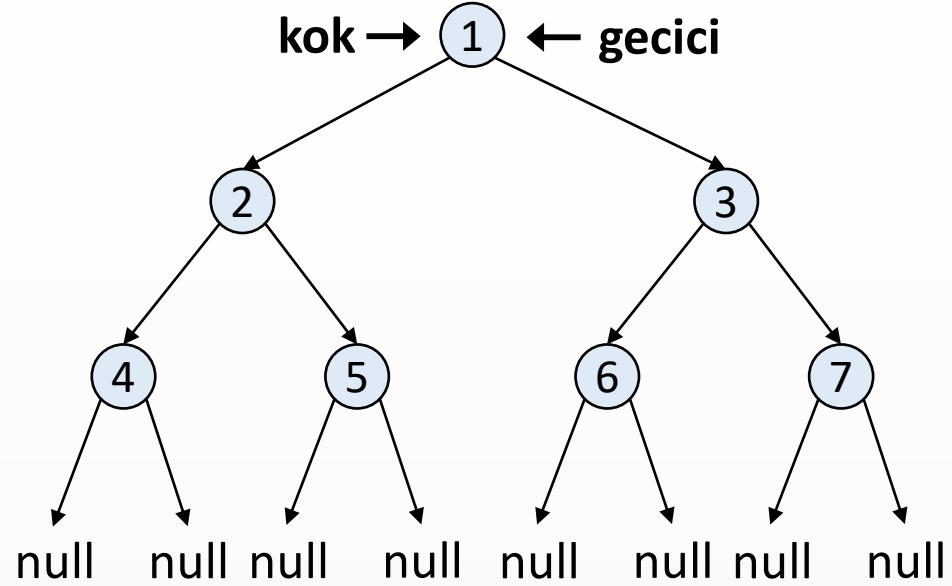
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```



Yığıt

Çıktı: 1

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if(kok == null) {  
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    if(gecici.sag != null) {  
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    }  
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```

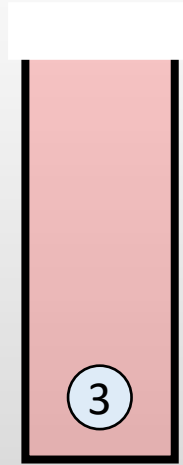
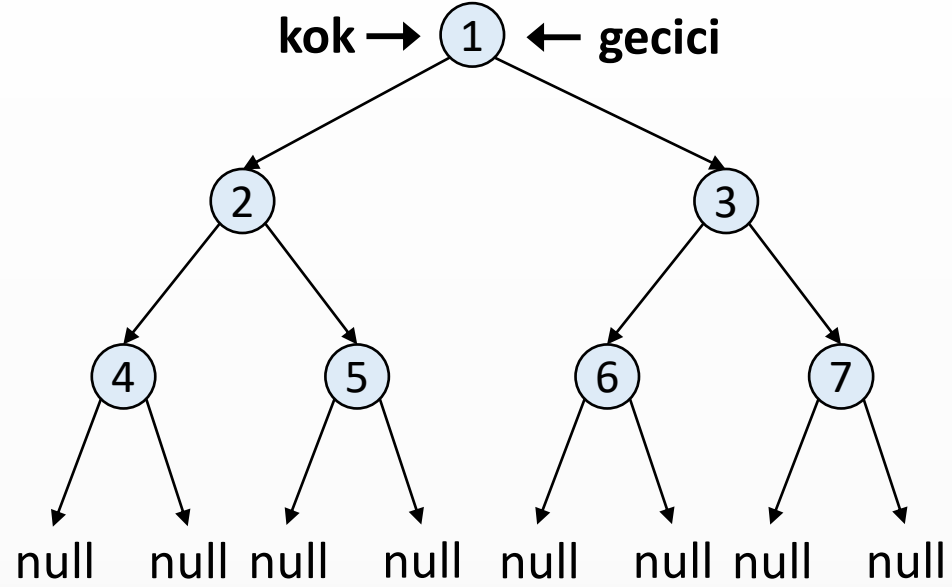


Yığıt

Çıktı: 1

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```

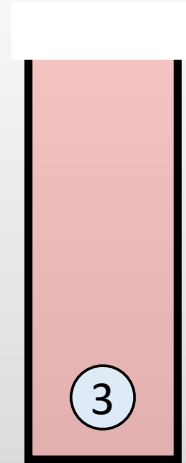
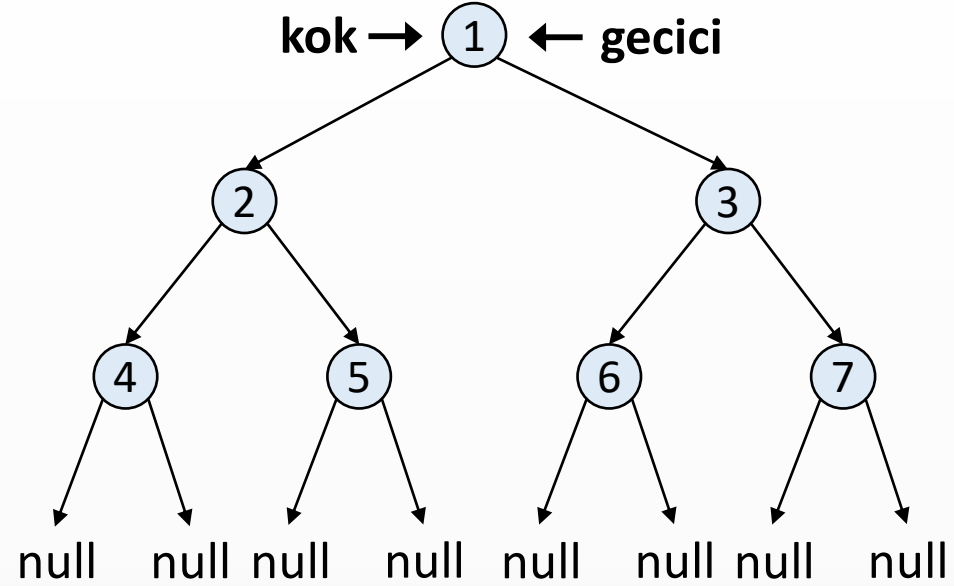




Yığıt

Çıktı: 1

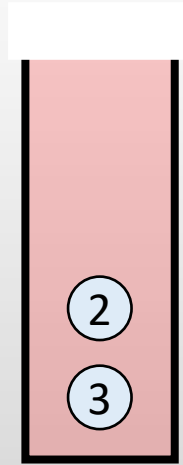
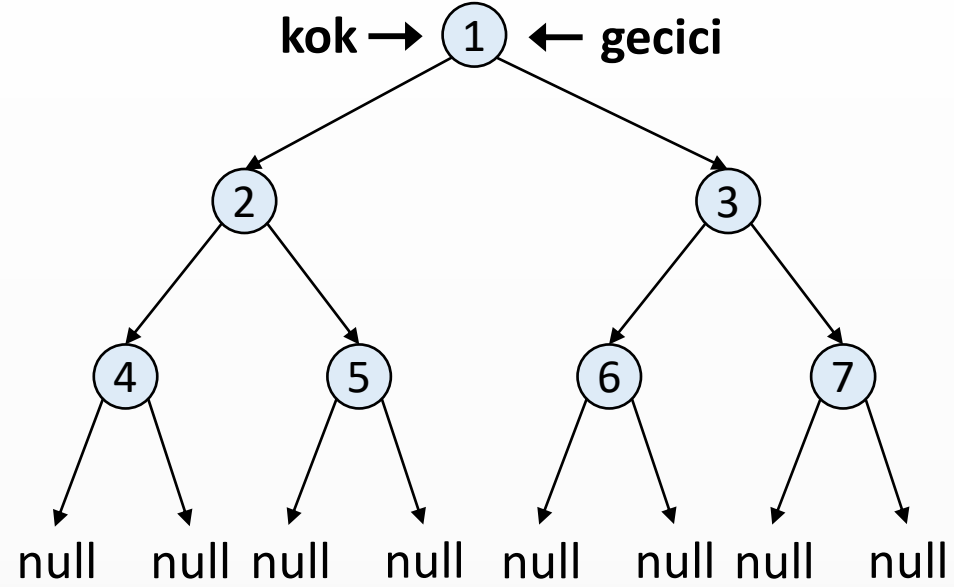
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        yigit.push(gecici.sol);
    }
}
```

Yığıt

Çıktı: 1

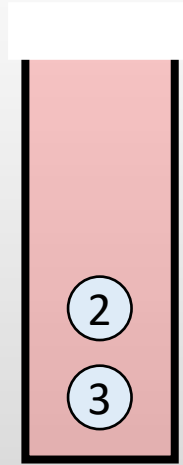
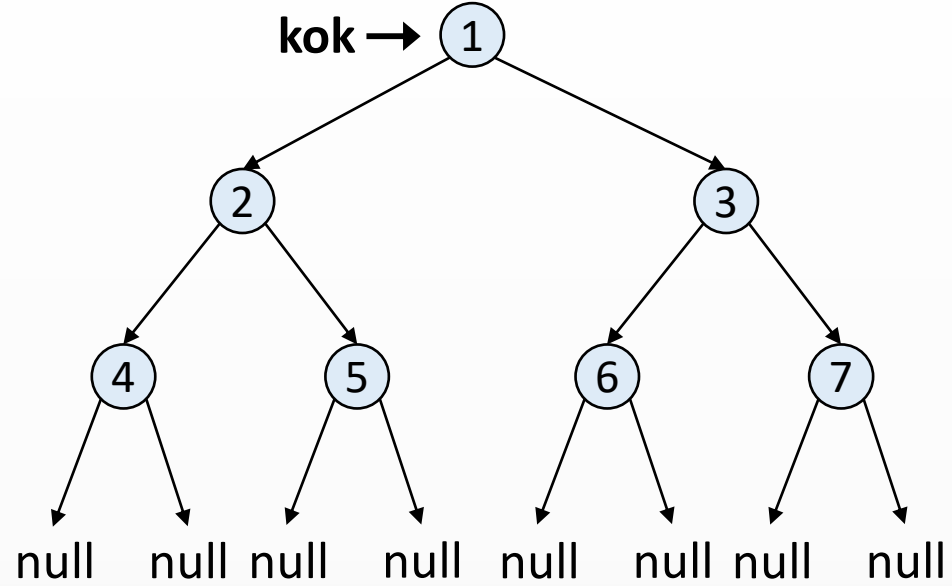
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    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1

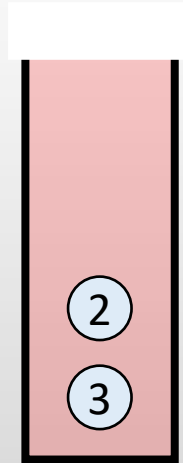
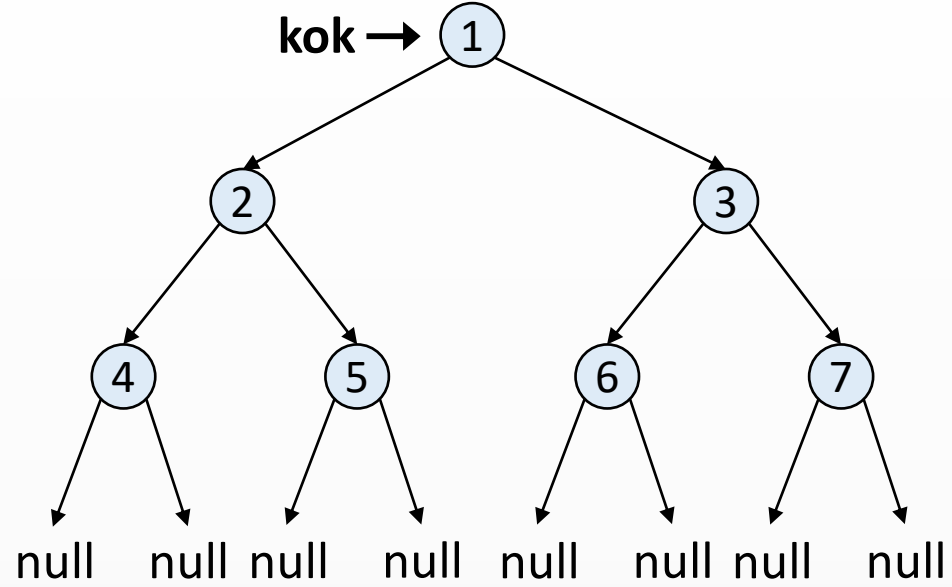
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1

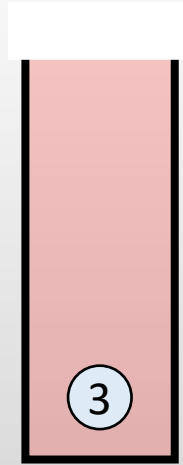
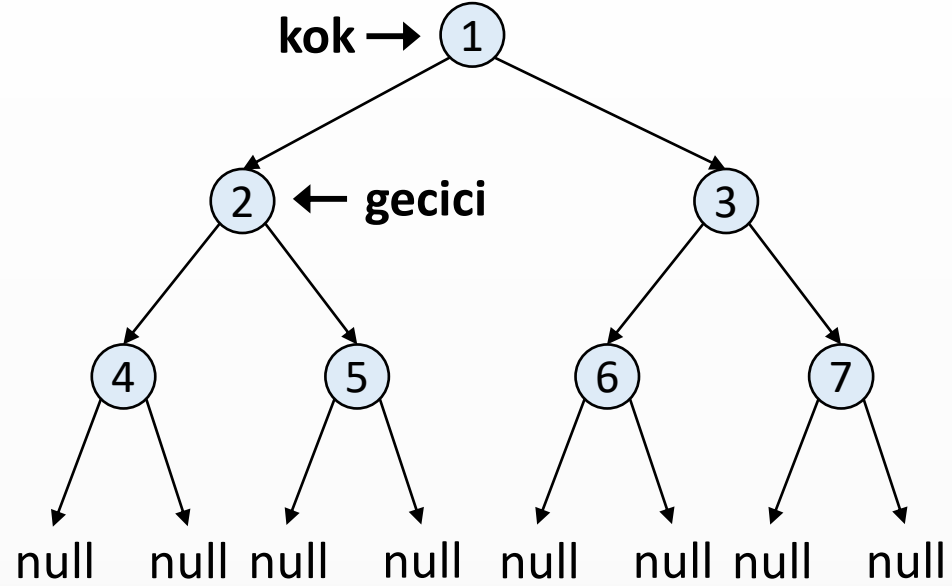
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1

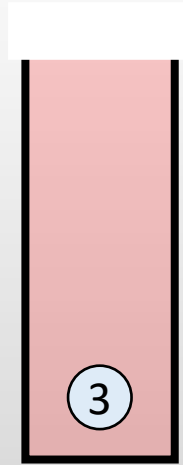
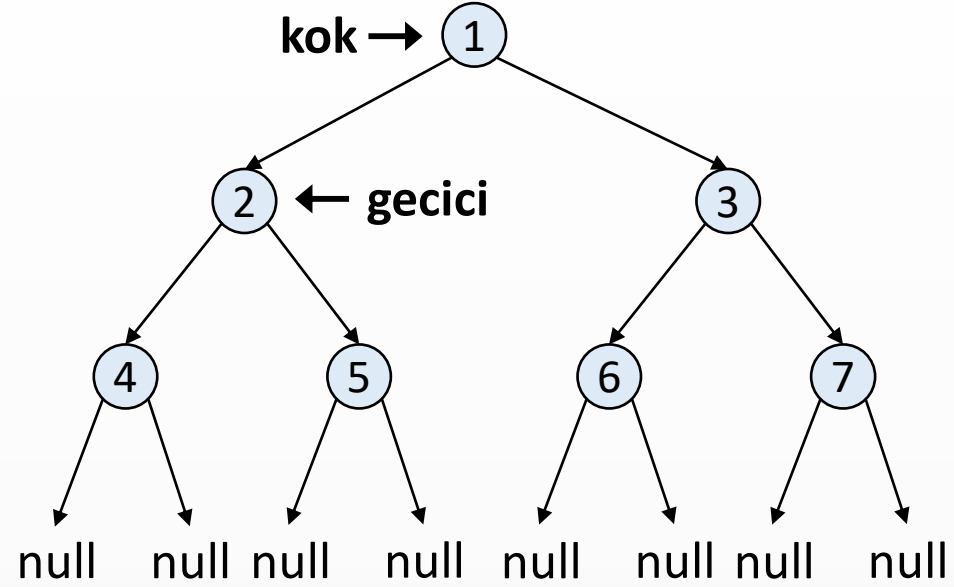
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1

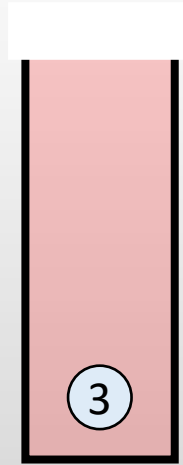
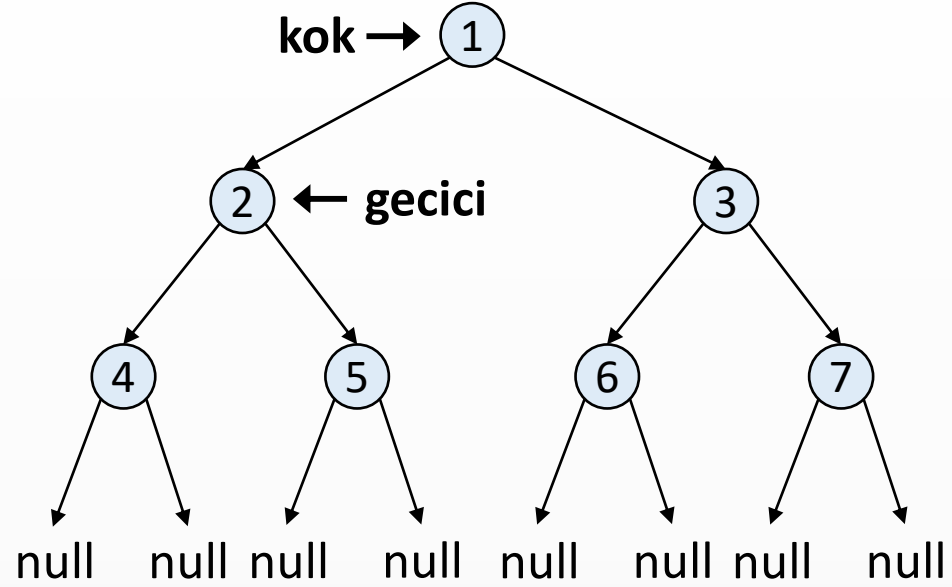
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1 2

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

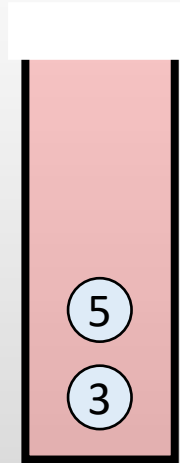
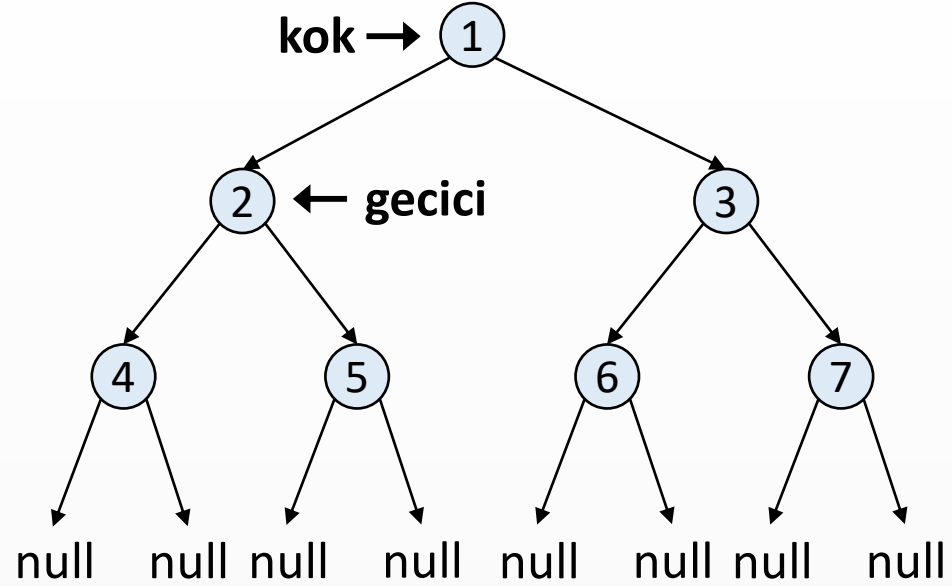


Yığıt

Çıktı: 1 2

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

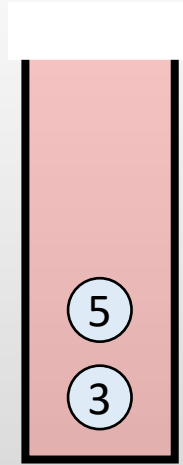
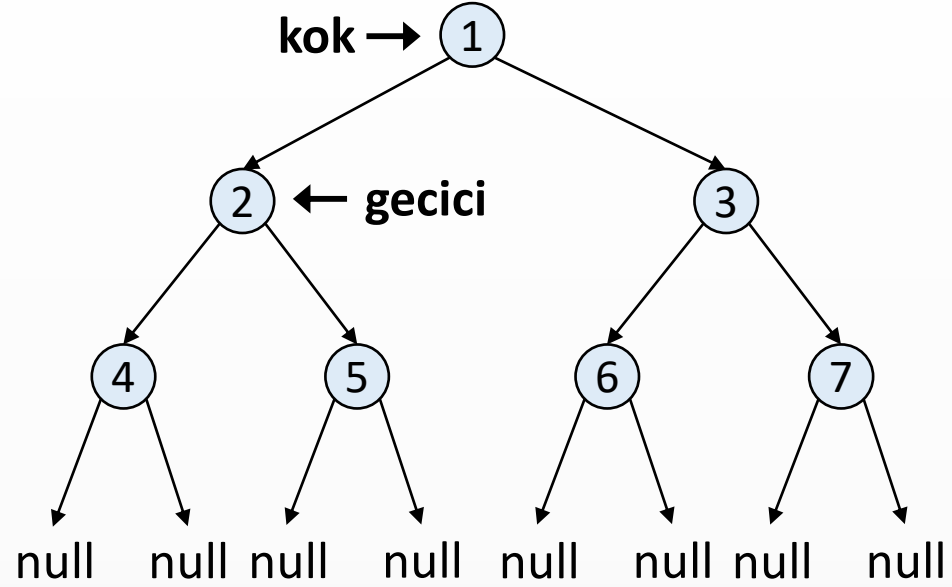




Yığıt

Çıktı: 1 2

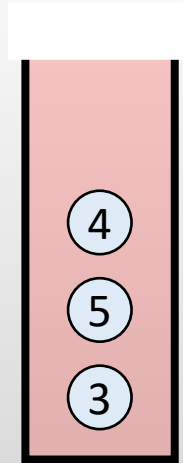
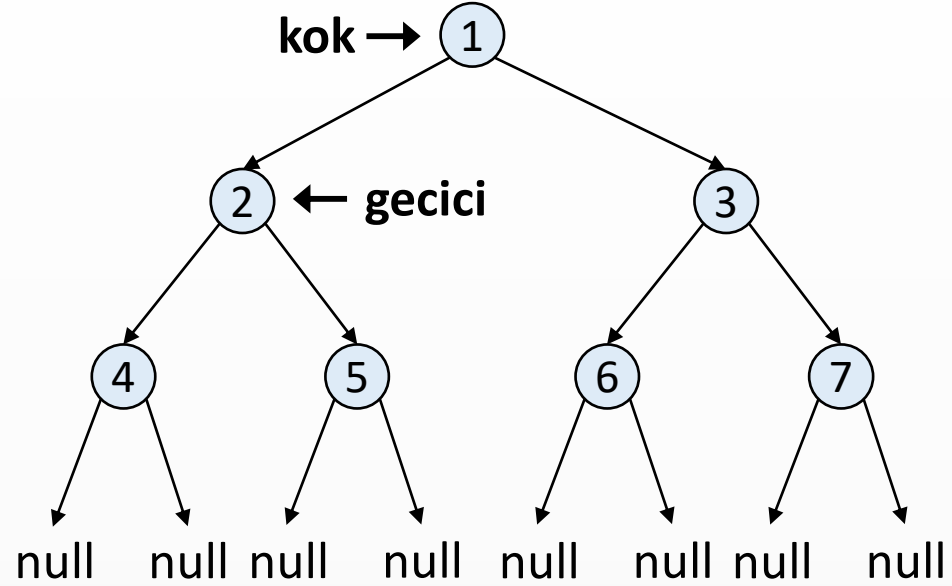
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

Yığıt

Çıktı: 1 2

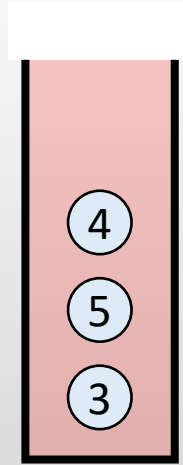
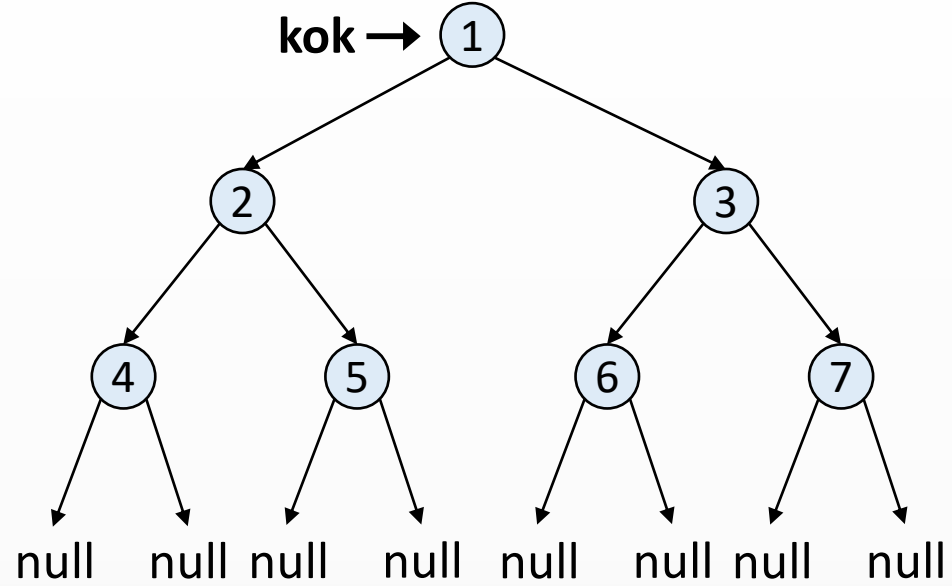
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1 2

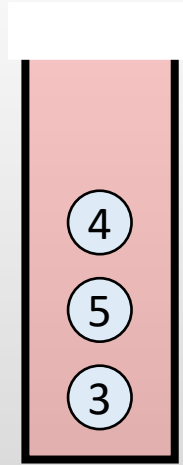
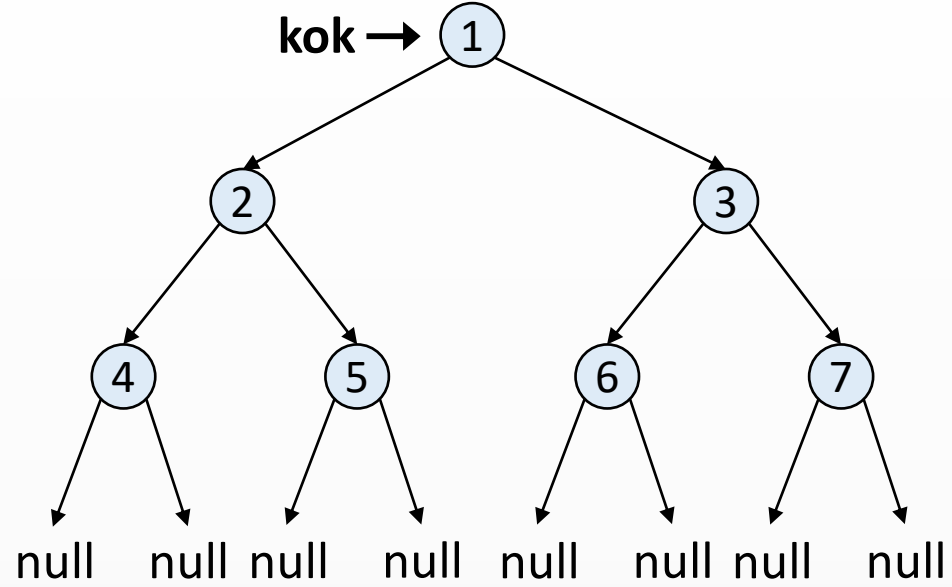
```
if(kok == null) {
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}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
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    AgacDugumu gecici = yigit.pop();
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    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1 2

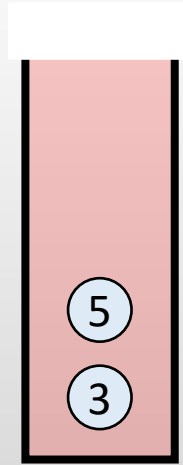
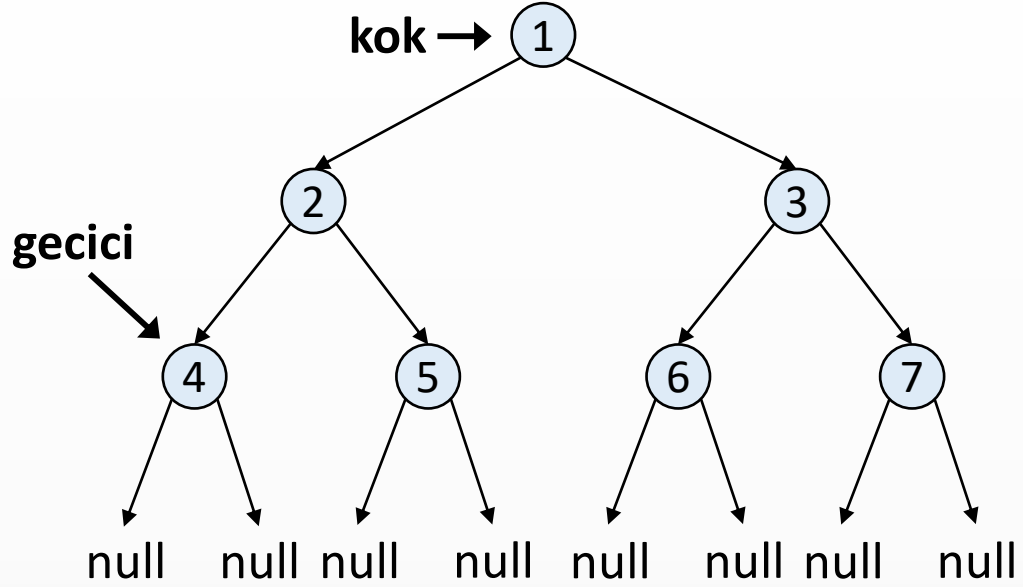
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
→ while(!yigit.isEmpty()) {
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    }
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        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1 2

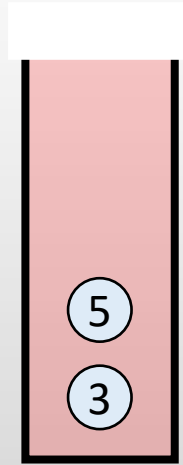
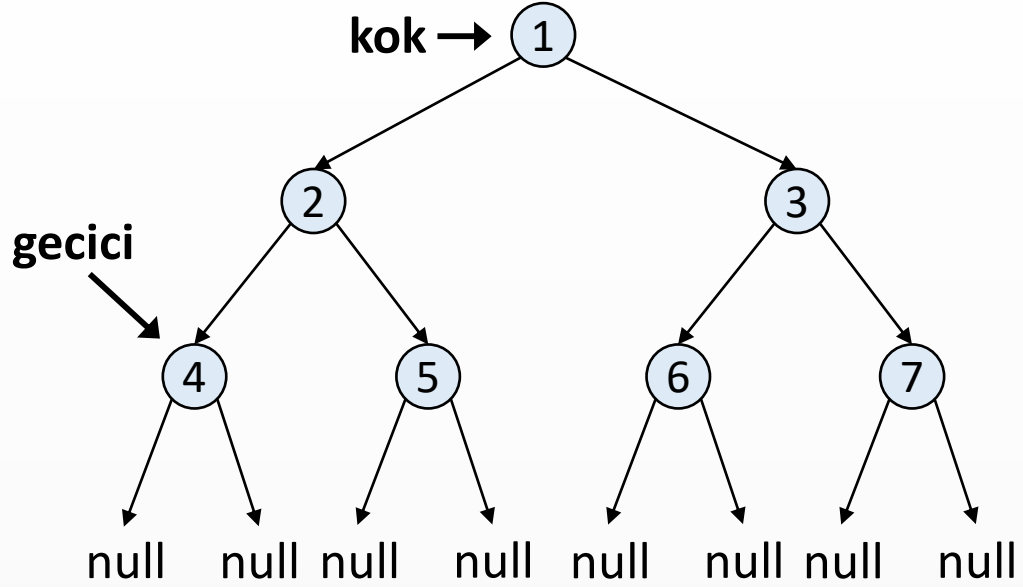
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
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        yigit.push(gecici.sol);  
    }  
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```



Yığıt

Çıktı: 1 2

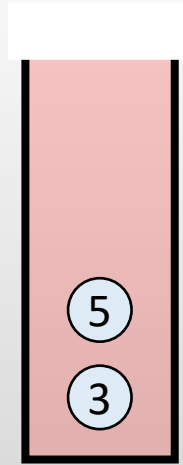
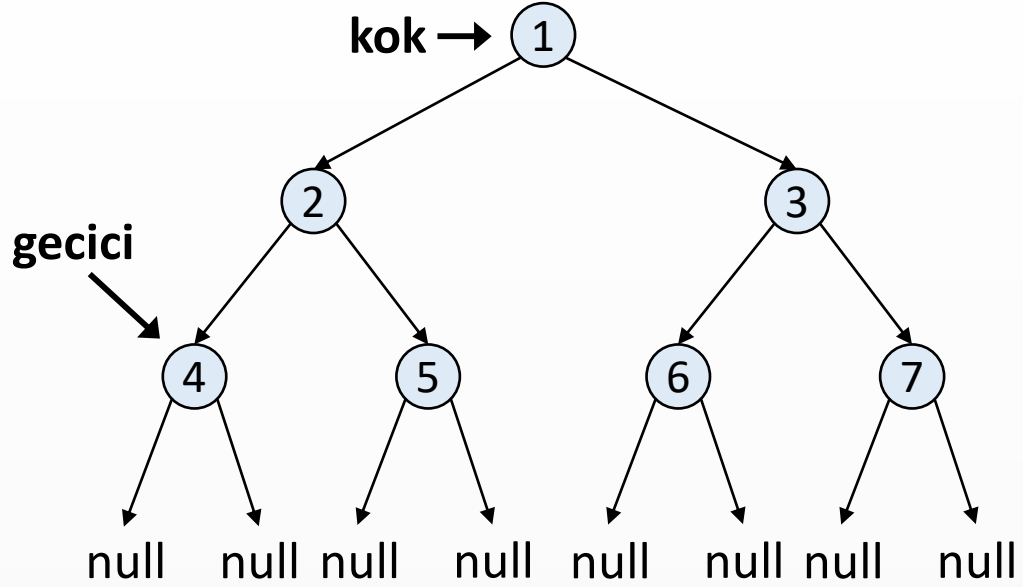
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        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1 2 4

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

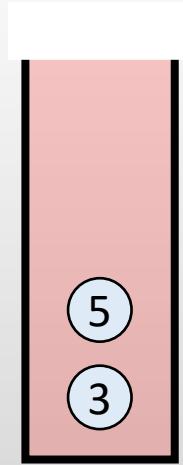
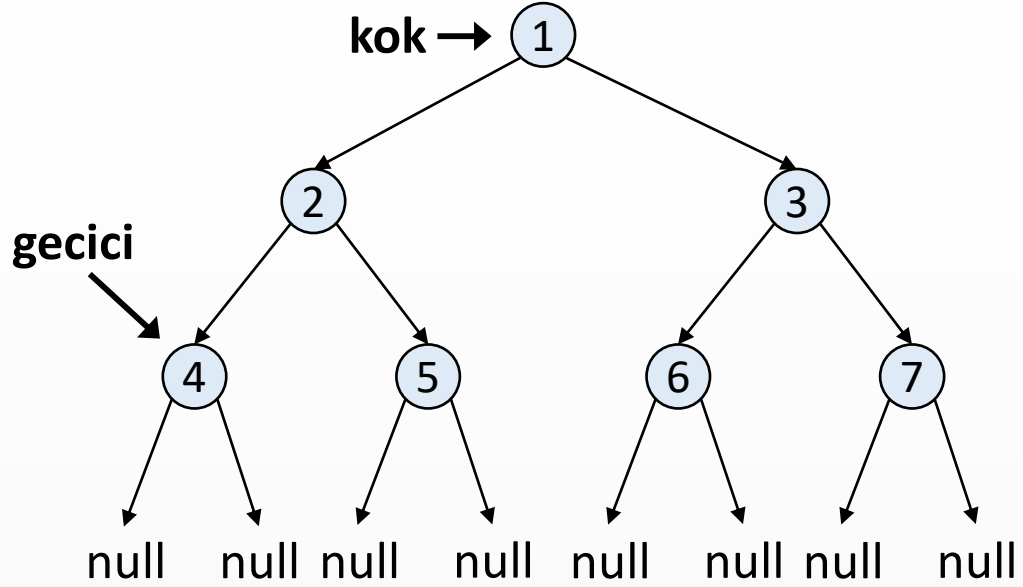


Yığıt

Çıktı: 1 2 4

```
if(kok == null) {
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    System.out.print(gecici.veri + " ");
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    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

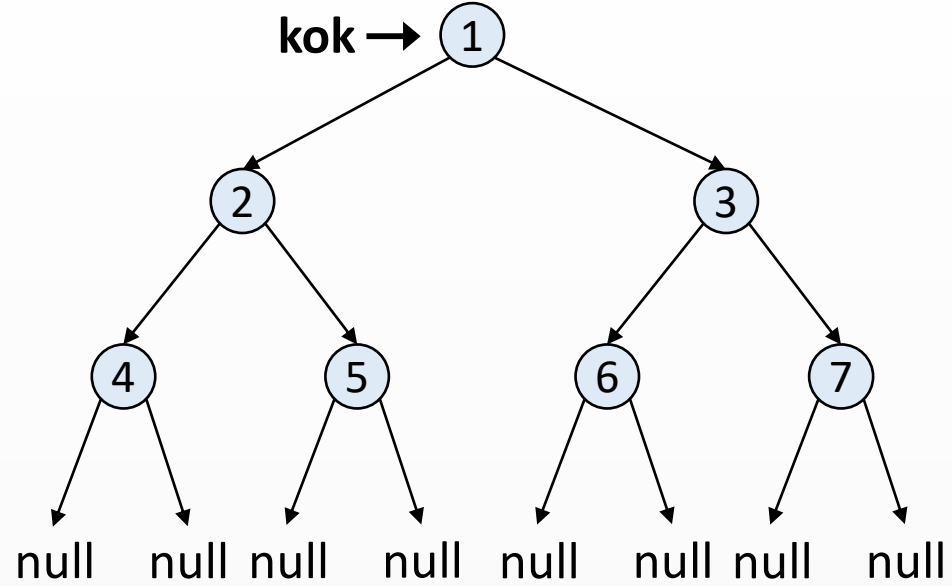




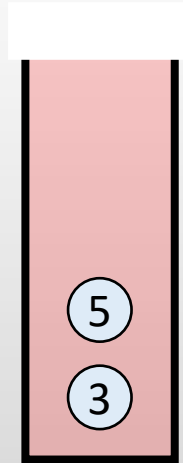
Yığıt

Çıktı: 1 2 4

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if(kok == null) {
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        yigit.push(gecici.sol);
    }
}
```

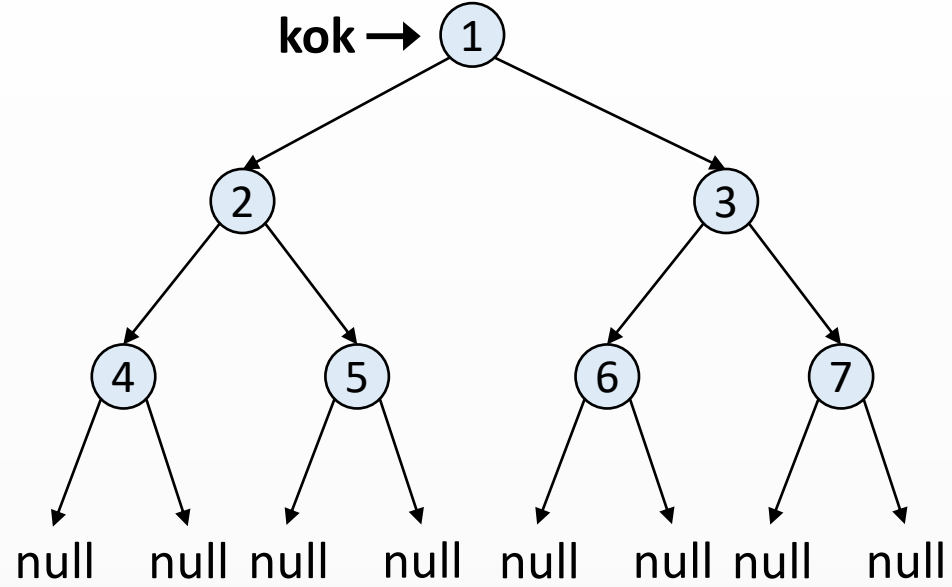



Çıktı: 1 2 4

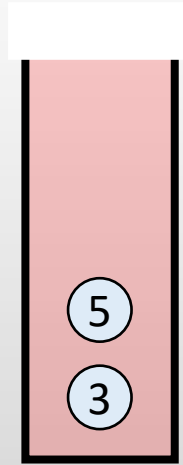


Yığıt

```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
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        yigit.push(gecici.sag);  
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    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```

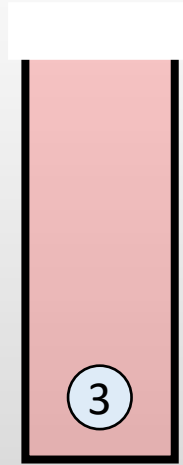
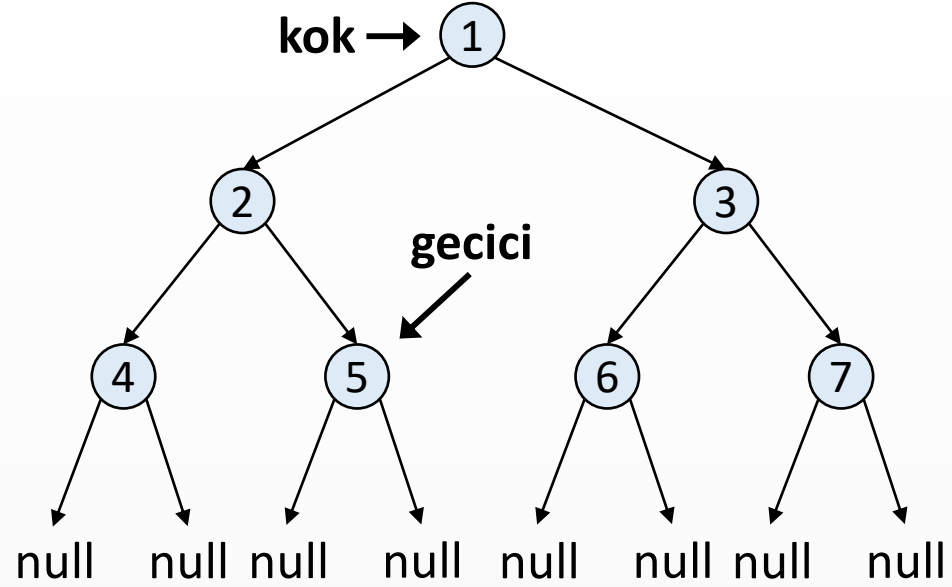


Çıktı: 1 2 4



Yığıt

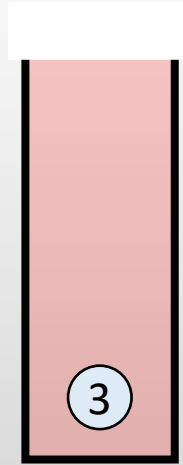
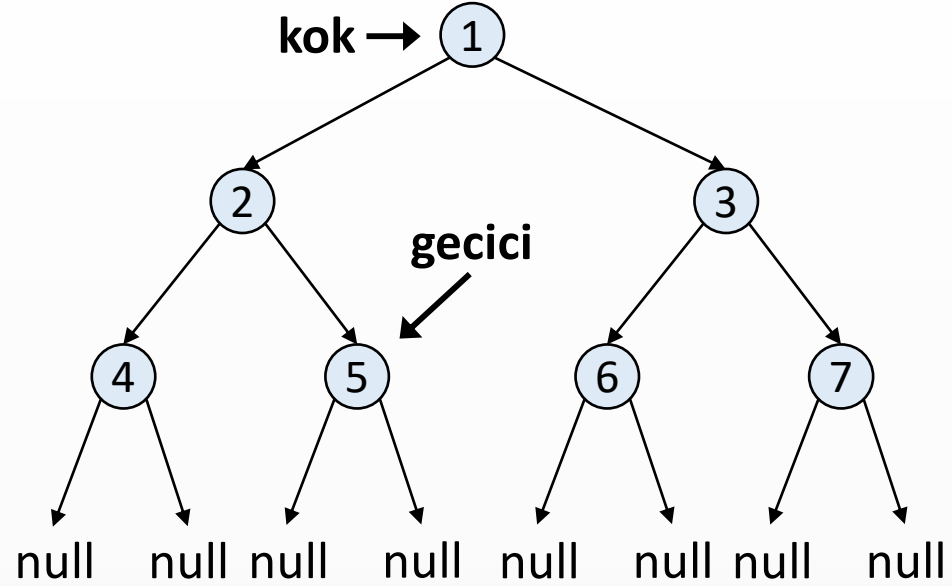
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1 2 4

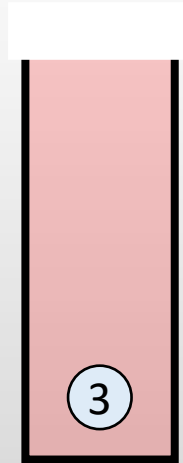
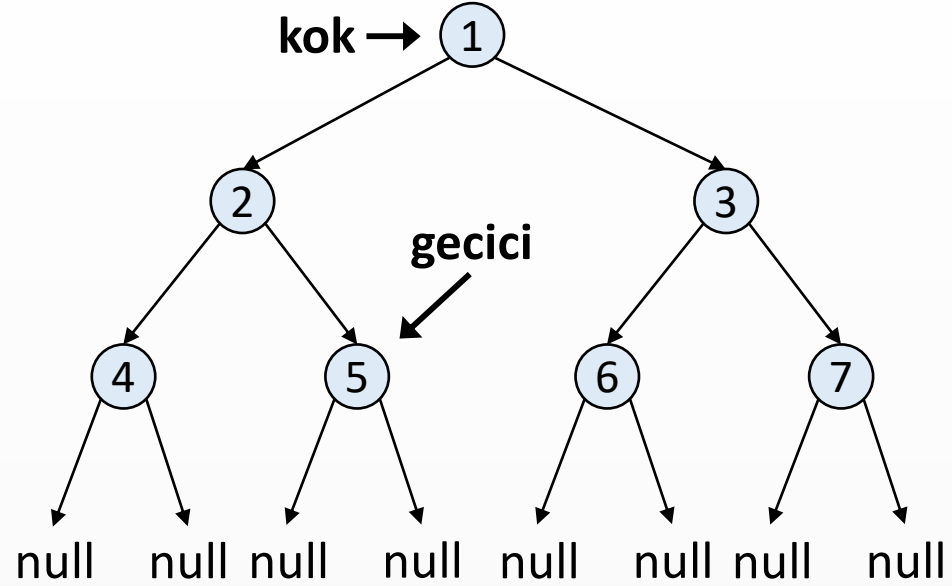
```
if(kok == null) {
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Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```



Yığıt

Çıktı: 1 2 4 5

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

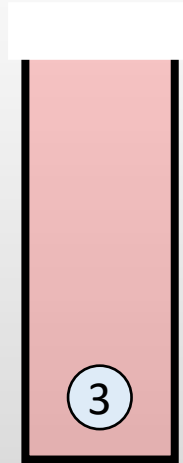
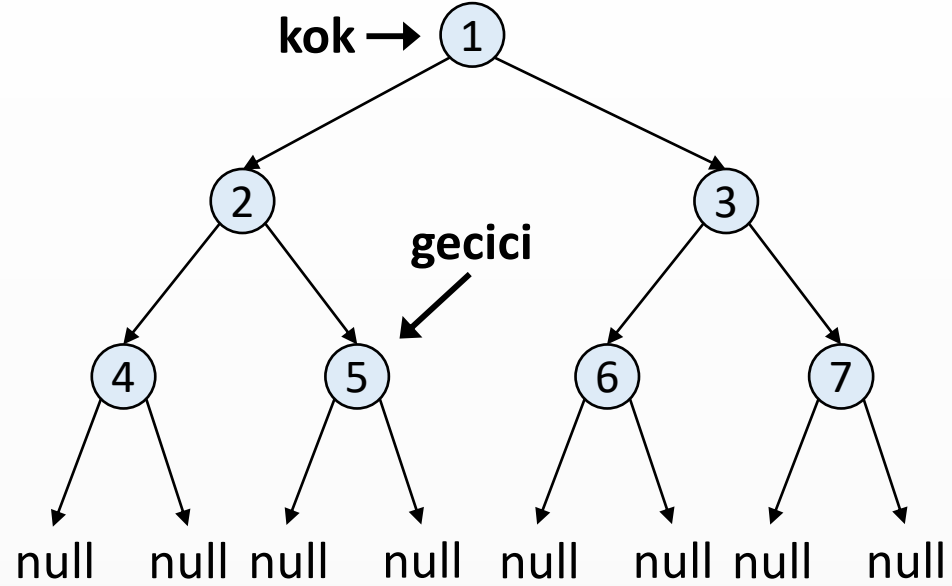


Yığıt

Çıktı: 1 2 4 5

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```



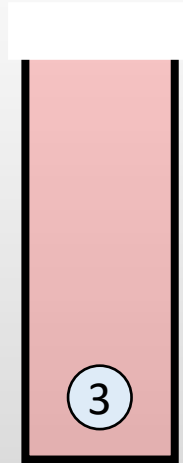
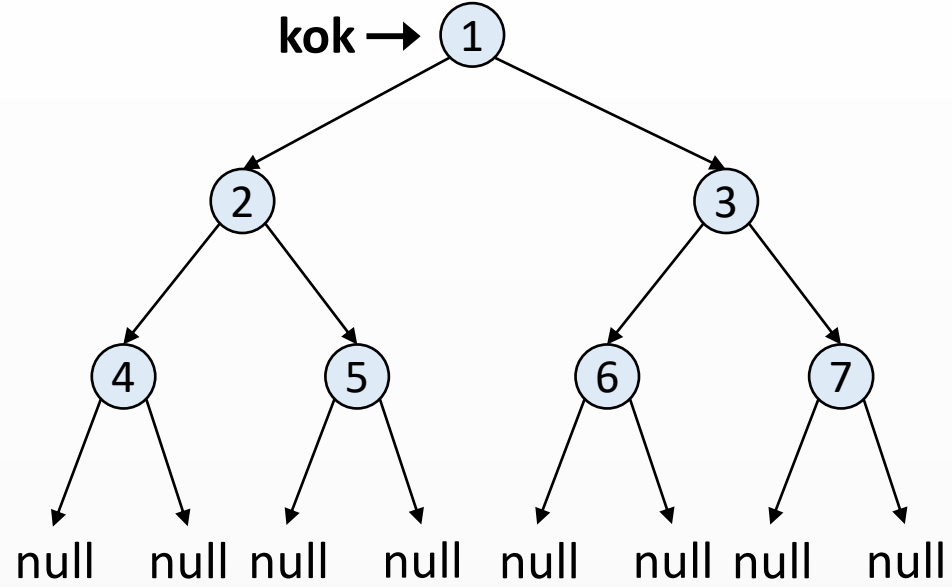


Yığıt

Çıktı: 1 2 4 5

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
while(!yigit.isEmpty()) {
    AgacDugumu gecici = yigit.pop();
    System.out.print(gecici.veri + " ");
    if(gecici.sag != null) {
        yigit.push(gecici.sag);
    }
    if(gecici.sol != null) {
        yigit.push(gecici.sol);
    }
}
```

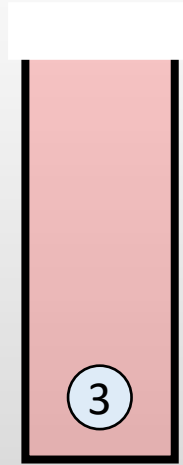
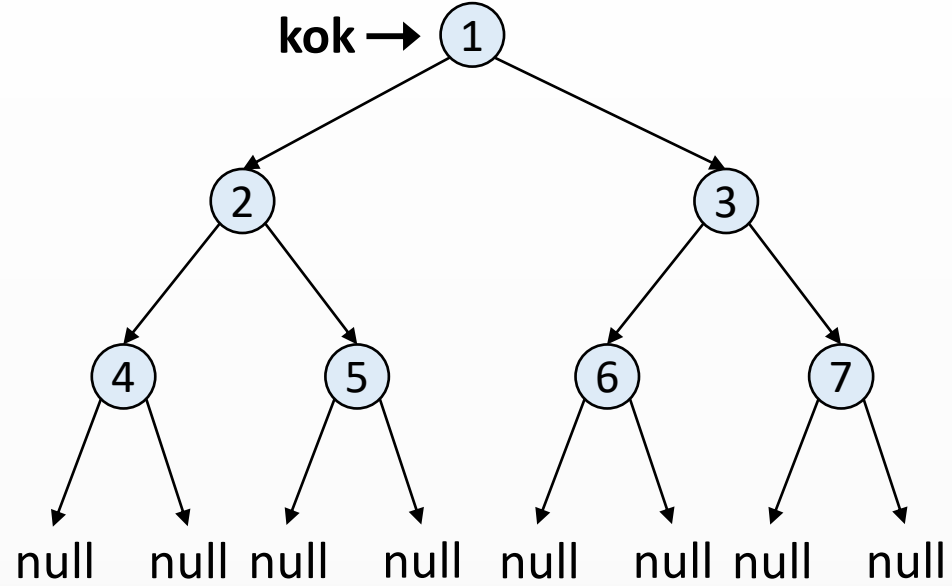




Yığıt

Çıktı: 1 2 4 5

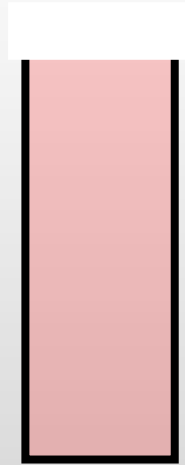
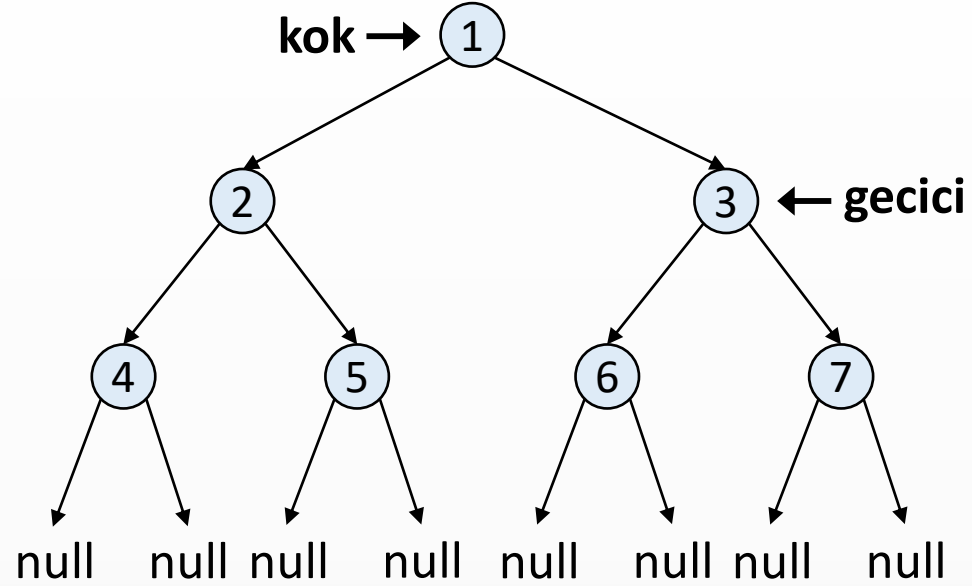
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
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        yigit.push(gecici.sag);  
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Yığıt

Çıktı: 1 2 4 5

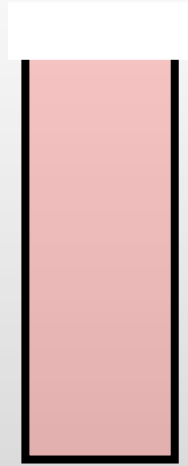
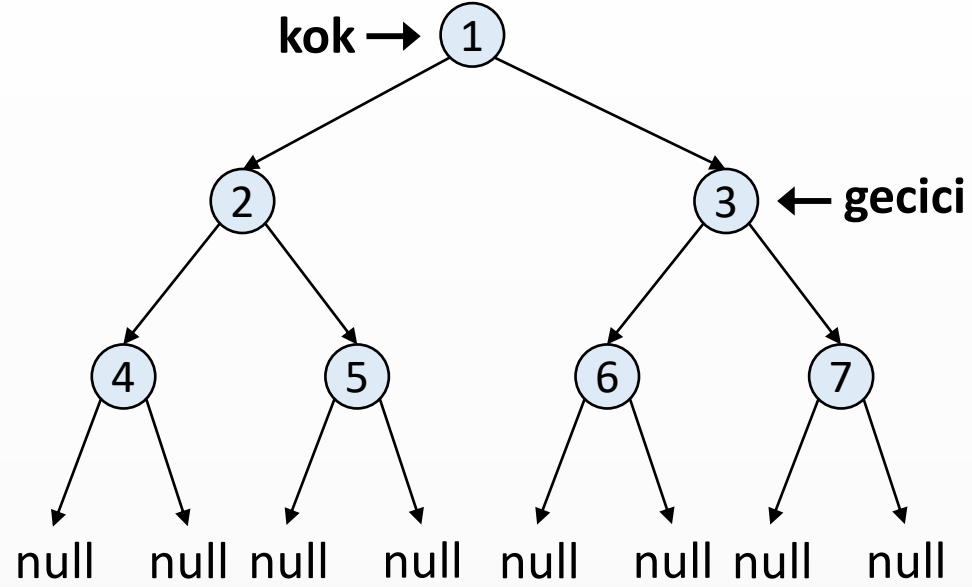
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if(kok == null) {  
    return;  
}  
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yigit.push(kok);  
while(!yigit.isEmpty()) {  
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Yığıt

Çıktı: 1 2 4 5

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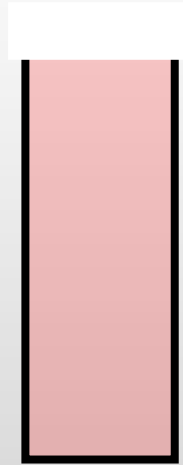
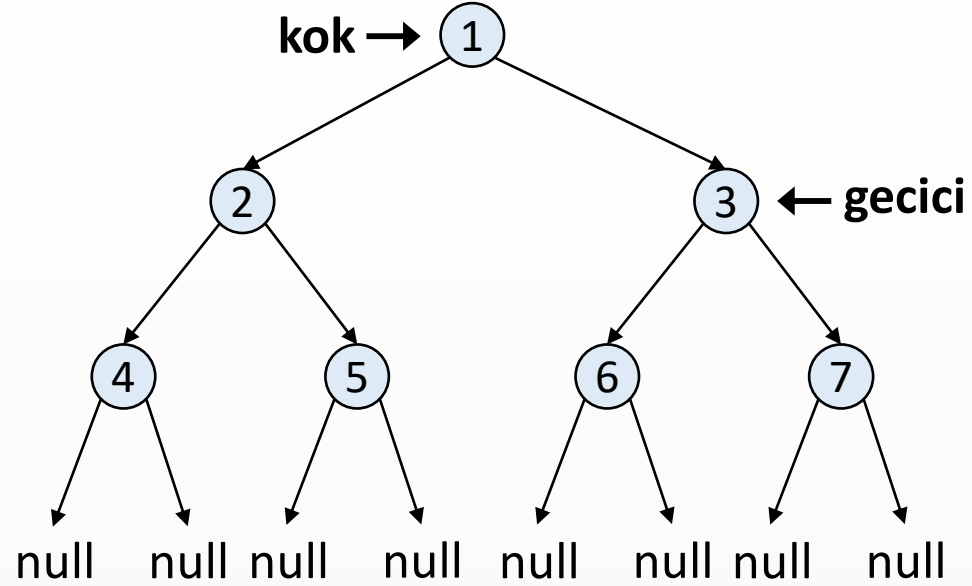


Yığıt

Çıktı: 1 2 4 5 3

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if(kok == null) {
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```



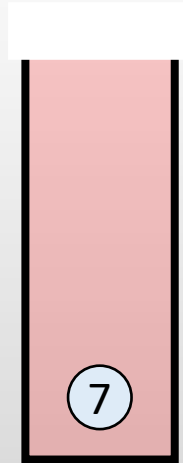
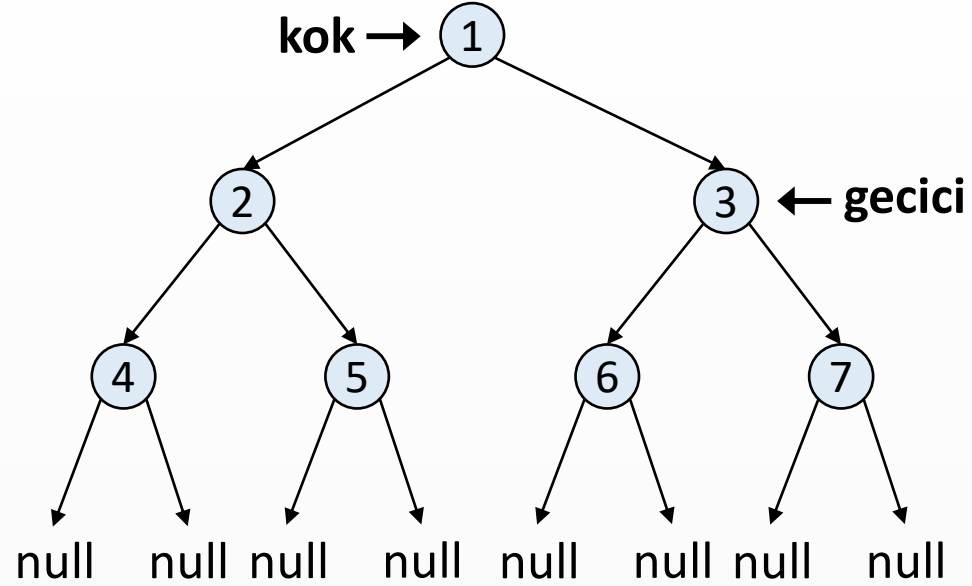


Yığıt

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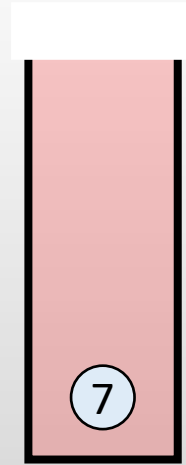
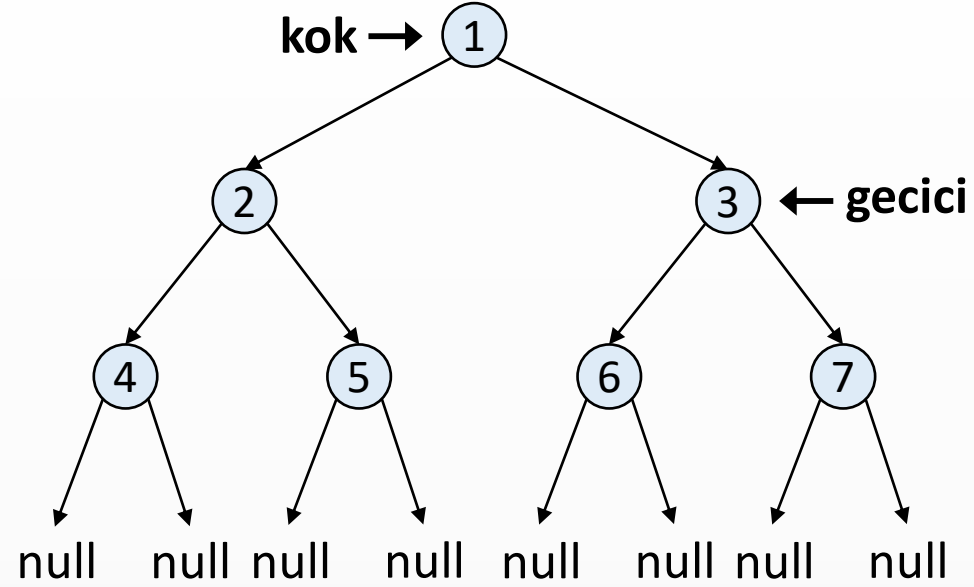


Yığıt

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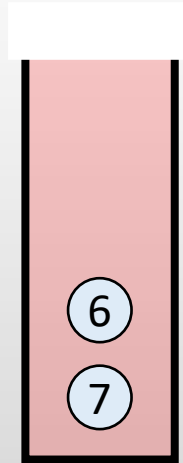
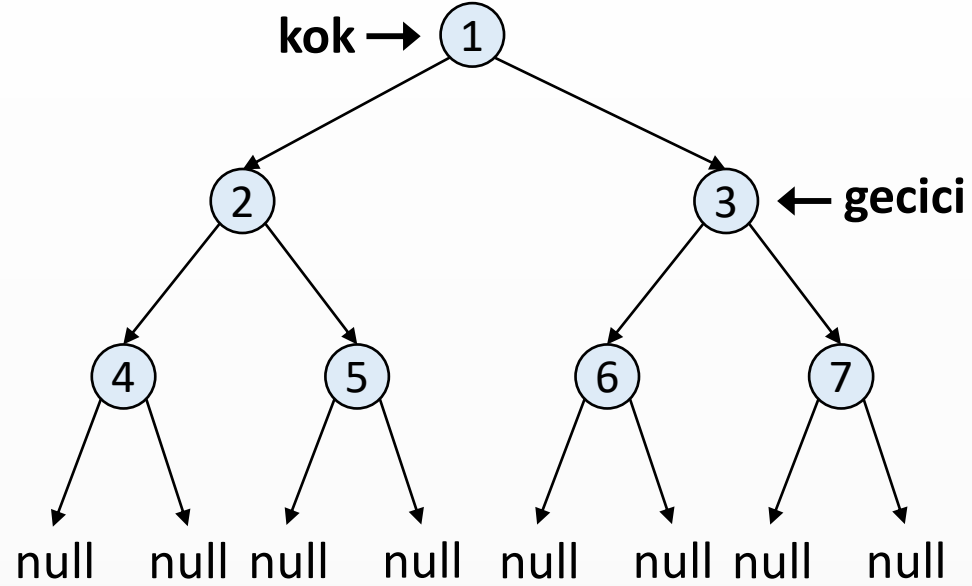


Yığıt

Çıktı: 1 2 4 5 3

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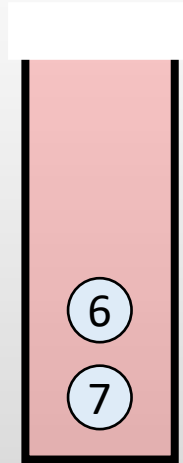
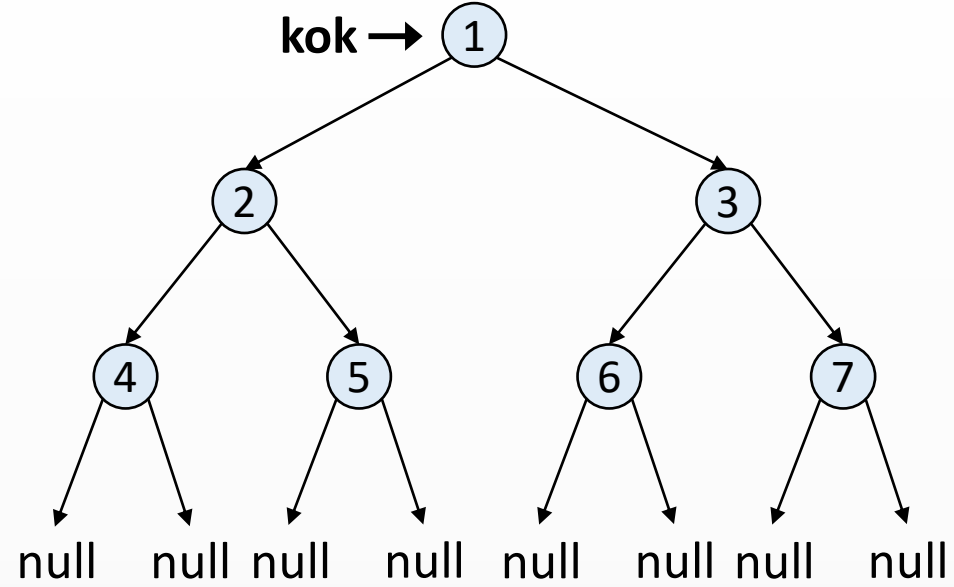


Yığıt

Çıktı: 1 2 4 5 3

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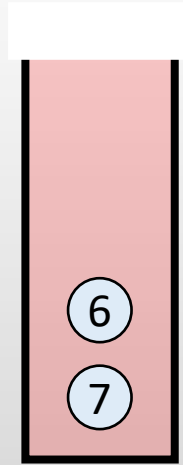
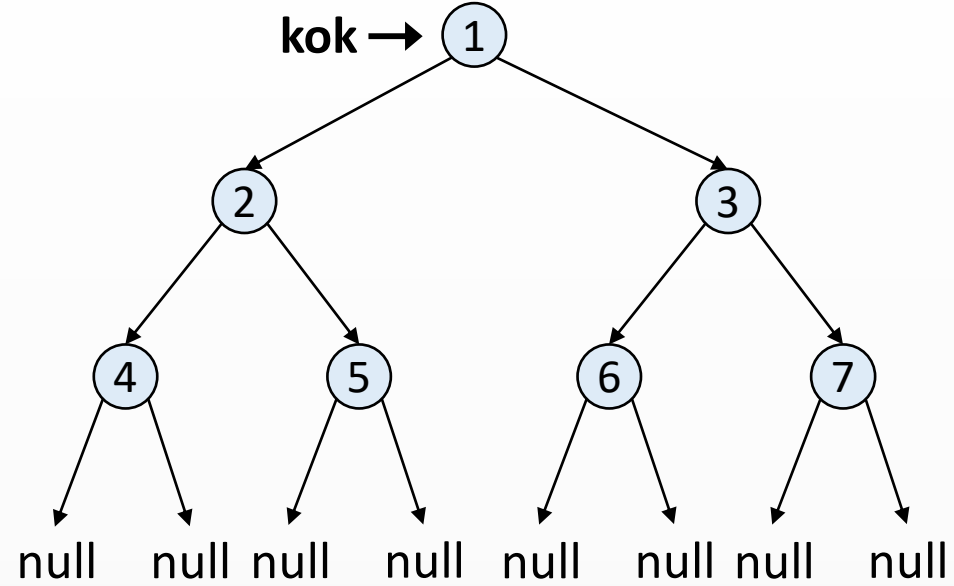




Yığıt

Çıktı: 1 2 4 5 3

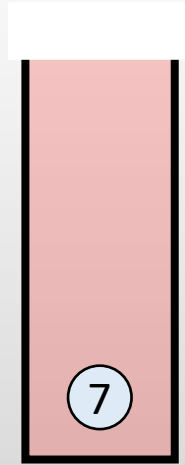
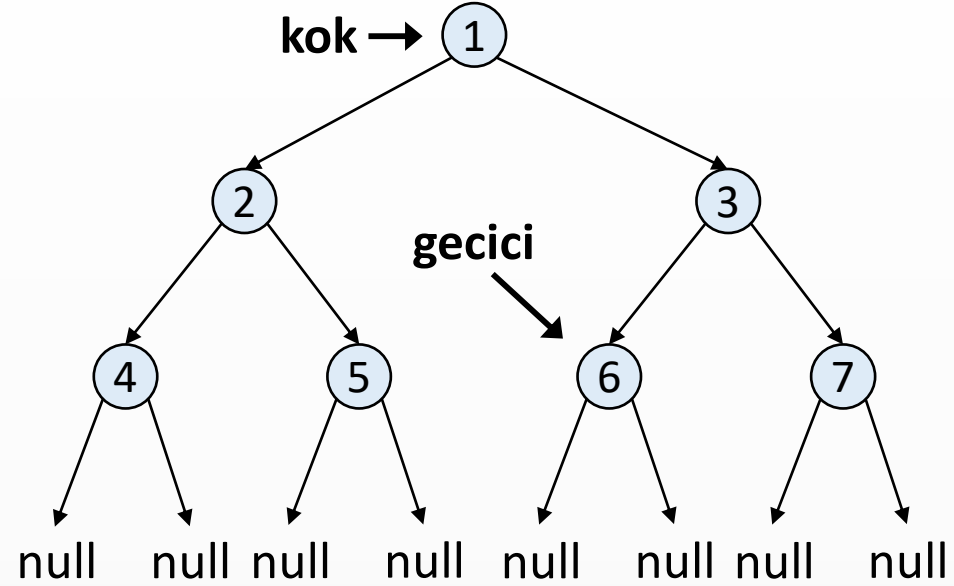
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Yığıt

Çıktı: 1 2 4 5 3

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    }  
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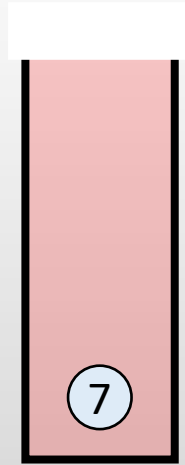
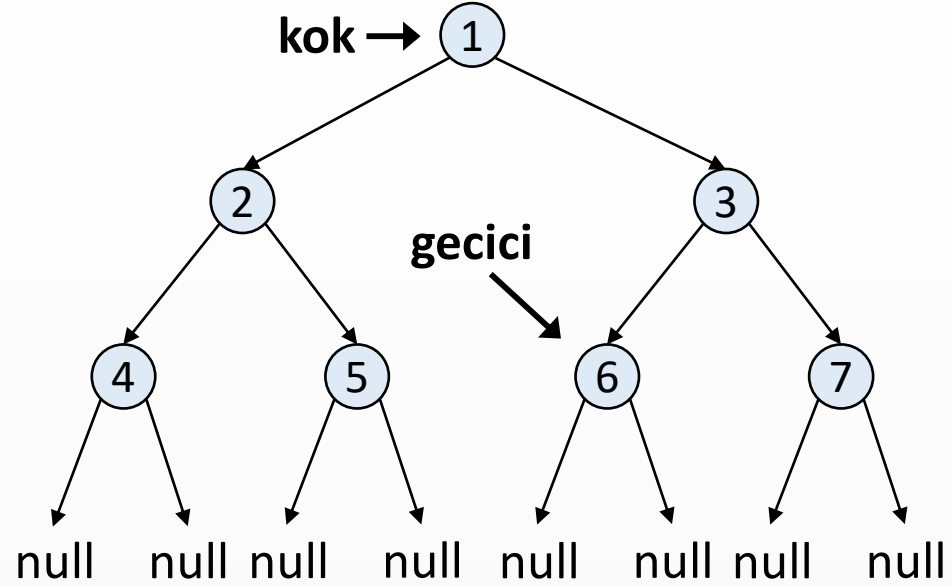



Yığıt

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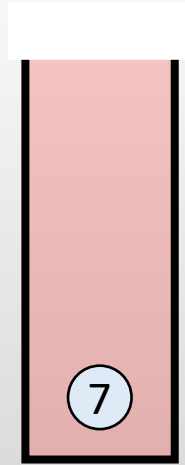
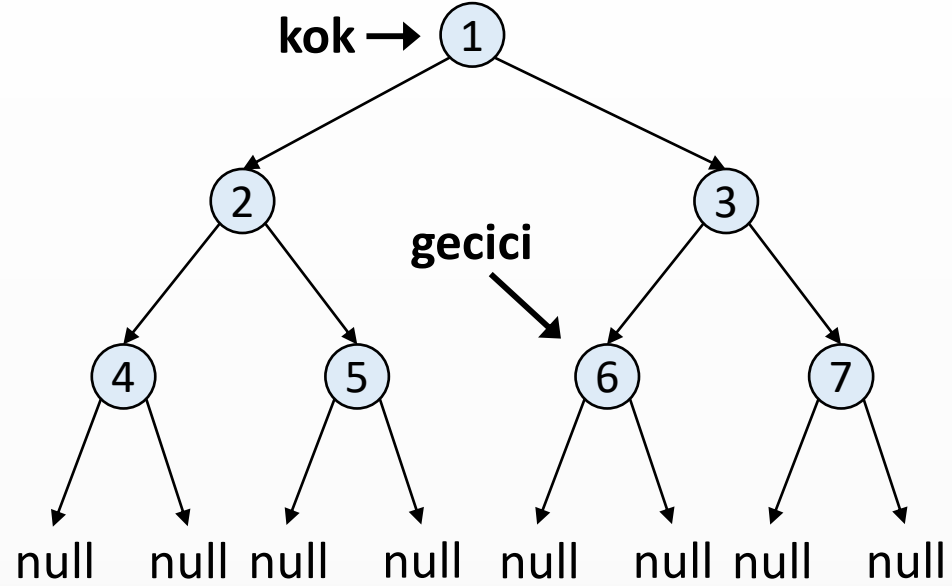


Yığıt

Çıktı: 1 2 4 5 3 6

```
if(kok == null) {
    return;
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Stack<AgacDugumu> yigit = new Stack<>();
yigit.push(kok);
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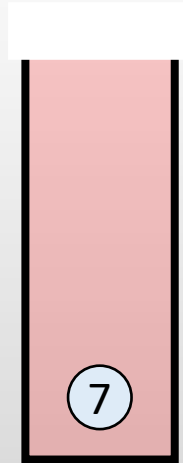
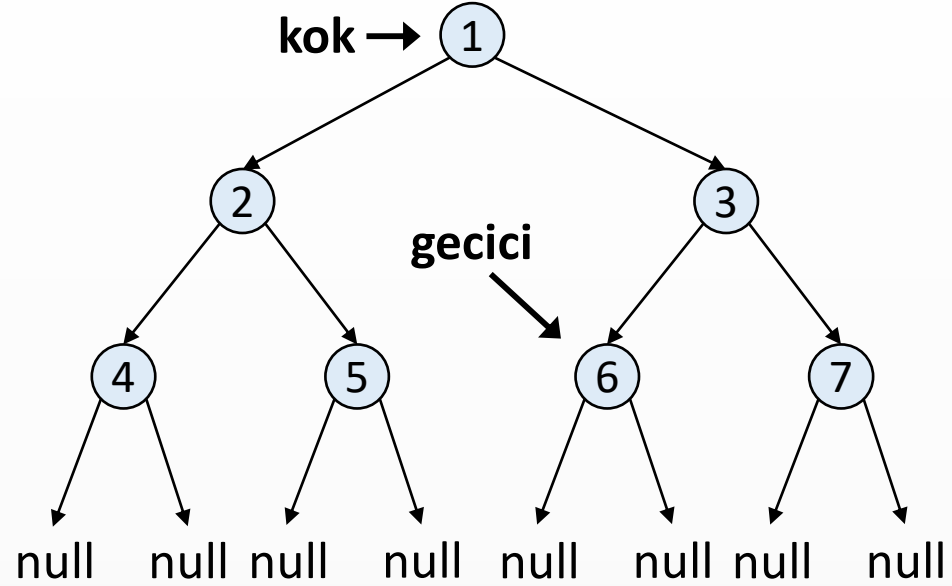


Yığıt

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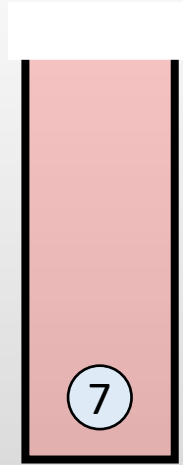
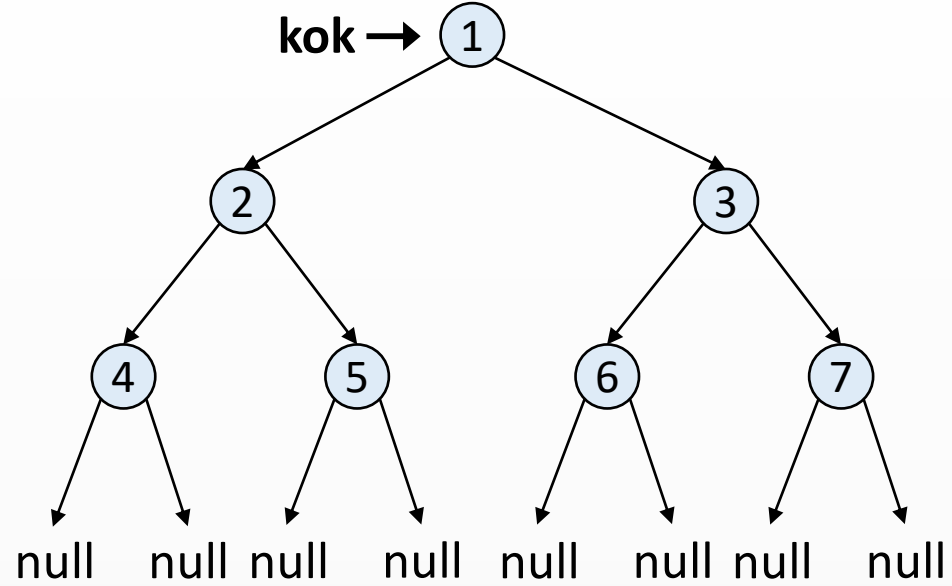


Yığıt

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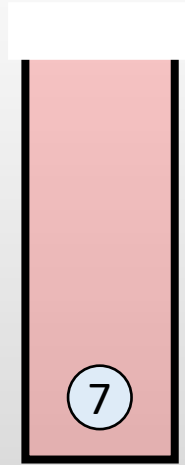
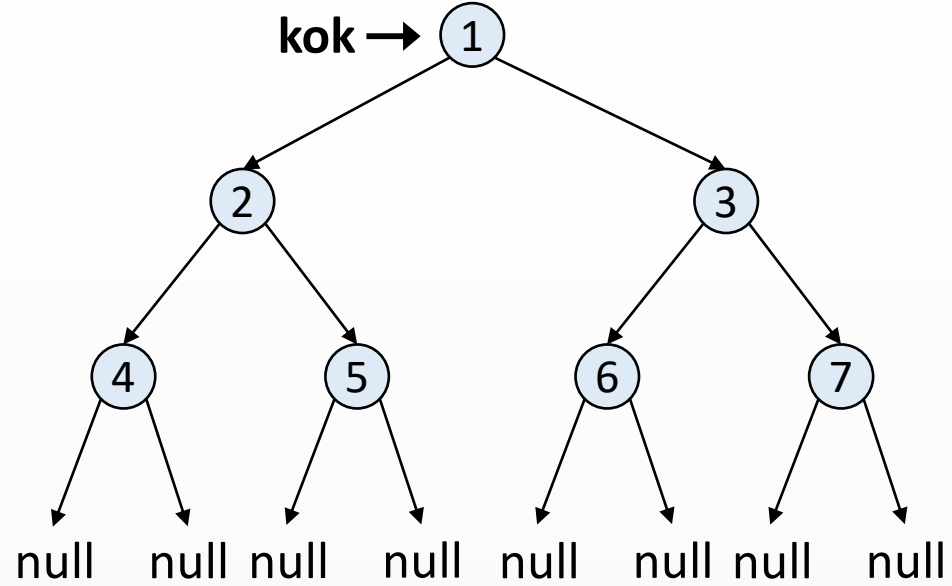




Yığıt

Çıktı: 1 2 4 5 3 6

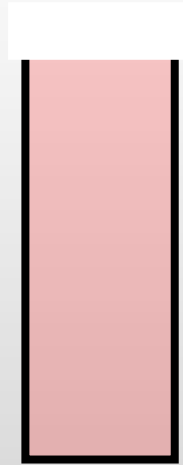
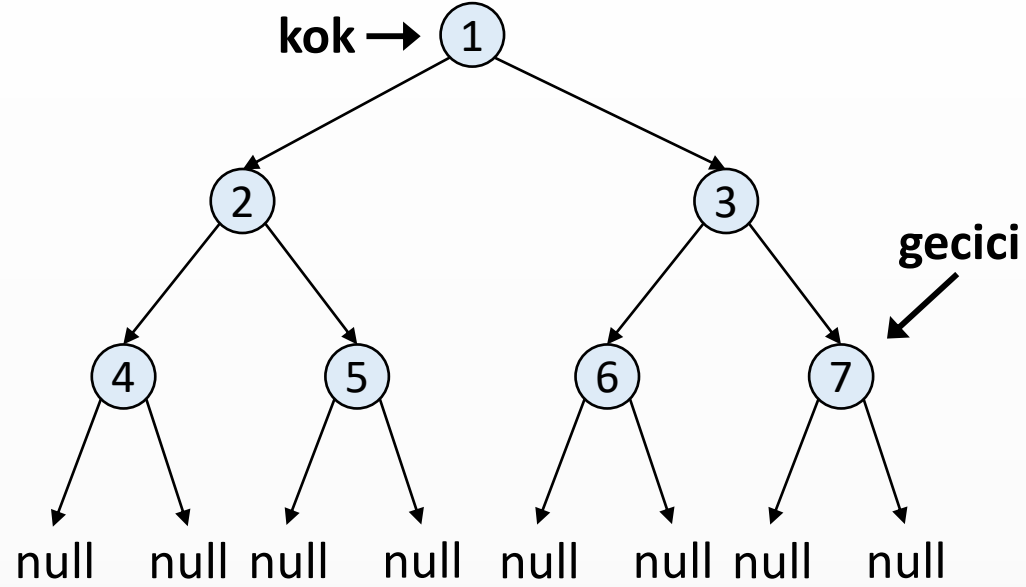
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Yığıt

Çıktı: 1 2 4 5 3 6

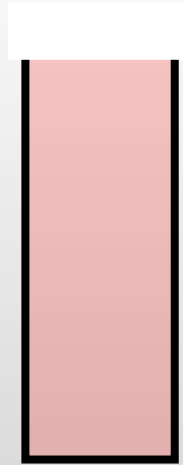
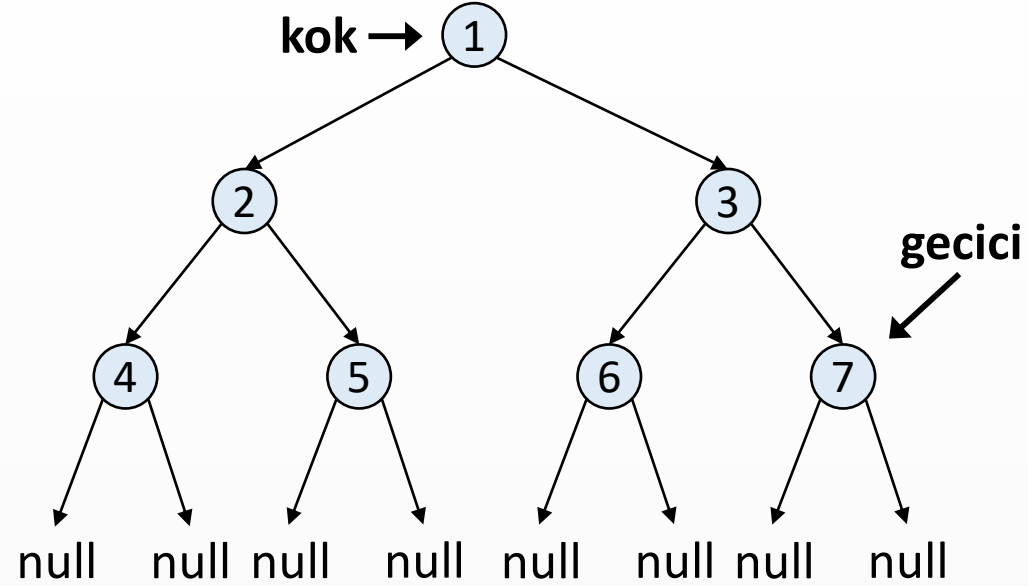
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Yığıt

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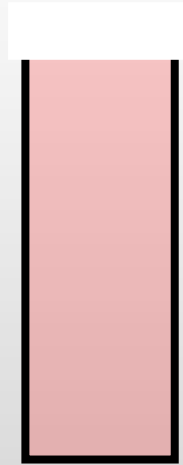
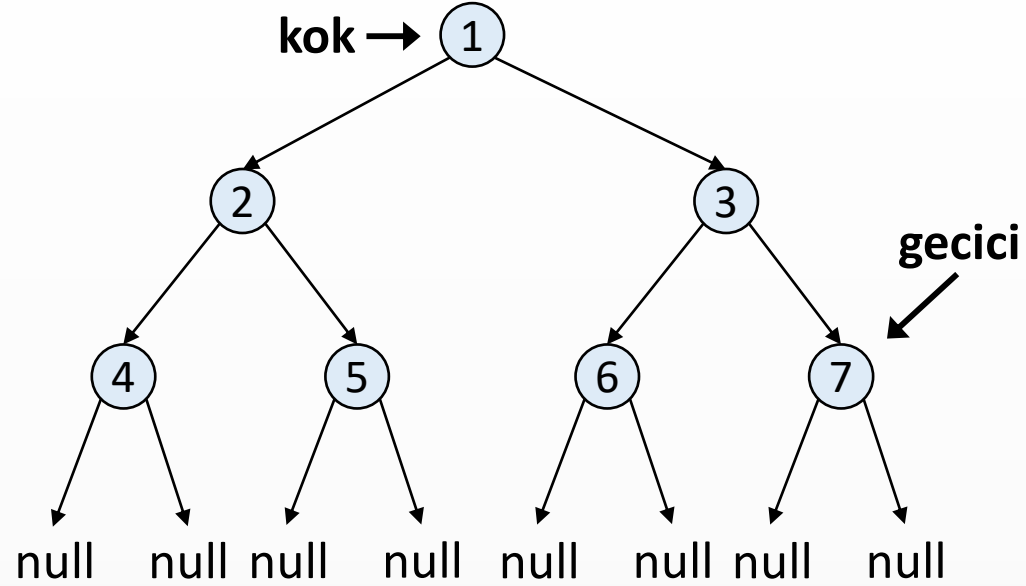


Yığıt

Çıktı: 1 2 4 5 3 6 7

```
if(kok == null) {
    return;
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Stack<AgacDugumu> yigit = new Stack<>();
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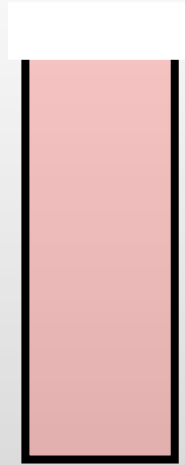
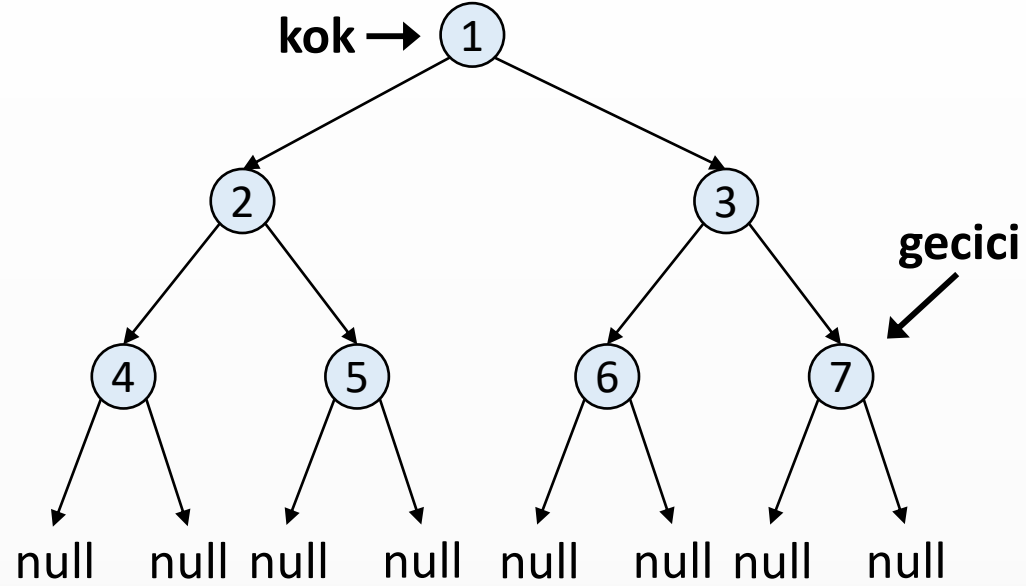


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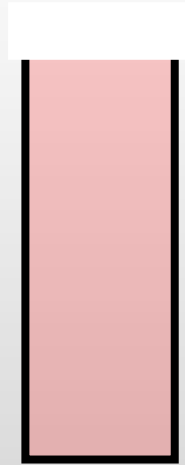
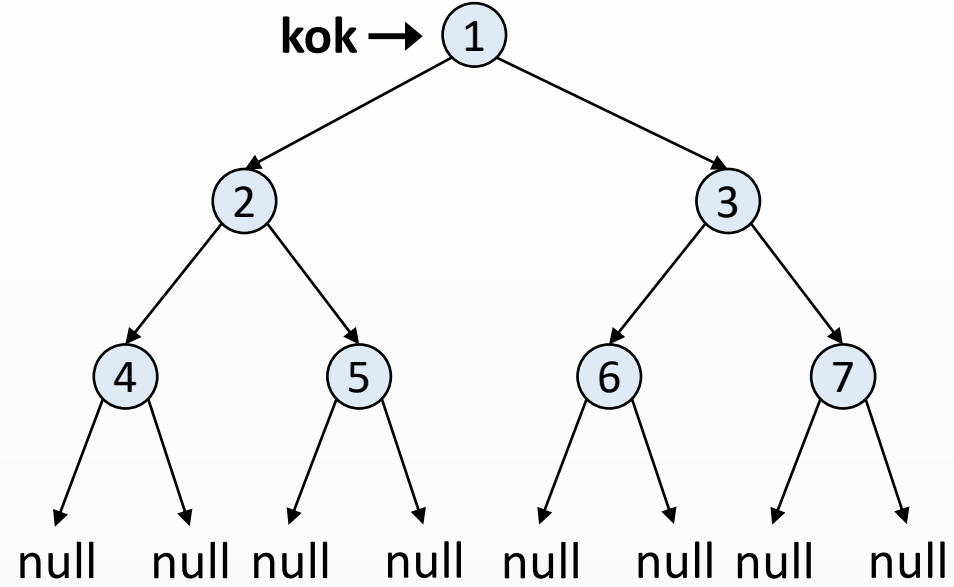


Yığıt

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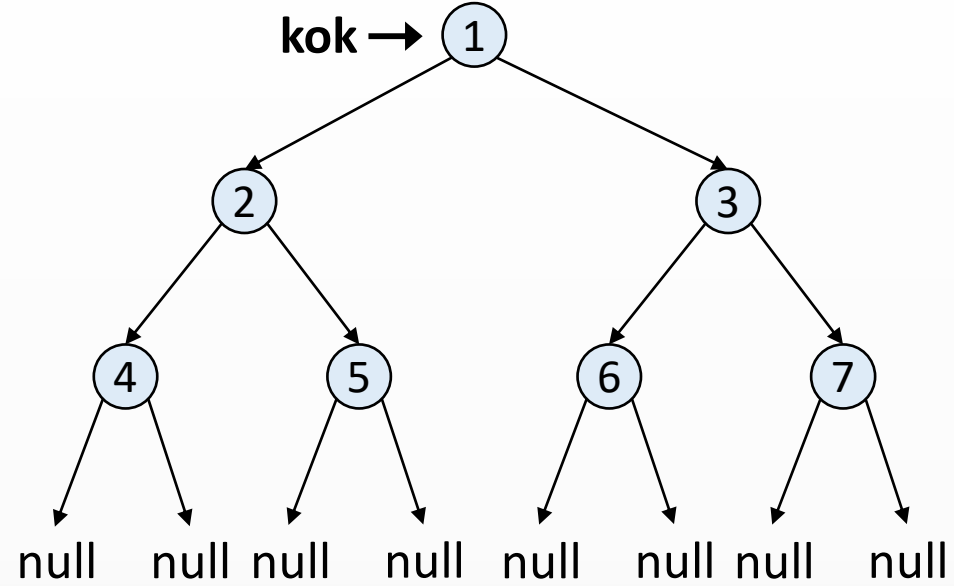




Yığıt

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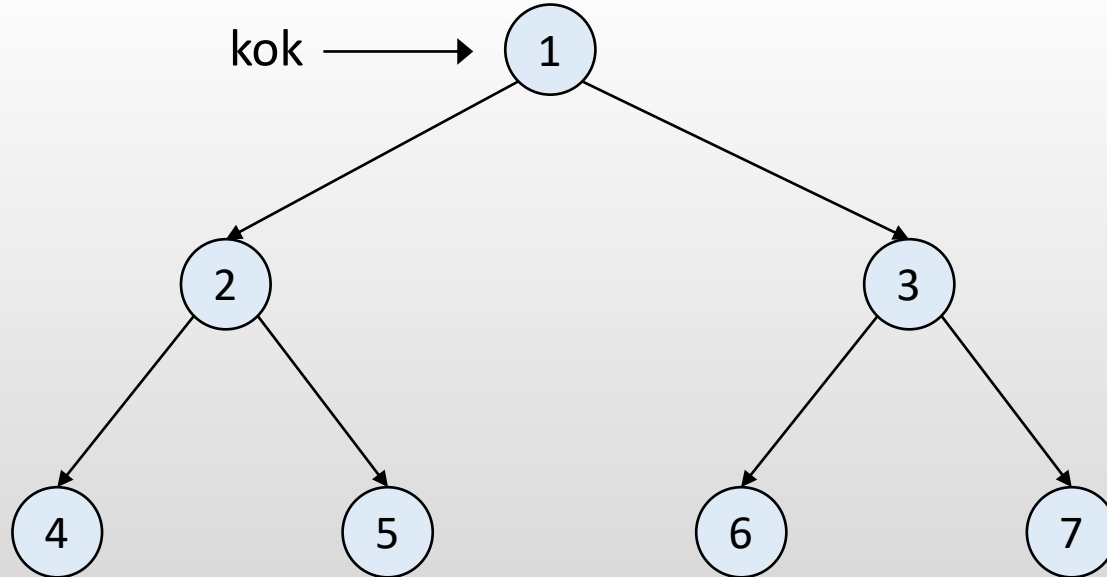
Kök Ortada (Inorder) Dolaşımı





Kök Ortada (Inorder) Dolaşımı

- Kök ortada olacak şekilde sol alt ağacı dolaş.
- Kök düğümü ziyaret et.
- Kök ortada olacak şekilde sağ alt ağacı dolaş.



Kök ortada dolaşımı: **4 2 5 1 6 3 7**

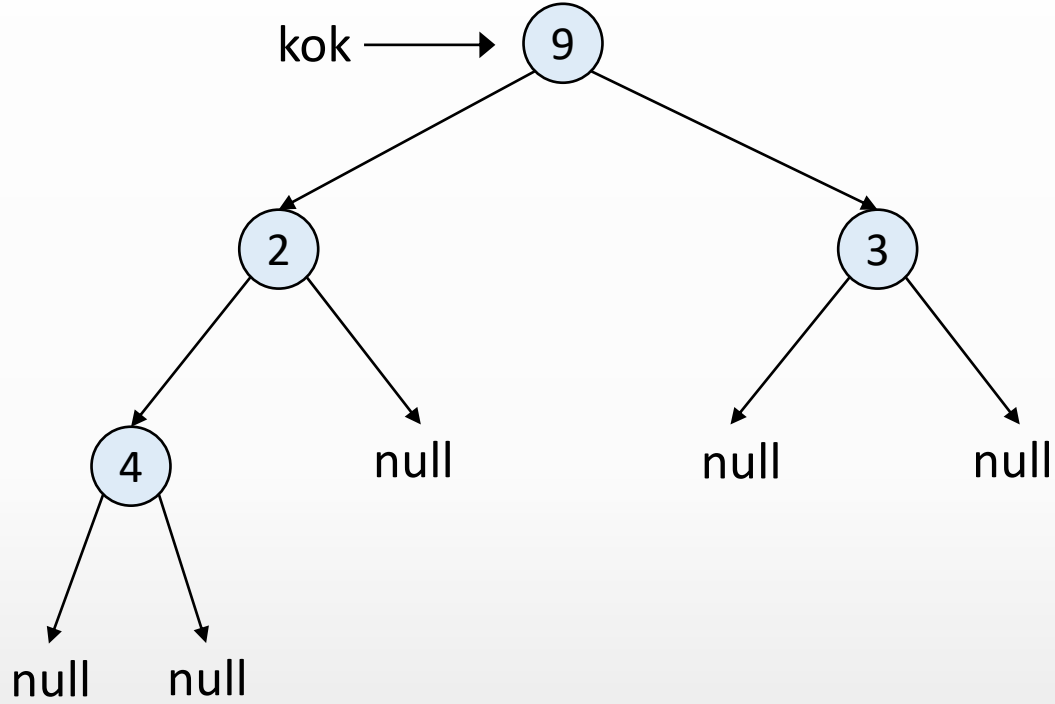


Çağırma Yiğiti (Call Stack)

Metot Çağırımı

Satır Numarası

Kök



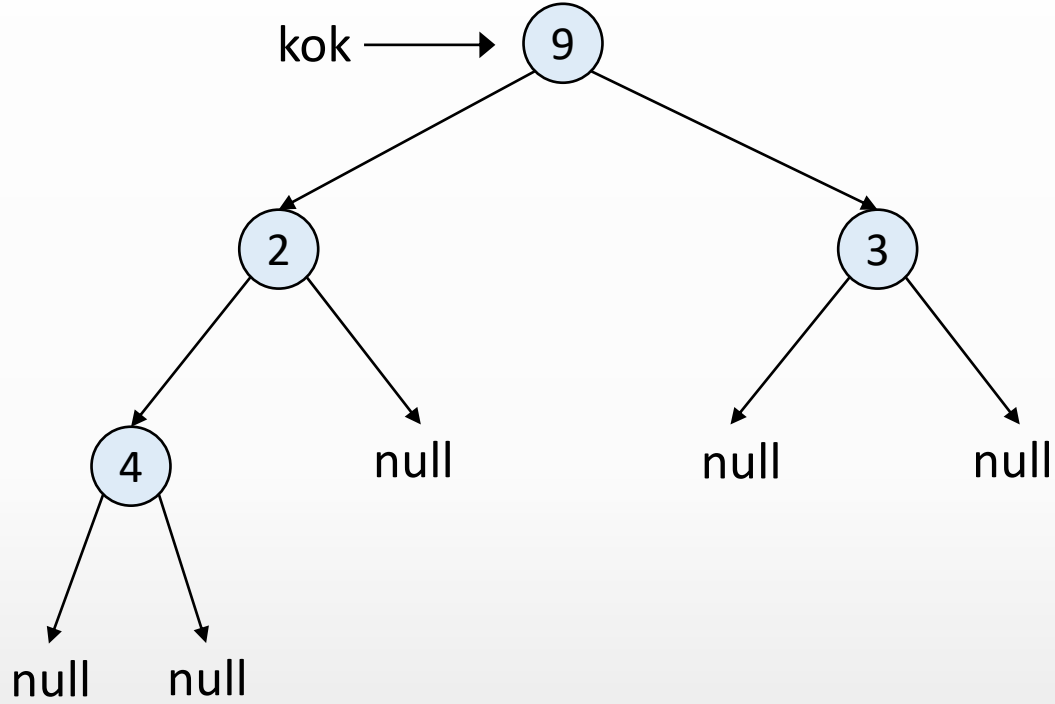
Çıktı:

```
1 public void kokOrtada(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokOrtada(kok.sol);
6     System.out.print(kok.veri + " ");
7     kokOrtada(kok.sag);
8 }
```



Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()		9



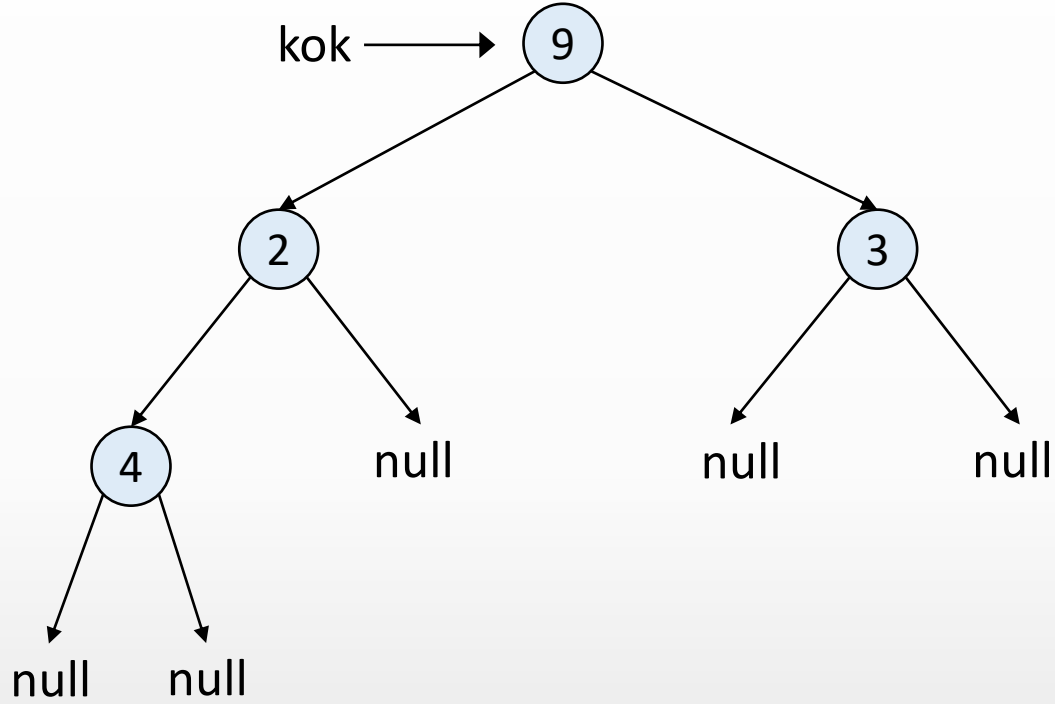
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()		9



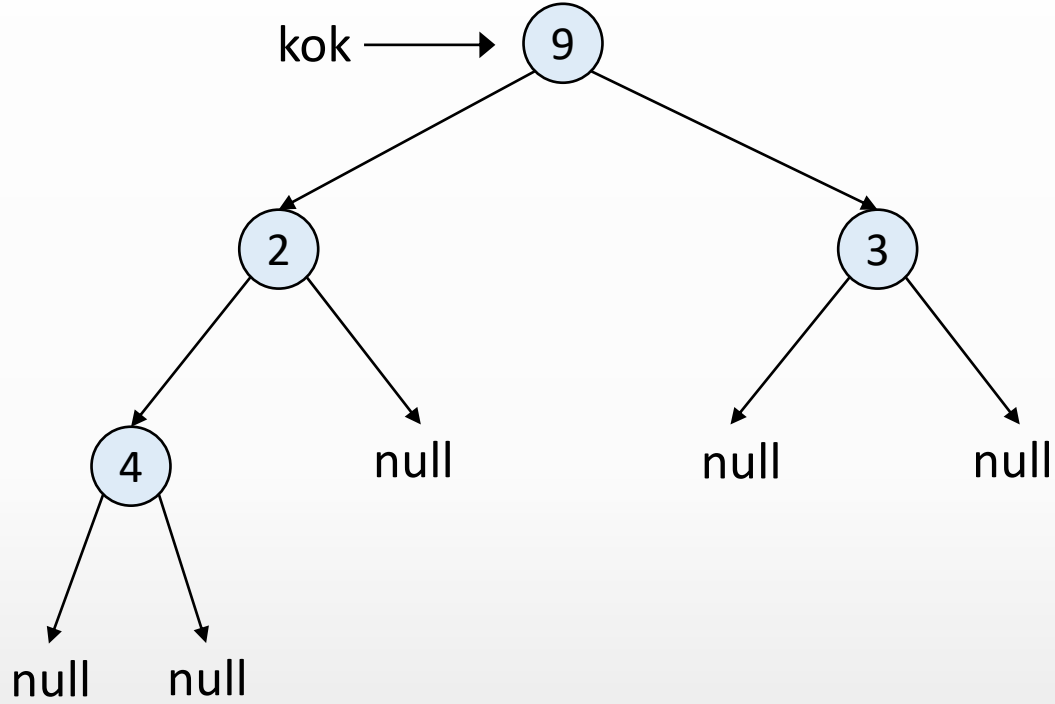
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8 }
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	5	9



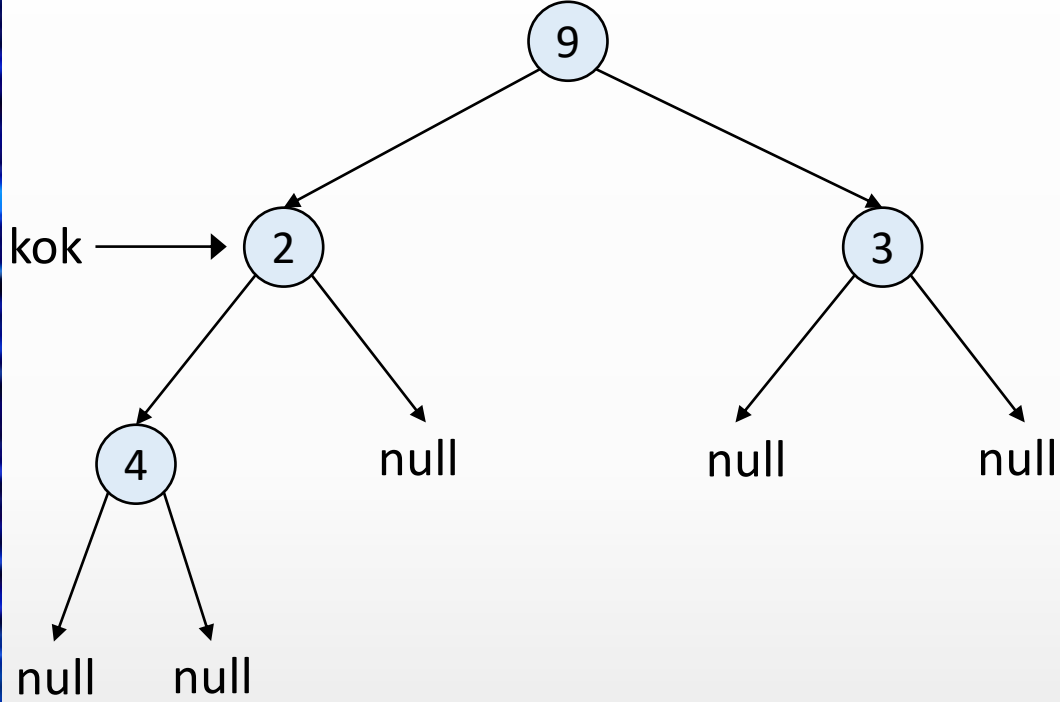
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Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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kokOrtada()		2



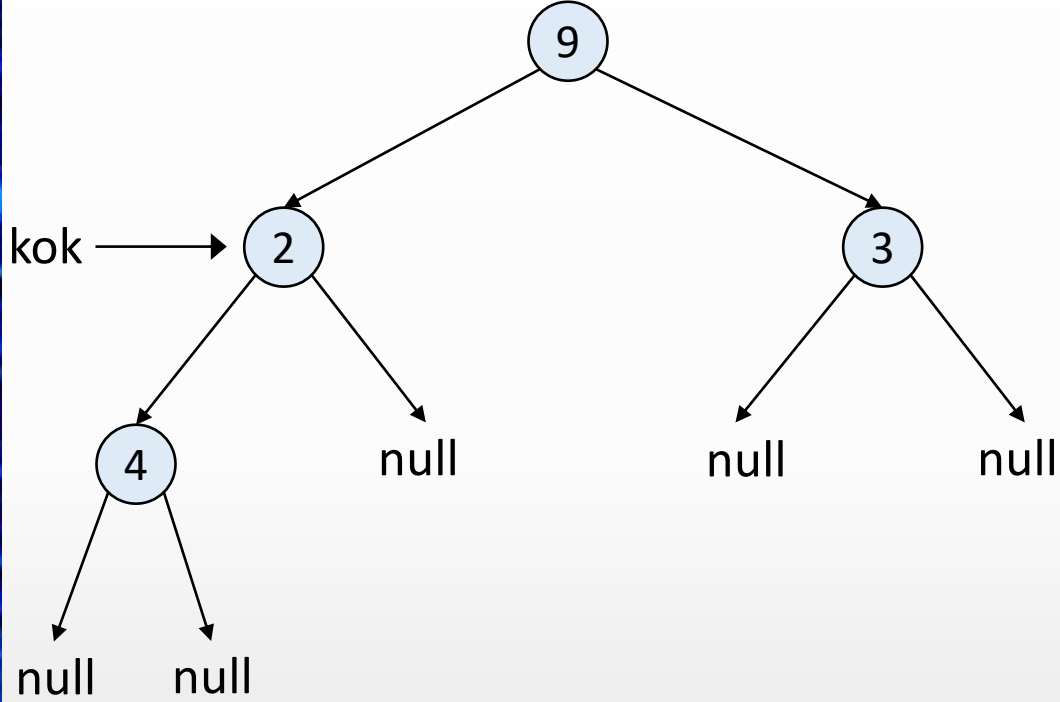
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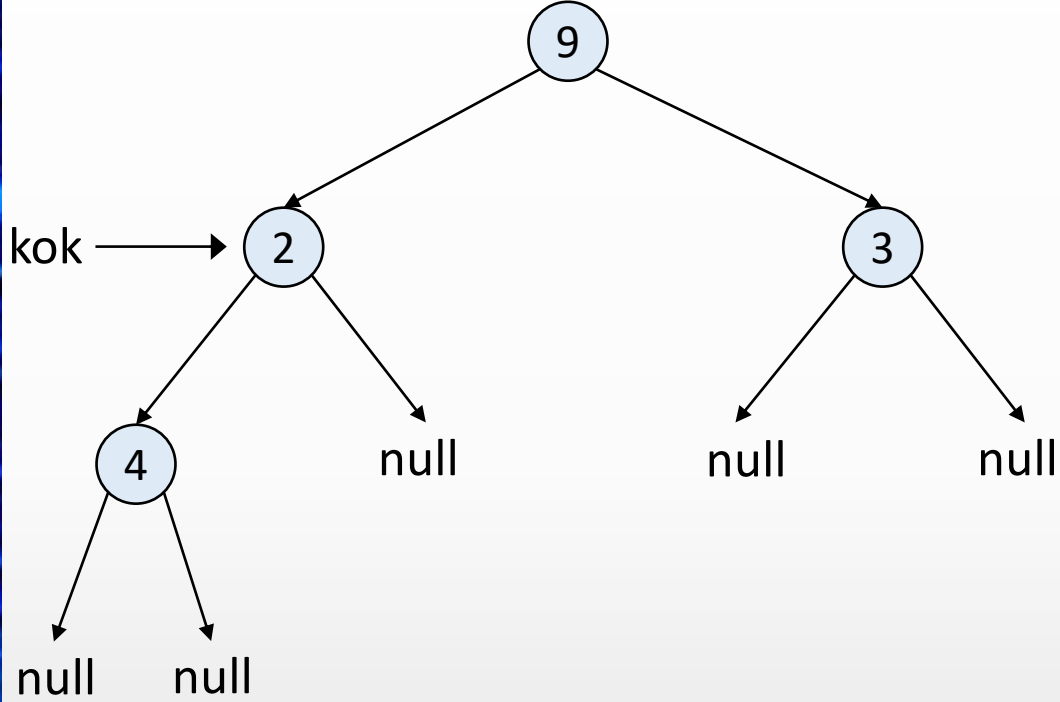
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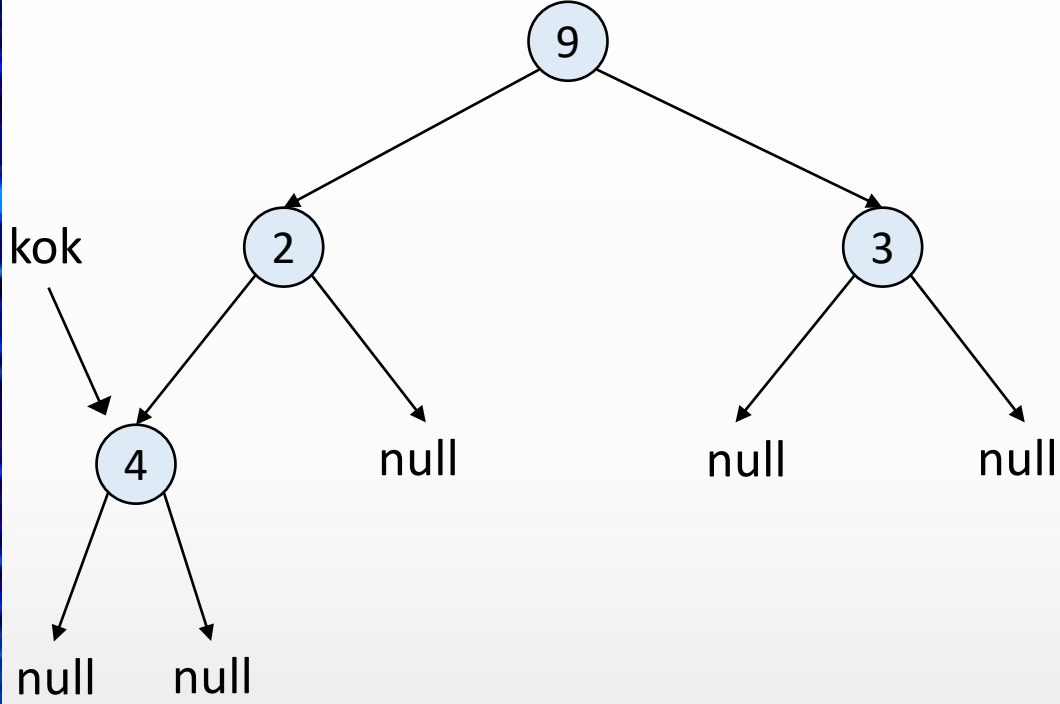
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()		4



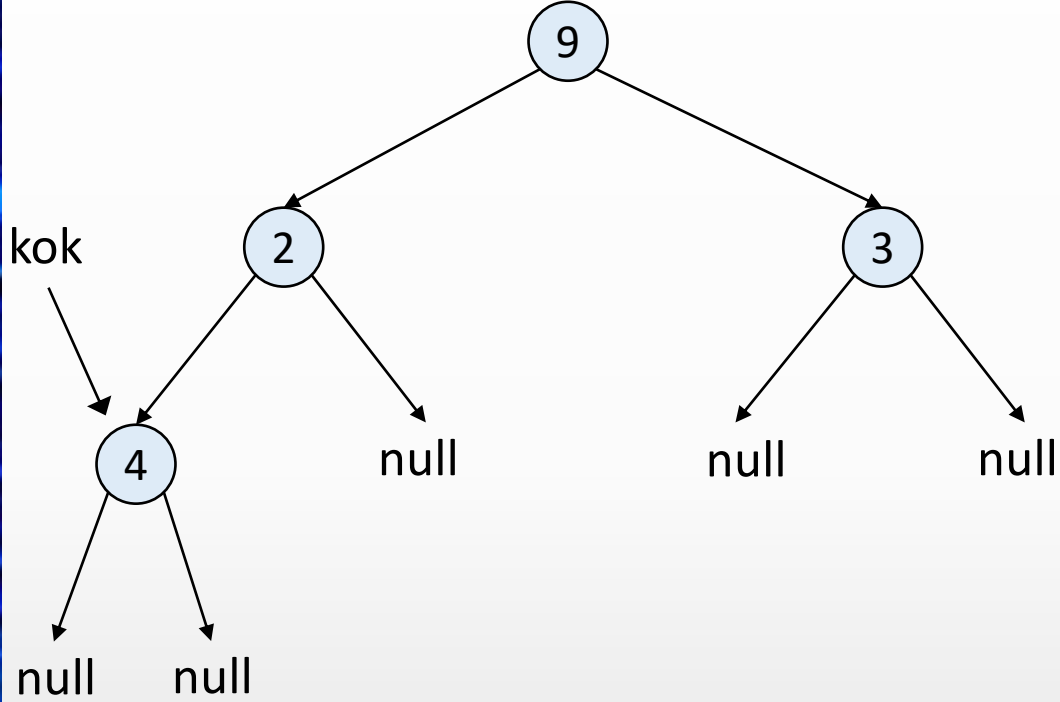
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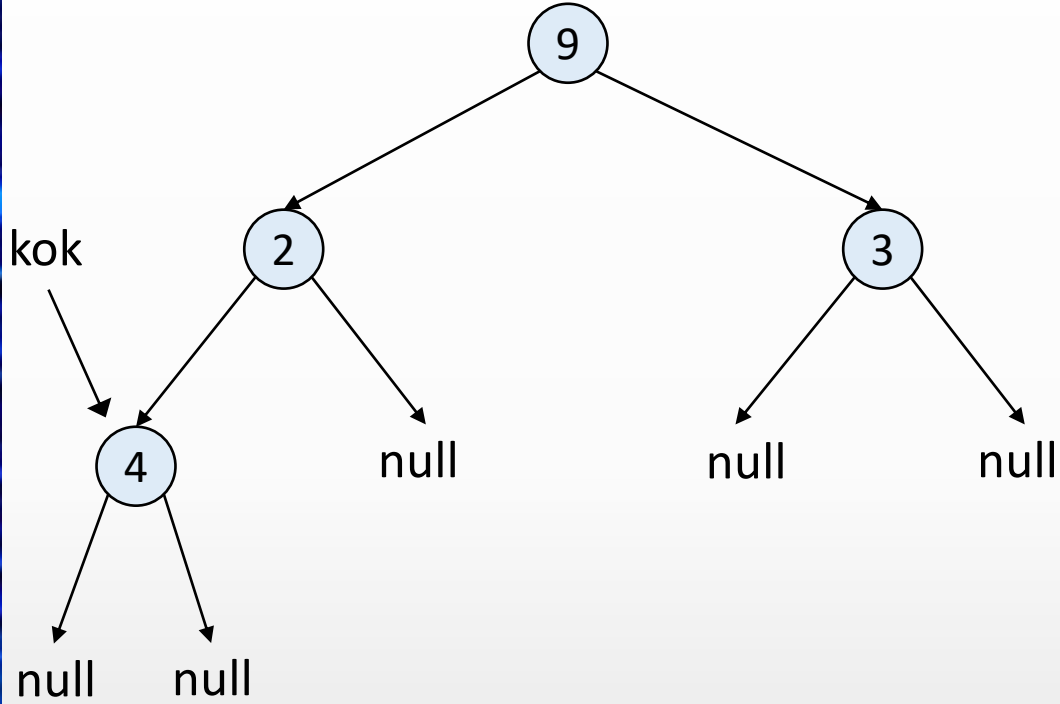
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Çıktı:

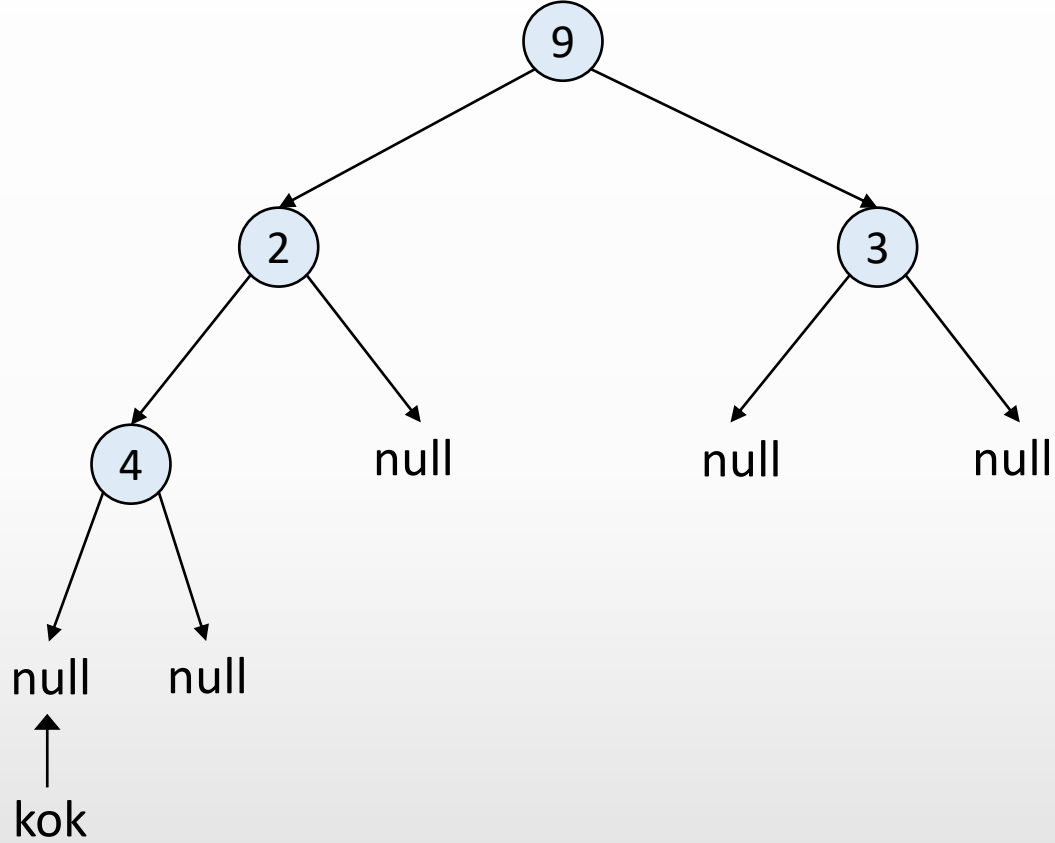


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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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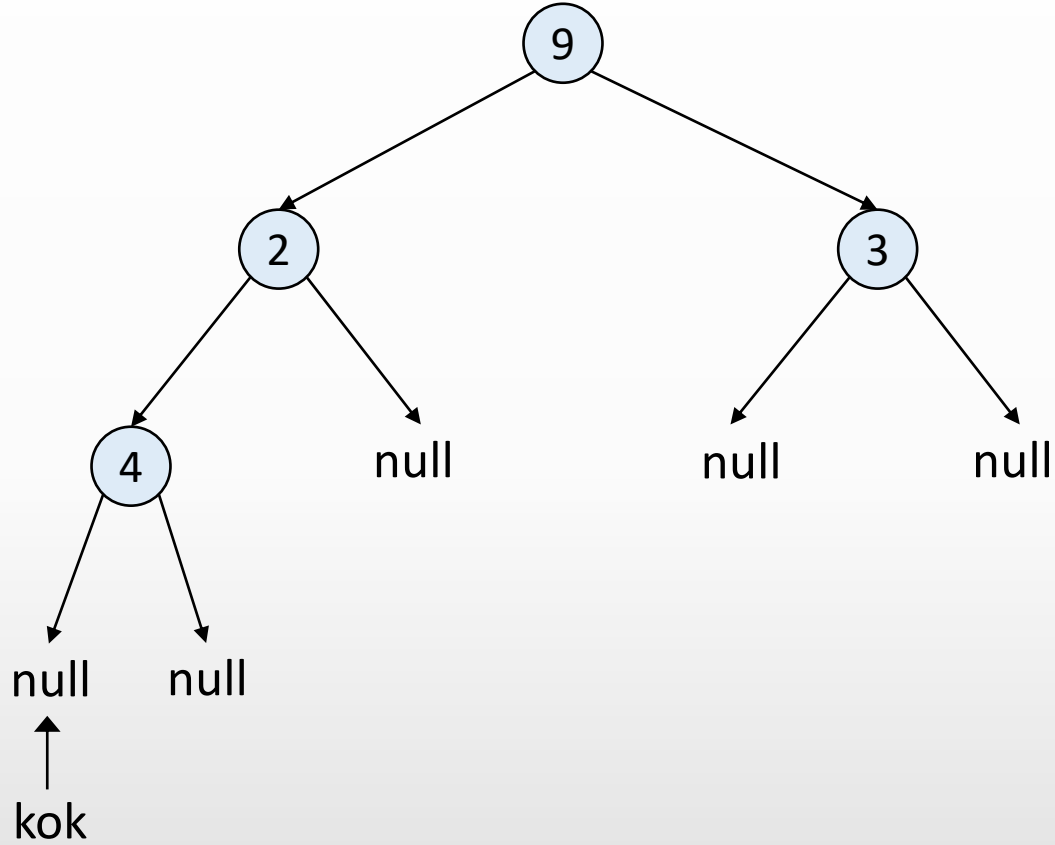
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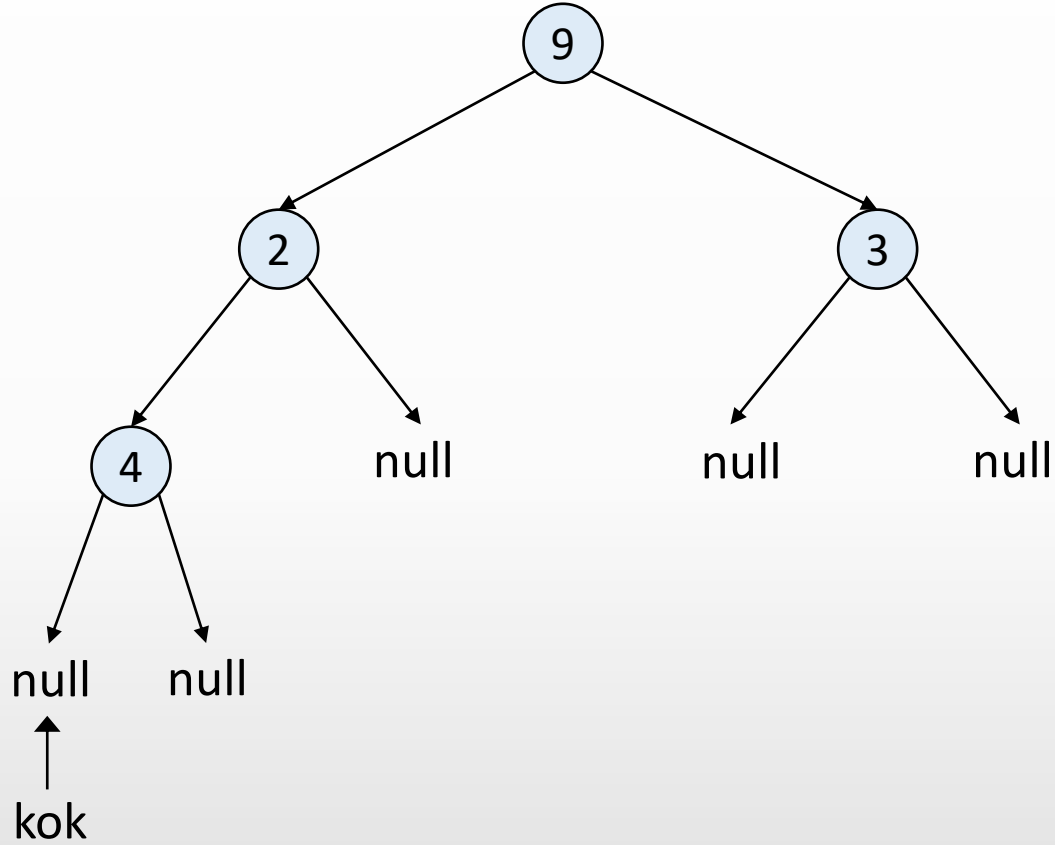
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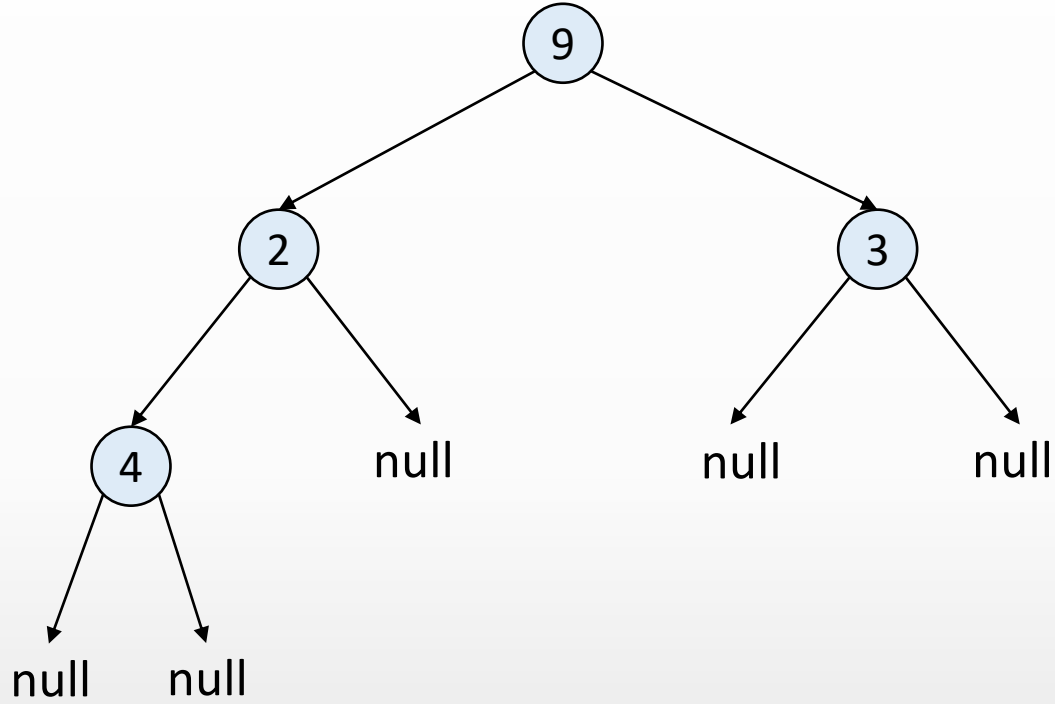
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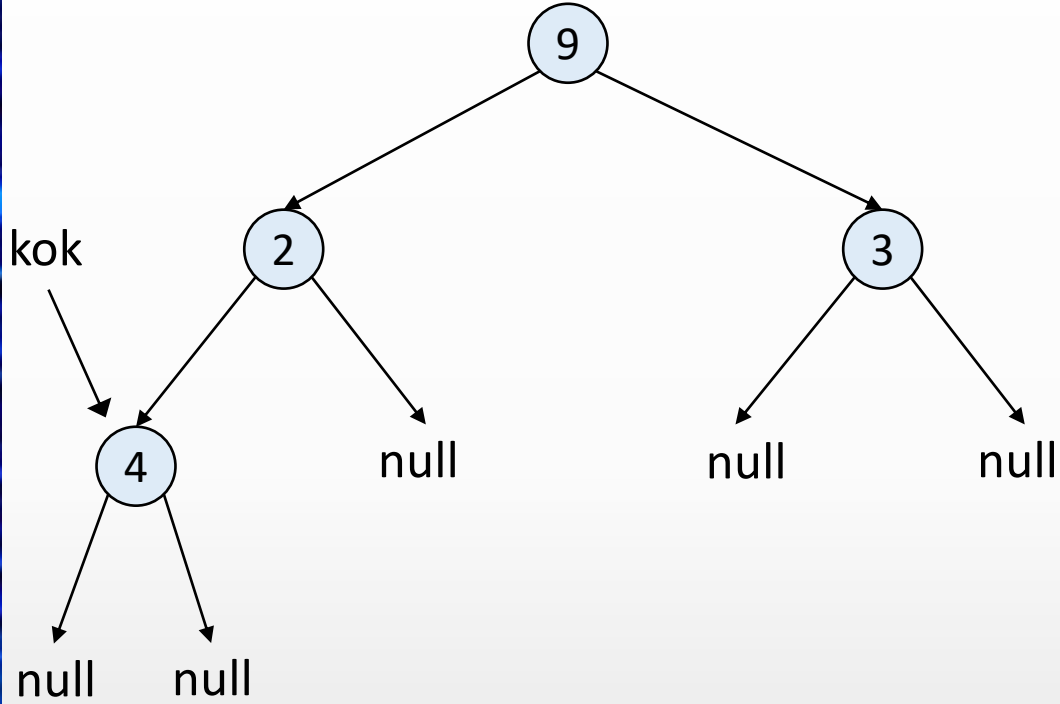
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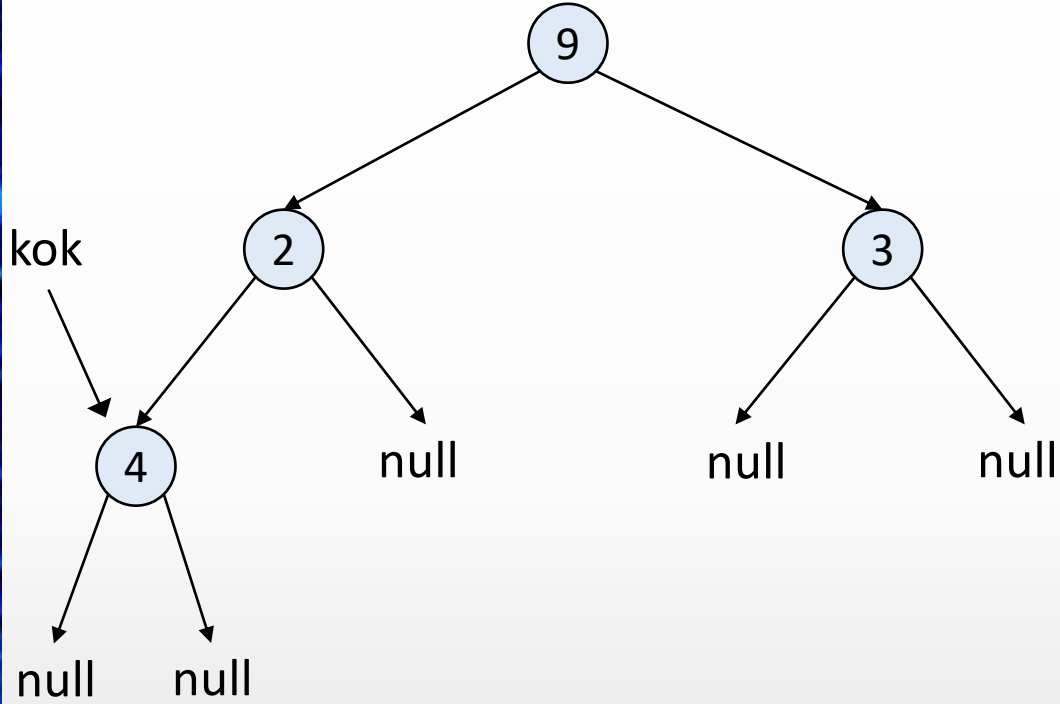
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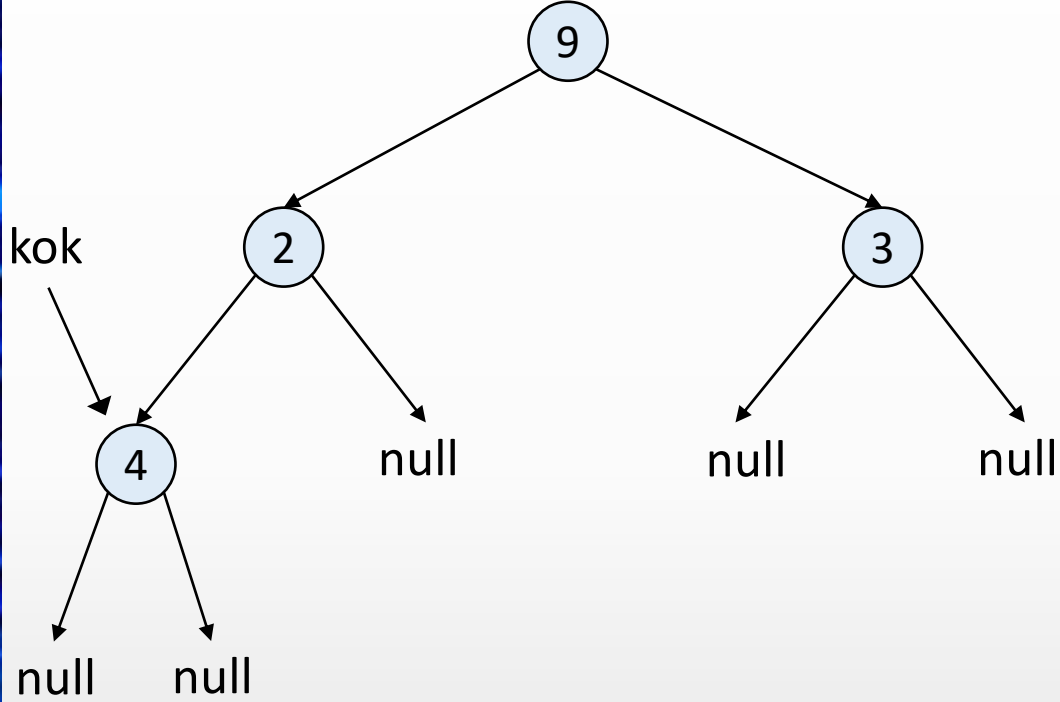
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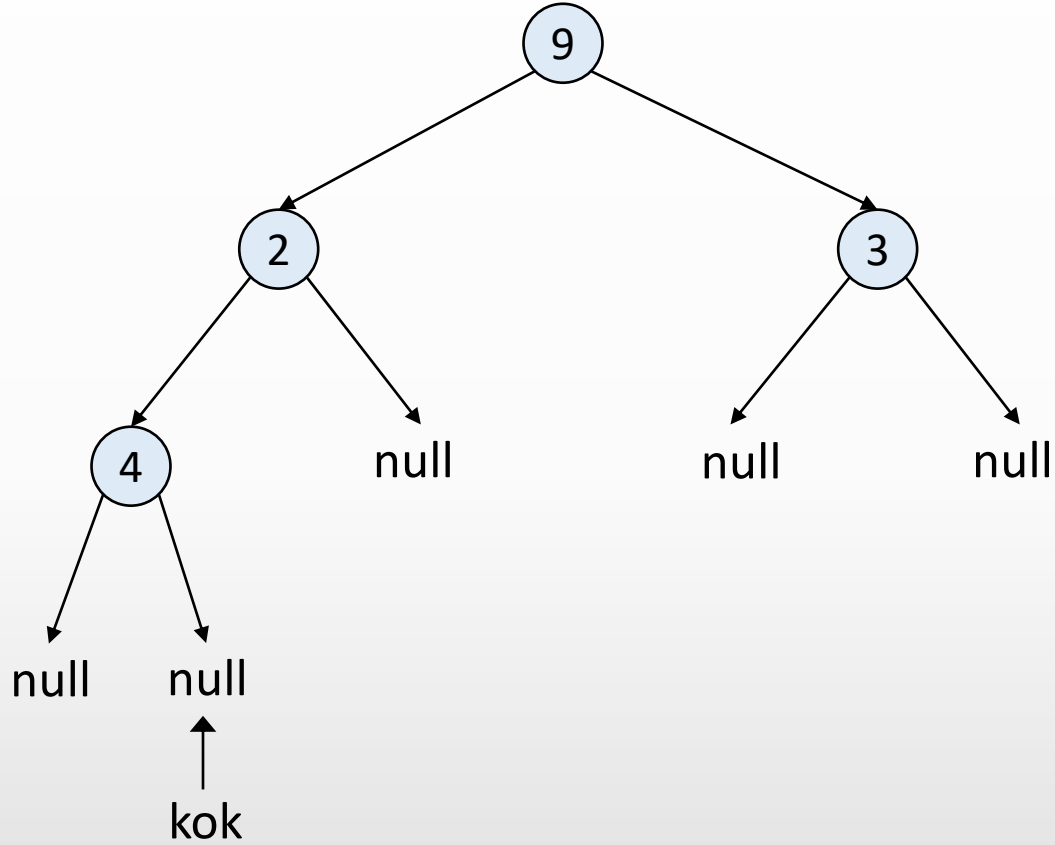
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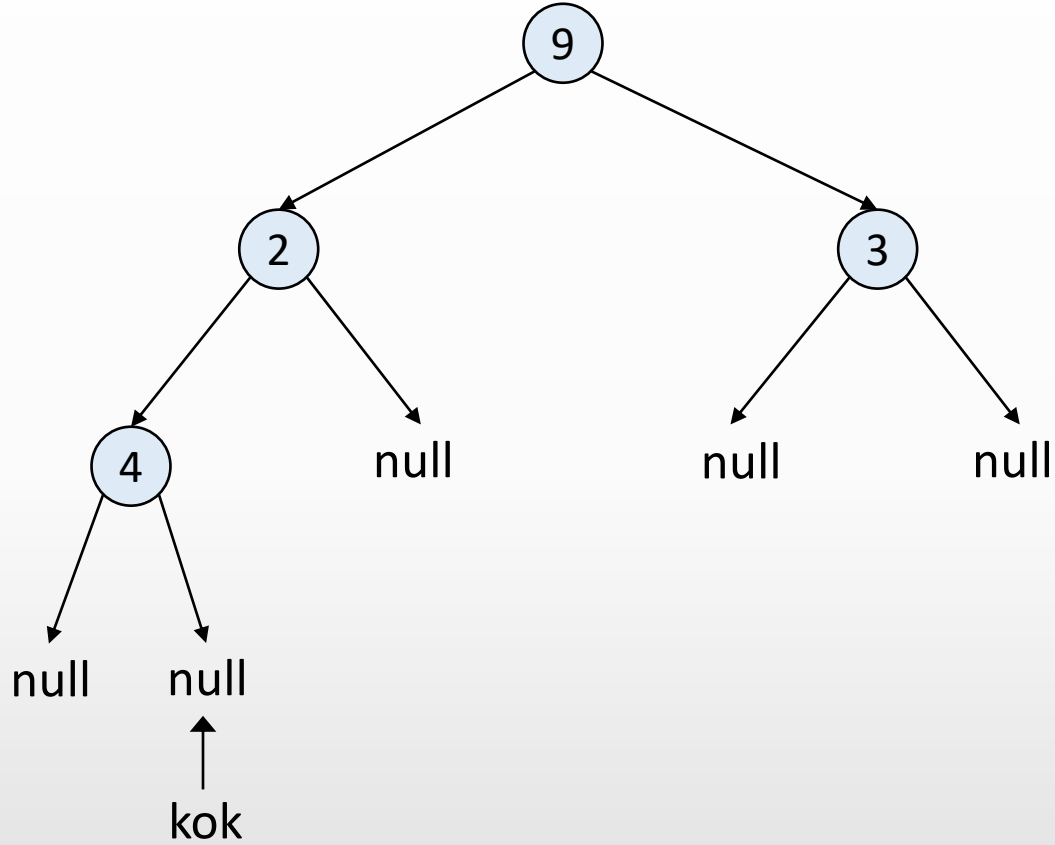
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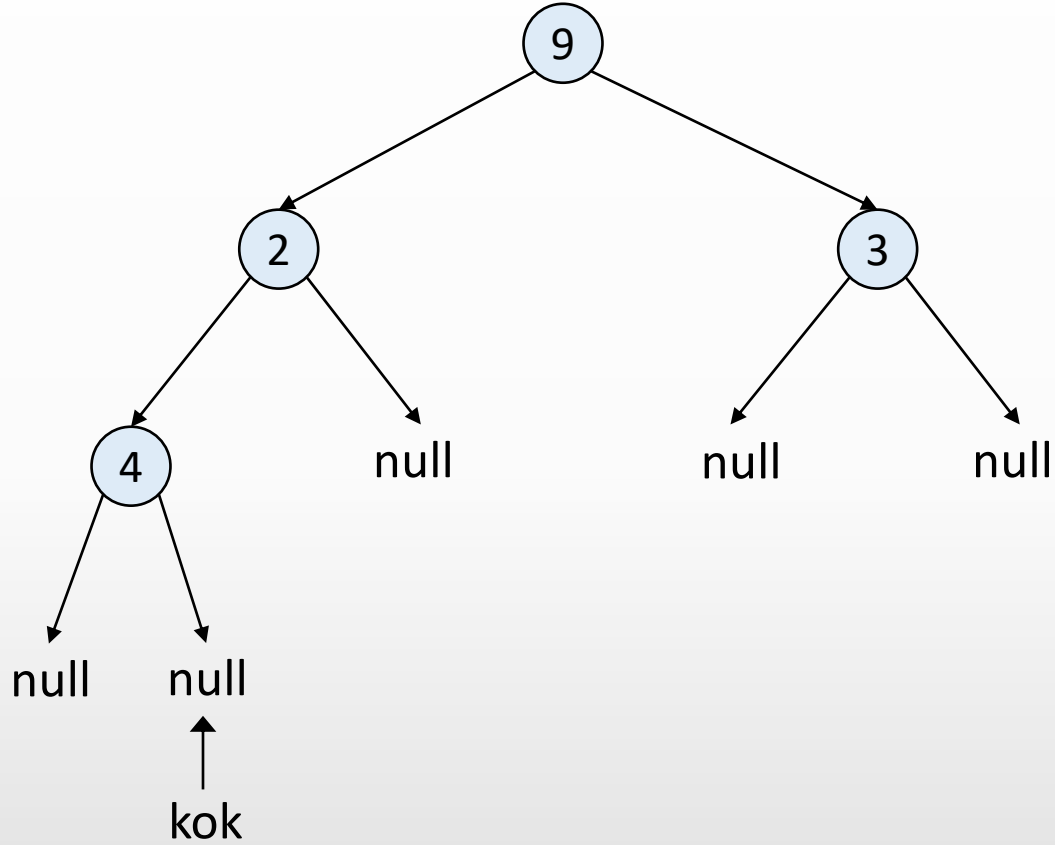
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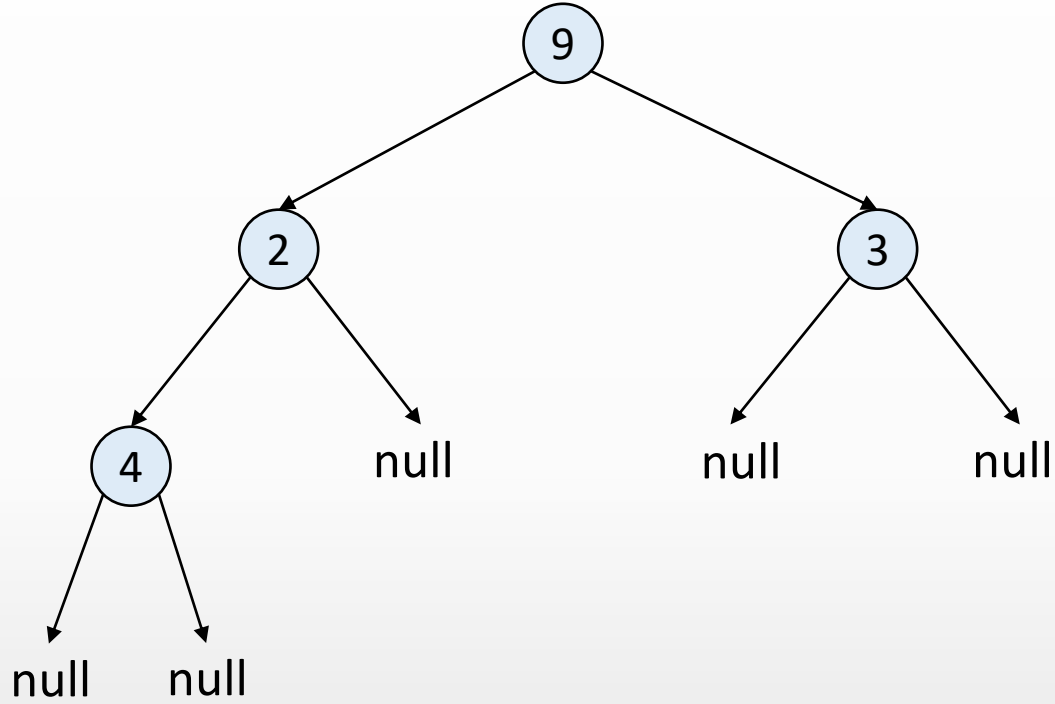
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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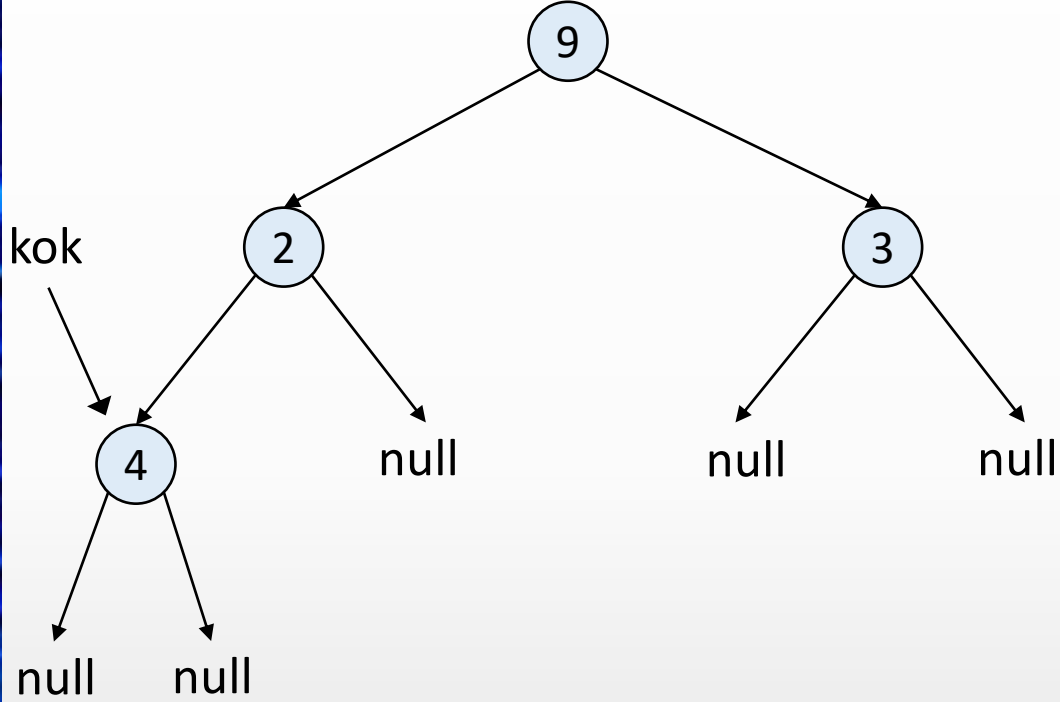
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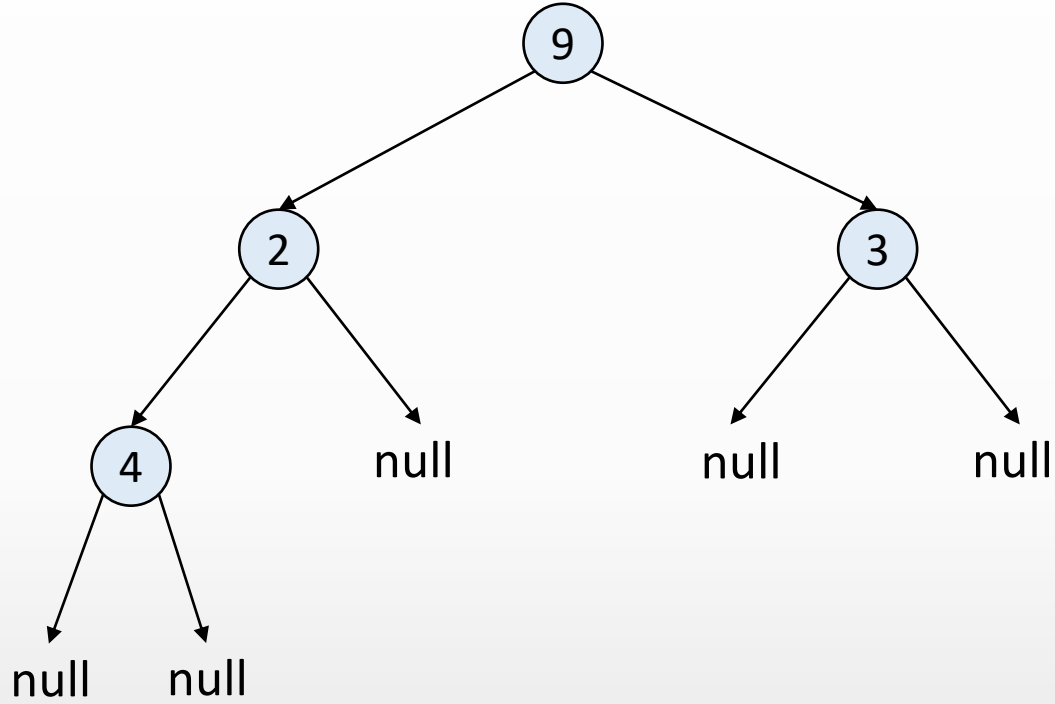
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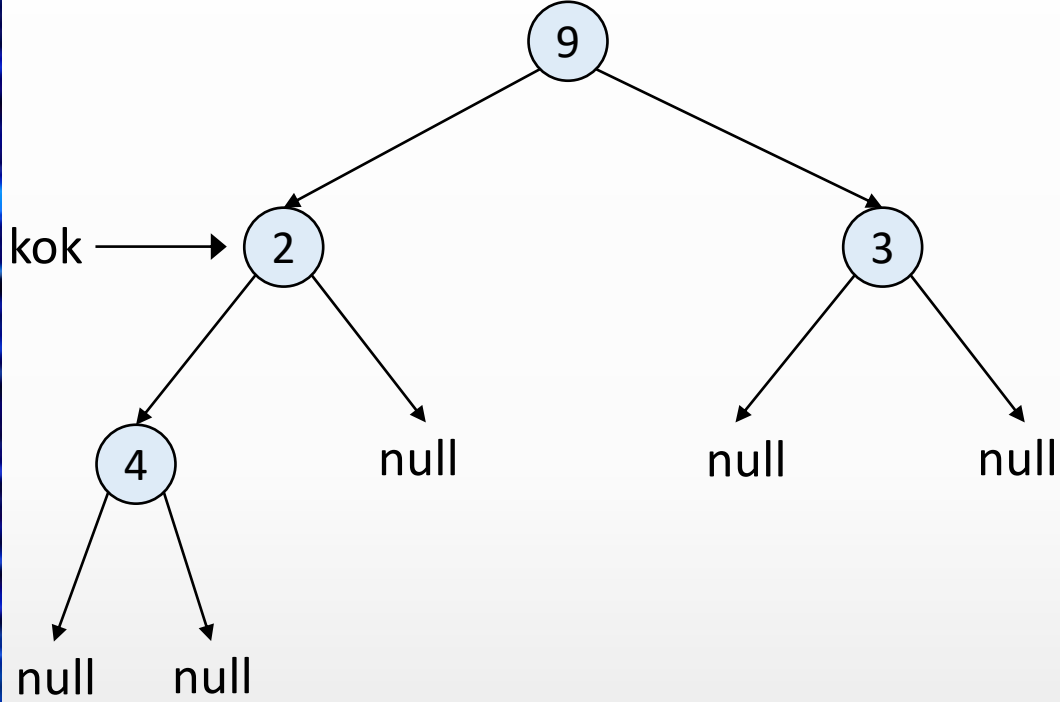
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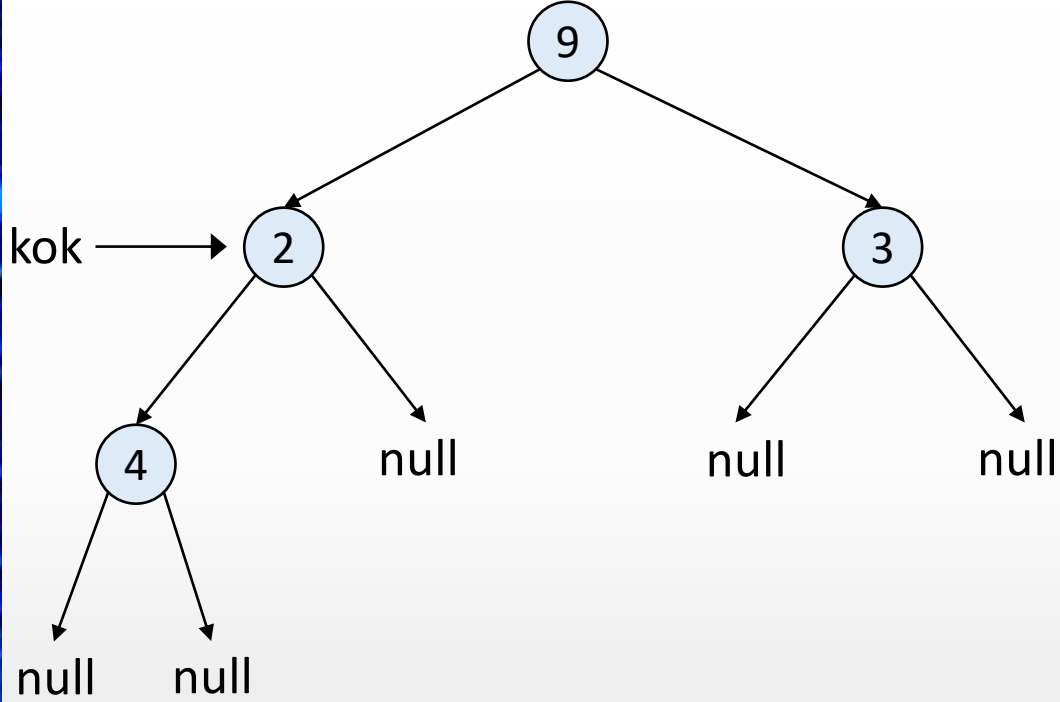
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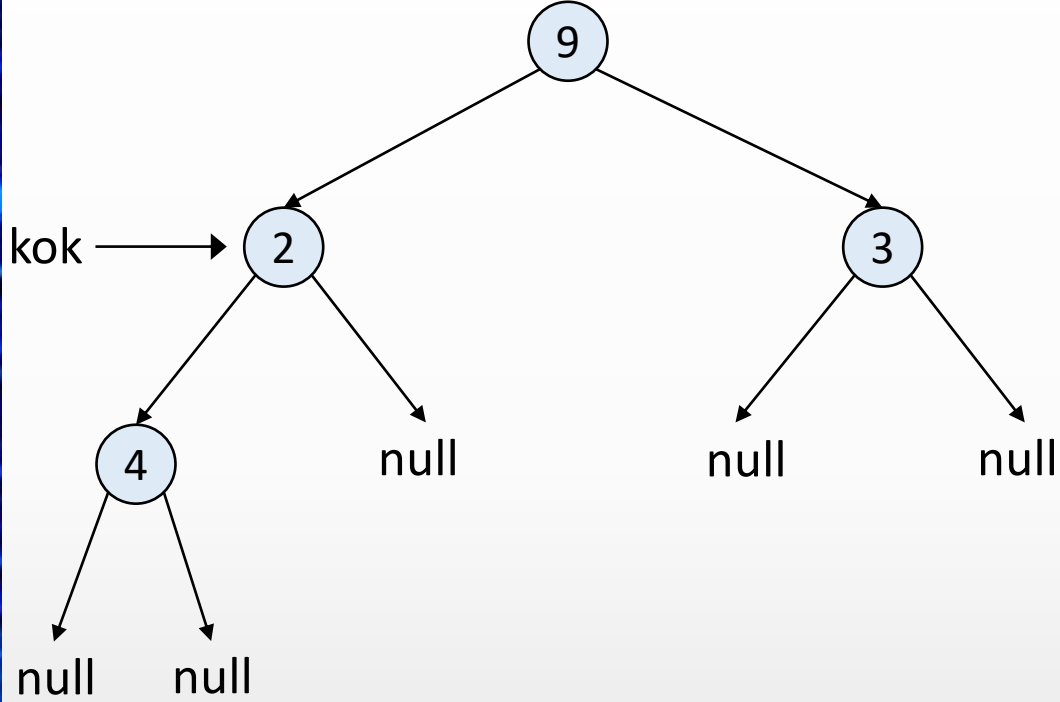
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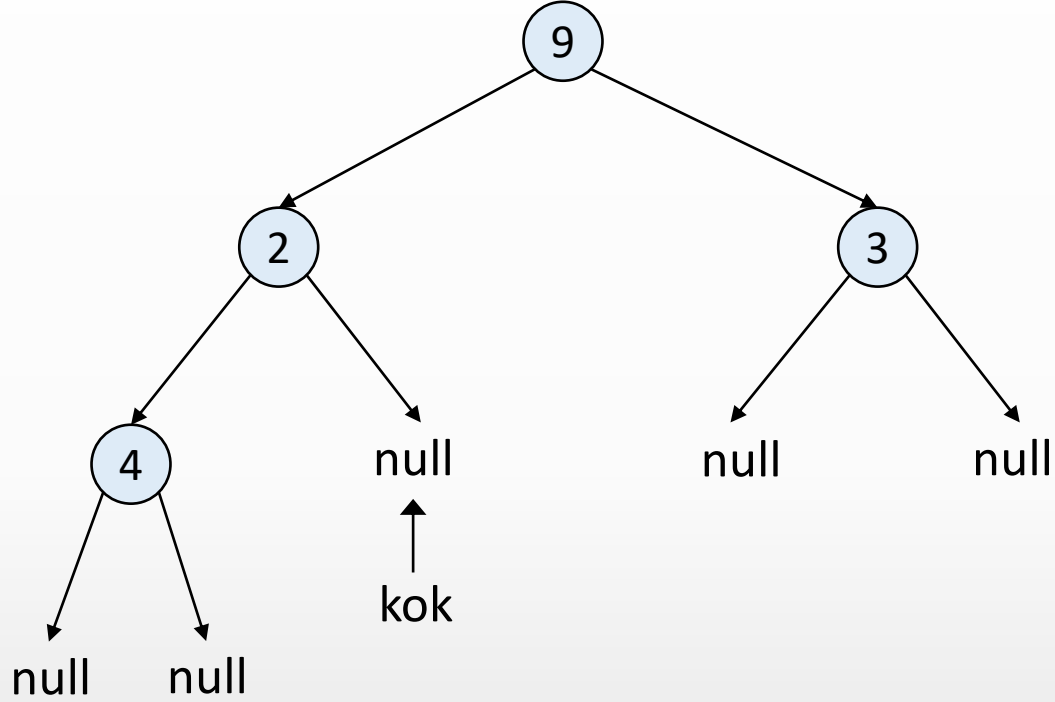
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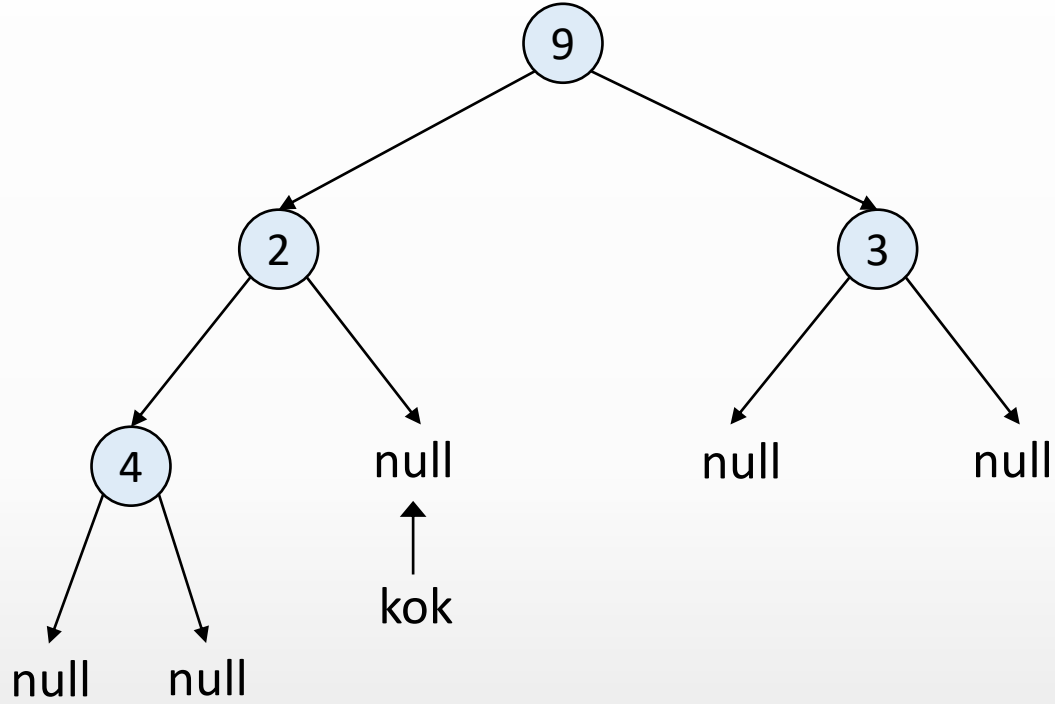
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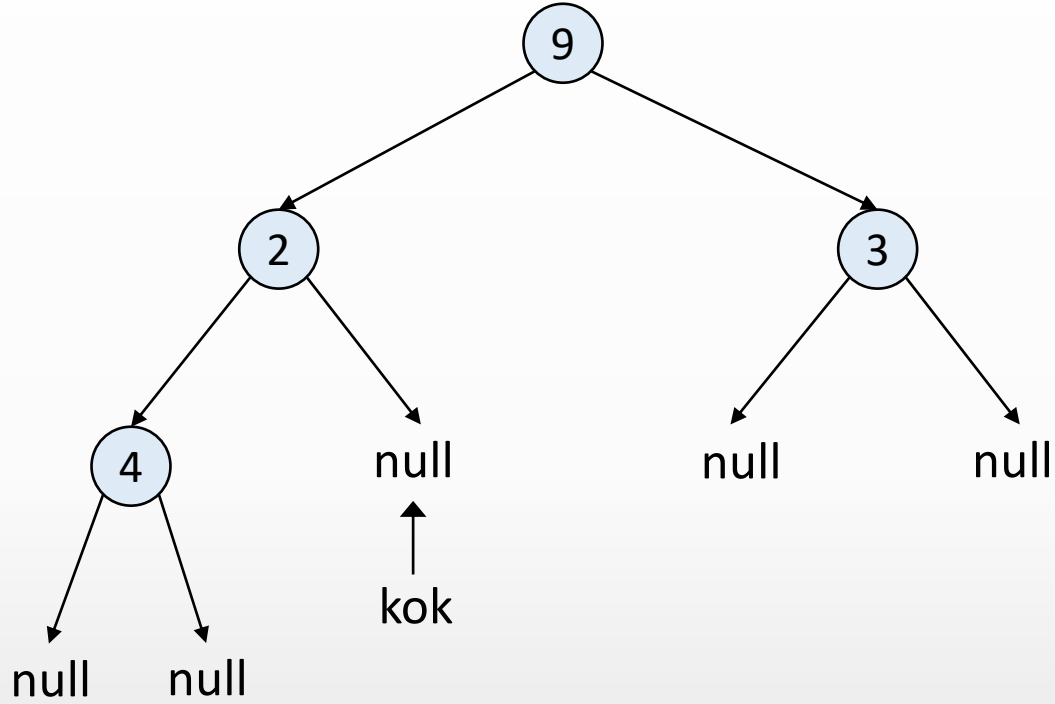
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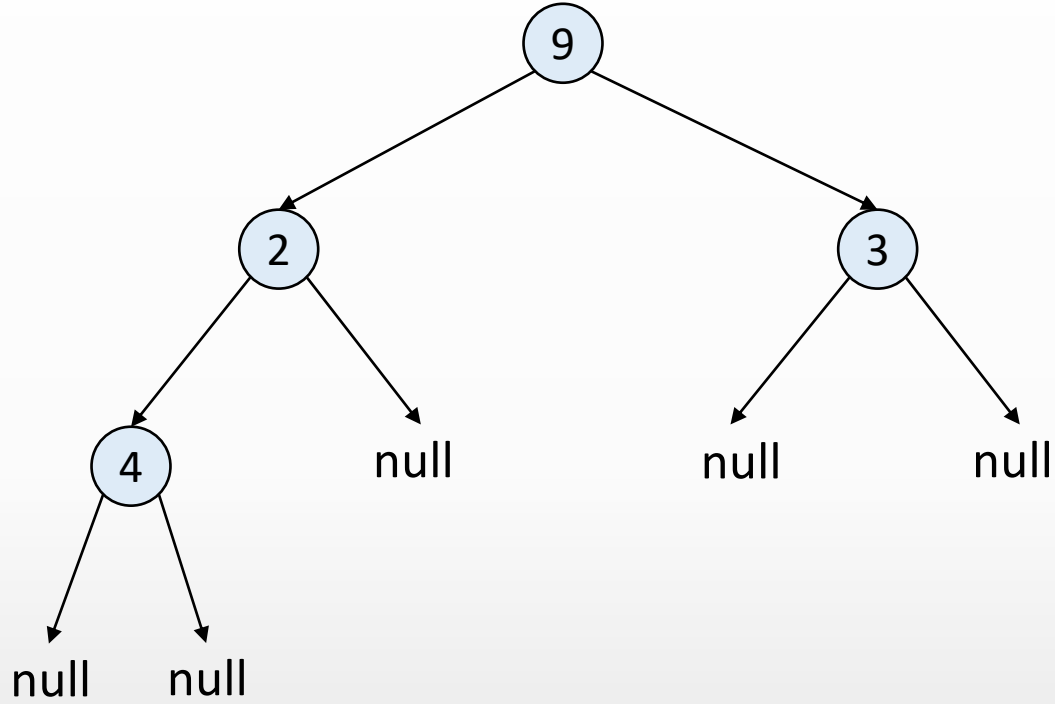
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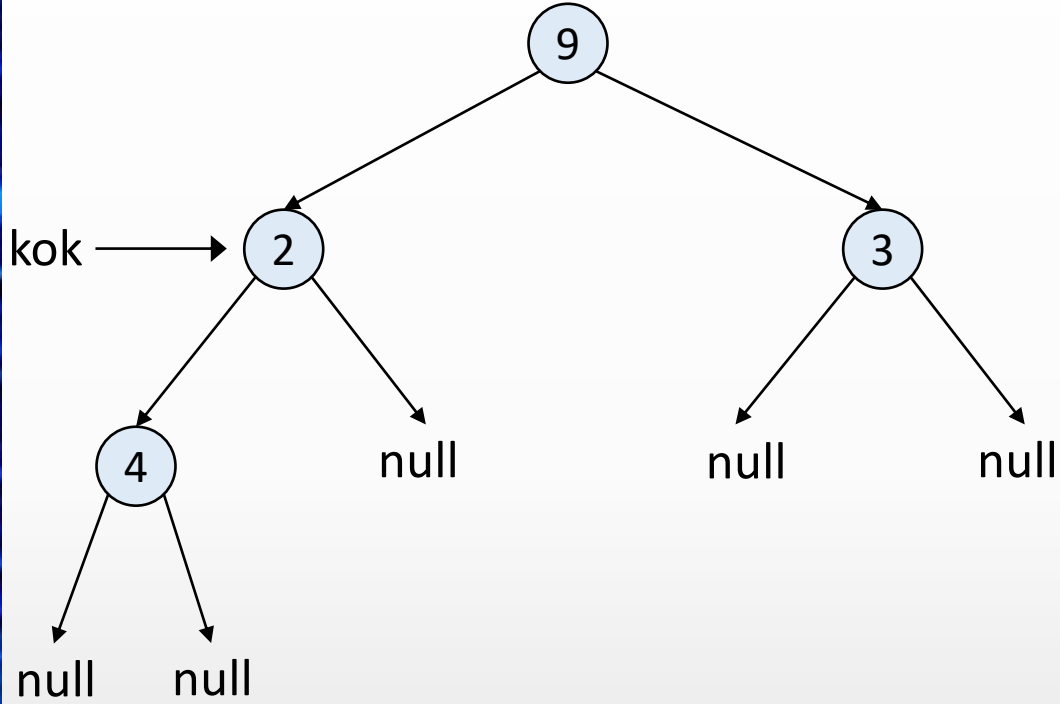
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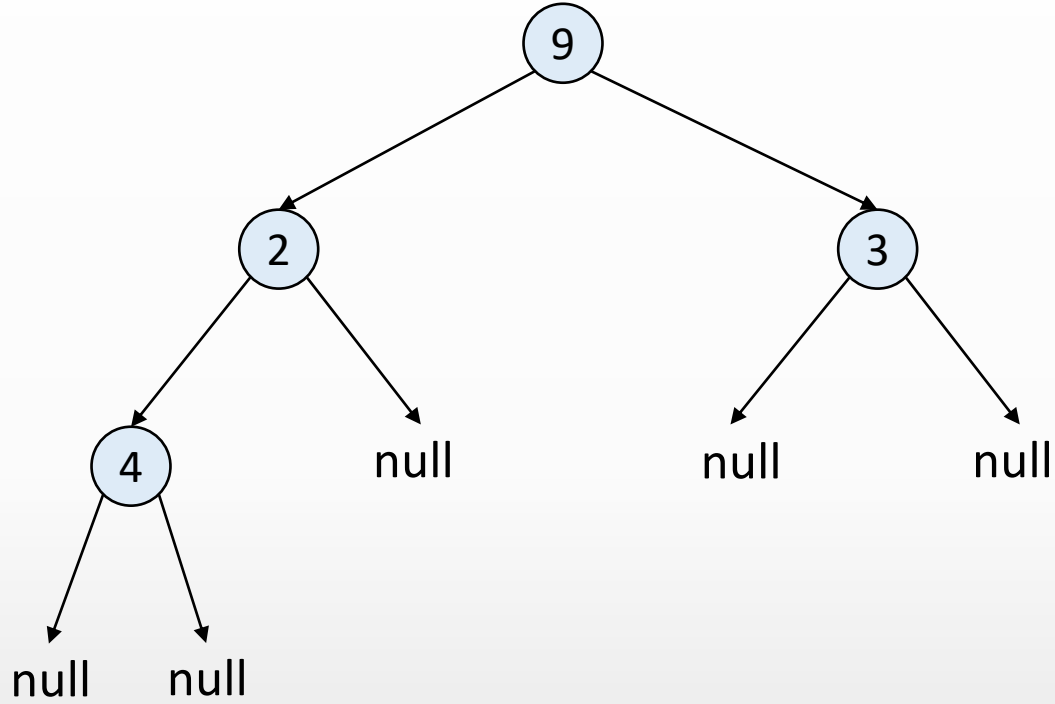
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	5	9



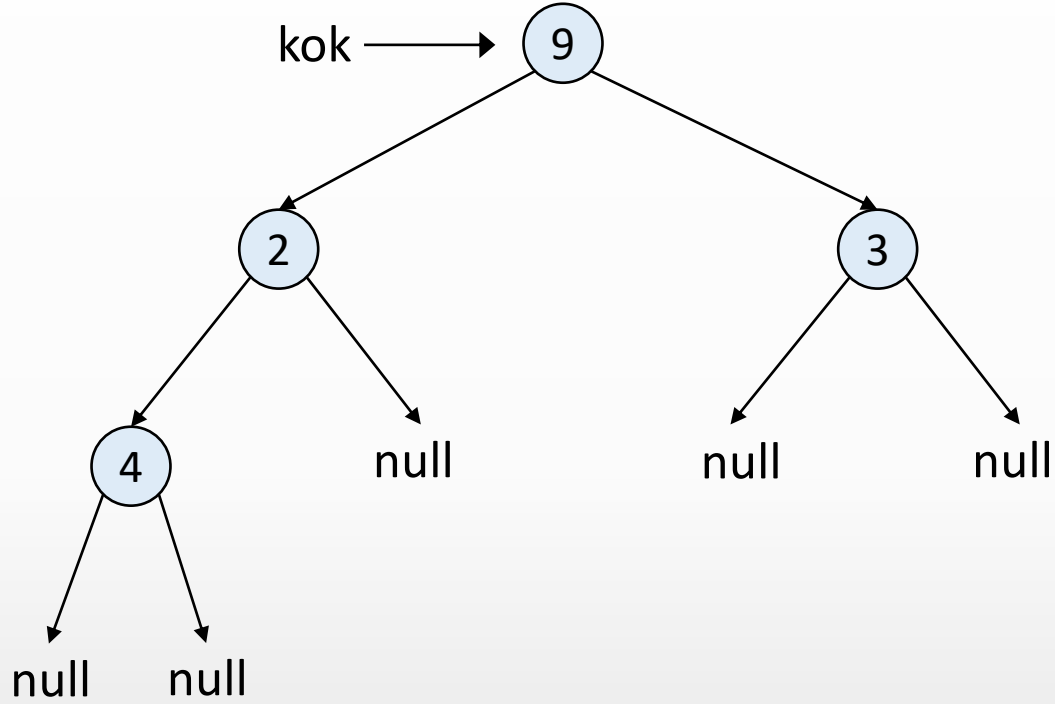
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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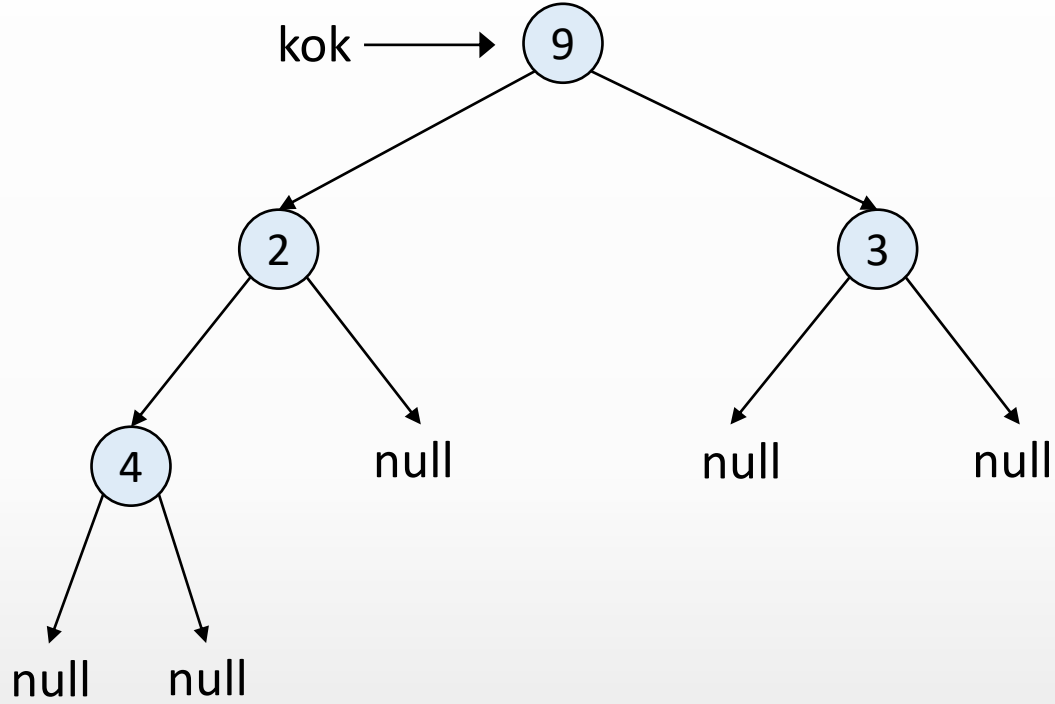
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Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	5	9



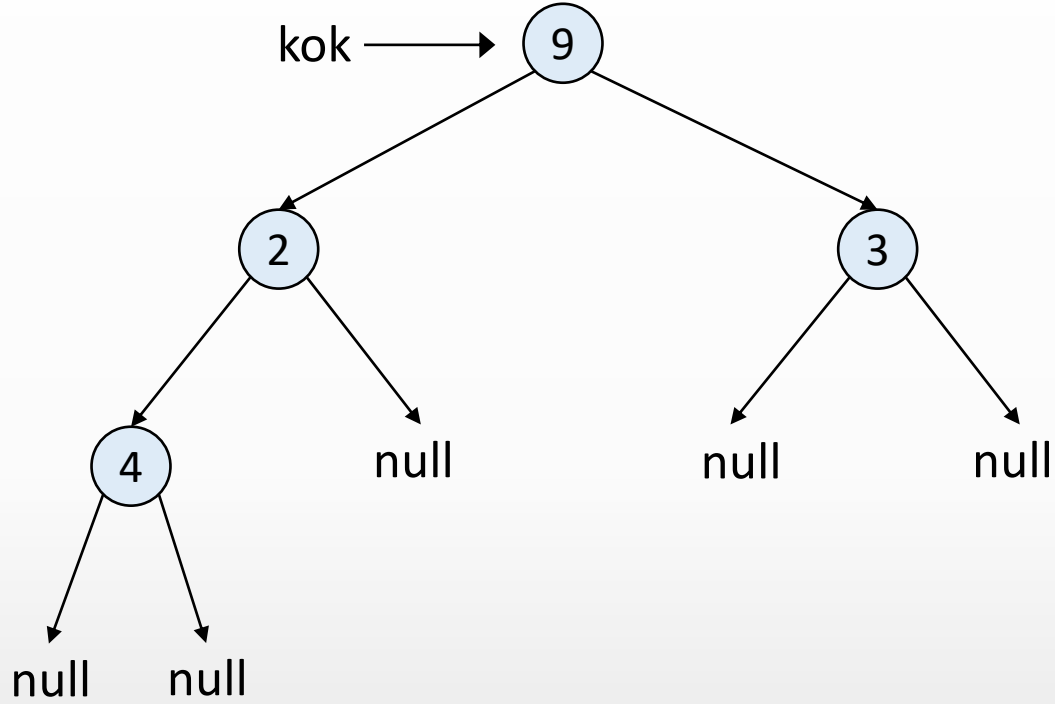
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9



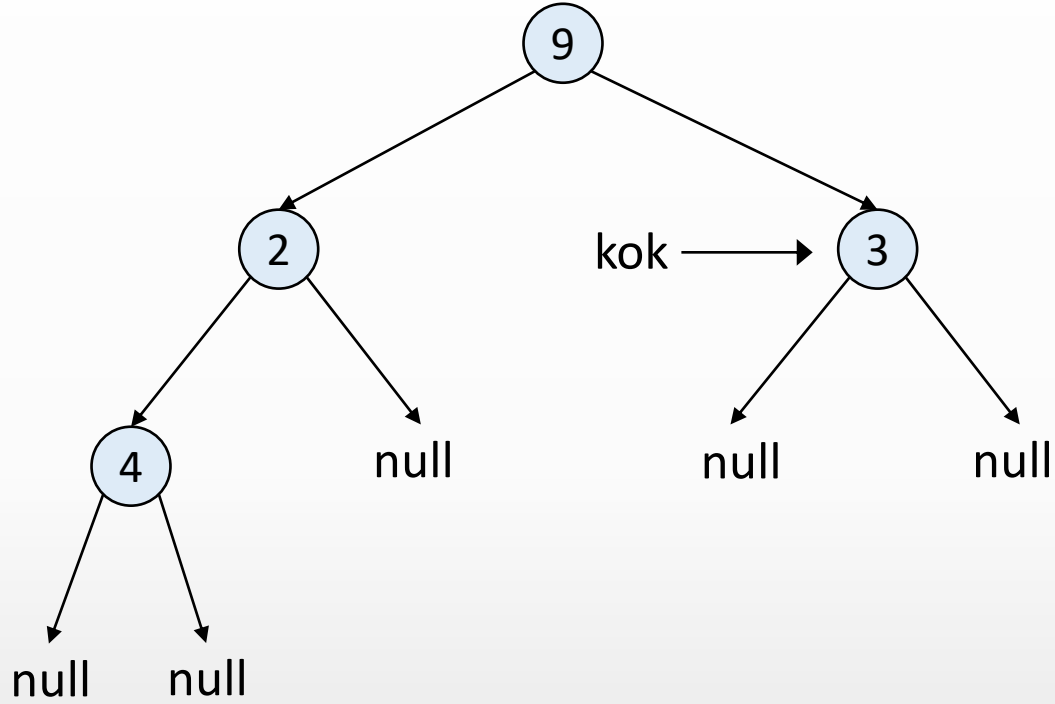
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7     kokOrtada(kok.sag);
8 }
```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()		3



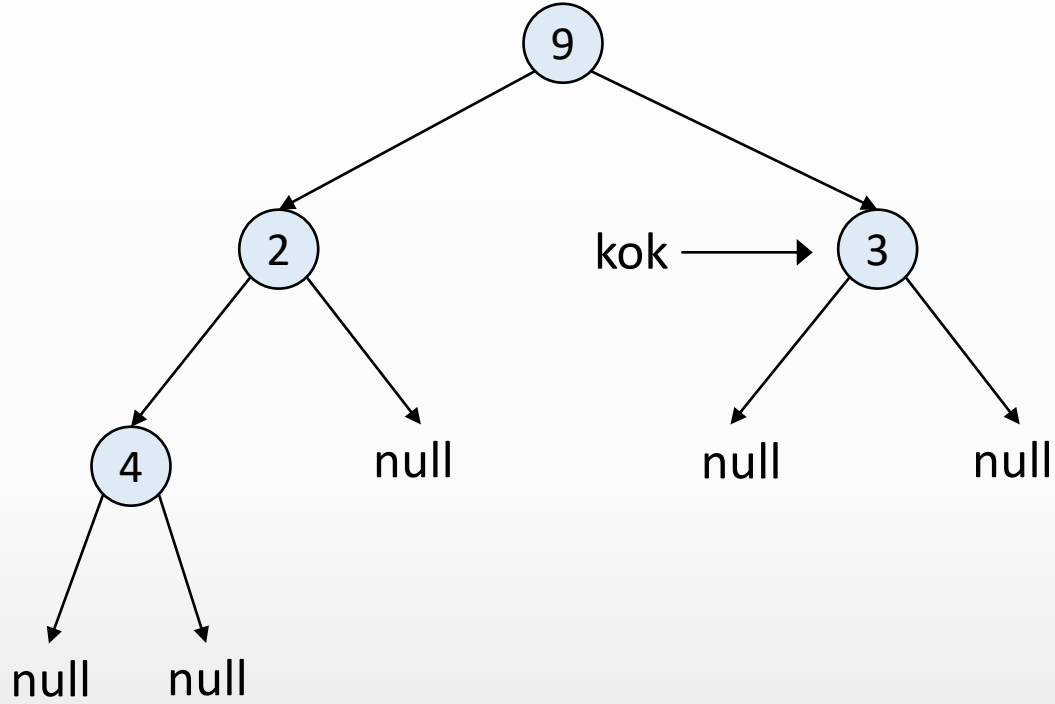
Çıktı: 4 2 9

```
1 public void kokOrtada(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokOrtada(kok.sol);
6     System.out.print(kok.veri + " ");
7     kokOrtada(kok.sag);
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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Çıktı: 4 2 9

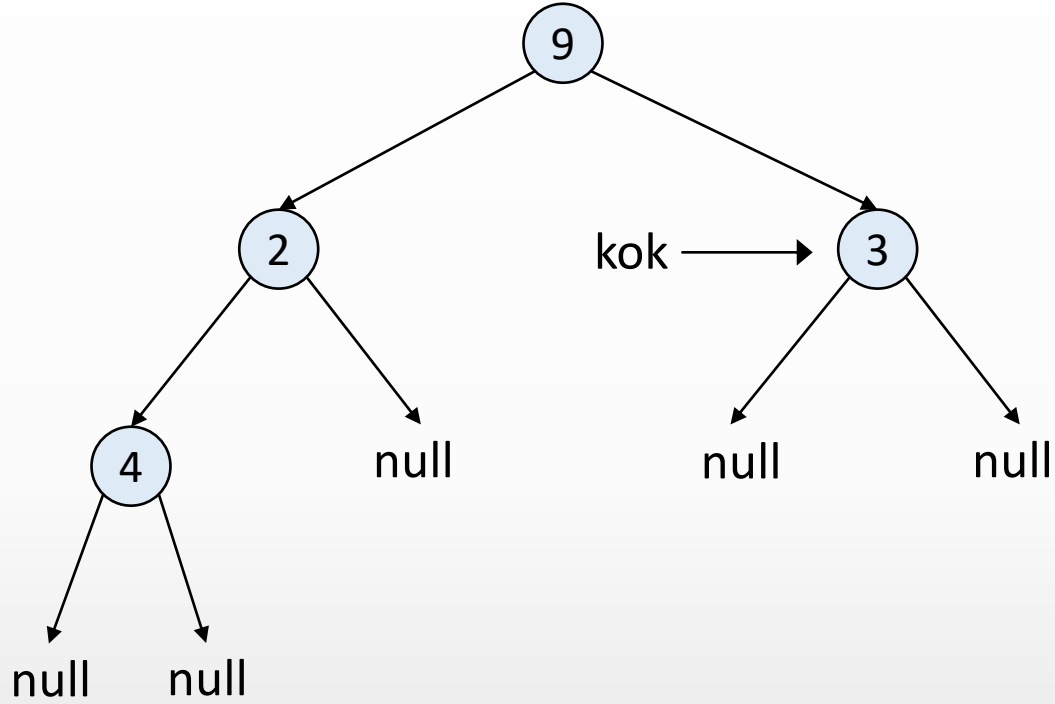


```
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5     kokOrtada(kok.sol);
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8 }
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3



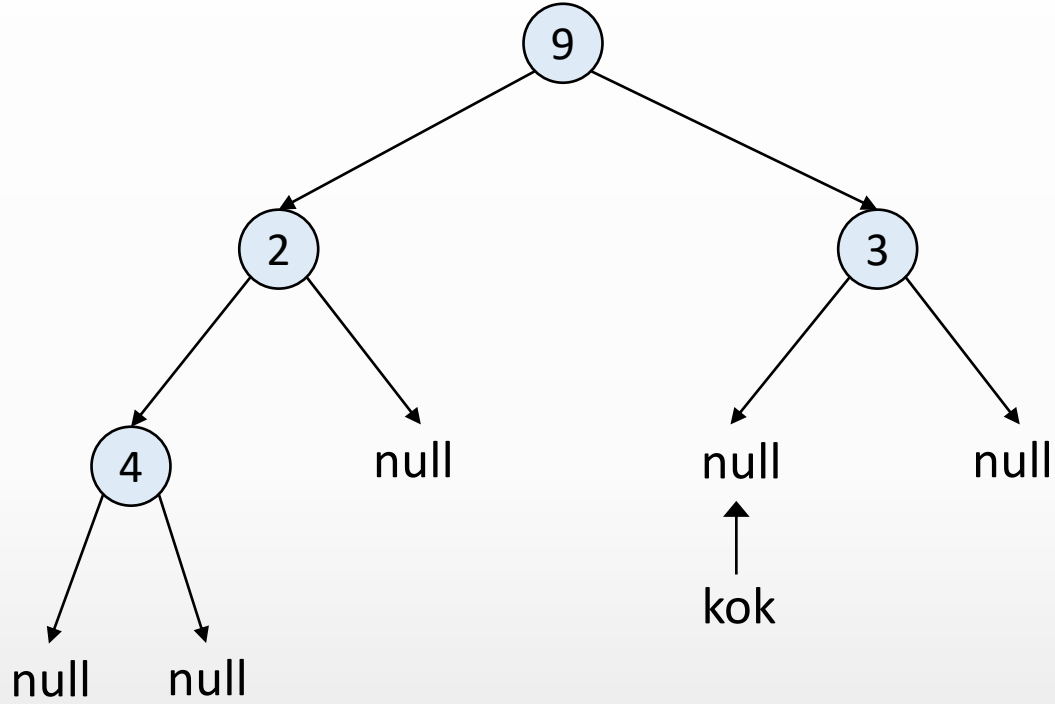
Çıktı: 4 2 9

```
1 public void kokOrtada(AgacDugumu kok) {
2     if(kok == null) {
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5     kokOrtada(kok.sol);
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```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
kokOrtada()		null



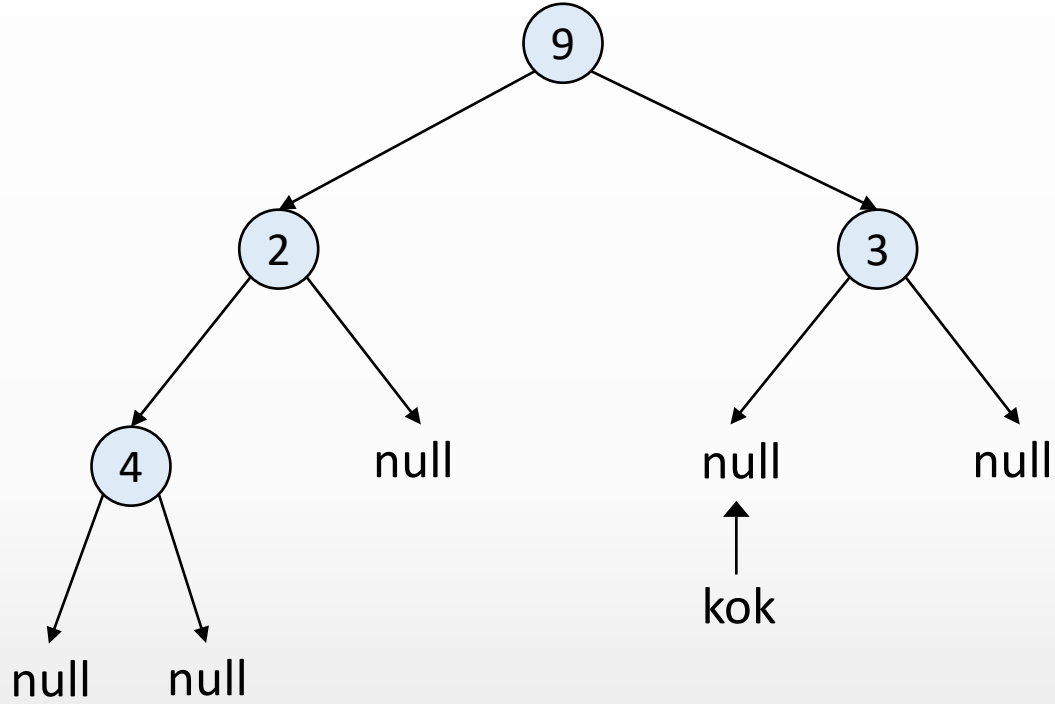
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Çıktı: 4 2 9

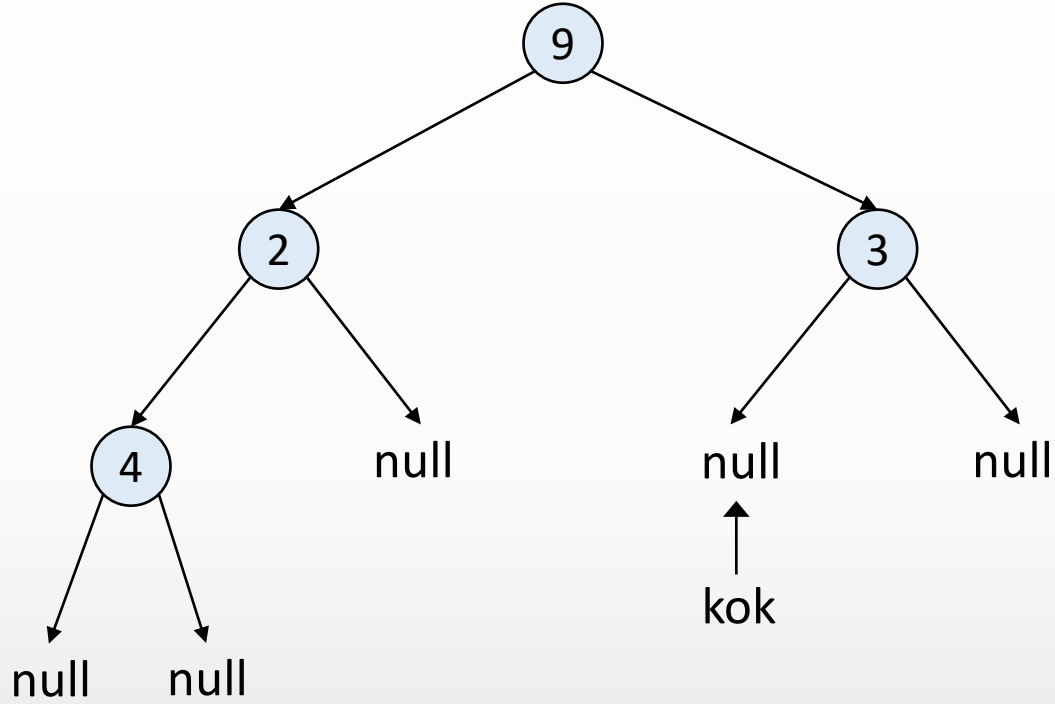


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Metot Çağırımı	Satır Numarası	Kök
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Çıktı: 4 2 9

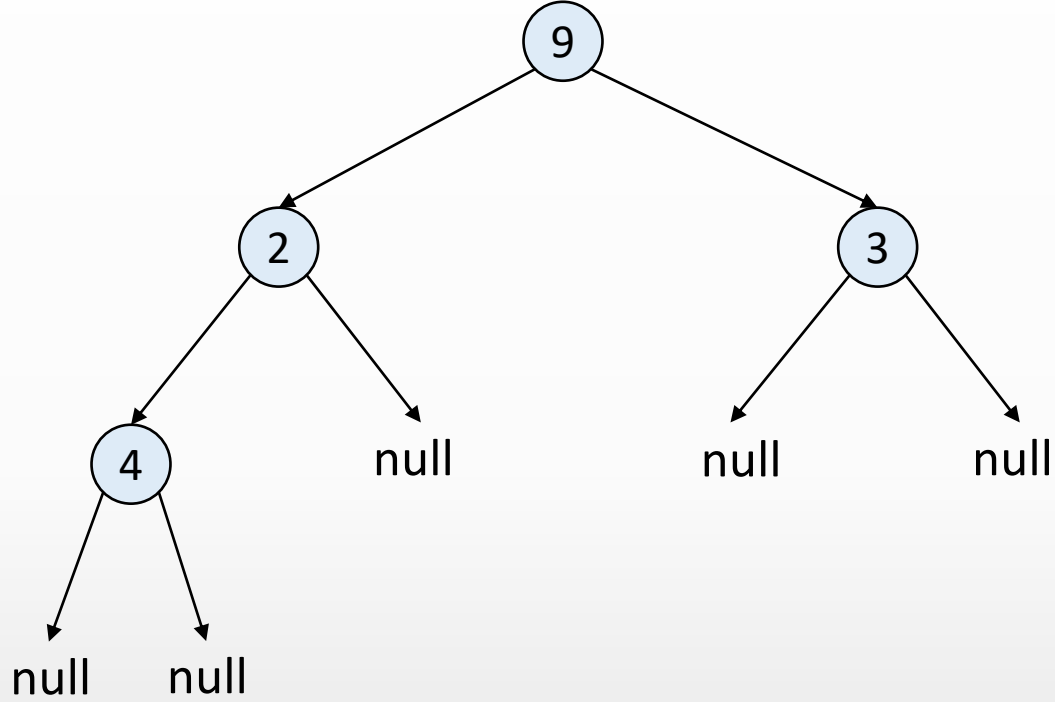


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Çağırma Yiğiti (Call Stack)

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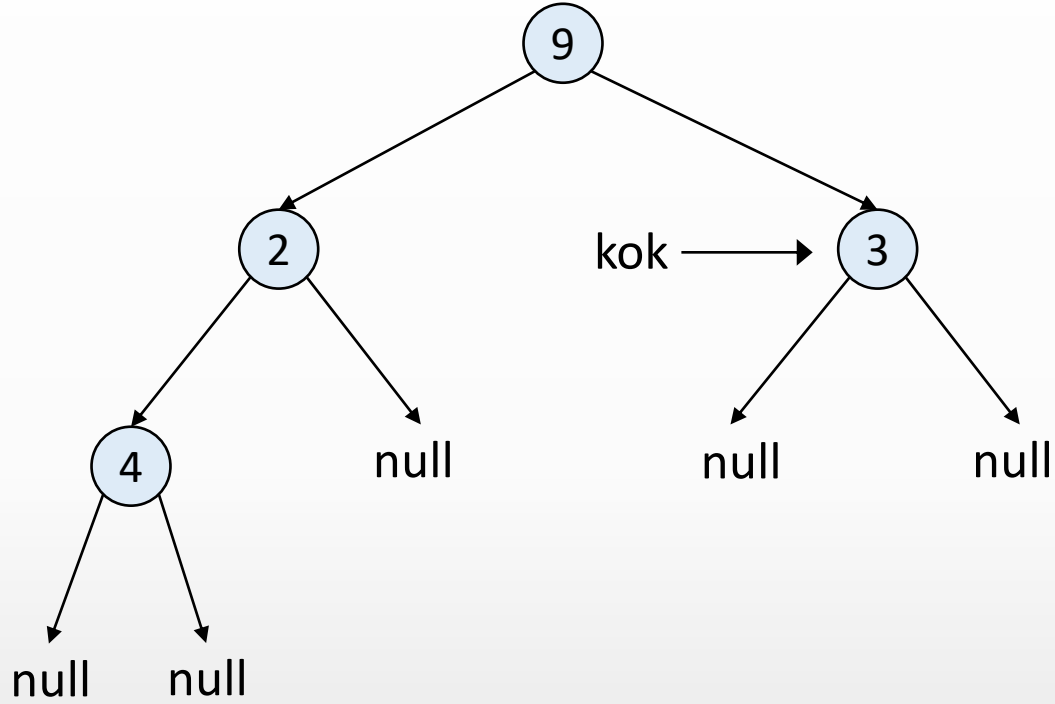
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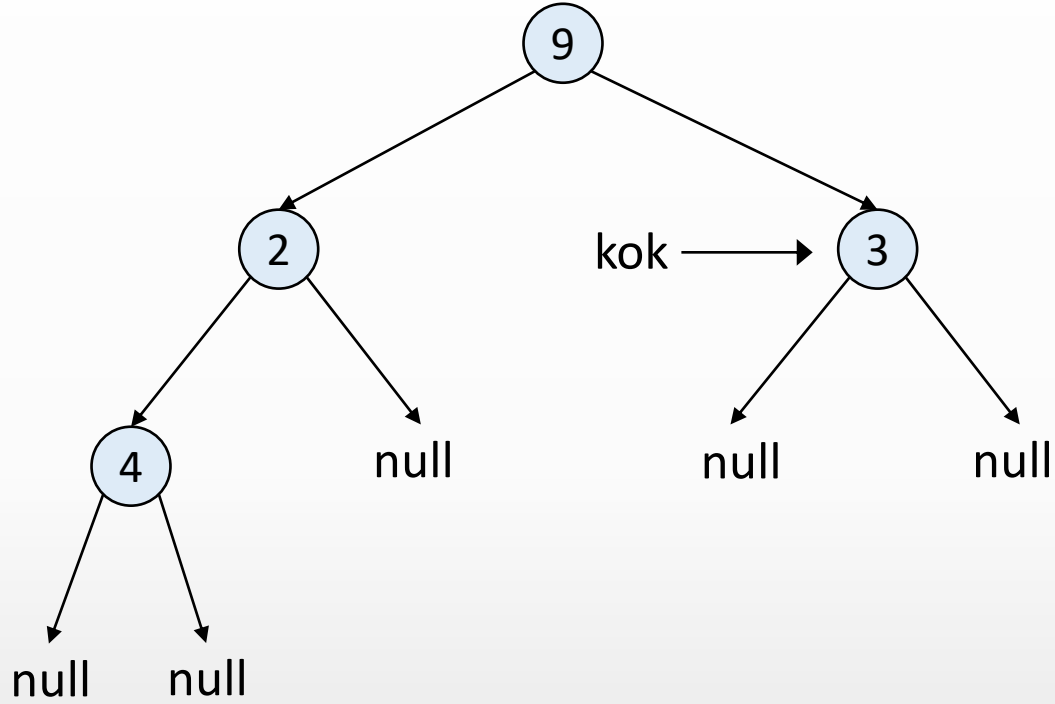
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Çağırma Yiğiti (Call Stack)

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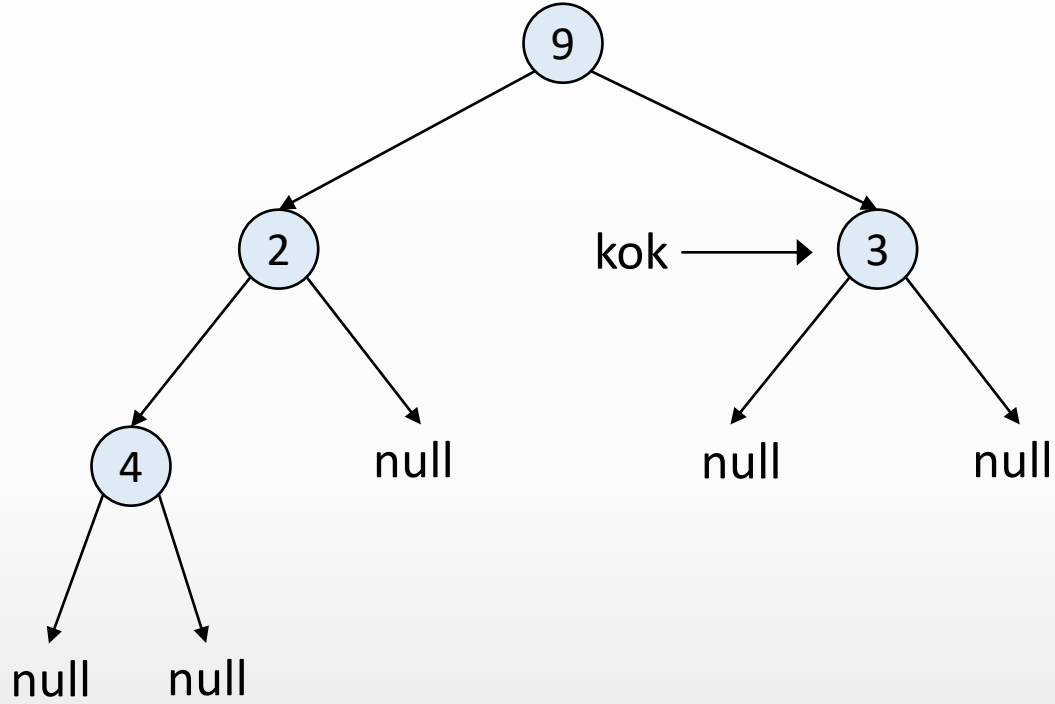
Çıktı: 4 2 9 3

```
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
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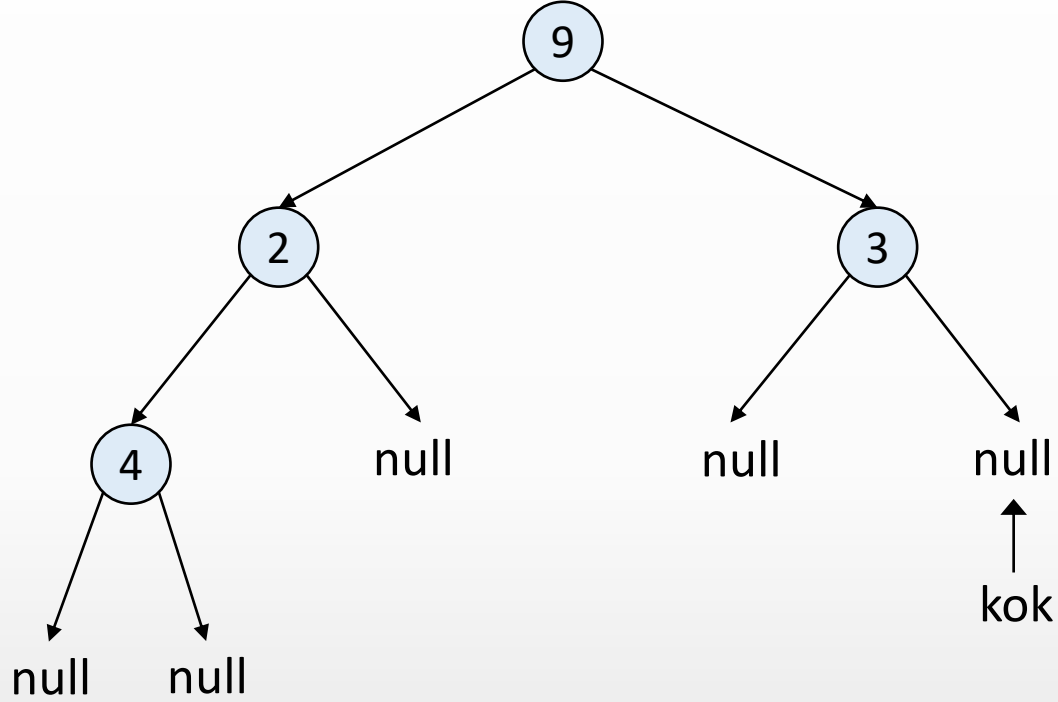
Çıktı: 4 2 9 3

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2     if(kok == null) {
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4     }
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8 }
```



Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	7	3
kokOrtada()		null

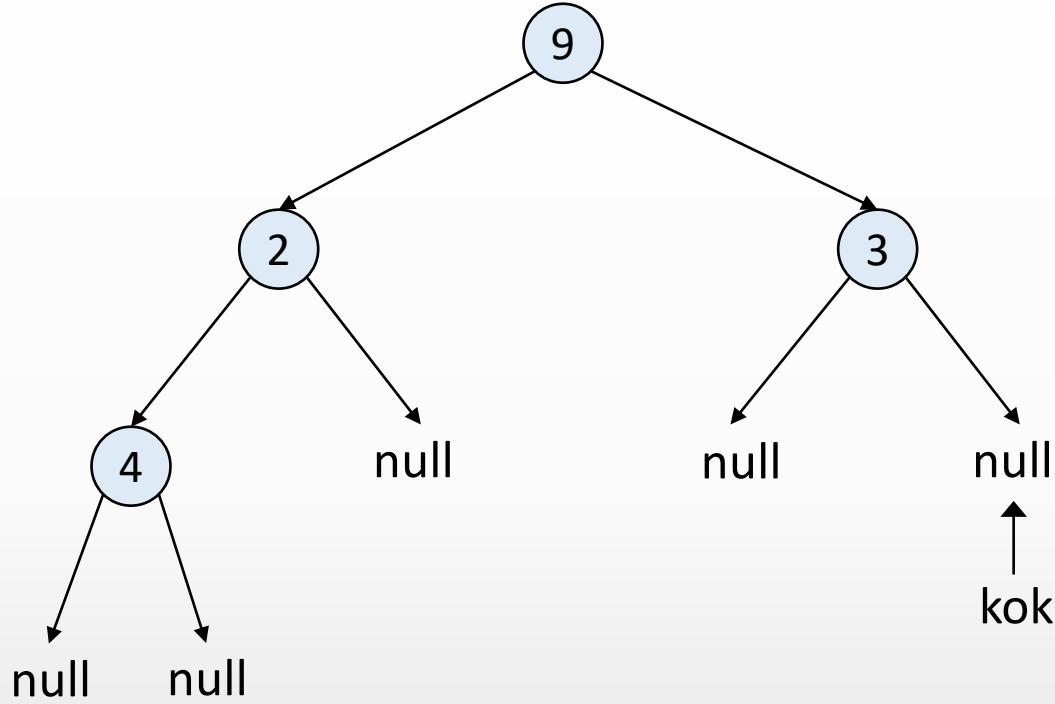


```
1 public void kokOrtada(AgacDugumu kok) {
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4     }
5     kokOrtada(kok.sol);
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```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
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kokOrtada()		null

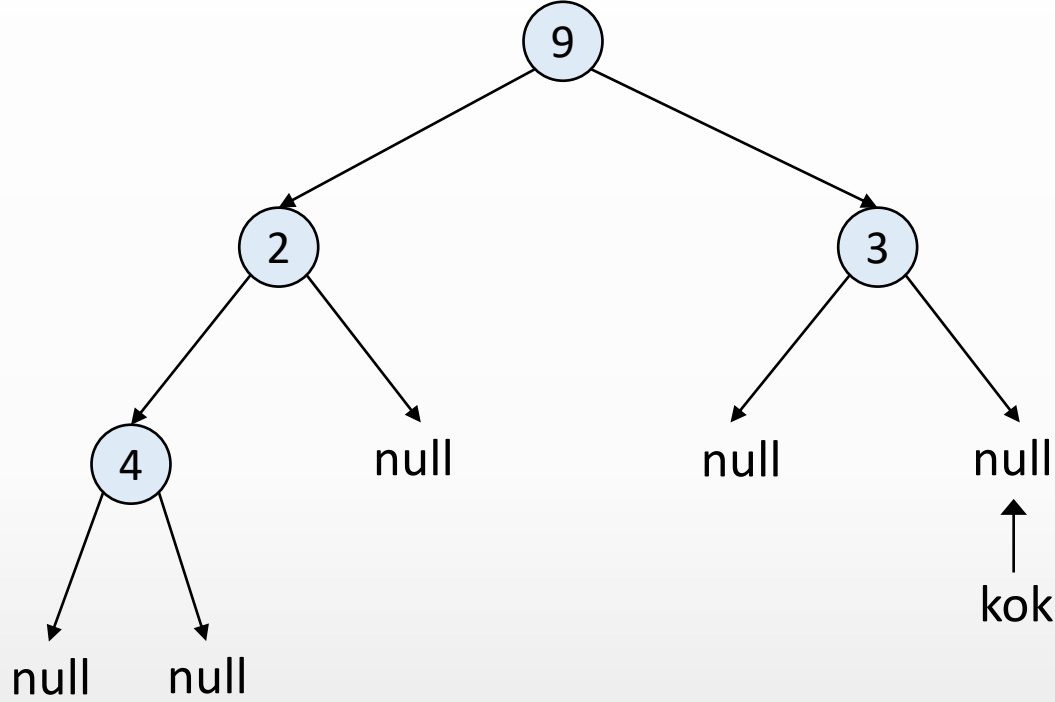


```
1 public void kokOrtada(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokOrtada(kok.sol);
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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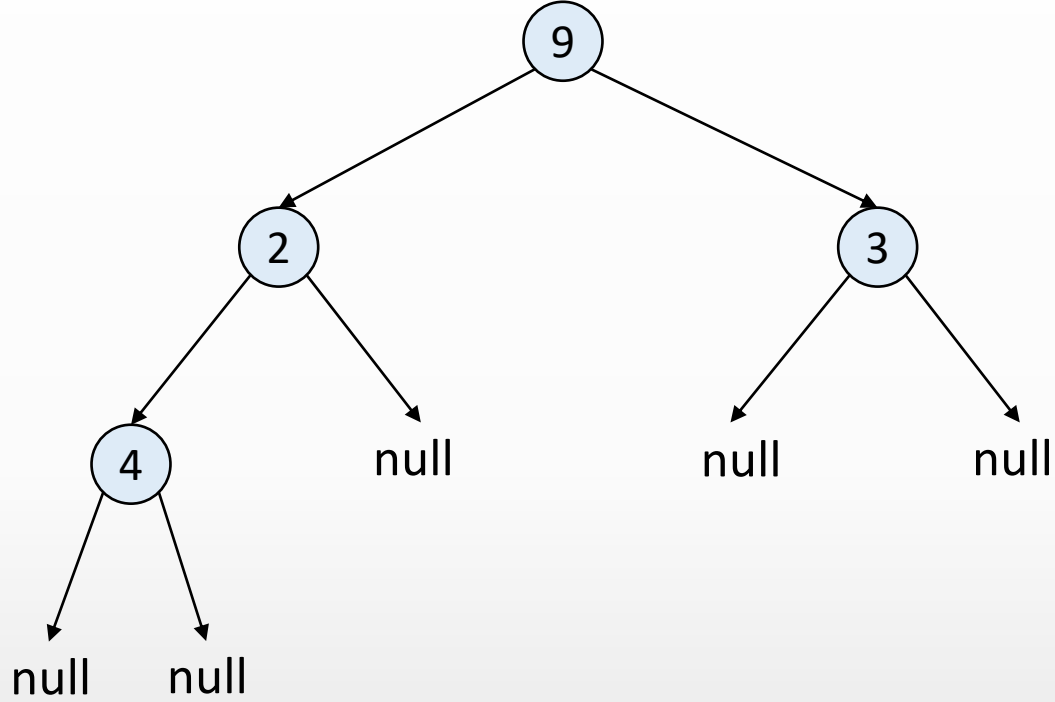
Çıktı: 4 2 9 3

```
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	7	3



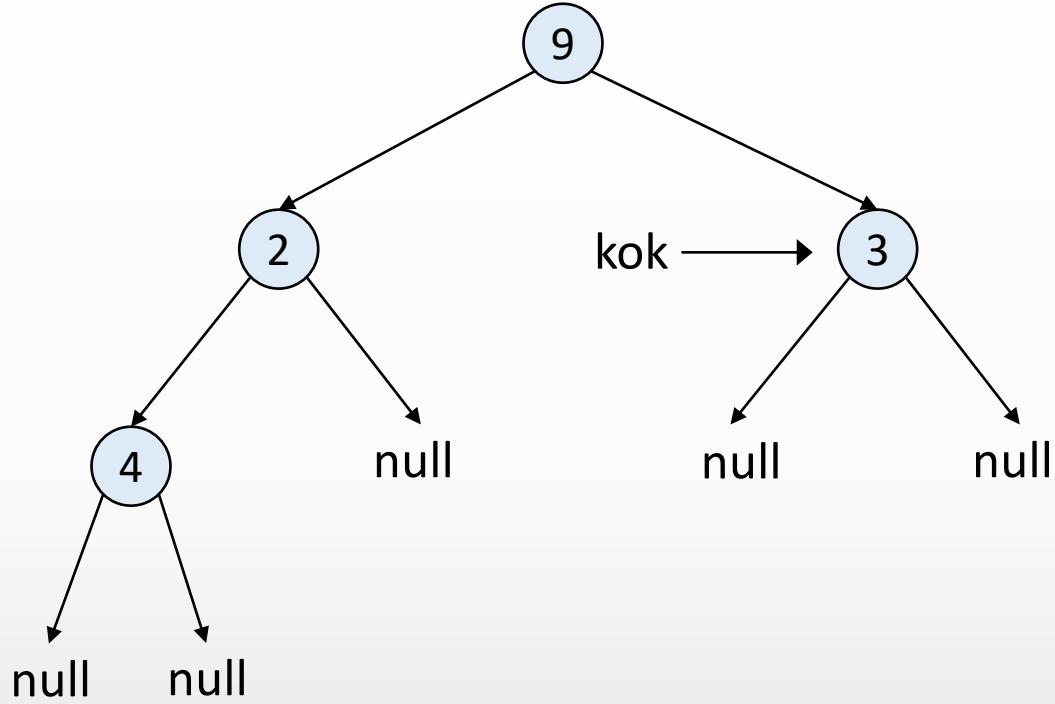
Çıktı: 4 2 9 3

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1 public void kokOrtada(AgacDugumu kok) {
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9
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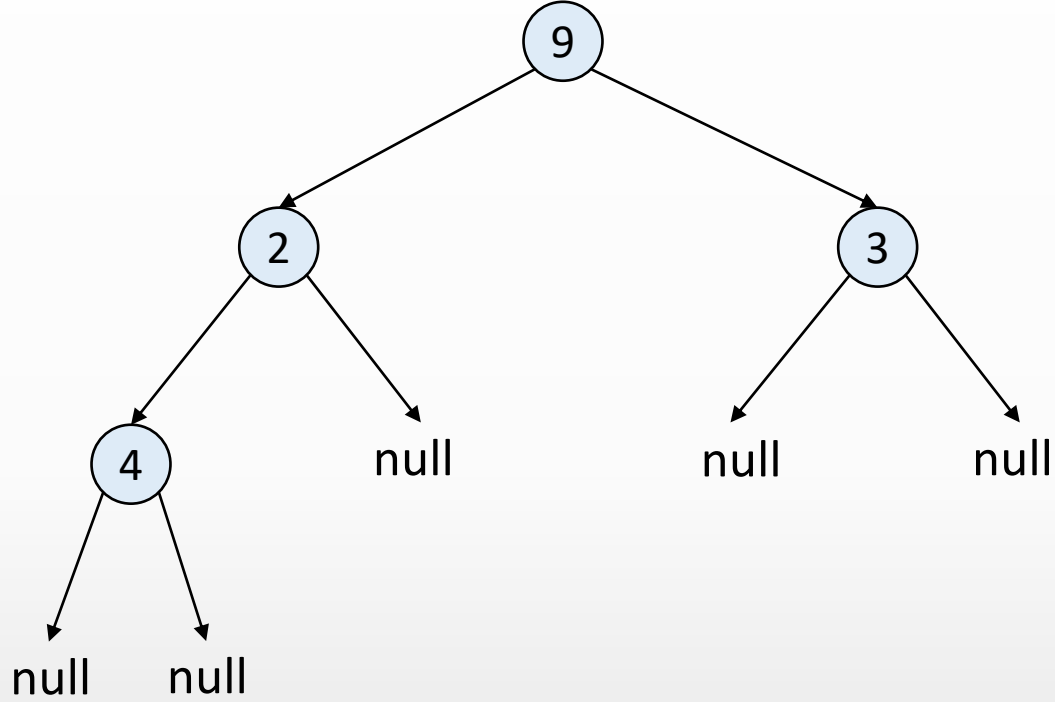
Çıktı: 4 2 9 3

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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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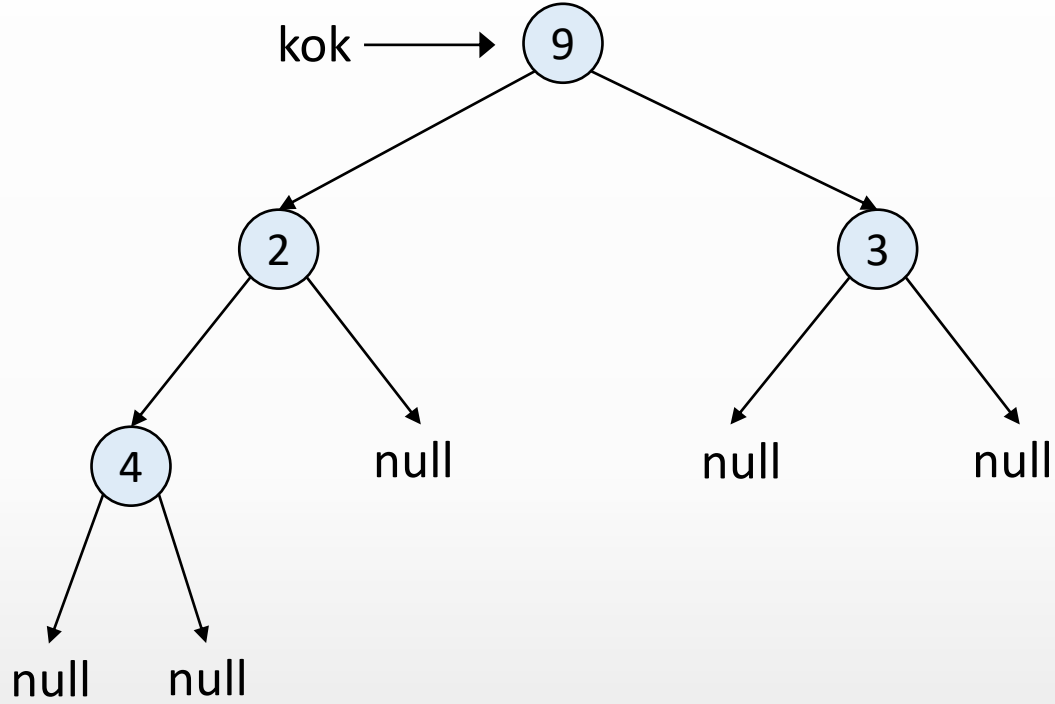
Çıktı: 4 2 9 3

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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokOrtada()	7	9



Çıktı: 4 2 9 3

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1 public void kokOrtada(AgacDugumu kok) {
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8 }
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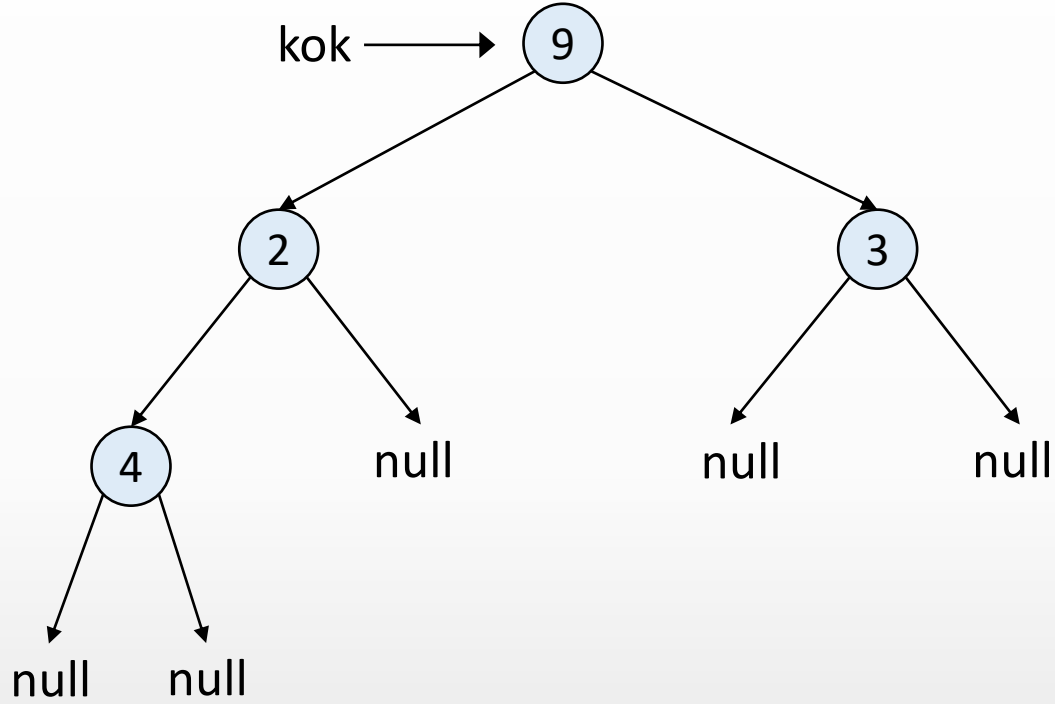


Çağırma Yiğiti (Call Stack)

Metot Çağırımı

Satır Numarası

Kök

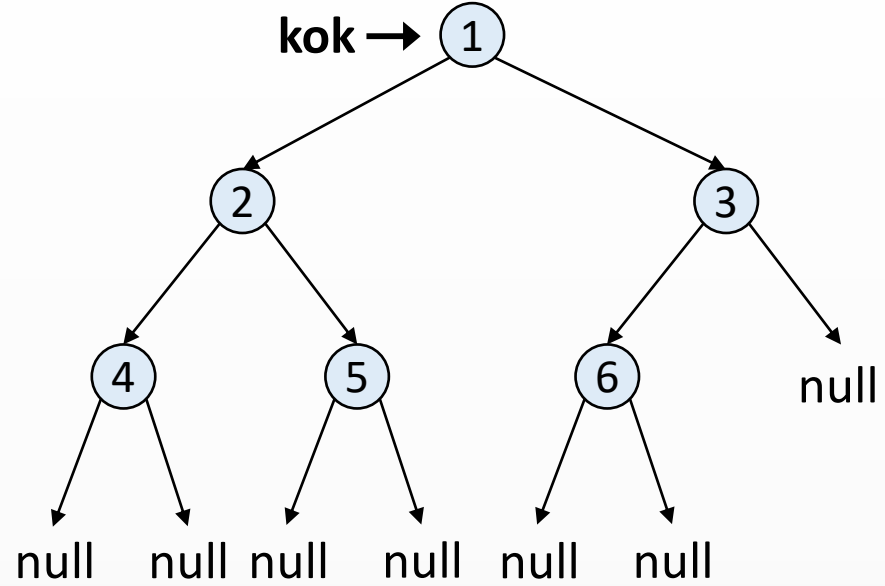


Çıktı: 4 2 9 3

```
1 public void kokOrtada(AgacDugumu kok) {
2     if(kok == null) {
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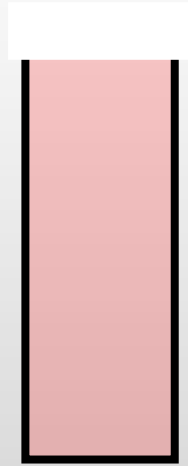
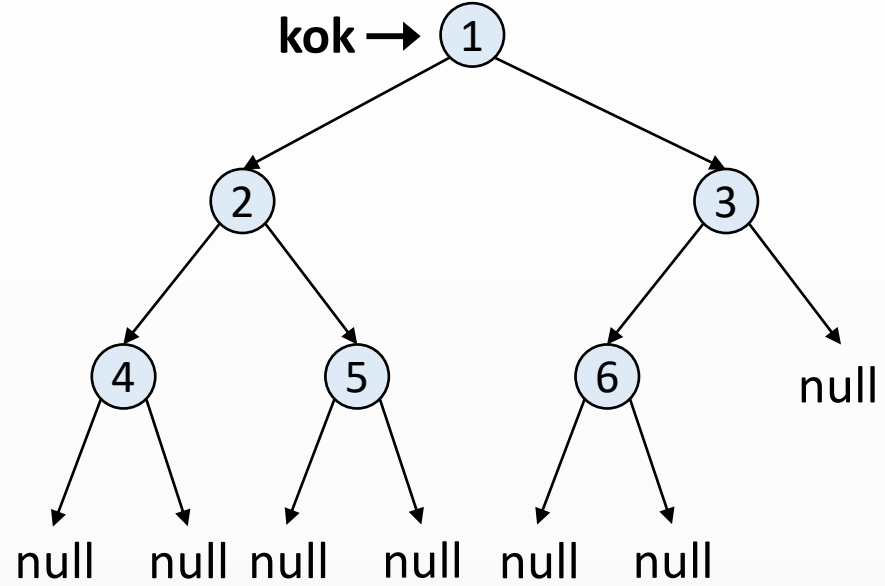


Yığın ile Kök Ortada (Inorder) Dolaşımı



Çıktı:

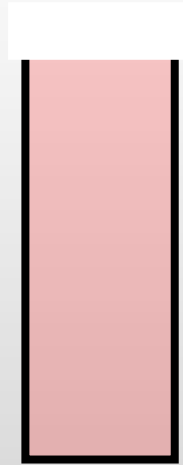
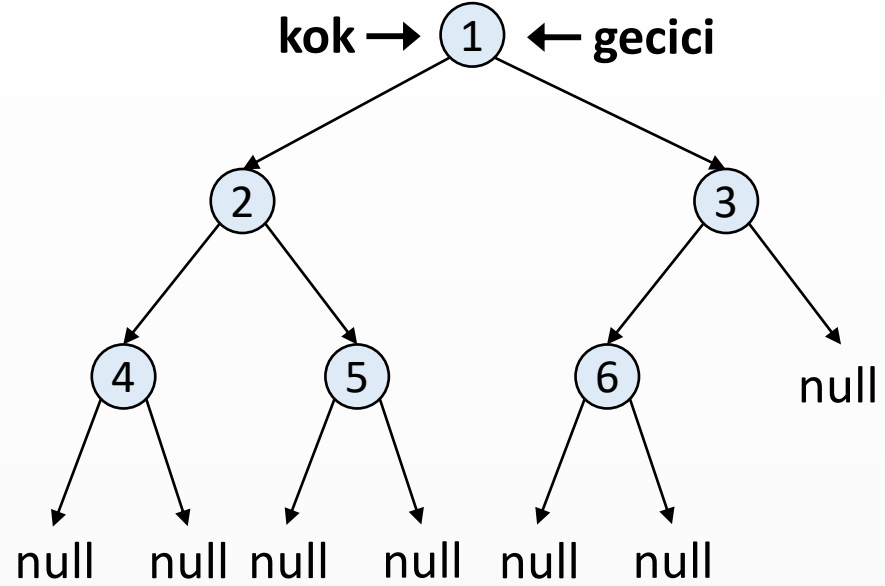
```
→ if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



Yığıt

Çıktı:

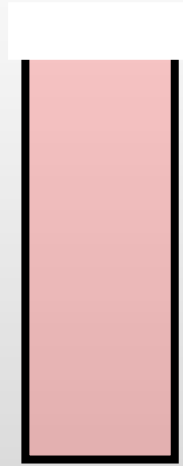
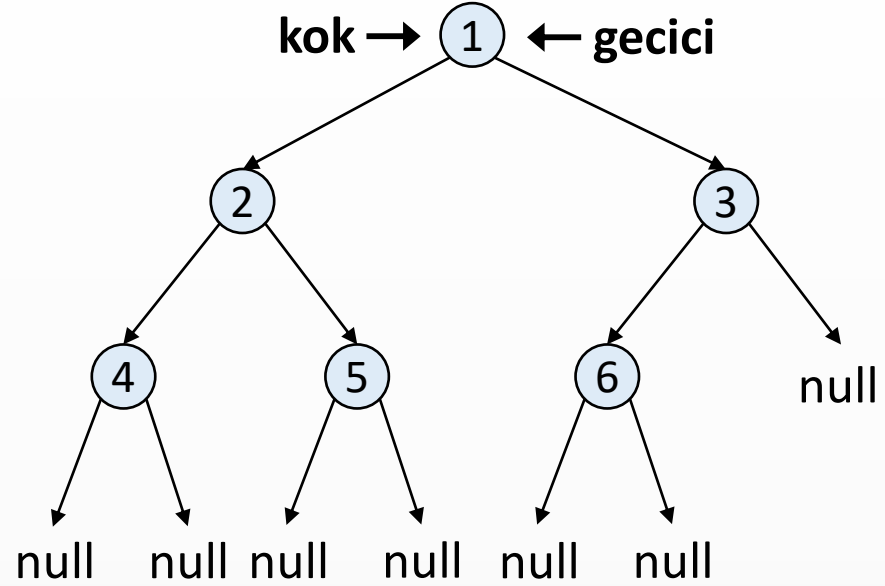
```
if(kok == null) {  
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→ Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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        gecici = gecici.sol;  
    }  
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        gecici = yigit.pop();  
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```



Yığıt

Çıktı:

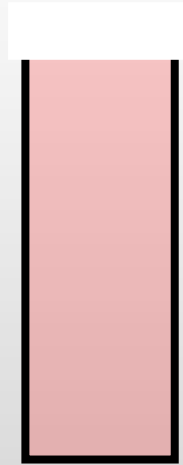
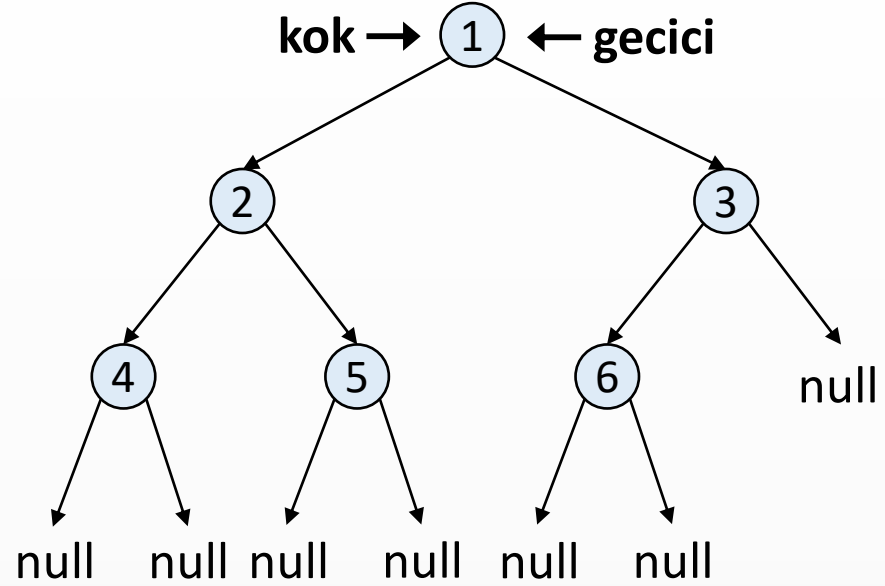
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if(kok == null) {
    return;
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Stack<AgacDugumu> yigit = new Stack<>();
→ AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
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    else {
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Yığıt

Çıktı:

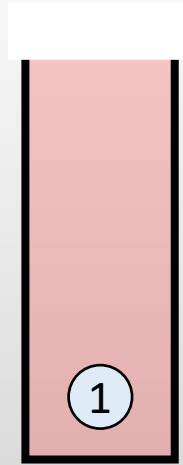
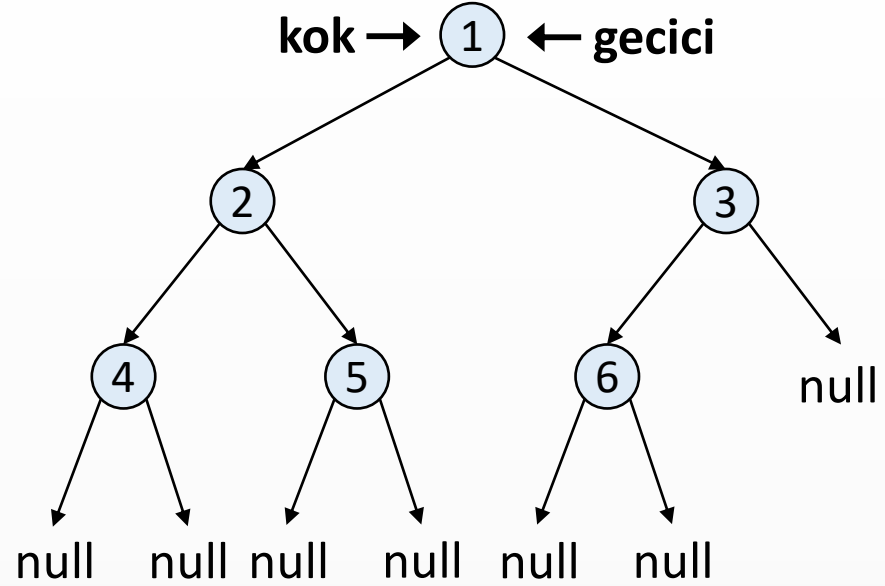
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Yığıt

Çıktı:

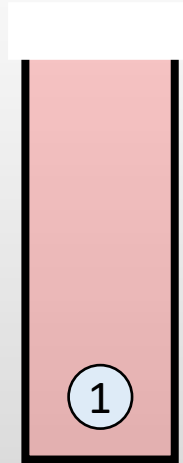
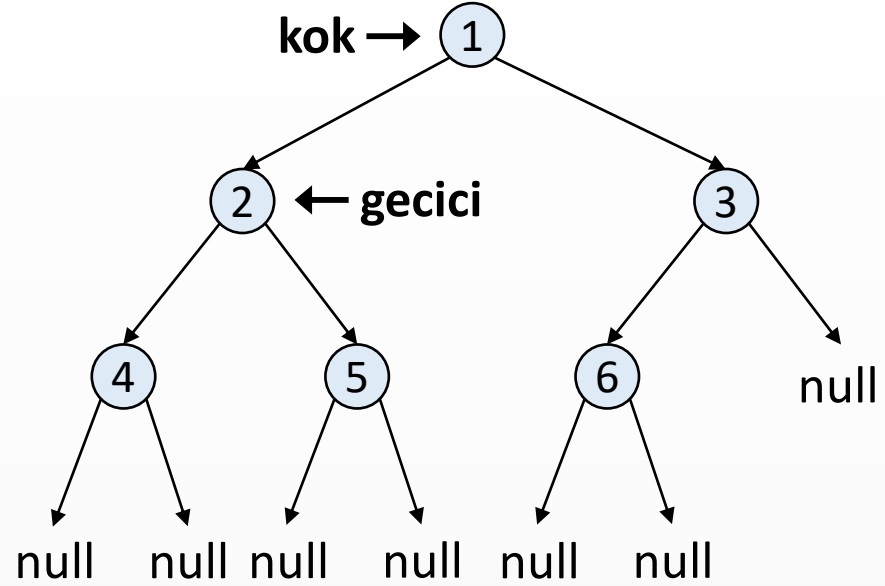
```
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AgacDugumu gecici = kok;
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Yığıt

Çıktı:

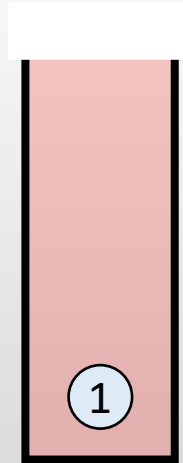
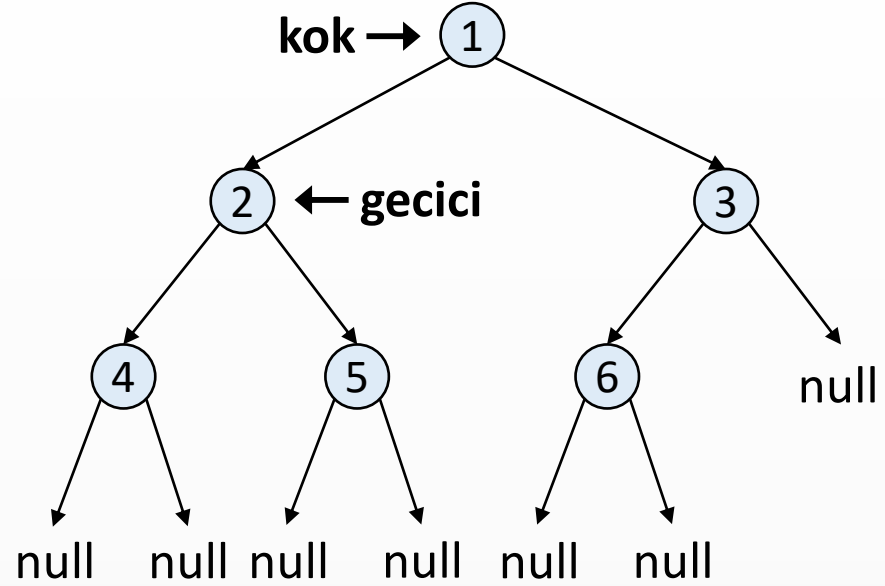
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```



Yığıt

Çıktı:

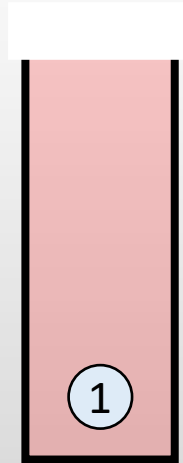
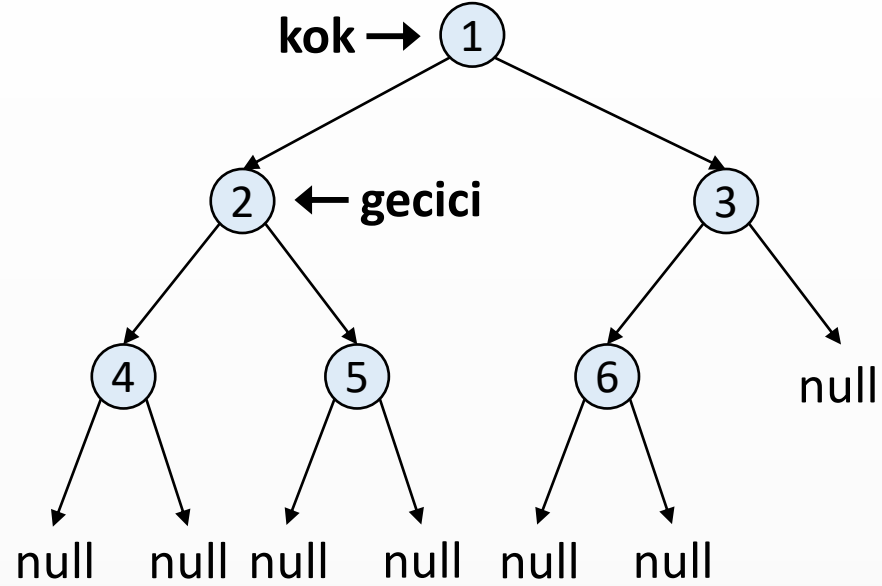
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Yığıt

Çıktı:

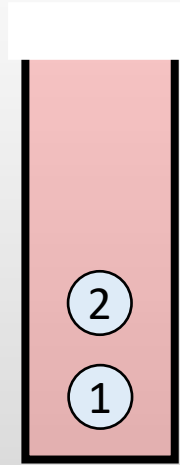
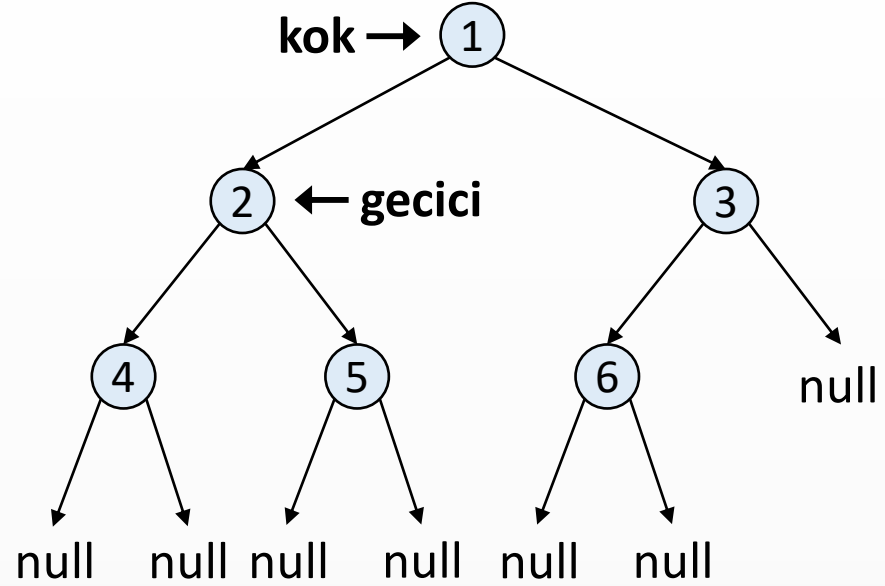
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Yığıt

Çıktı:

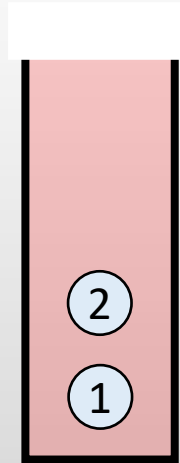
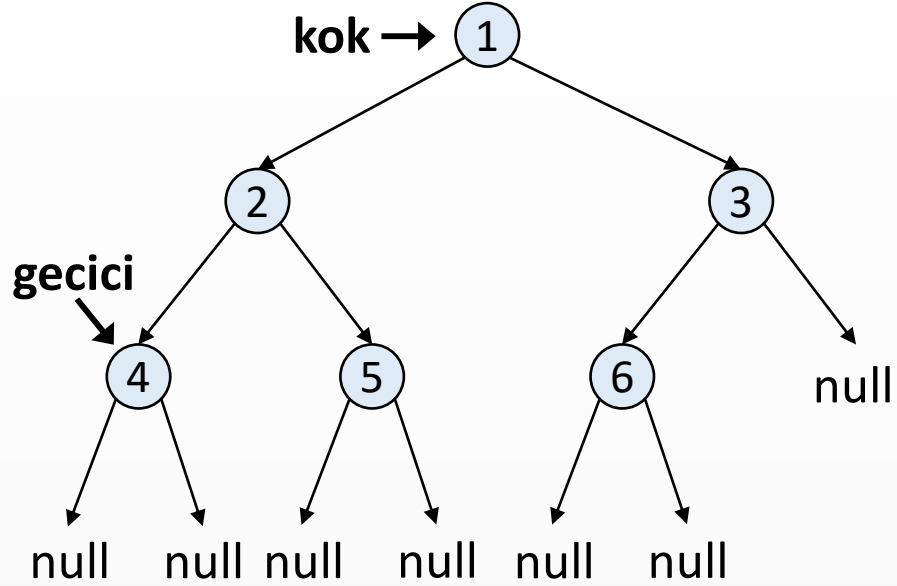
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Yığıt

Çıktı:

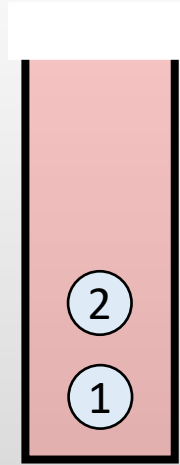
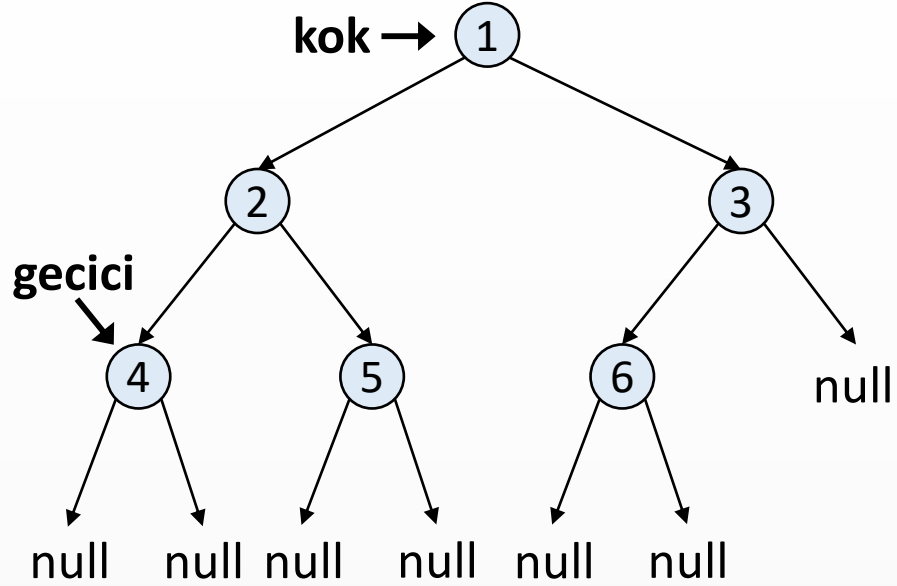
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



Yığıt

Çıktı:

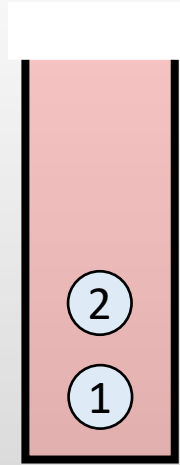
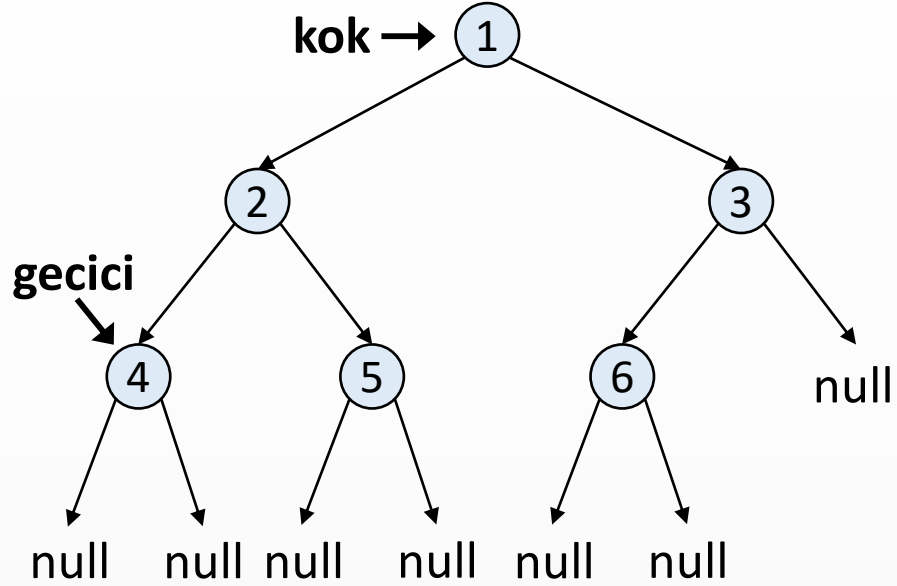
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if(kok == null) {
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Stack<AgacDugumu> yigit = new Stack<>();
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    }
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        gecici = gecici.sag;
    }
}
```



Yığıt

Çıktı:

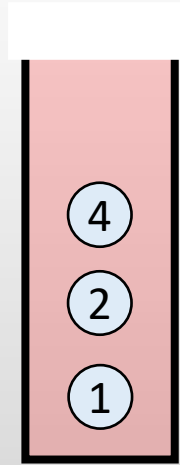
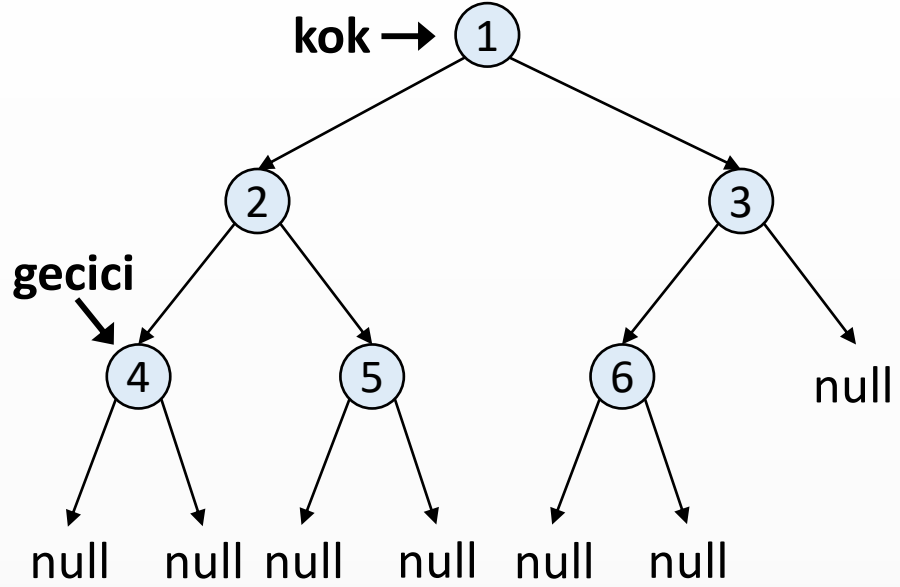
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if(kok == null) {
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Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
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        gecici = gecici.sag;
    }
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```

Yığıt

Çıktı:

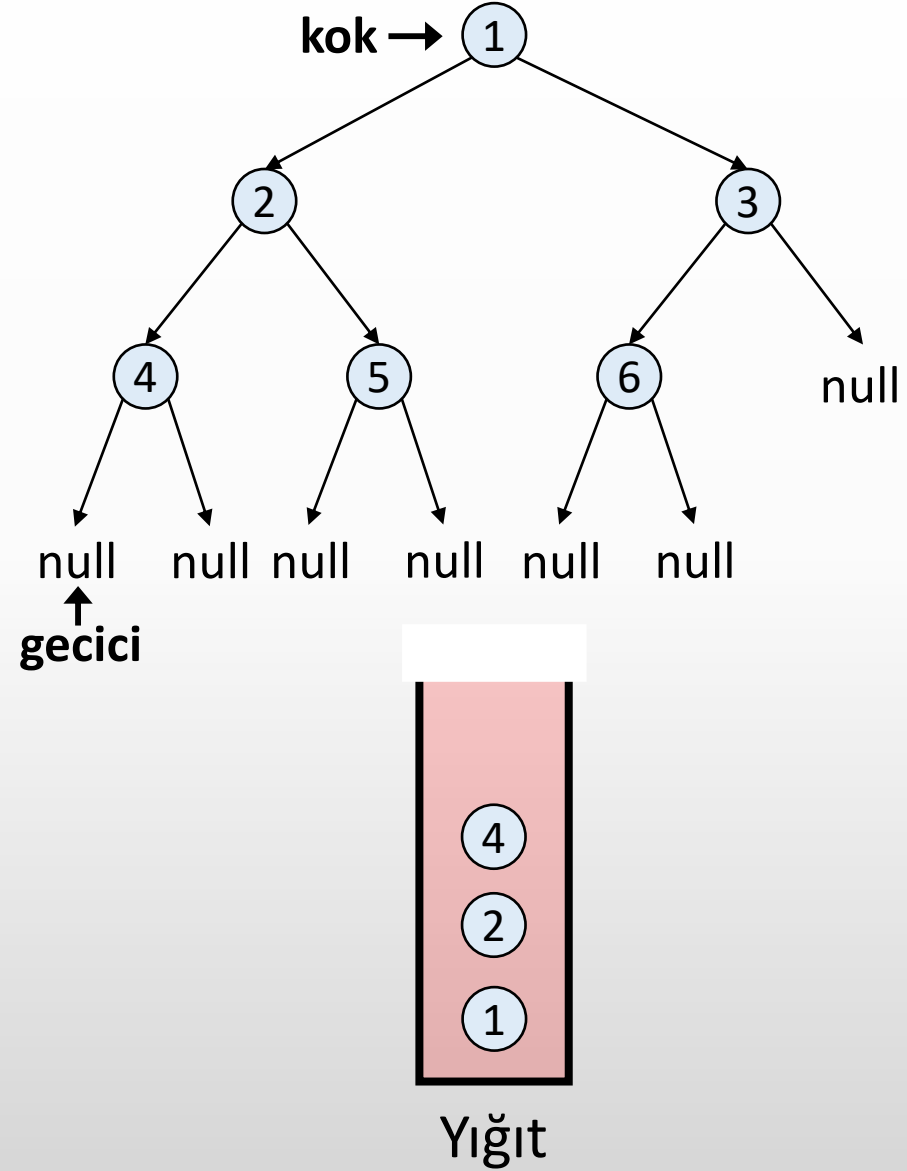
```
if(kok == null) {
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}
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AgacDugumu gecici = kok;
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    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



Yığıt

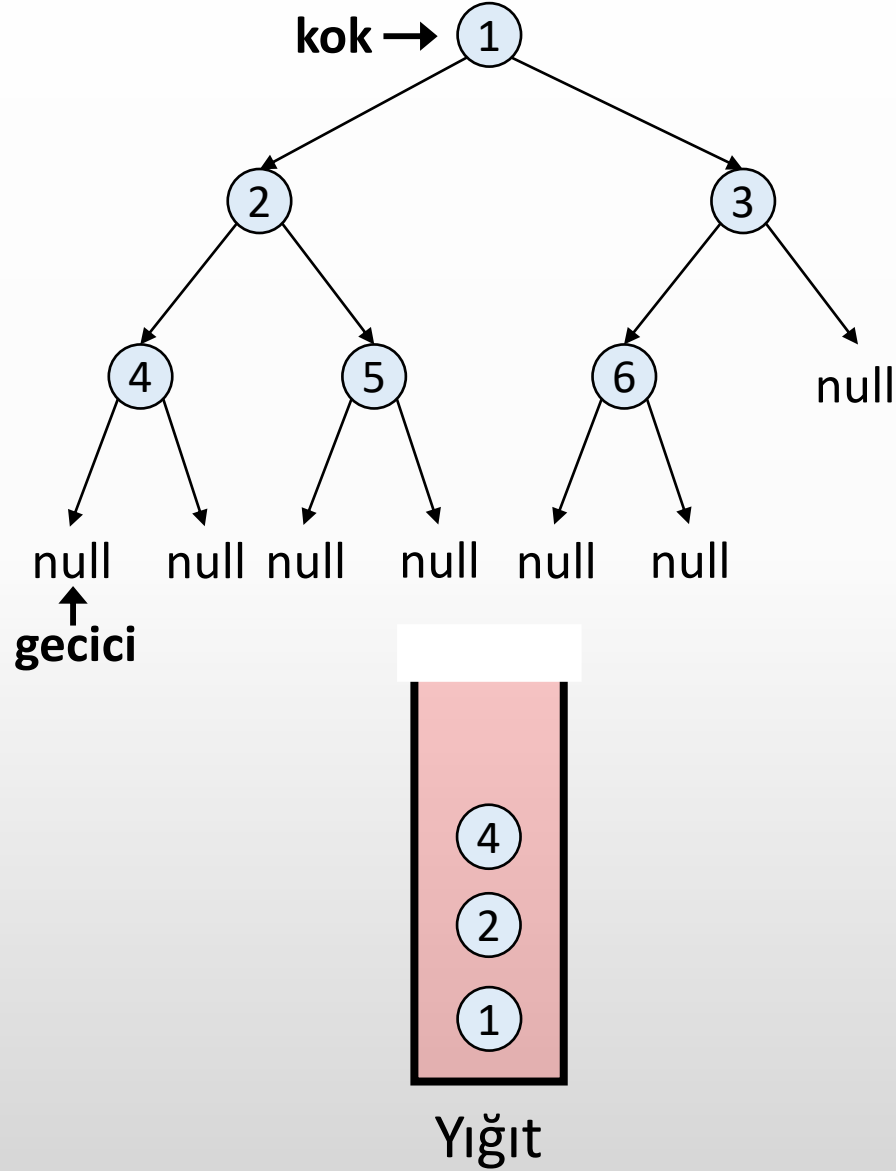
Çıktı:

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



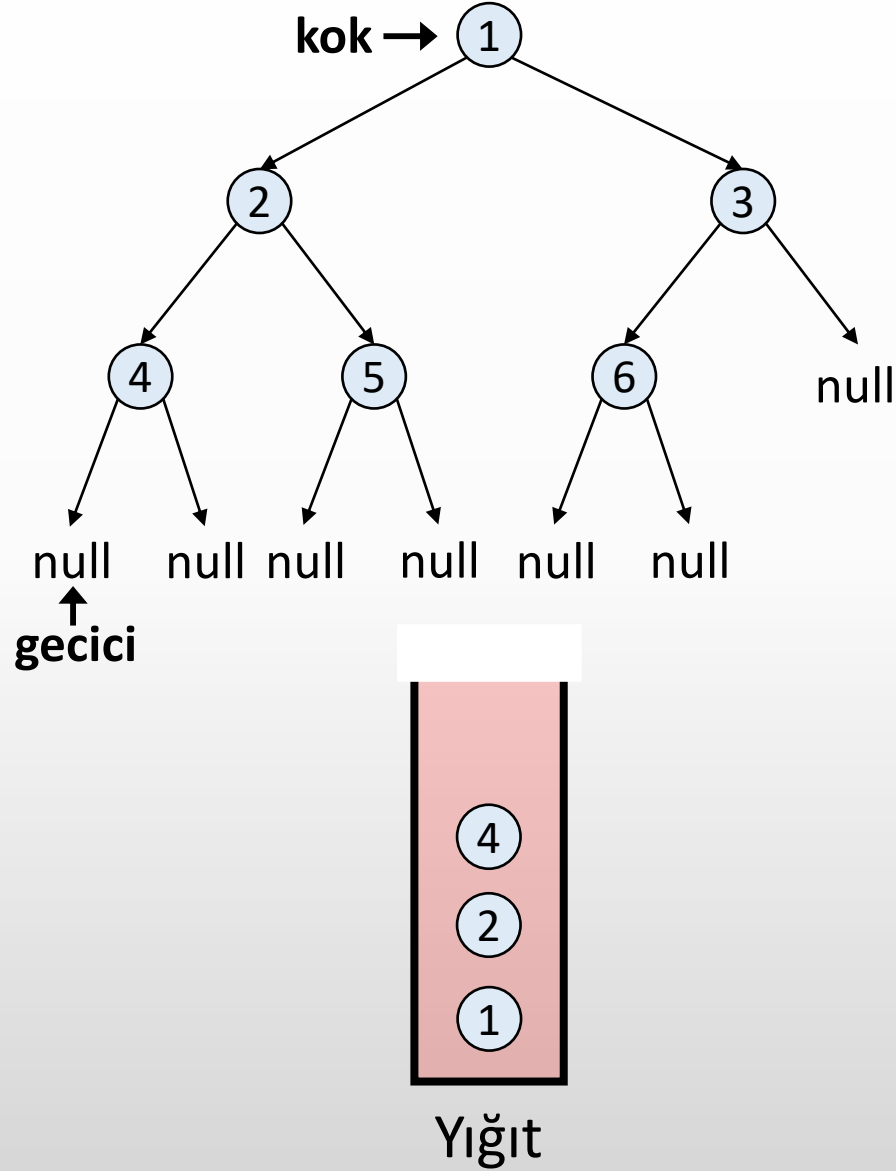
Çıktı:

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        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```

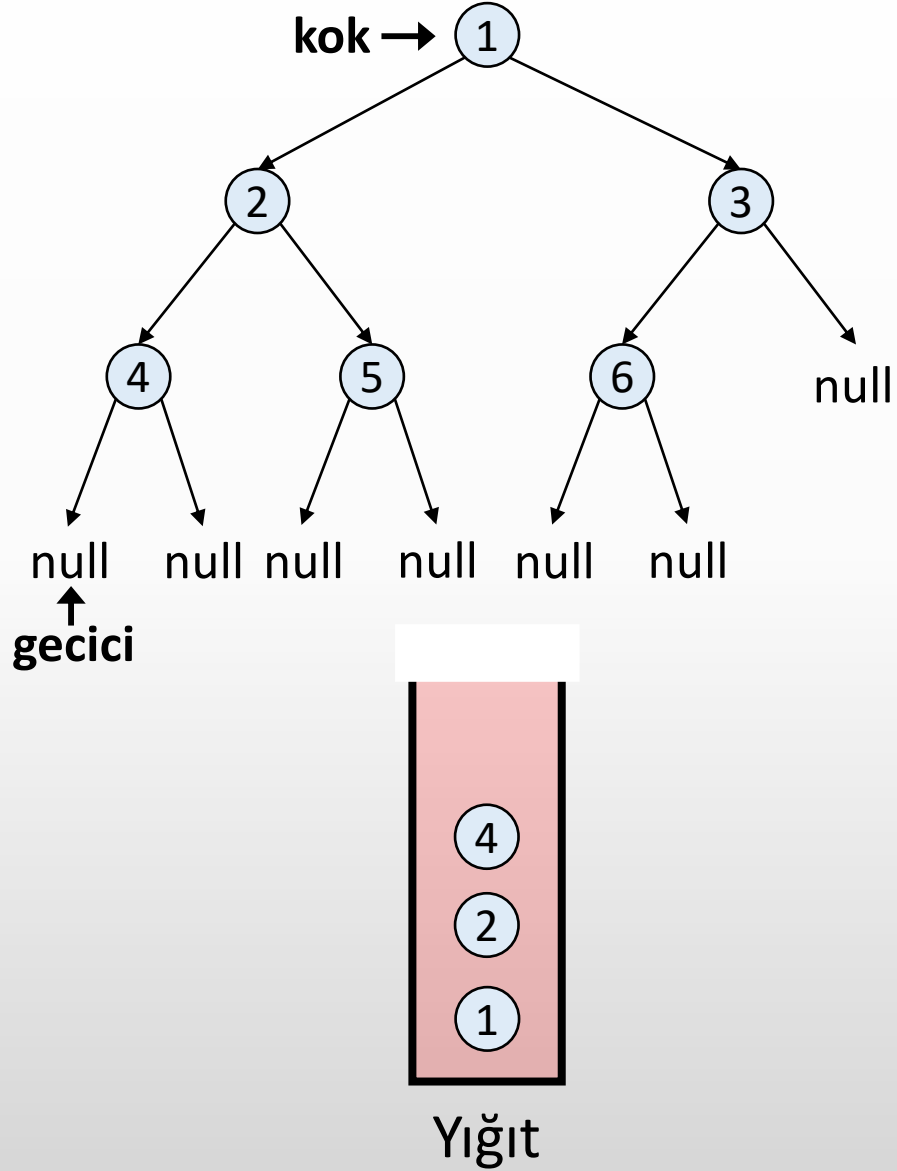


Çıktı:

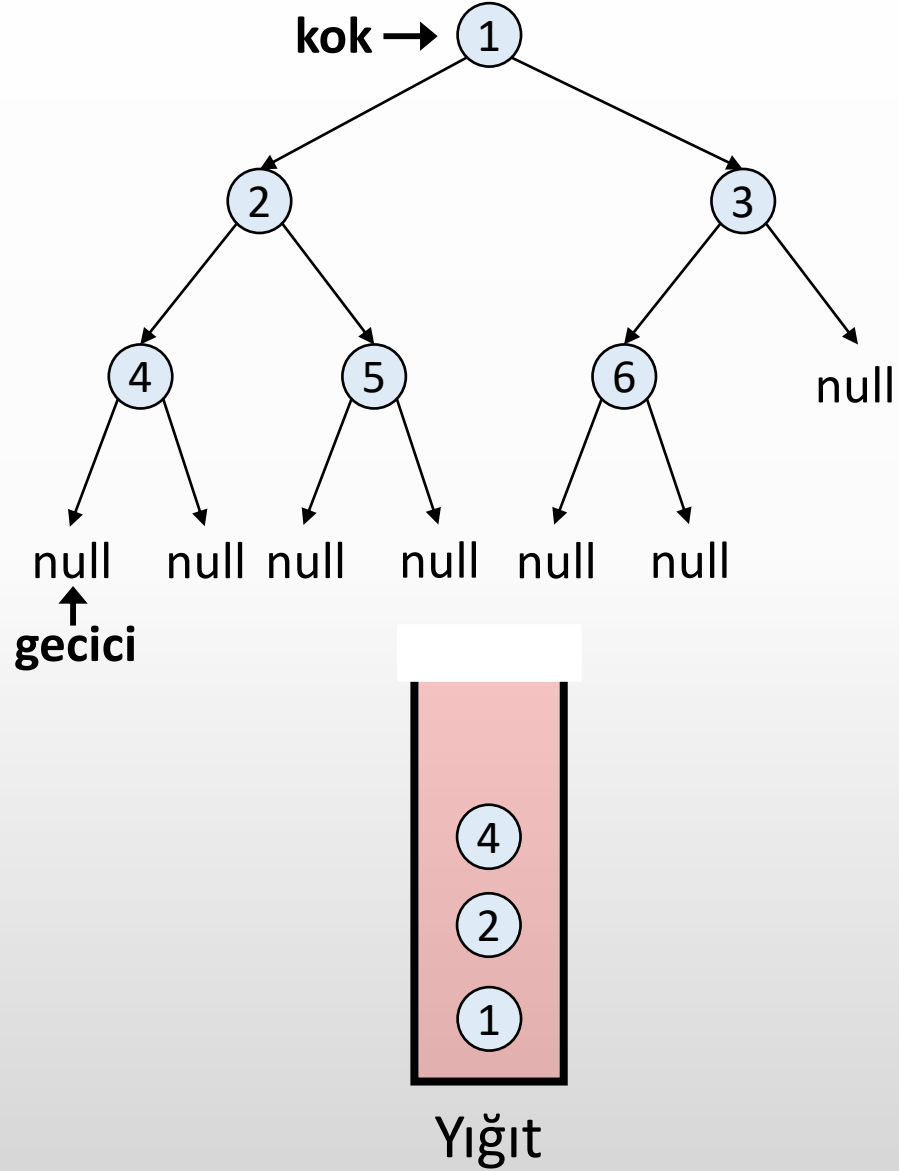
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if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



Çıktı:

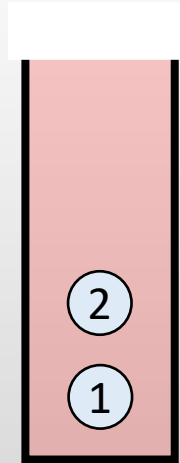
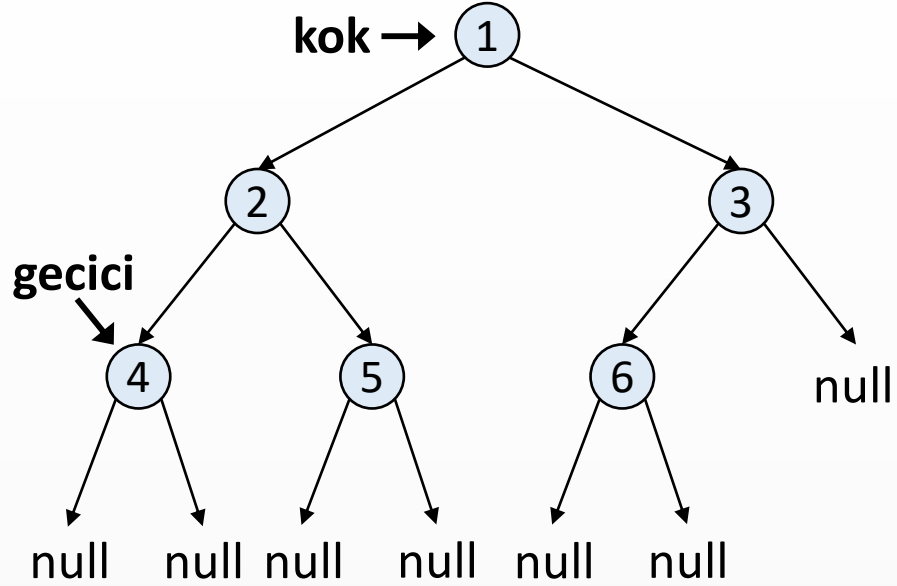


```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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    }
}
```



Yığıt

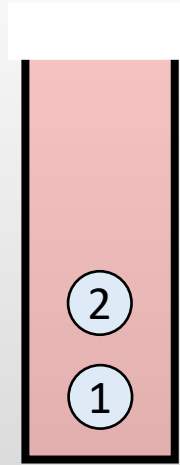
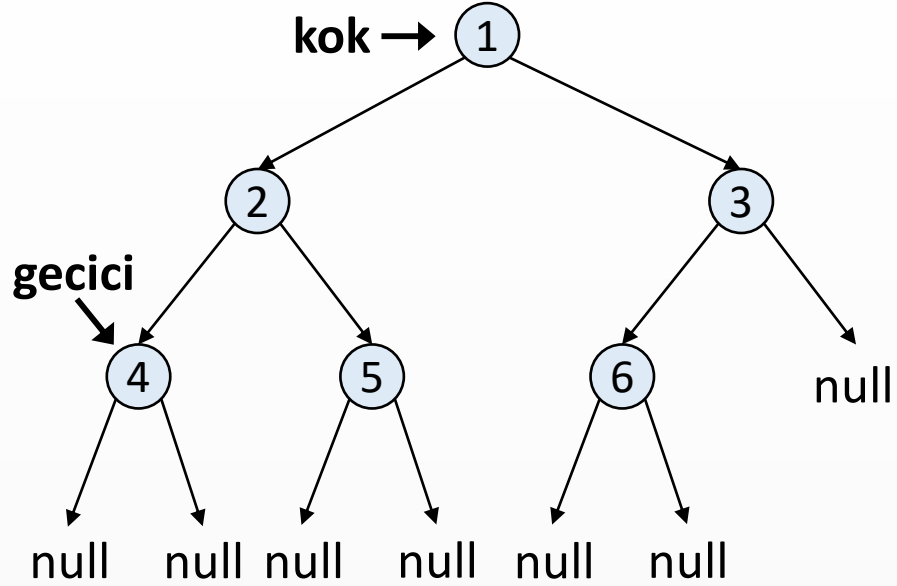
Çıktı:

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    }
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```





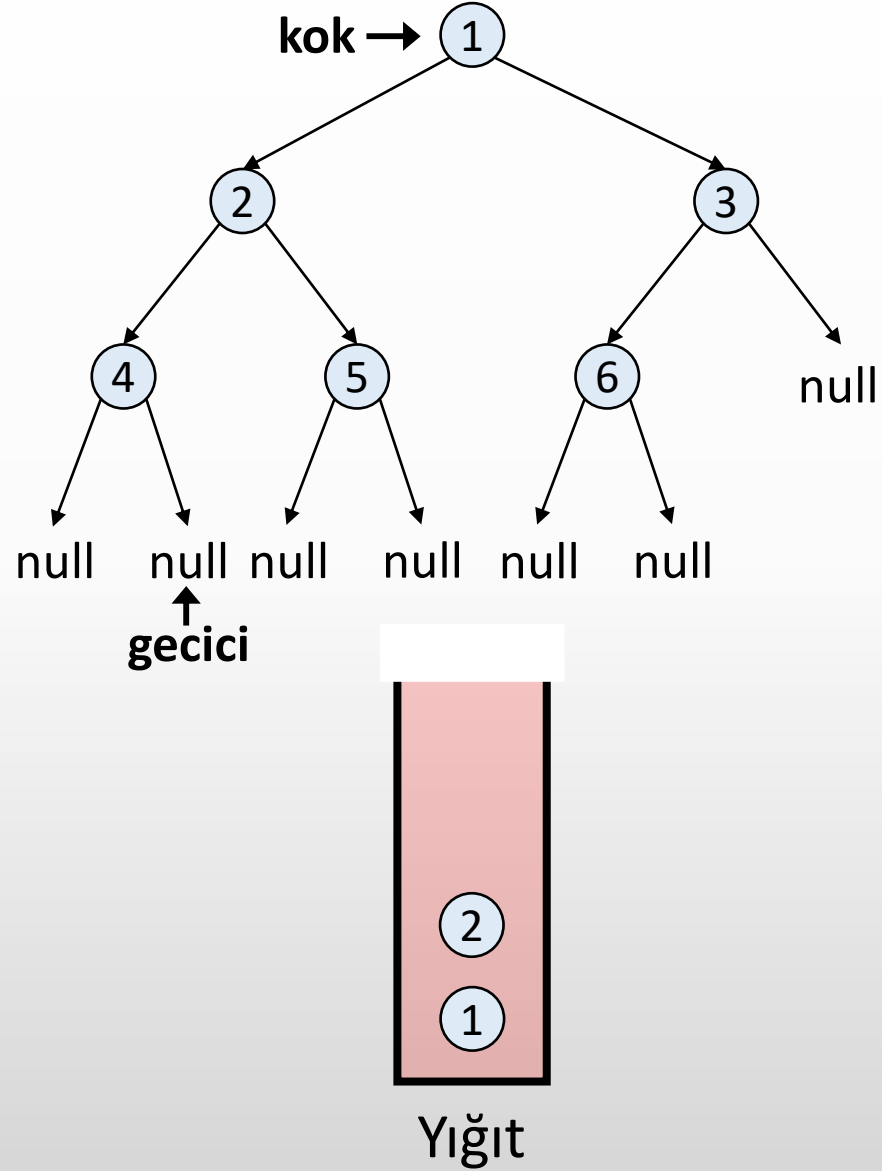
Çıktı: 4



Yığıt

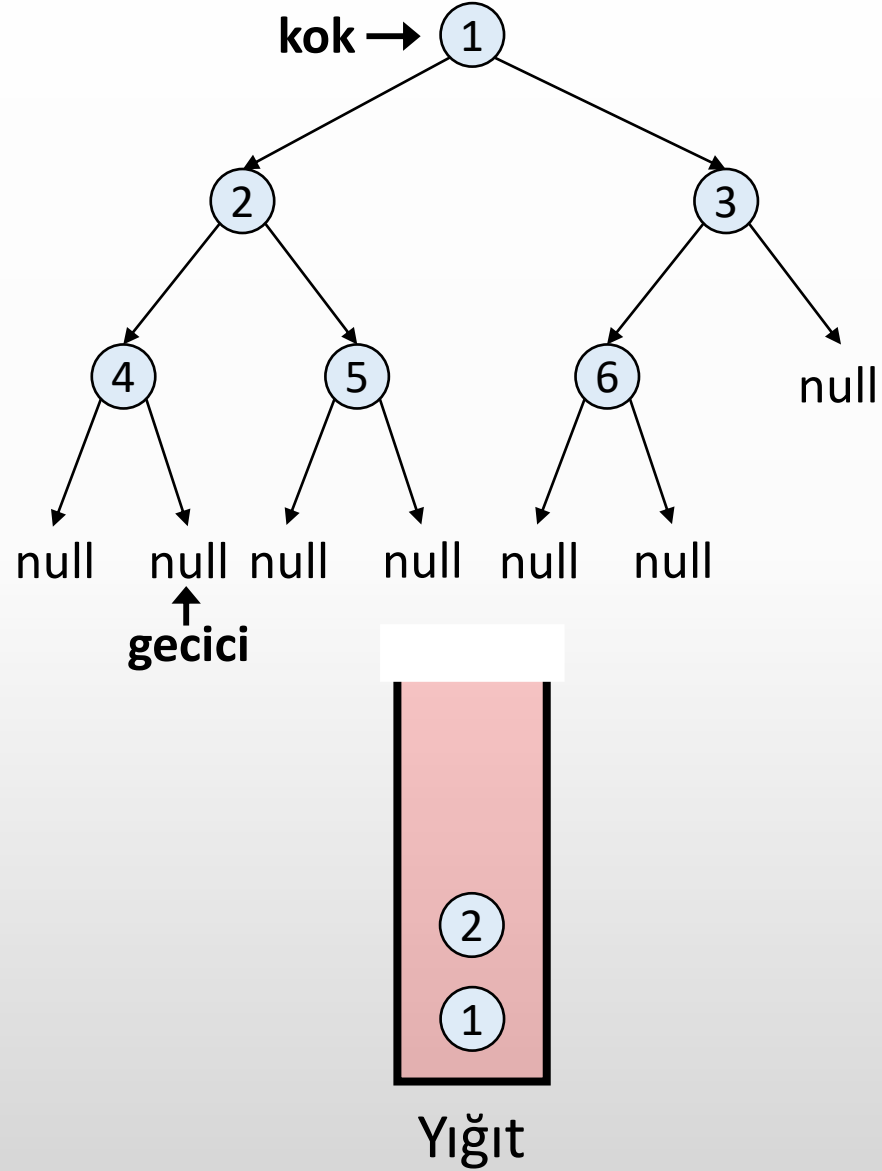
```
if(kok == null) {  
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        gecici = gecici.sag;  
    }  
}
```





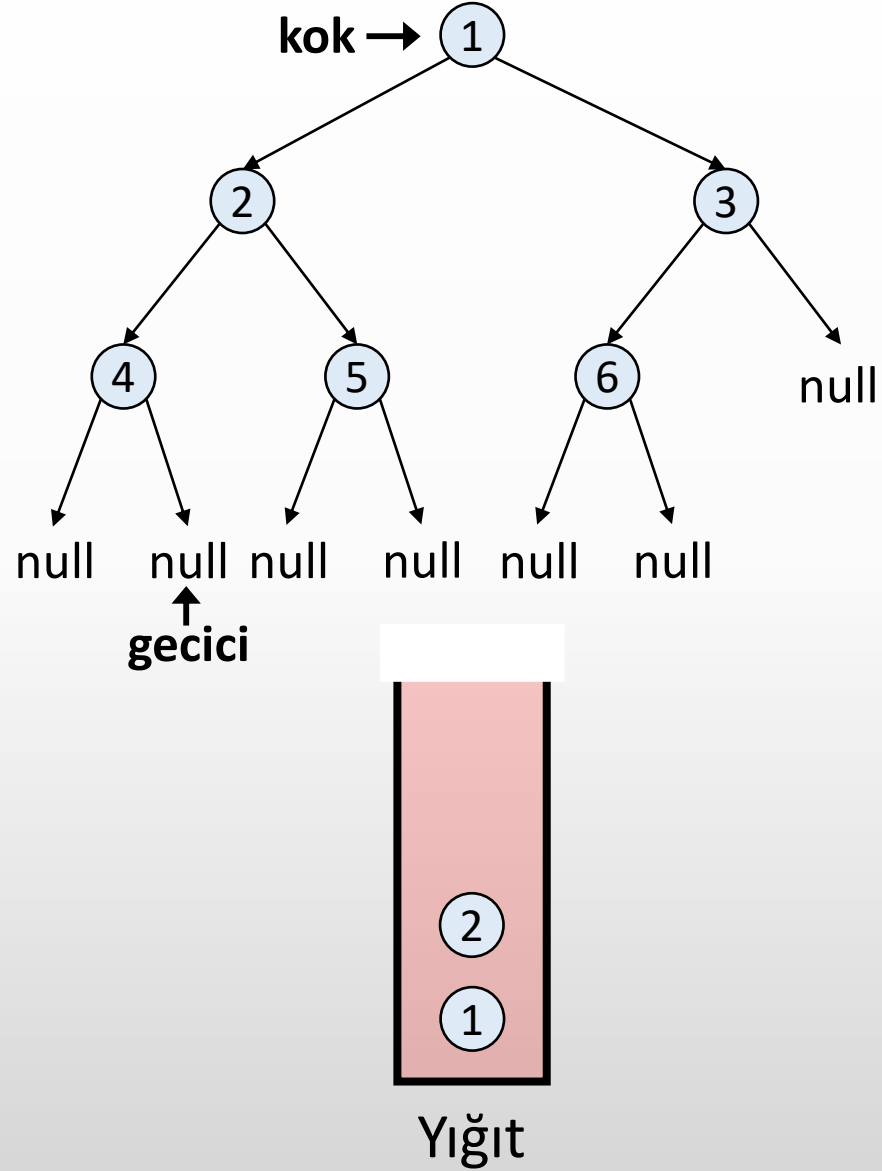
Çıktı: 4

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        gecici = gecici.sag;  
    }  
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```



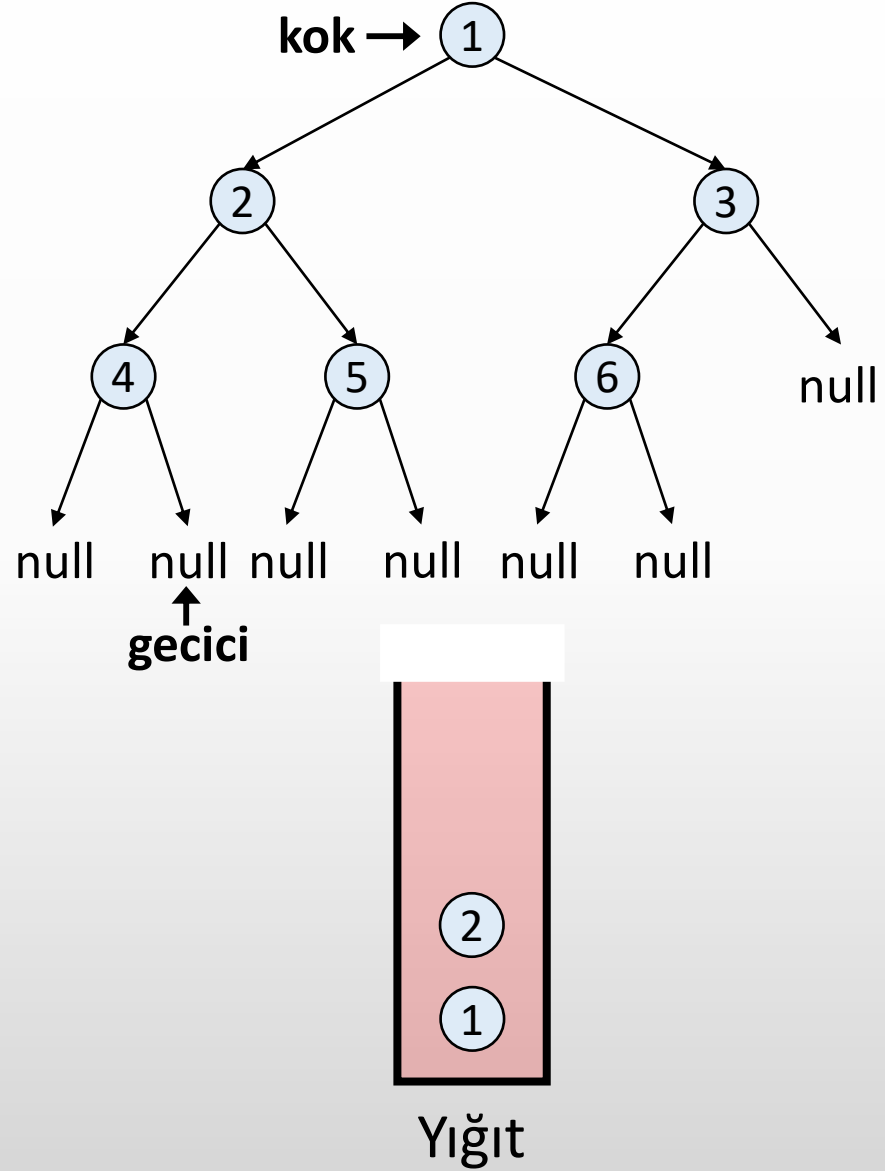
Çıktı: 4

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
→ while(!yigit.isEmpty() || gecici != null) {  
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    }  
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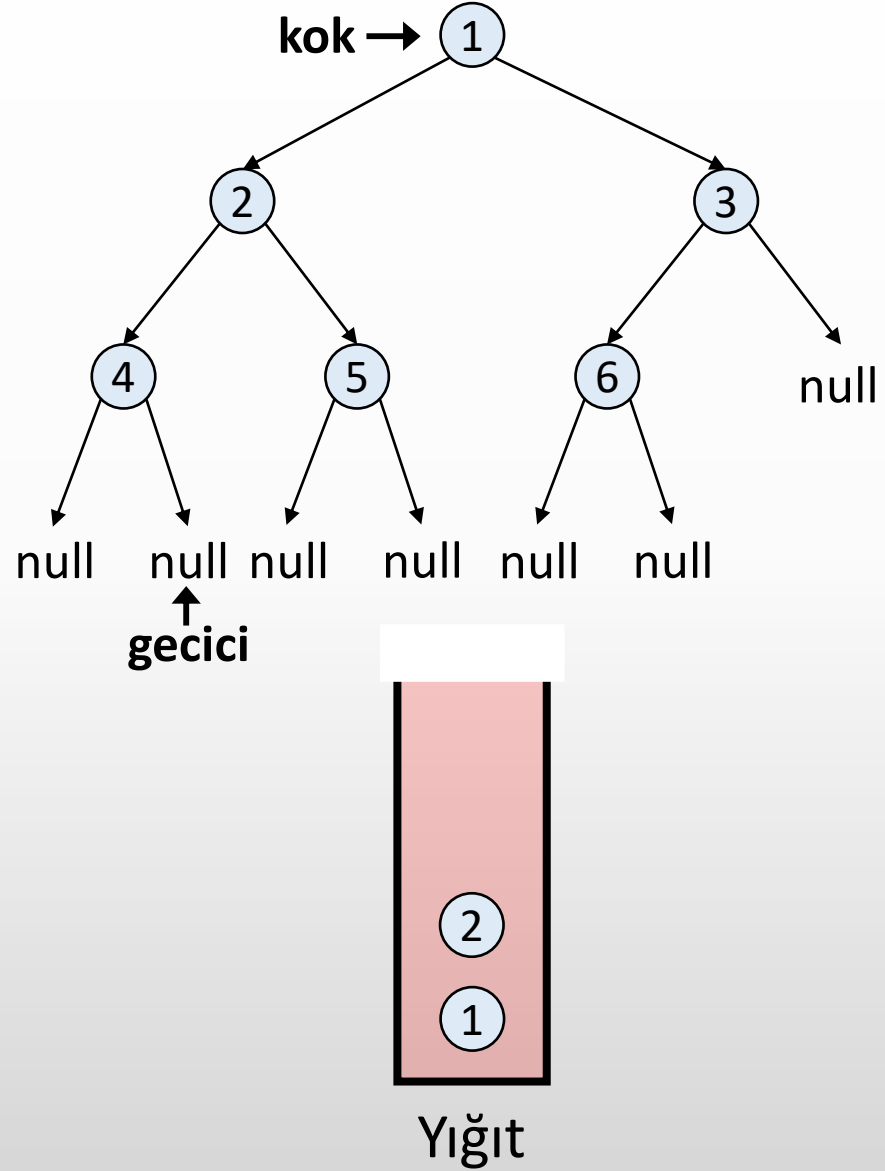
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        gecici = gecici.sag;
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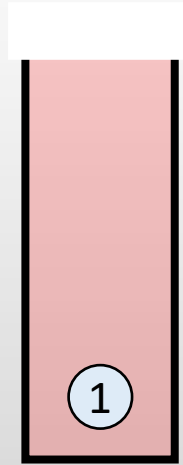
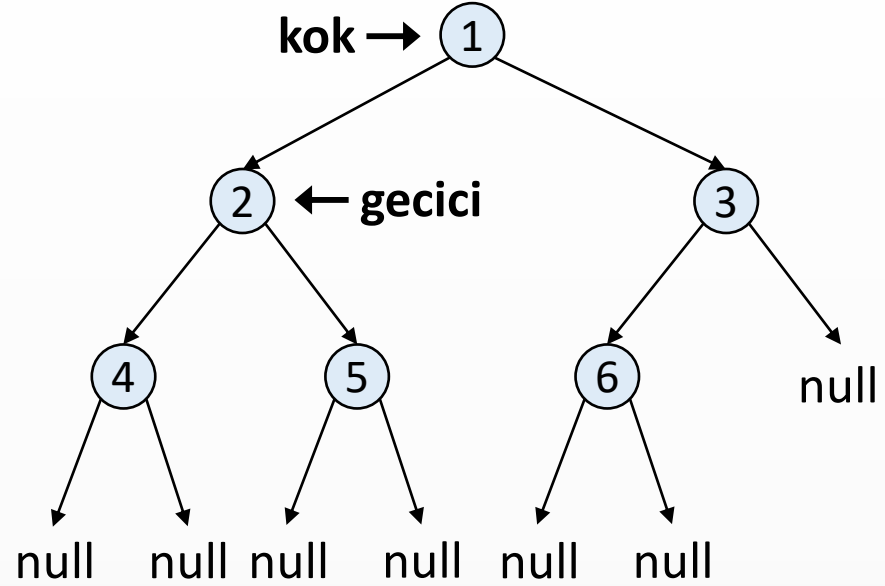
Çıktı: 4

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Çıktı: 4

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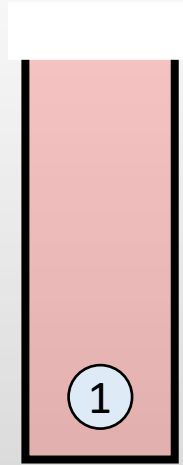
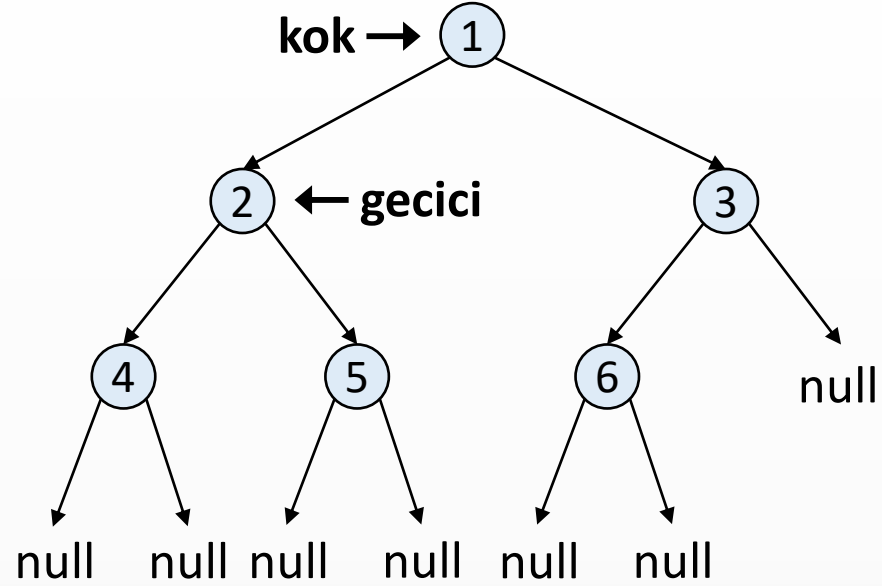


Yığıt

Çıktı: 4

```
if(kok == null) {
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Stack<AgacDugumu> yigit = new Stack<>();
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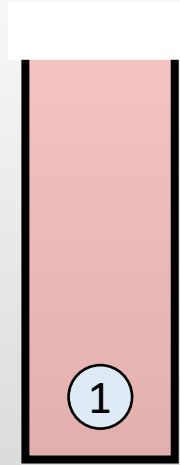
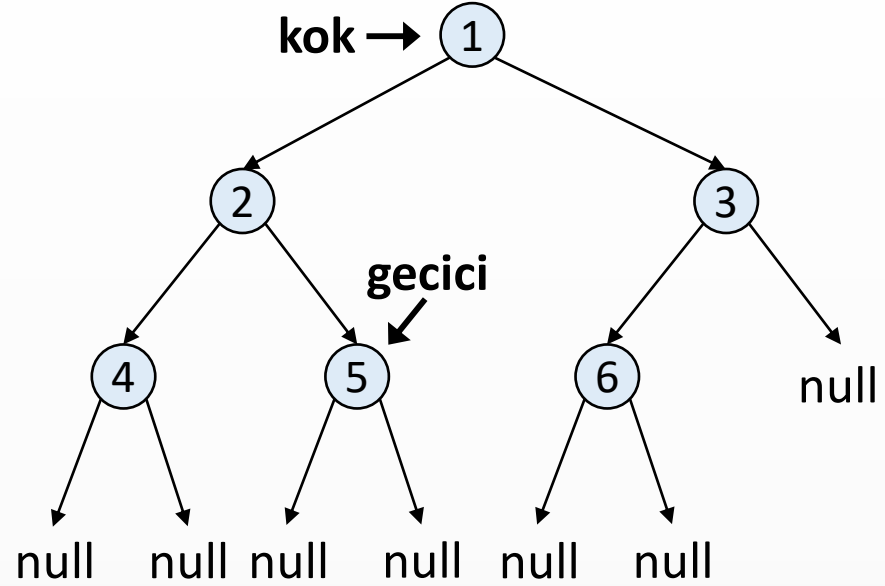


Yığıt

Çıktı: 4 2

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
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    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```

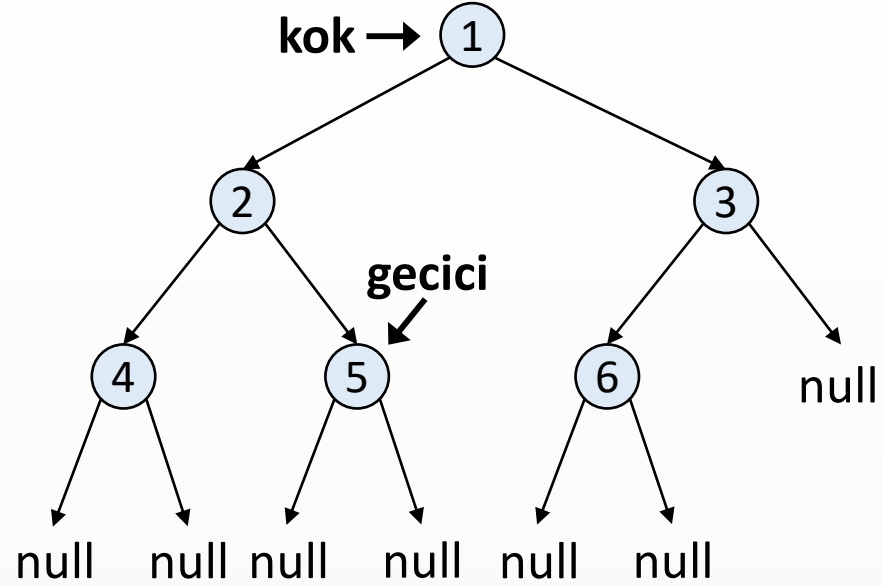




Yığıt

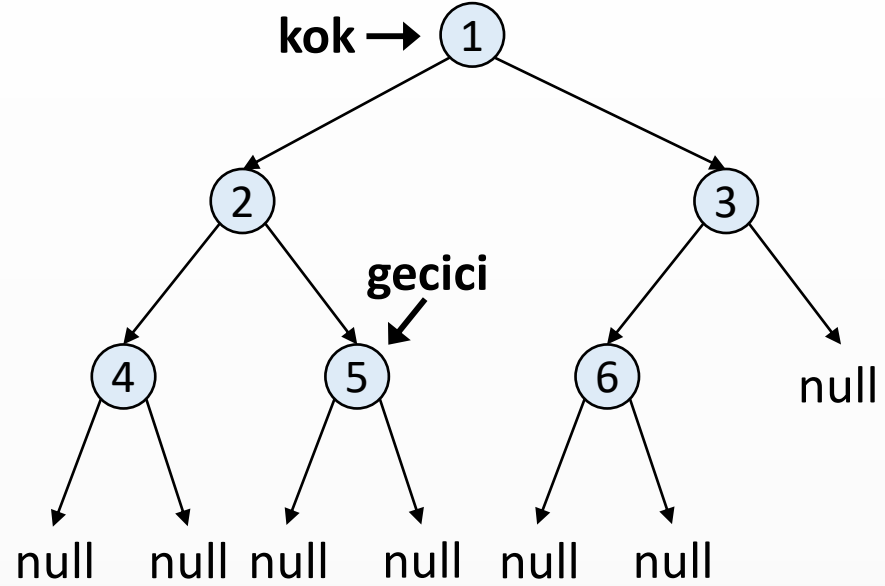
Çıktı: 4 2

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if(kok == null) {
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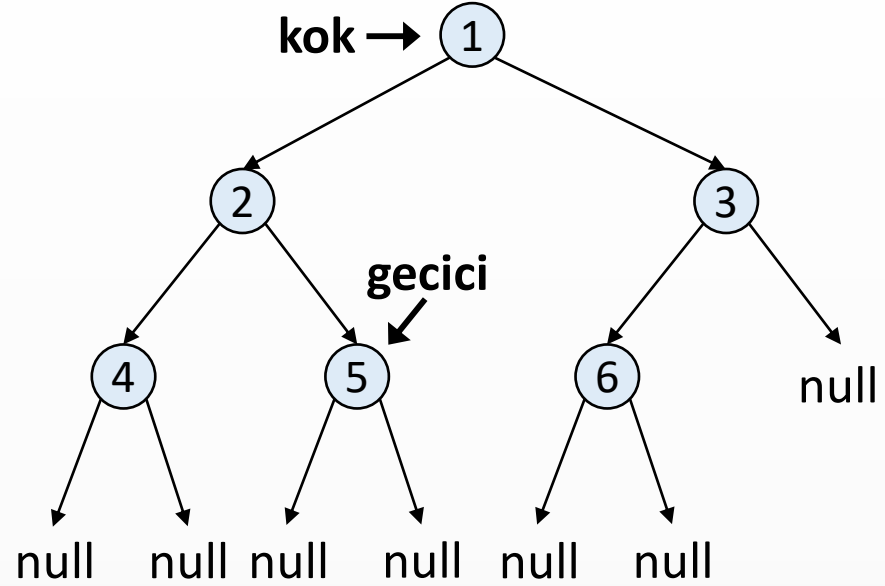
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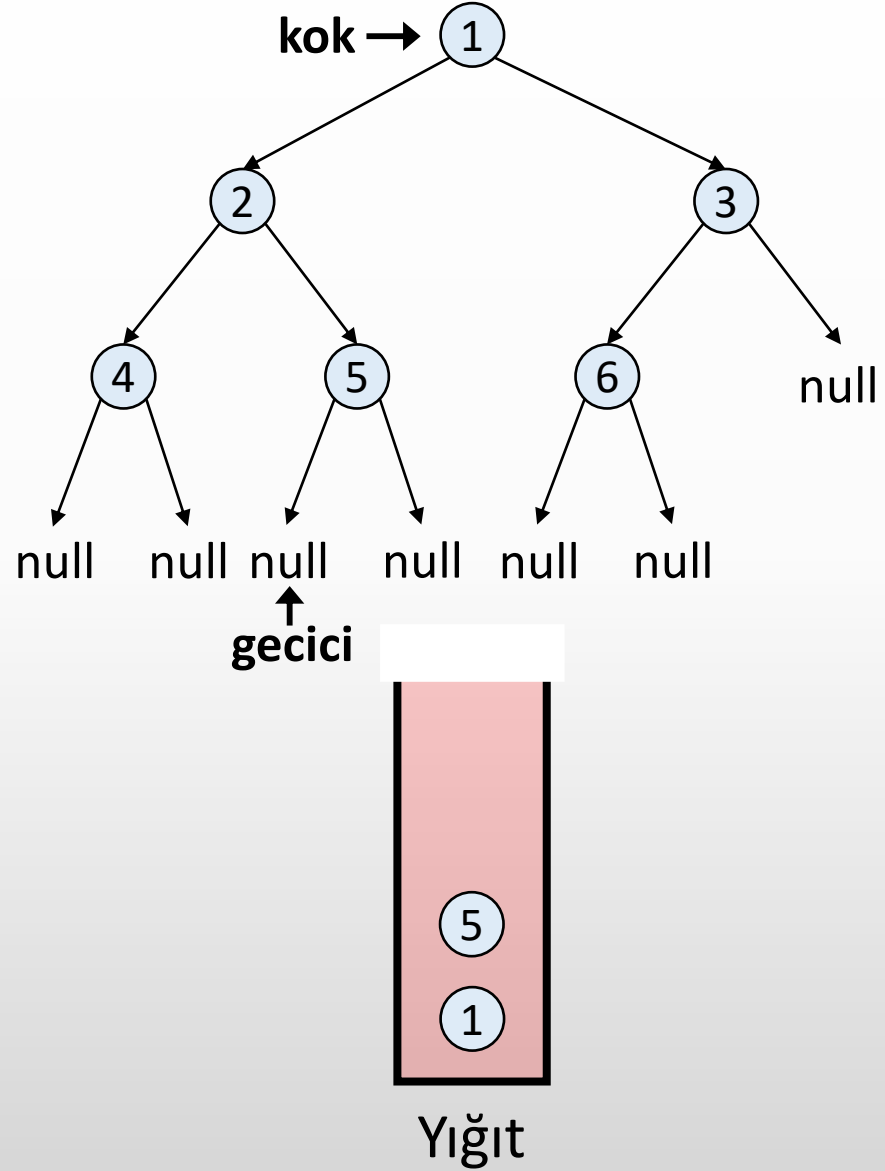
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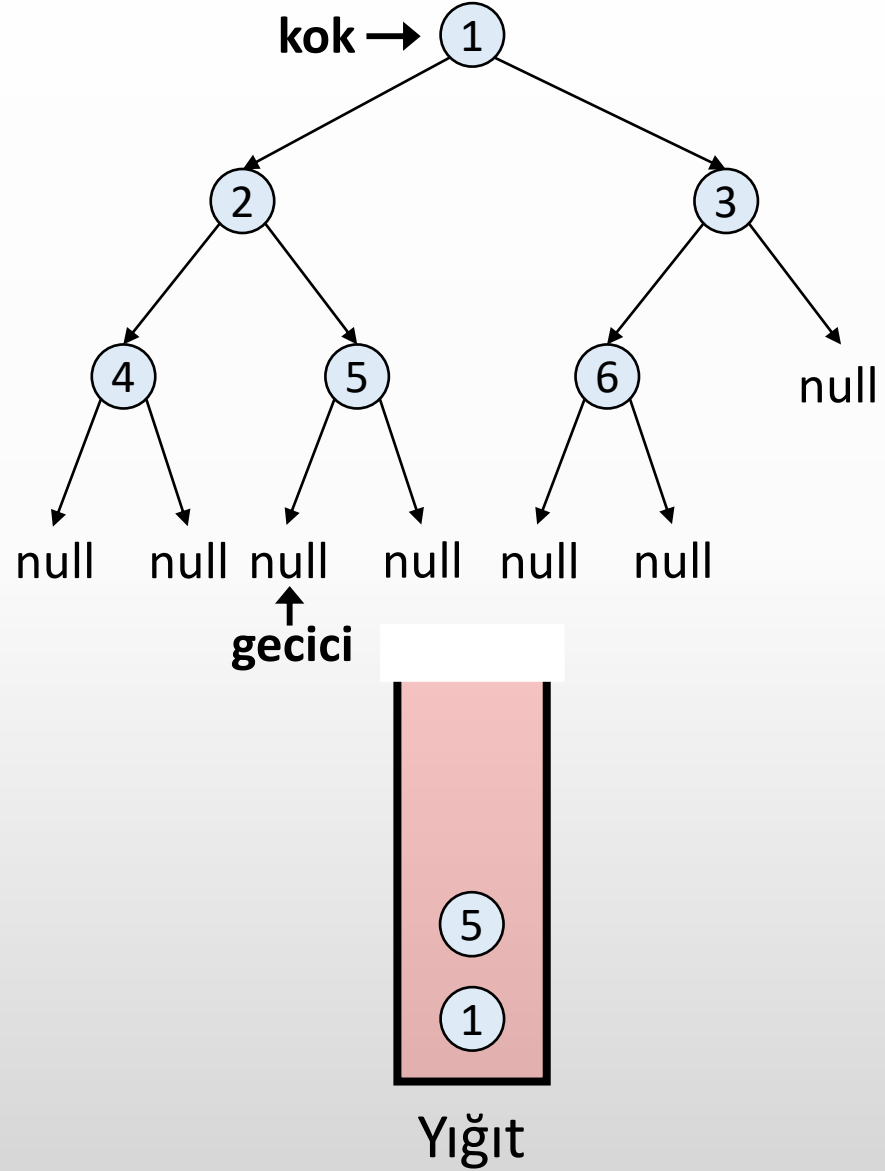
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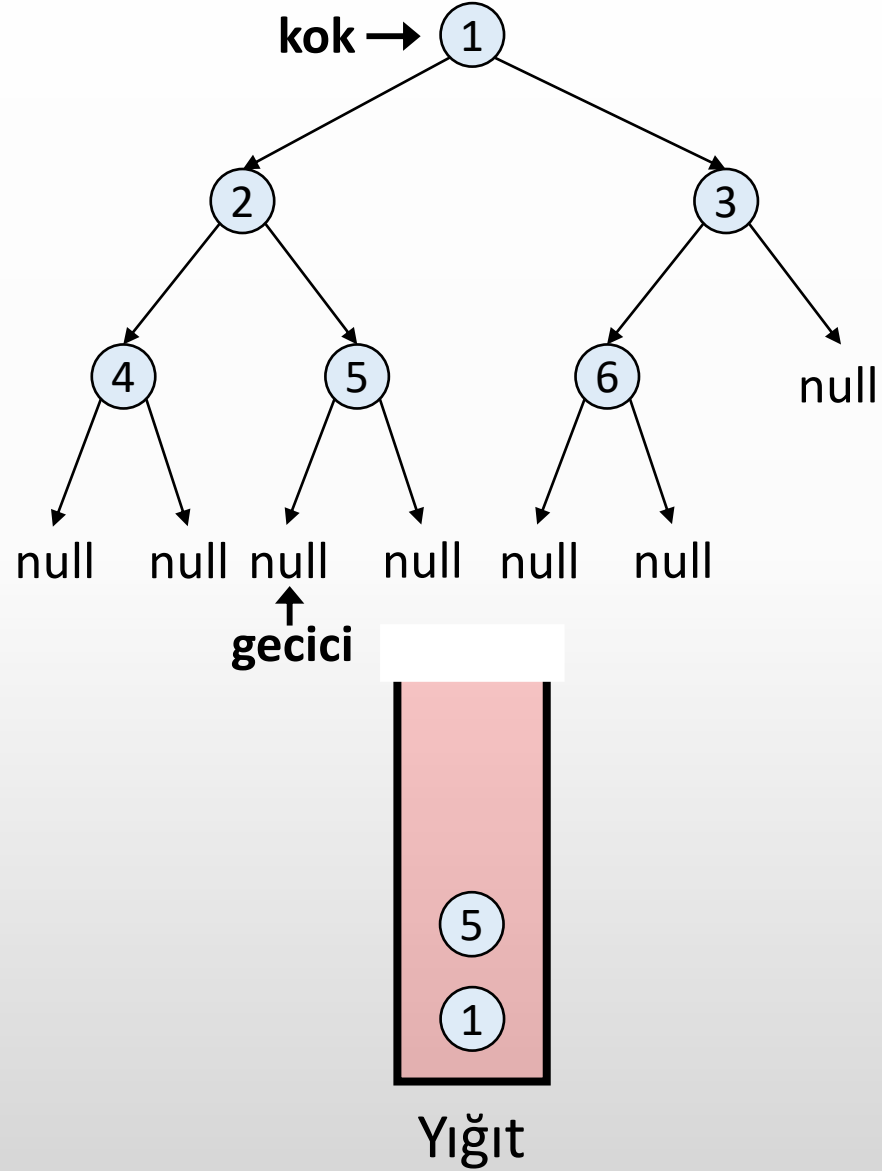
Çıktı: 4 2

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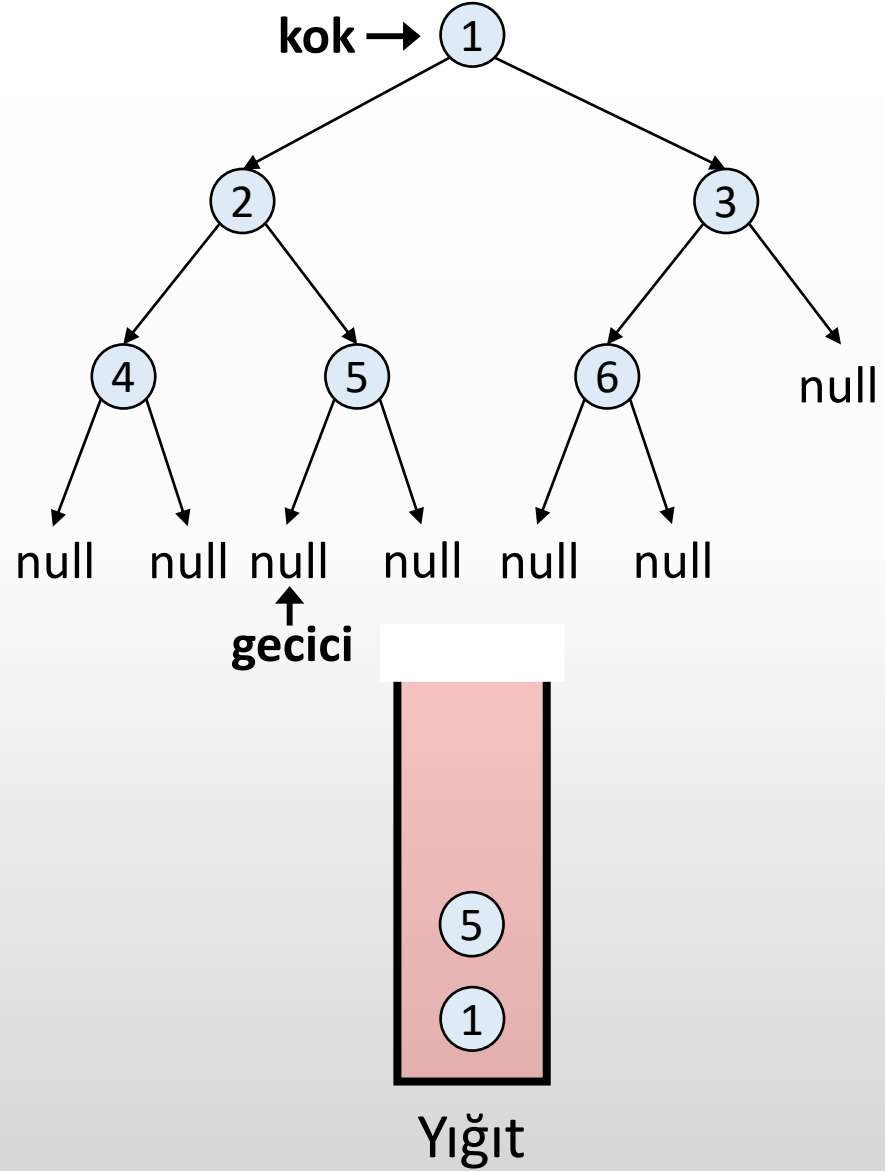
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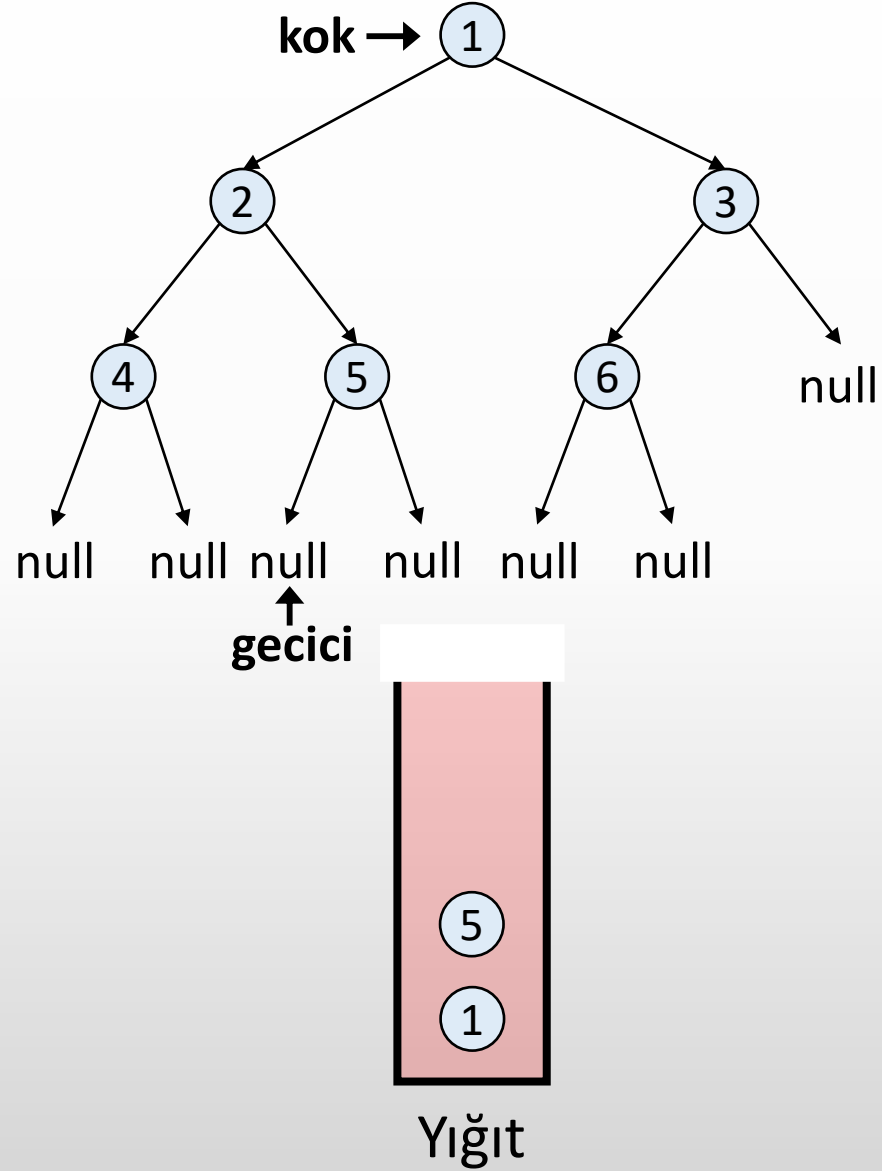
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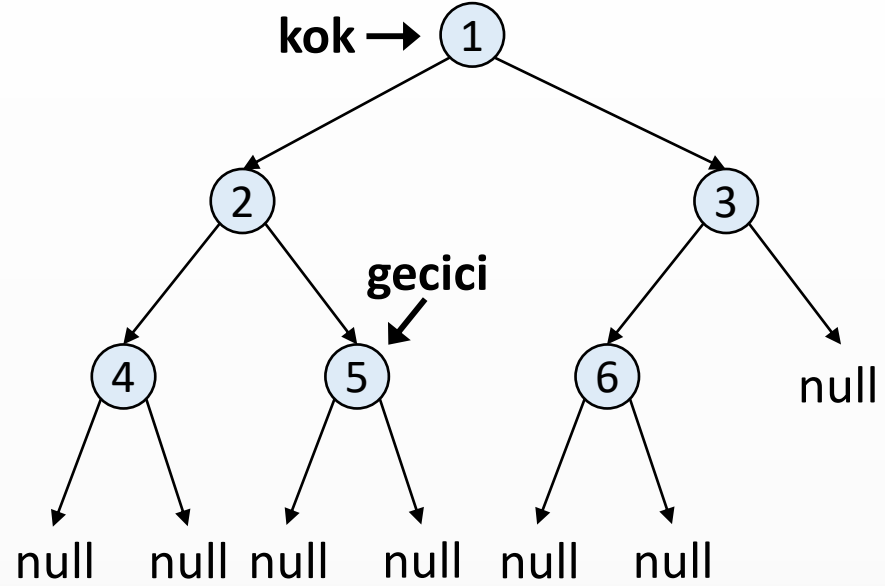
Çıktı: 4 2

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    }  
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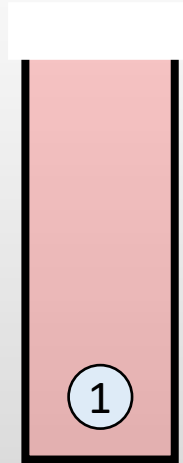
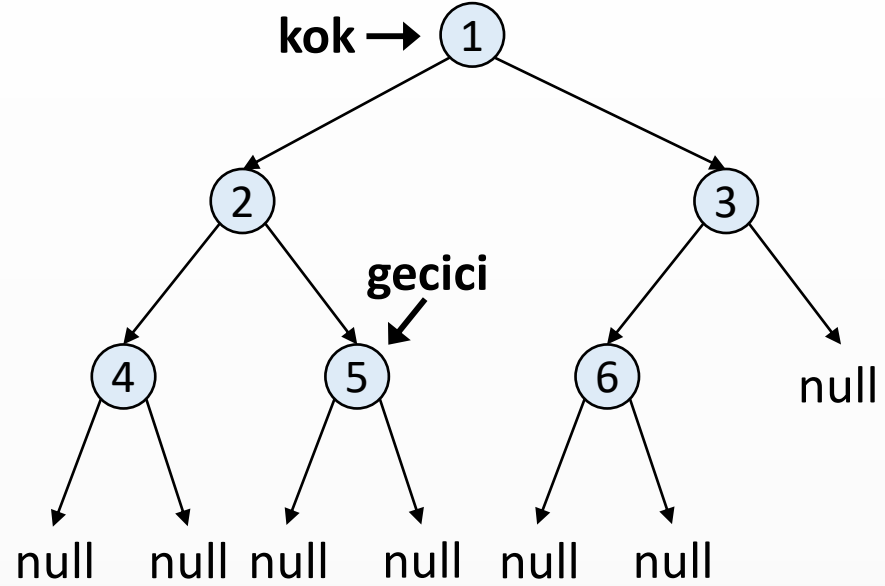
Çıktı: 4 2

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



Çıktı: 4 2

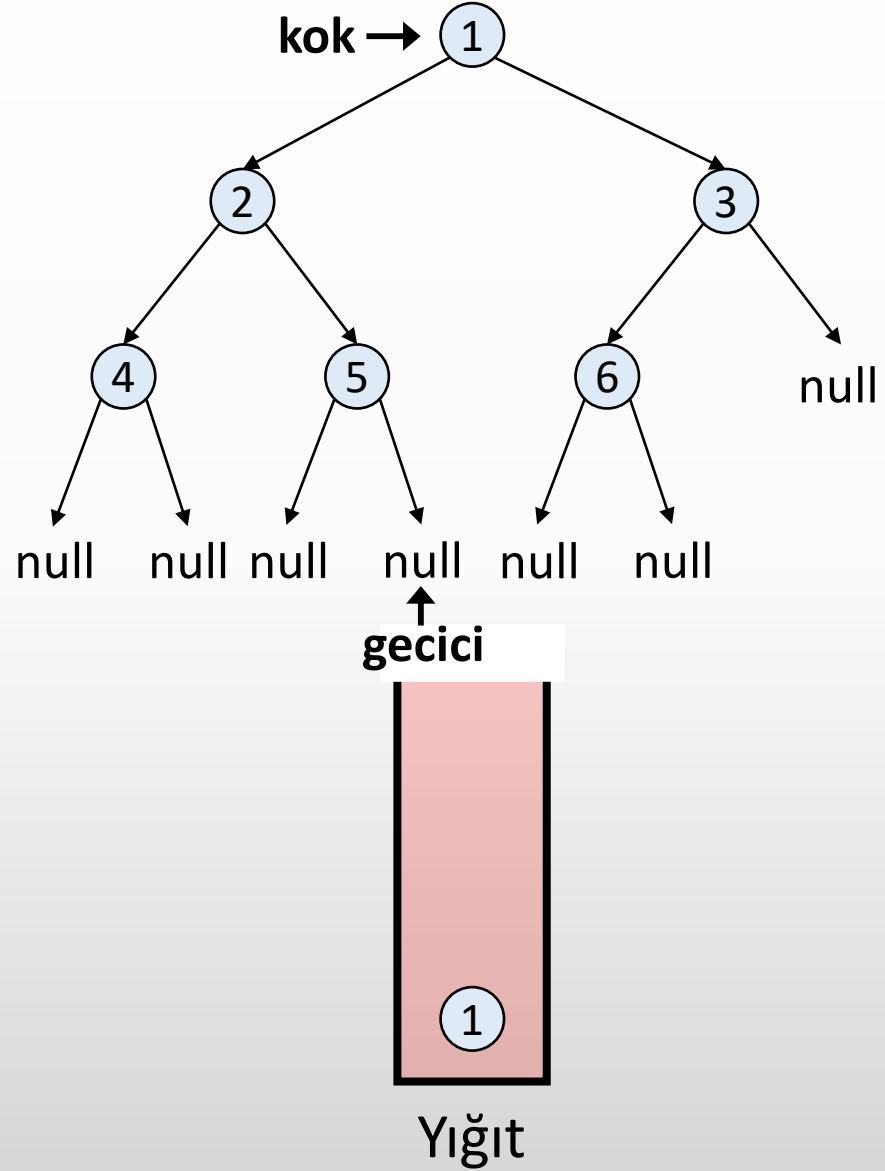
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



Yığıt

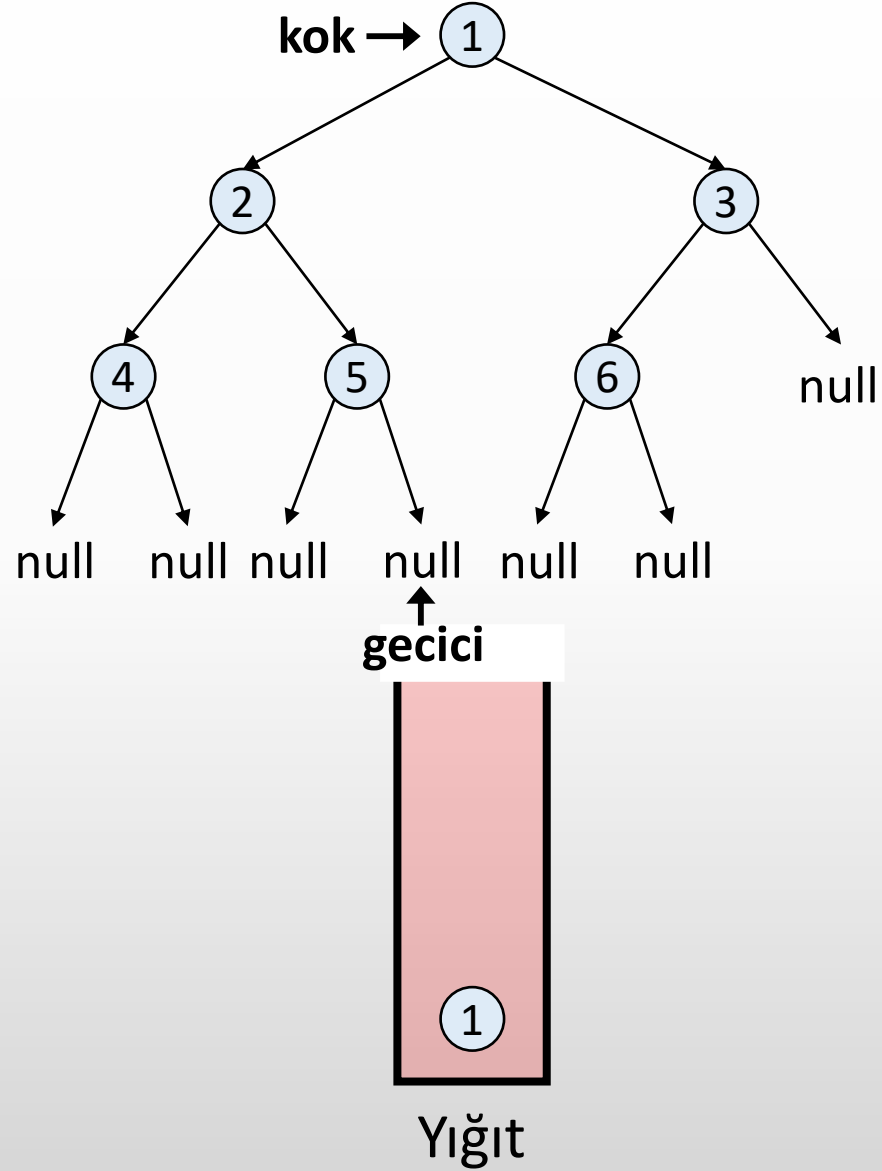
Çıktı: 4 2 5

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



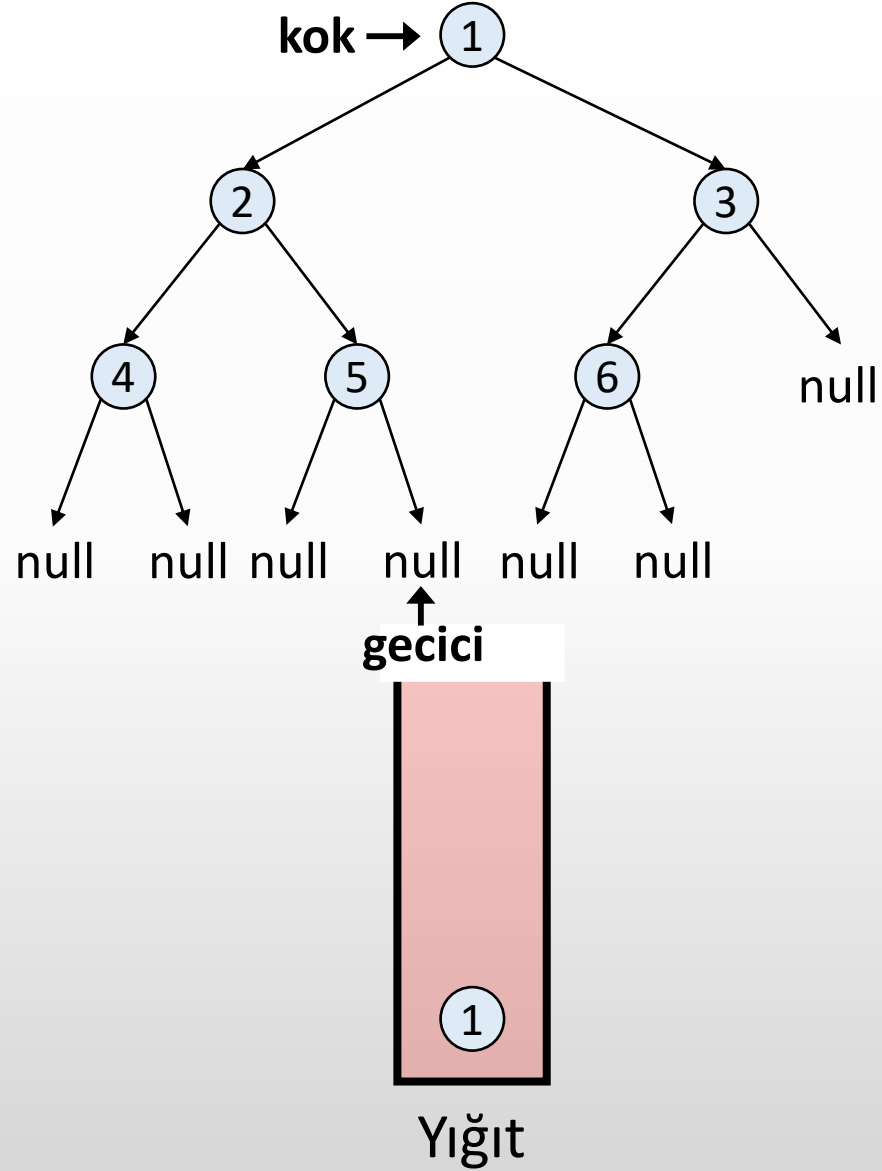
Çıktı: 4 2 5

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



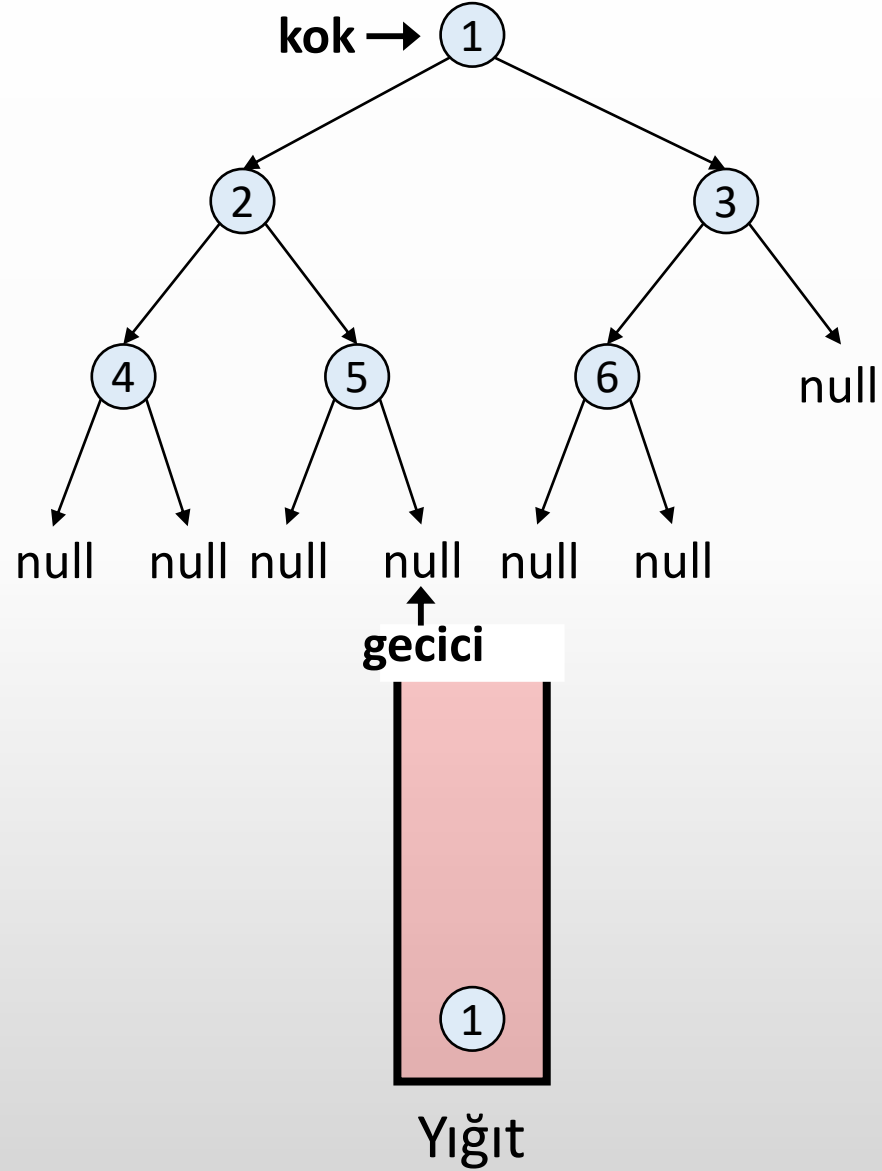
Çıktı: 4 2 5

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
→ while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



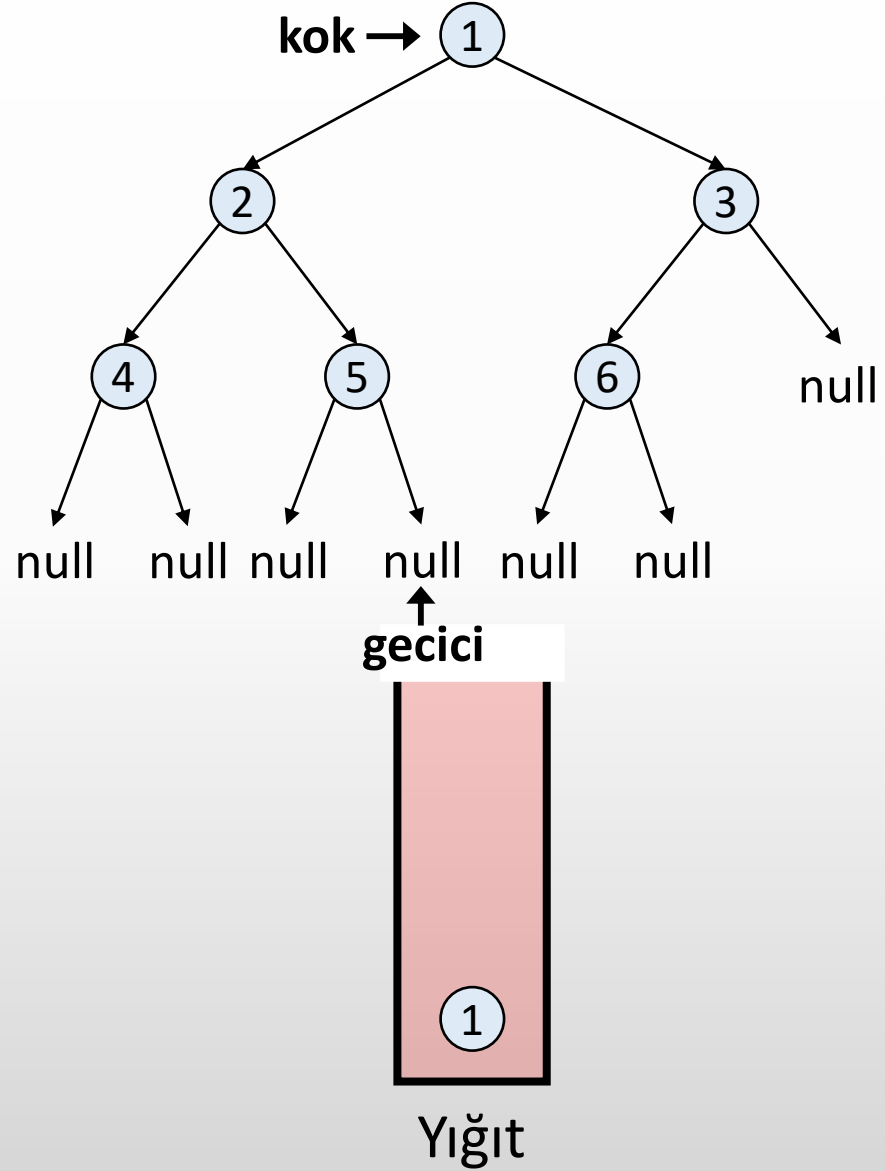
Çıktı: 4 2 5

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



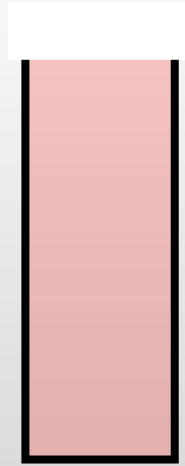
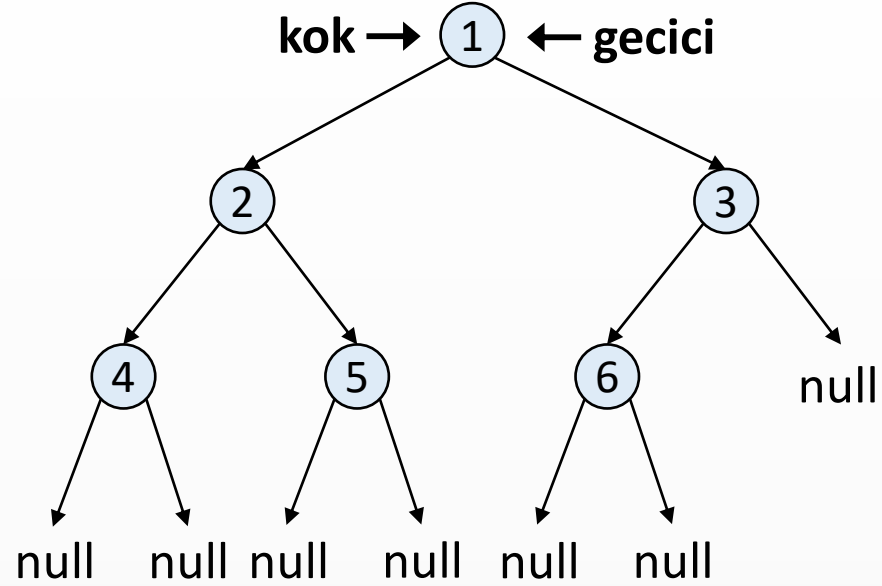
Çıktı: 4 2 5

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



Çıktı: 4 2 5

```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```

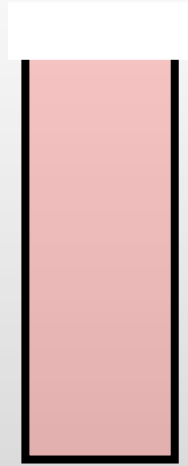
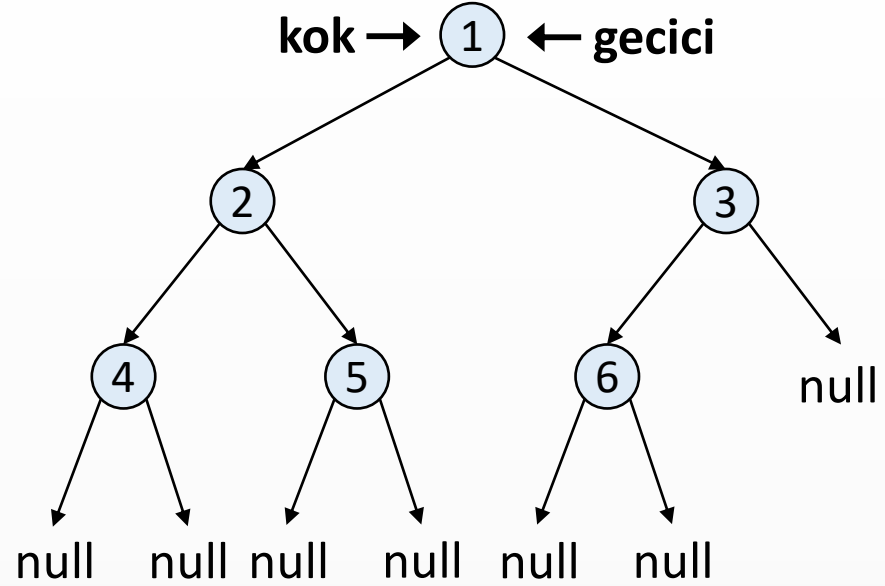



Yığıt

Çıktı: 4 2 5

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



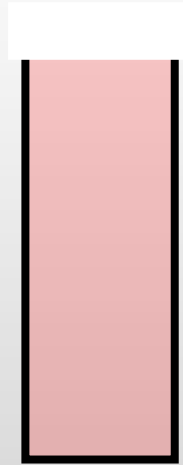
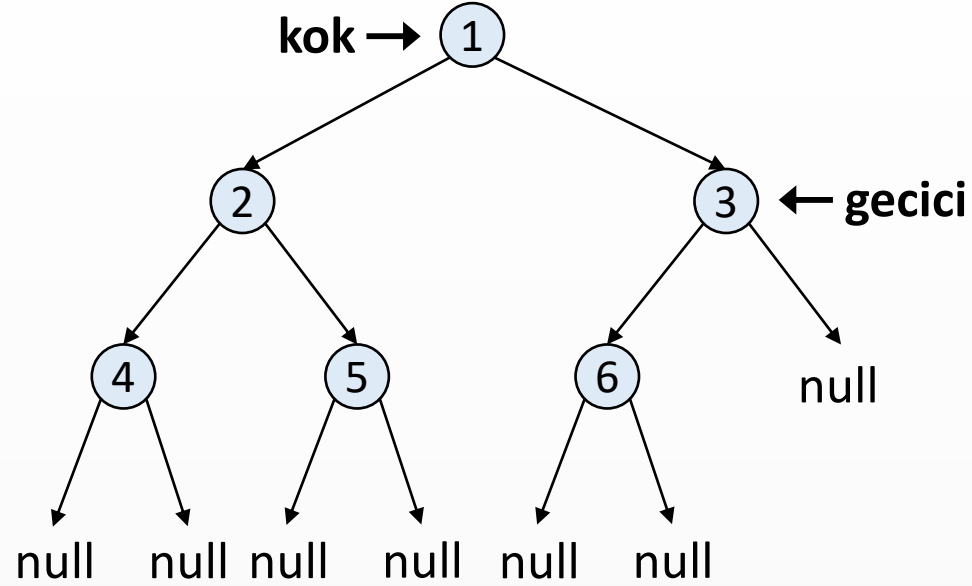


Yığıt

Çıktı: 4 2 5 1

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



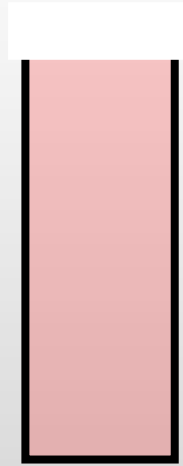
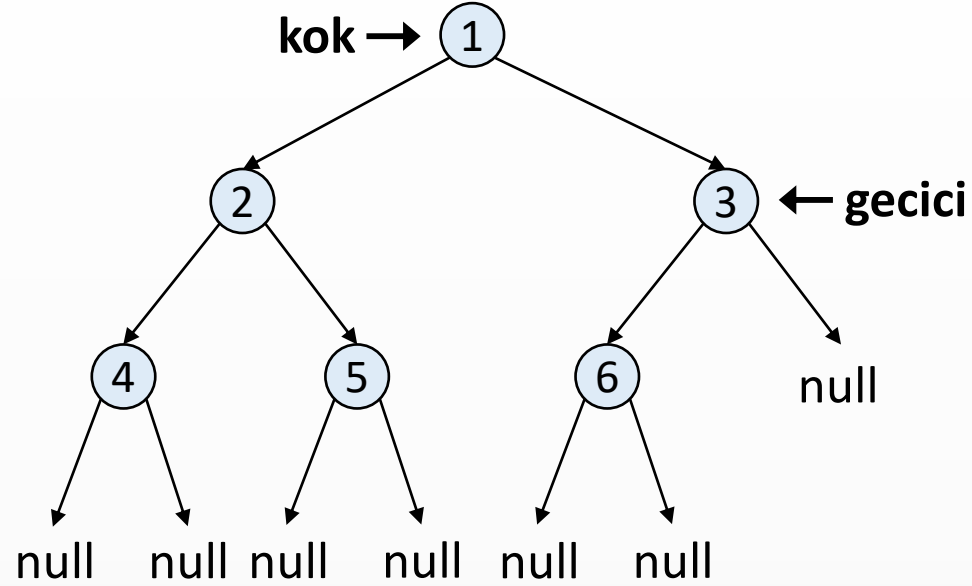


Yığıt

Çıktı: 4 2 5 1

```
if(kok == null) {
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}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
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    if(gecici != null) {
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        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```

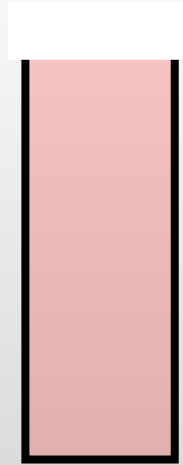
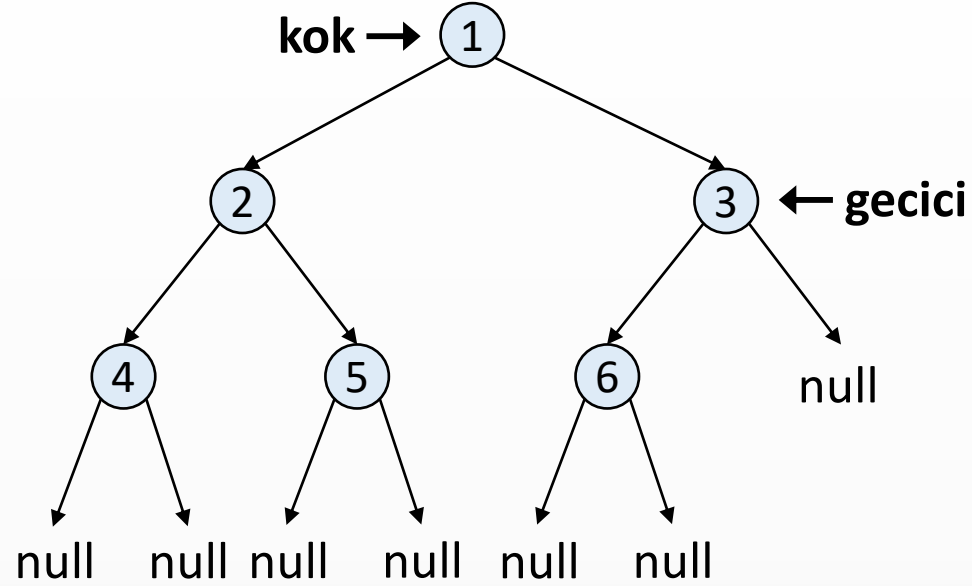




Yığıt

Çıktı: 4 2 5 1

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
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    }
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        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```

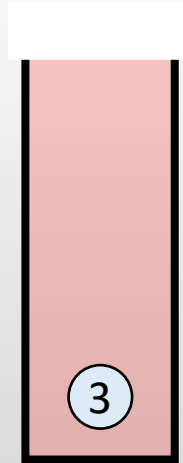
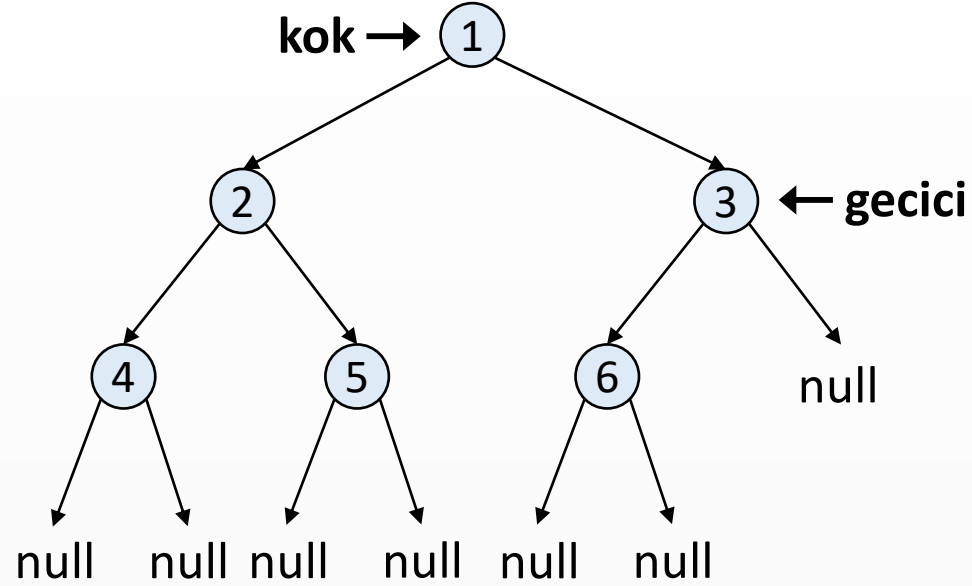


Yığıt

Çıktı: 4 2 5 1

```
if(kok == null) {
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}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
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        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



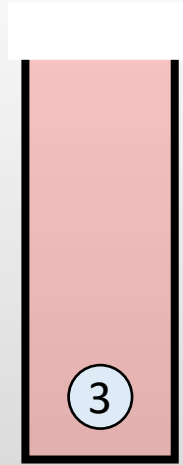
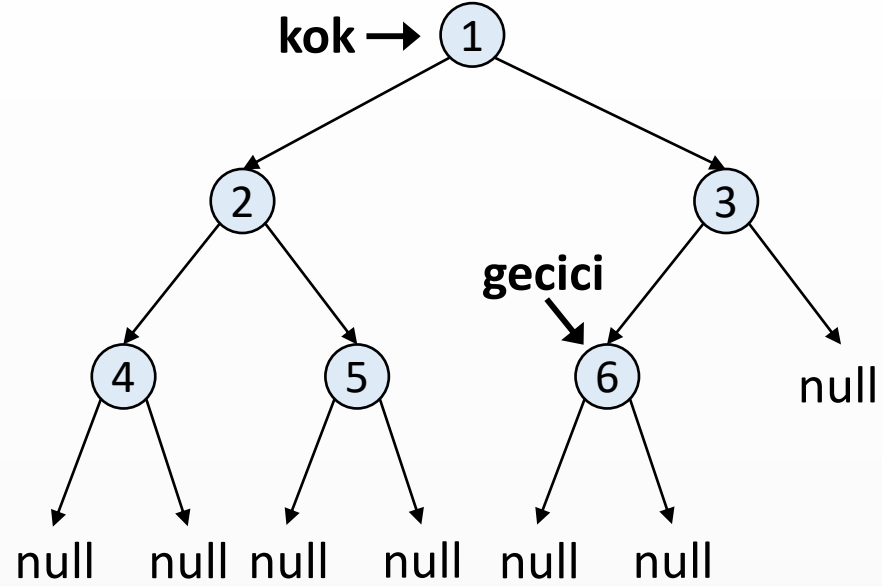


Yığıt

Çıktı: 4 2 5 1

```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```

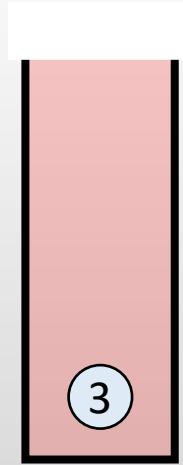
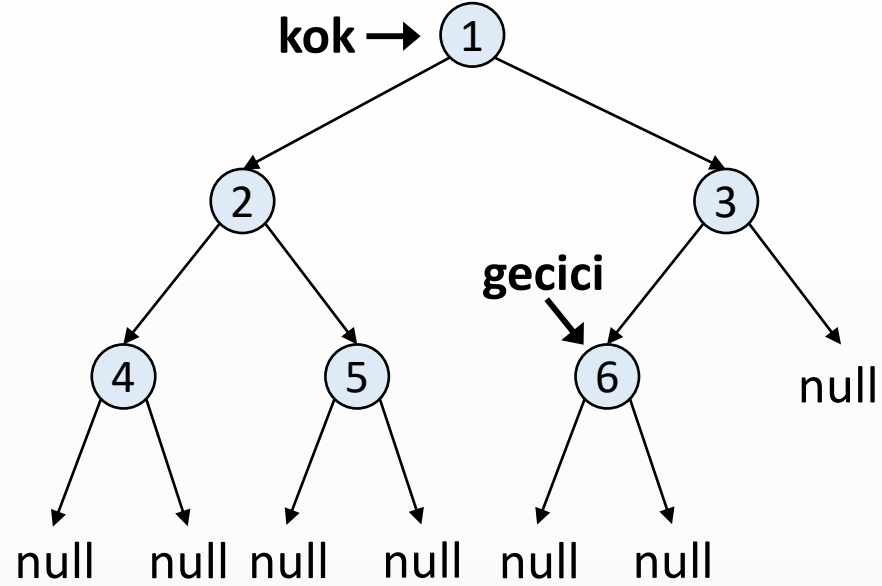




Yığıt

Çıktı: 4 2 5 1

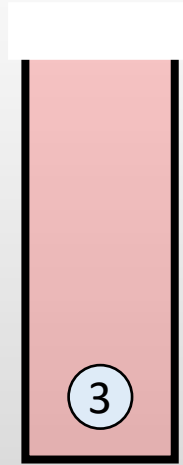
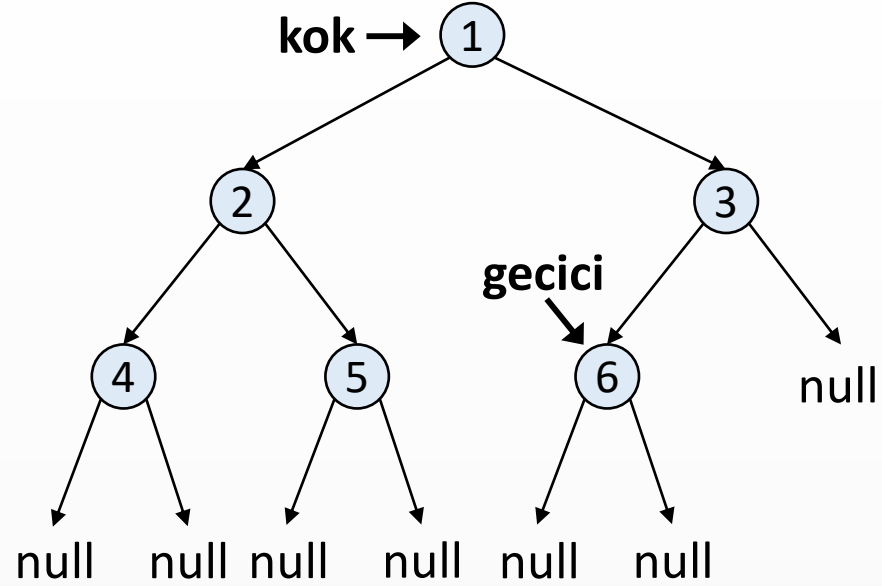
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
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        gecici = gecici.sol;
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        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



Yığıt

Çıktı: 4 2 5 1

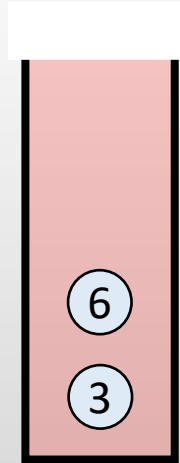
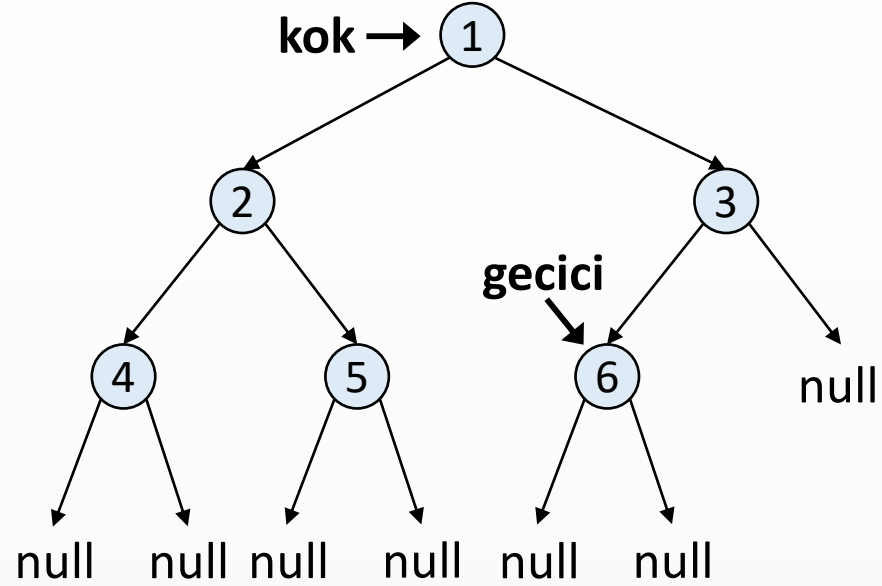
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
→ while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```

Yığıt

Çıktı: 4 2 5 1

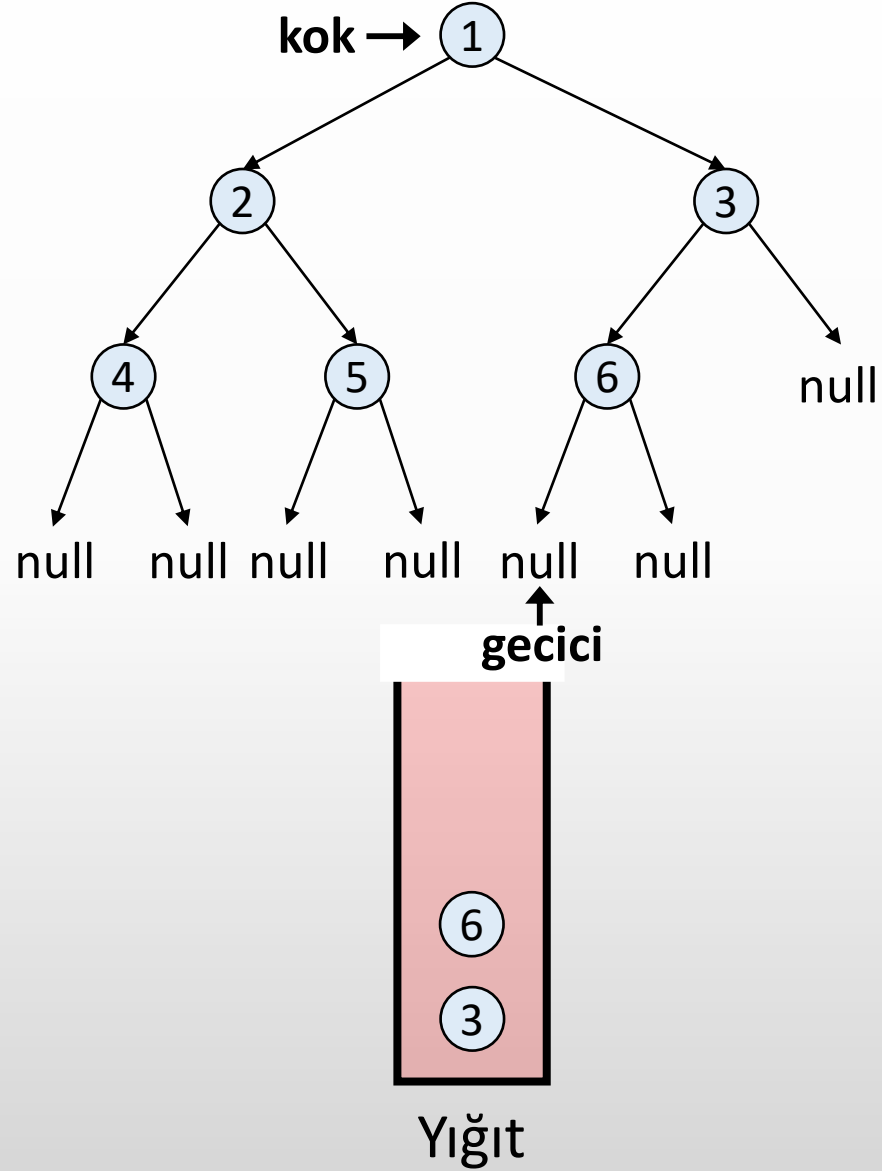
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
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    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```



Yığıt

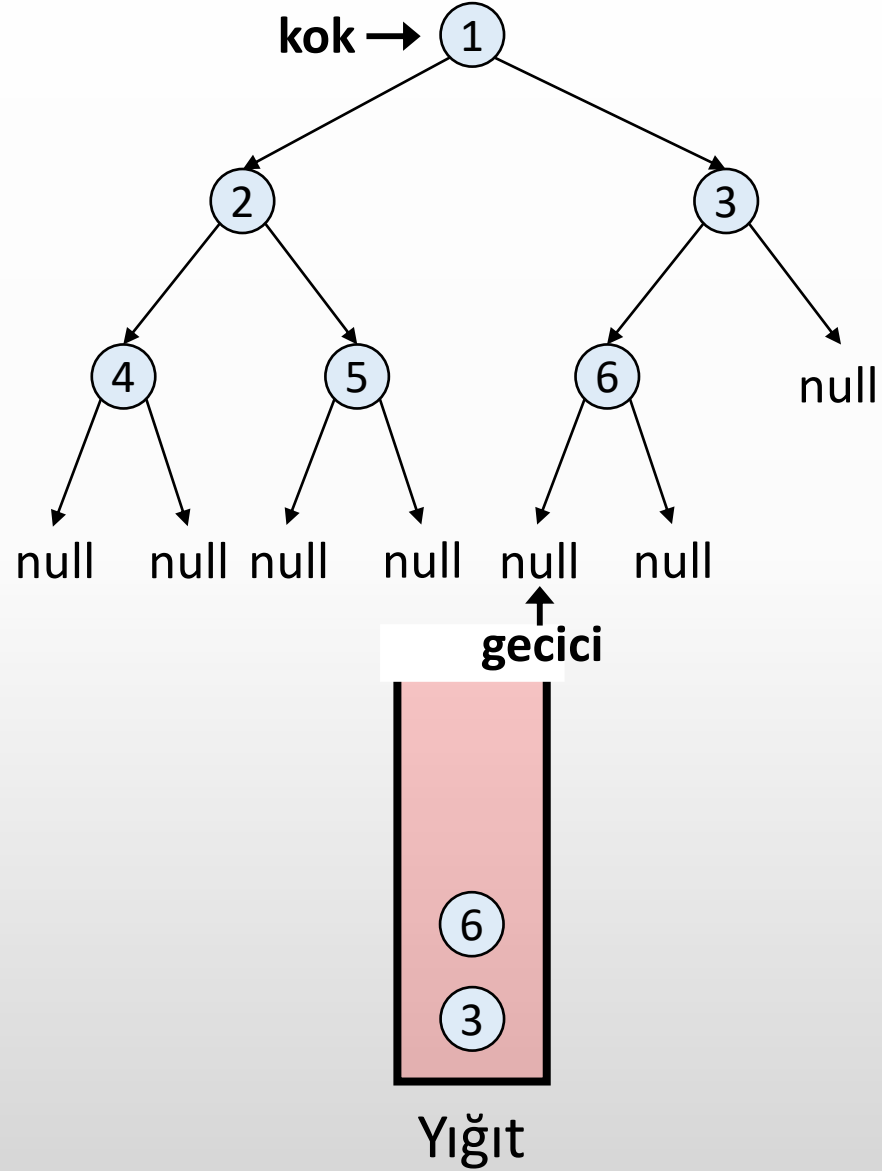
Çıktı: 4 2 5 1

```
if(kok == null) {
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Stack<AgacDugumu> yigit = new Stack<>();
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```



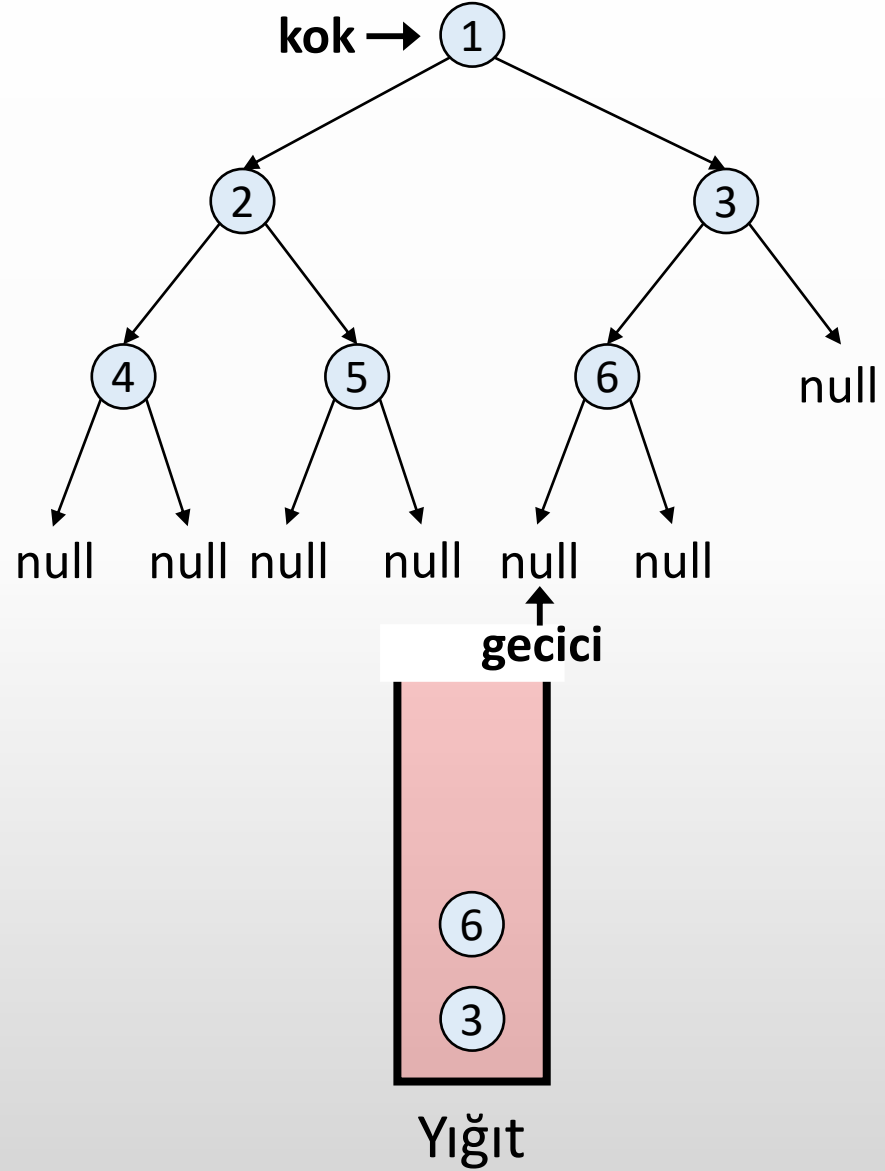
Çıktı: 4 2 5 1

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



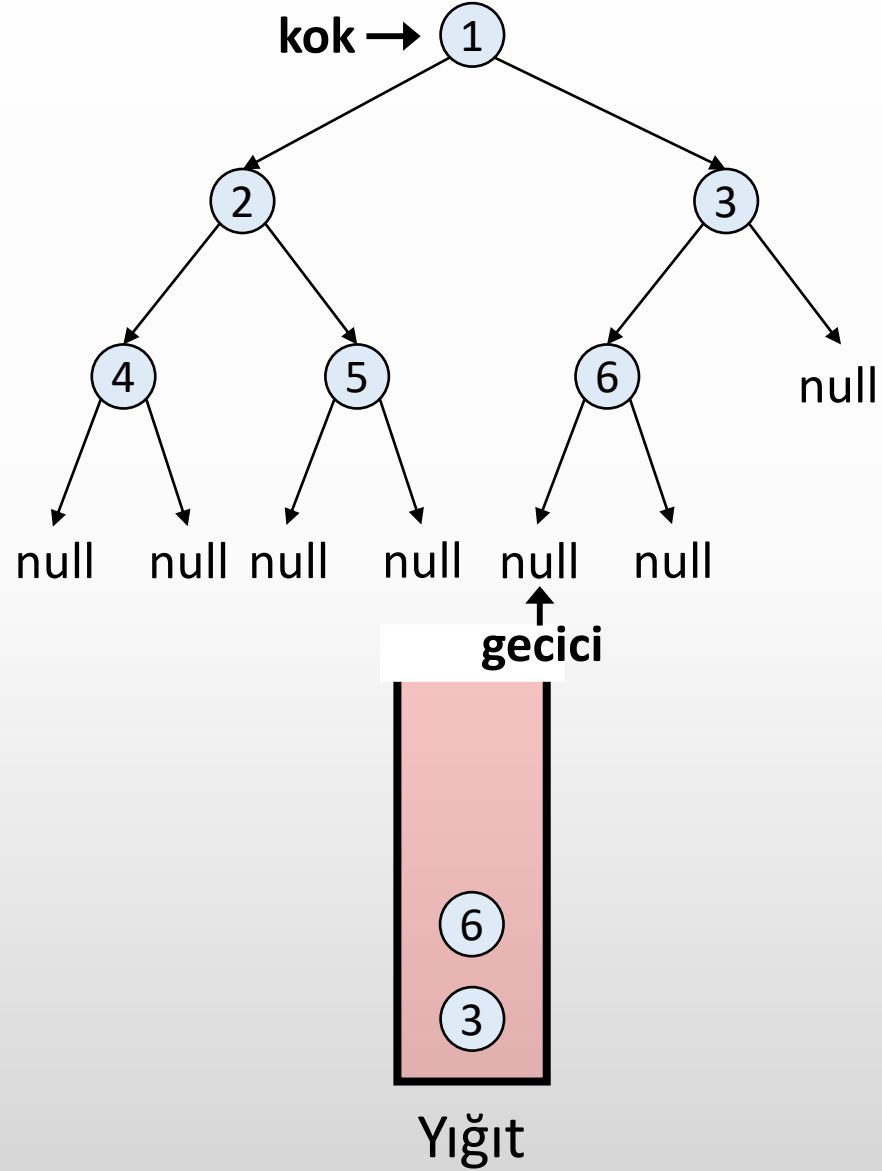
Çıktı: 4 2 5 1

```
if(kok == null) {
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}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
→ while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
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        gecici = gecici.sol;
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    }
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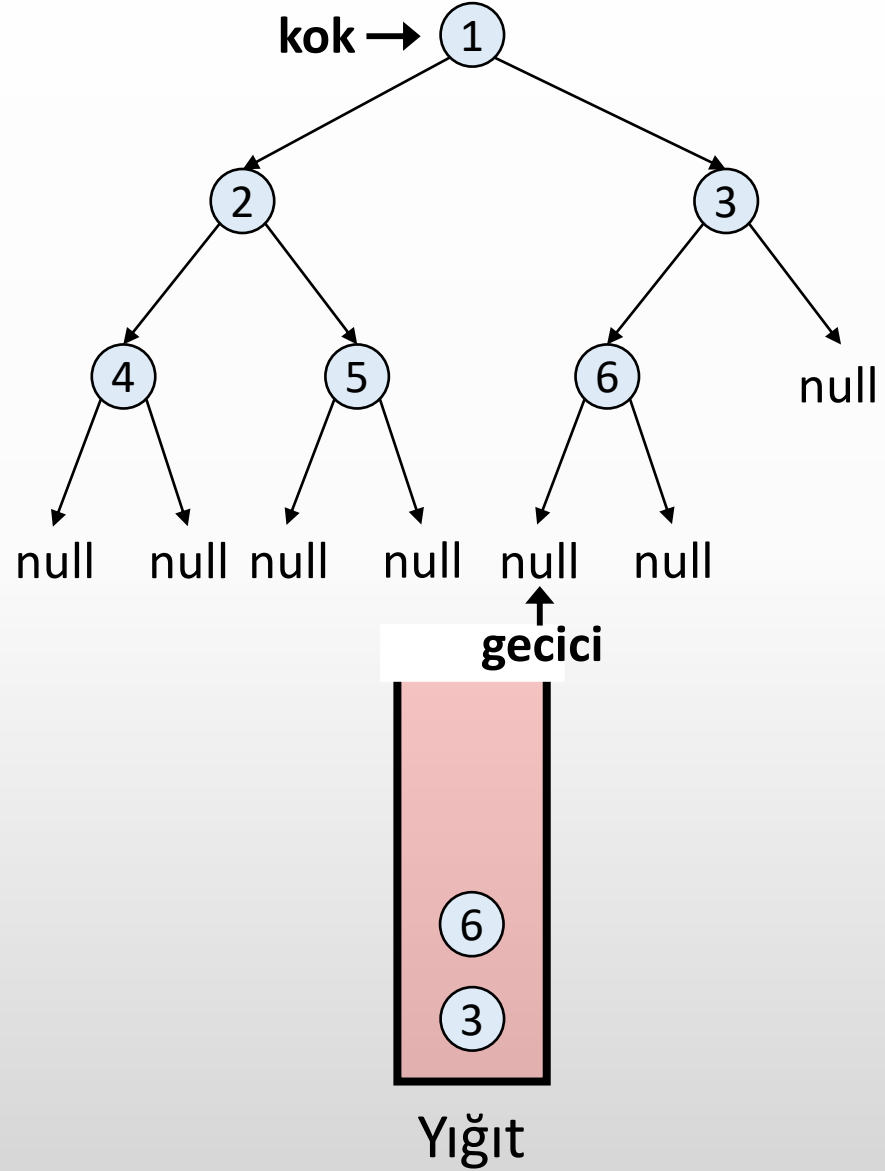
Çıktı: 4 2 5 1

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if(kok == null) {  
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    if(gecici != null) {  
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    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



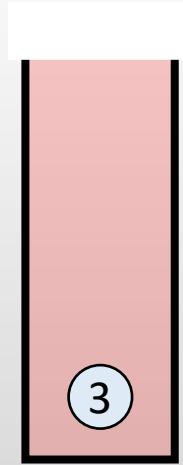
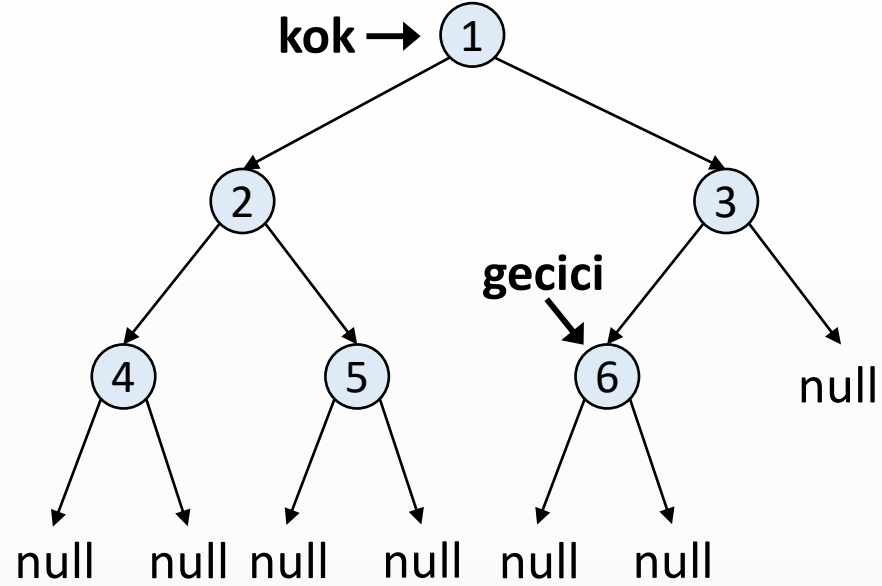
Çıktı: 4 2 5 1

```
if(kok == null) {  
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while(!yigit.isEmpty() || gecici != null) {  
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    }  
    else {  
        gecici = yigit.pop();  
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        gecici = gecici.sag;  
    }  
}
```



Çıktı: 4 2 5 1

```
if(kok == null) {  
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AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
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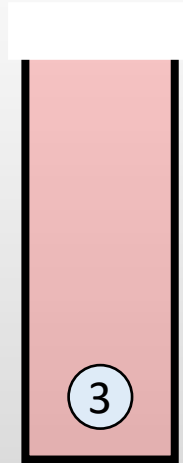
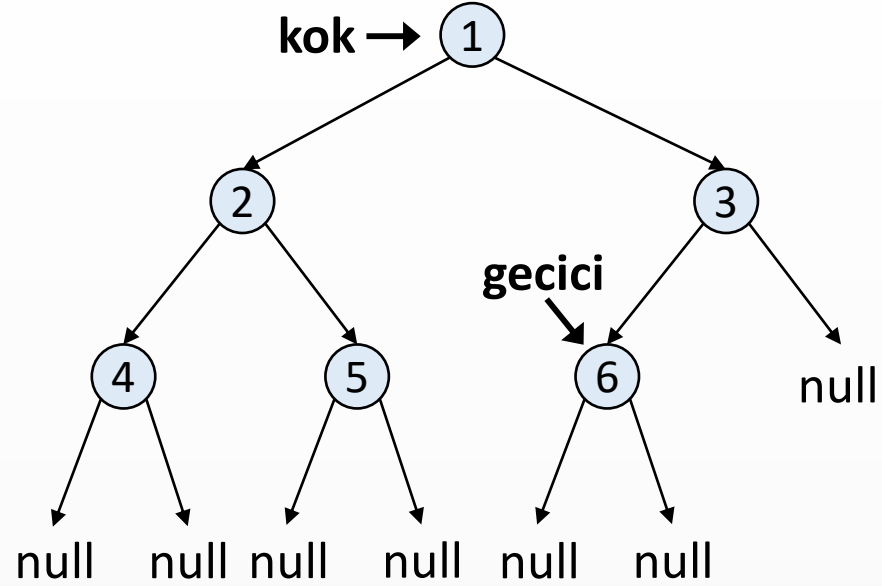


Yığıt

Çıktı: 4 2 5 1

```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
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    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



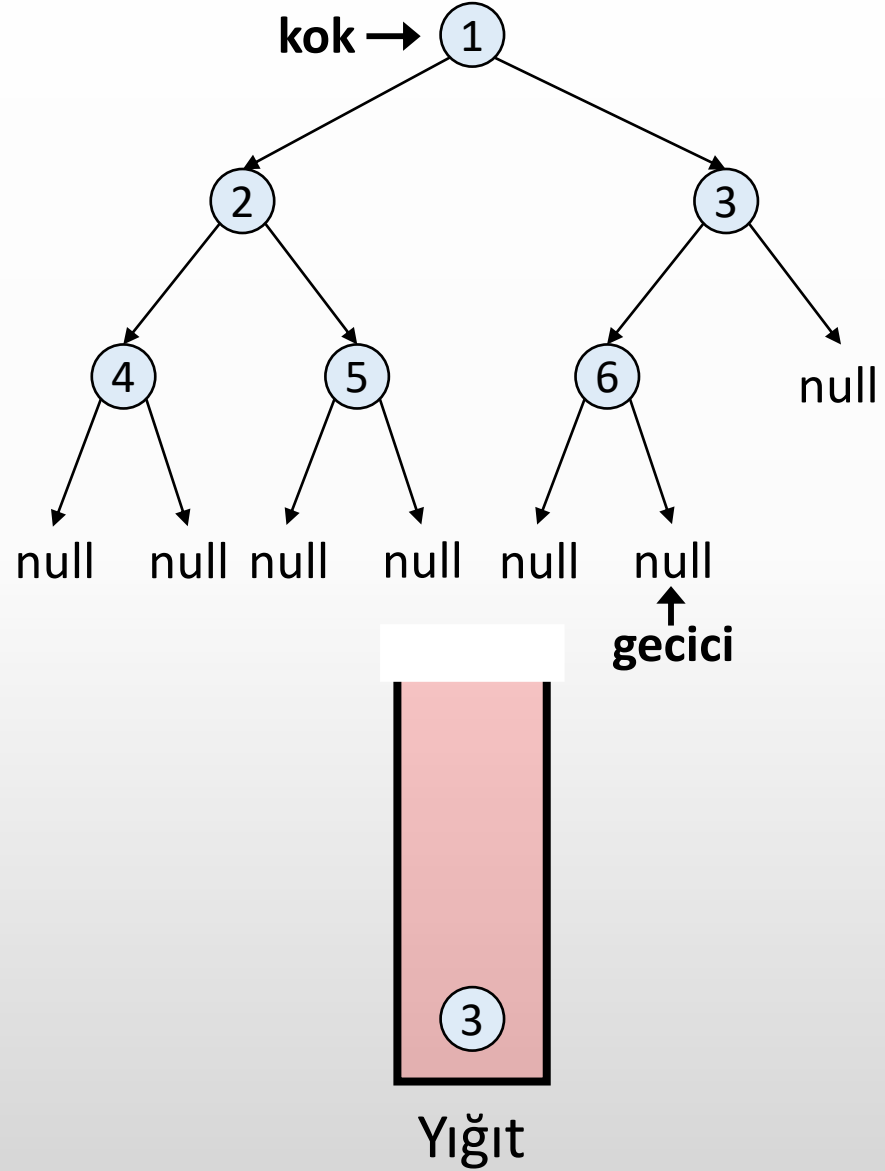


Yığıt

Çıktı: 4 2 5 1 6

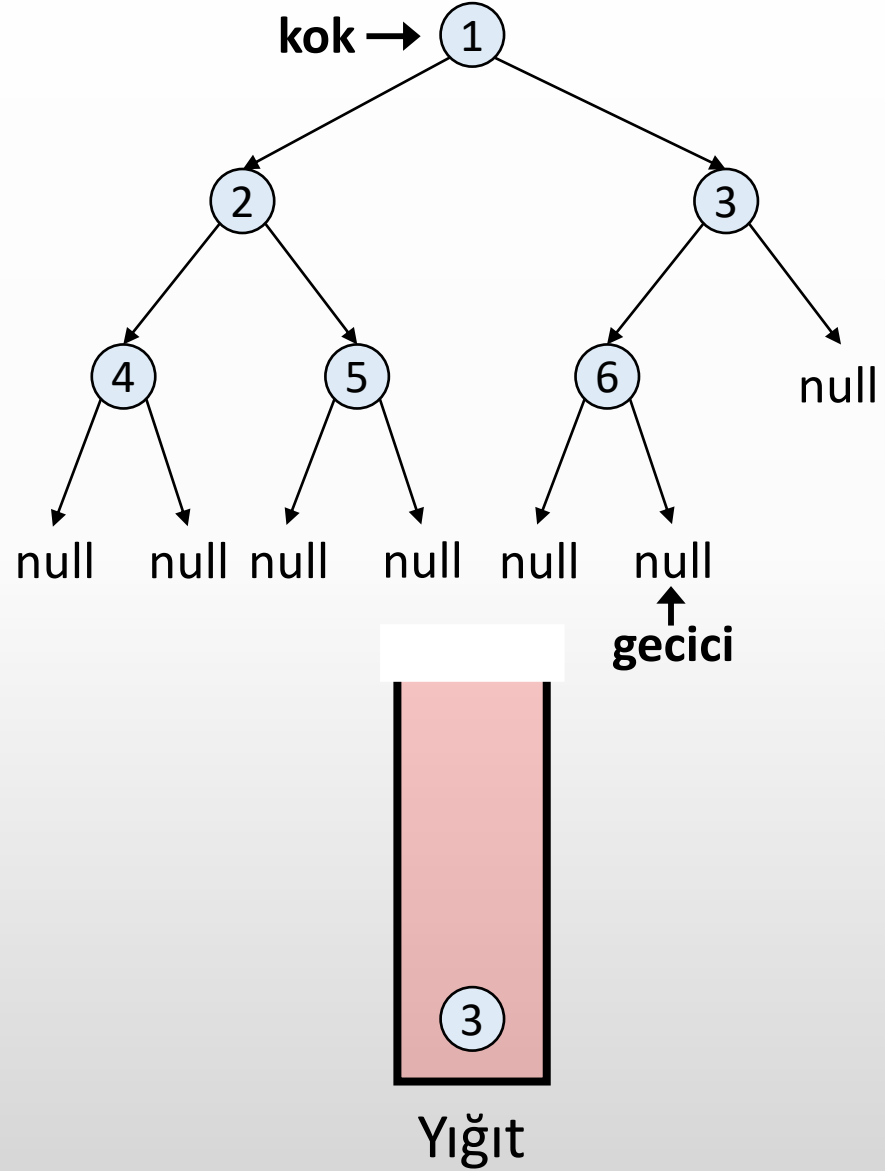
```
if(kok == null) {
    return;
}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
while(!yigit.isEmpty() || gecici != null) {
    if(gecici != null) {
        yigit.push(gecici);
        gecici = gecici.sol;
    }
    else {
        gecici = yigit.pop();
        System.out.print(gecici.veri + " ");
        gecici = gecici.sag;
    }
}
```





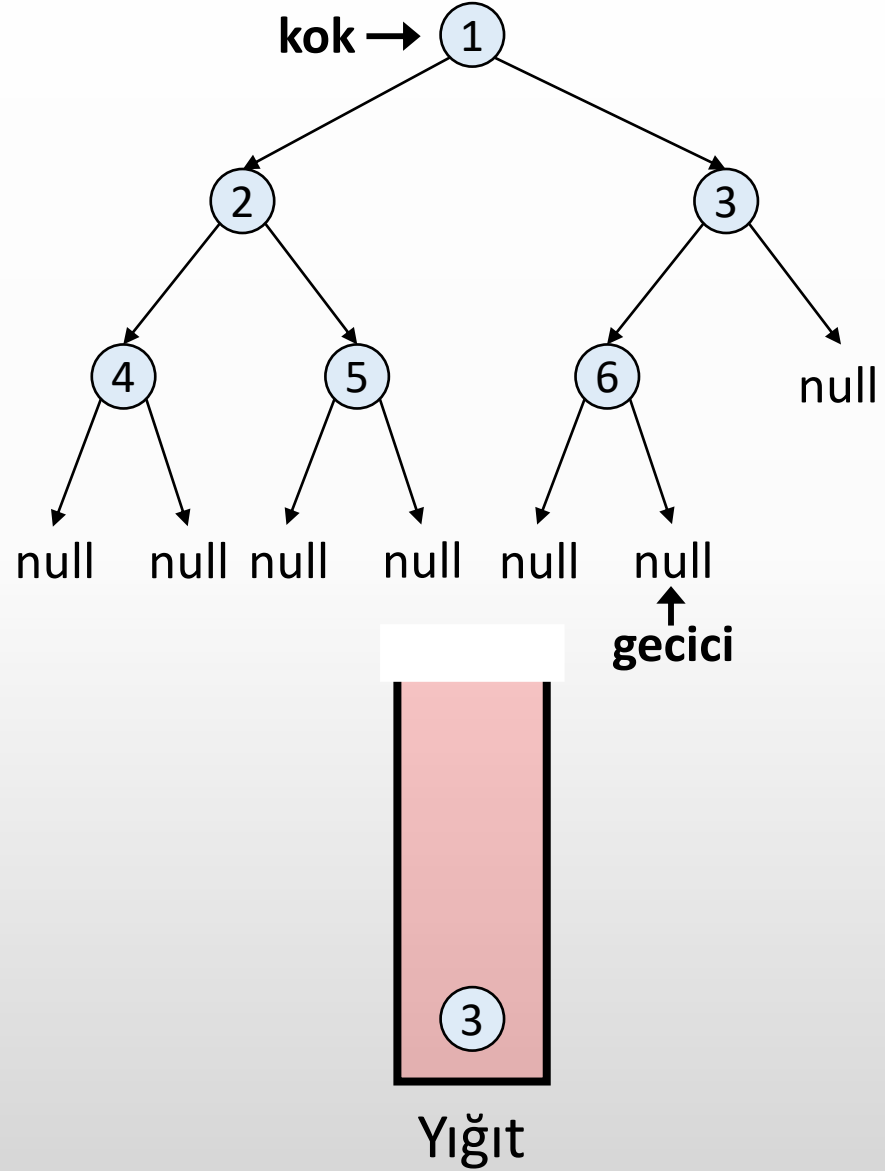
Çıktı: 4 2 5 1 6

```
if(kok == null) {
    return;
}
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        System.out.print(gecici.veri + " ");
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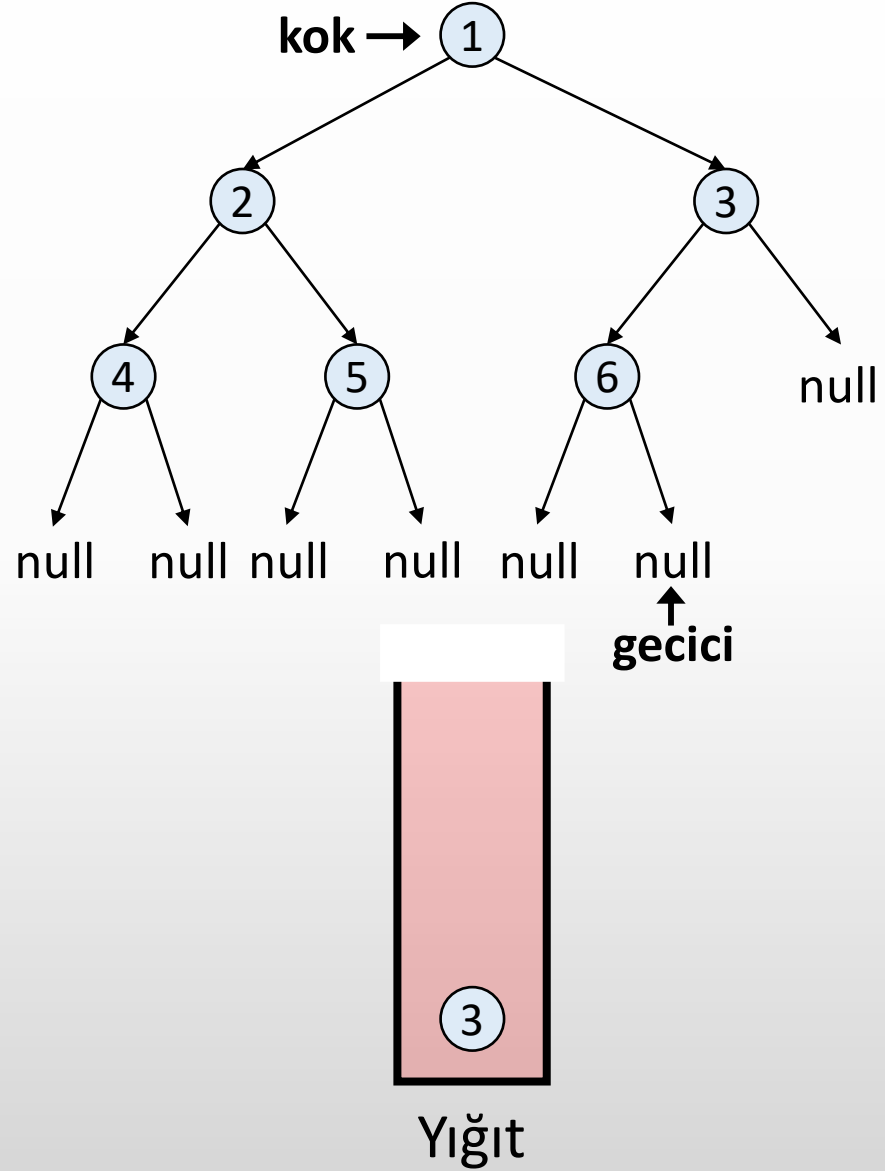
Çıktı: 4 2 5 1 6

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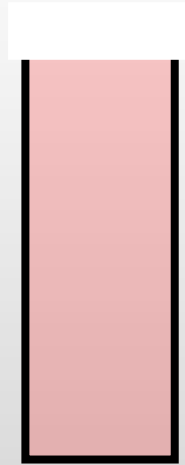
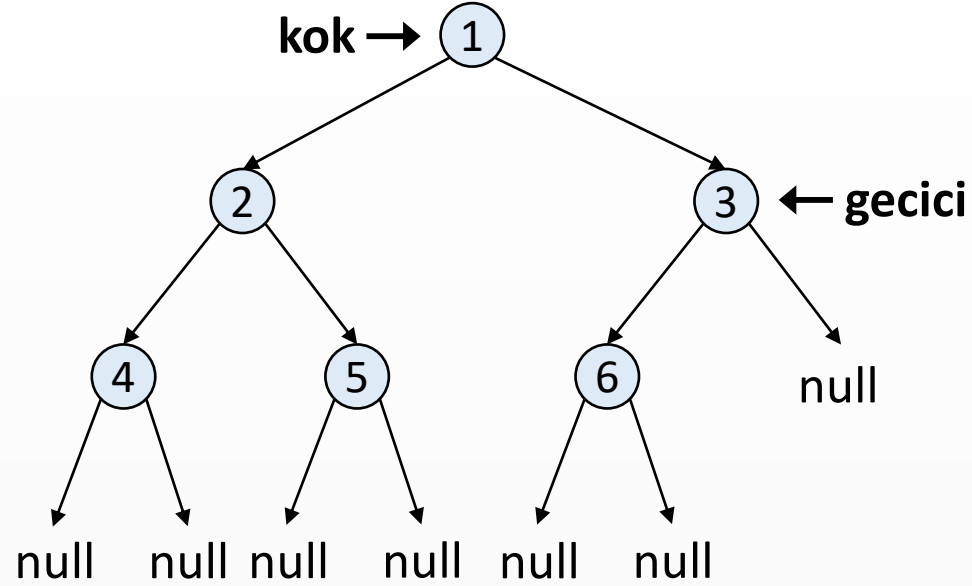
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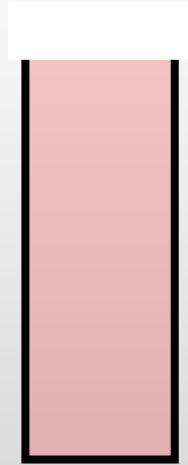
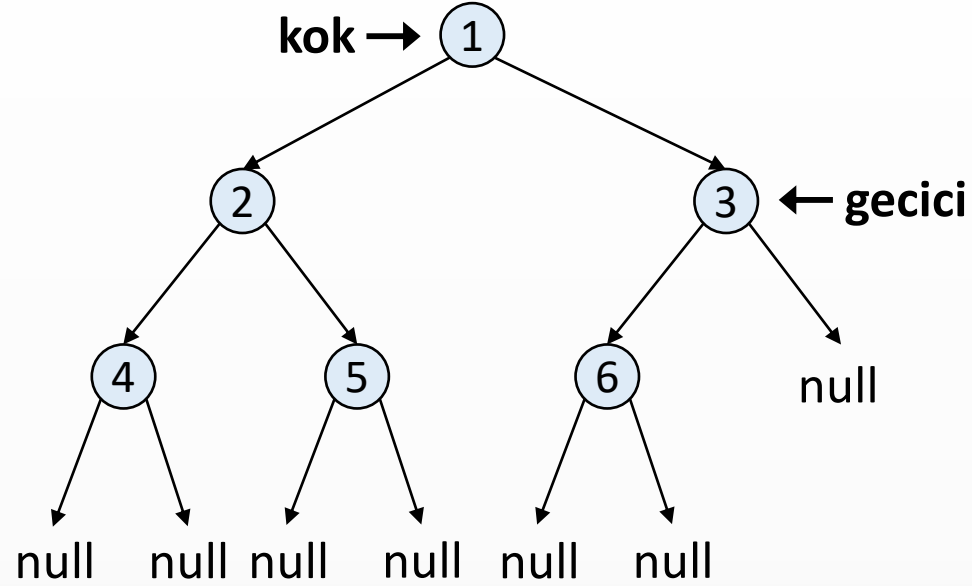


Yığıt

Çıktı: 4 2 5 1 6

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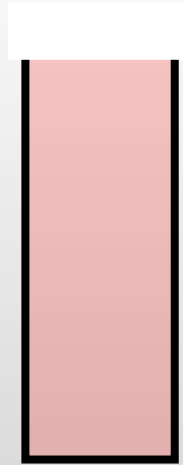
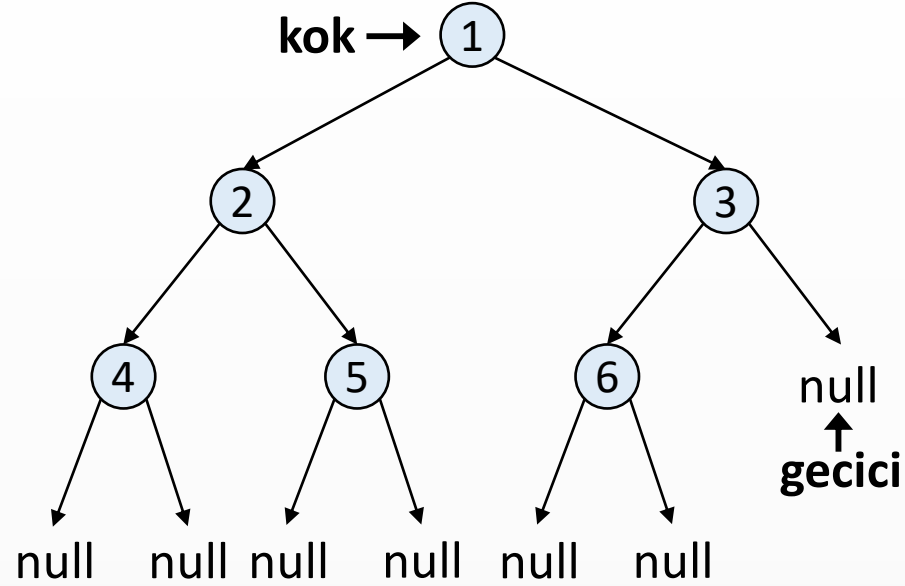


Yığıt

Çıktı: 4 2 5 1 6 3

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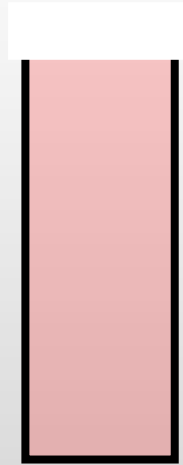
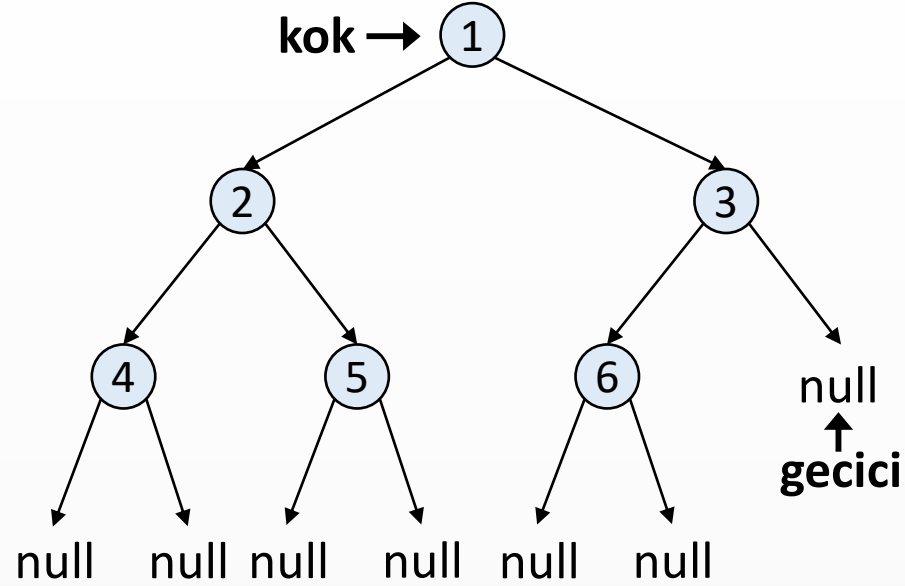




Yığıt

Çıktı: 4 2 5 1 6 3

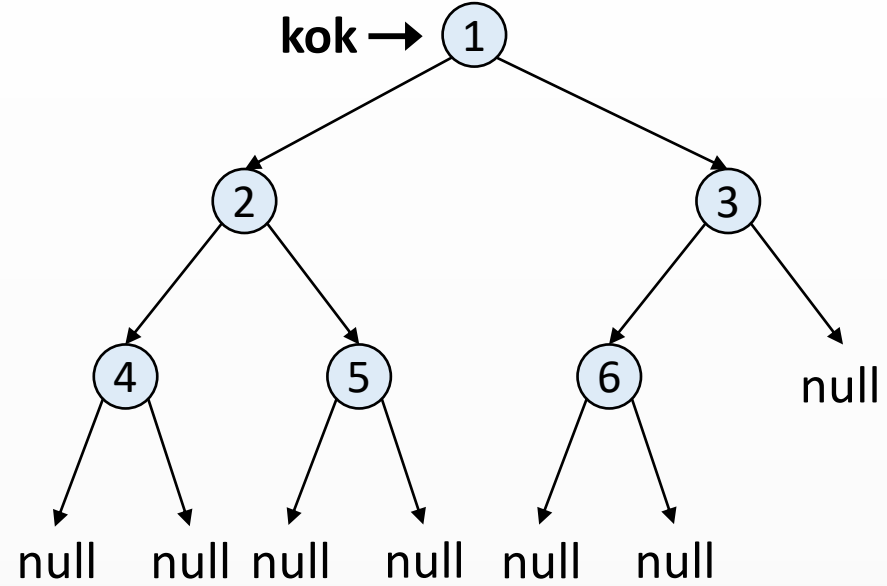
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Yığıt

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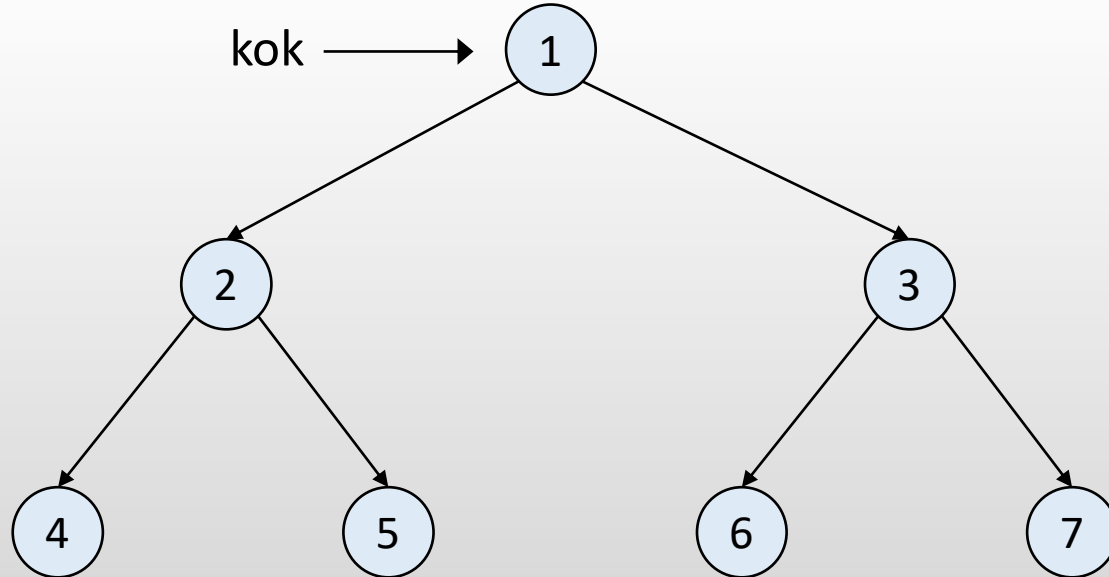
Kök Sonda (Postorder) Dolaşımı





Kök Sonda (Postorder) Dolaşımı

- Kök sonda olacak şekilde sol alt ağacı dolaş.
- Kök sonda olacak şekilde sağ alt ağacı dolaş.
- Kök düğümü ziyaret et.



Kök sonda dolaşımı: **4 5 2 6 7 3 1**

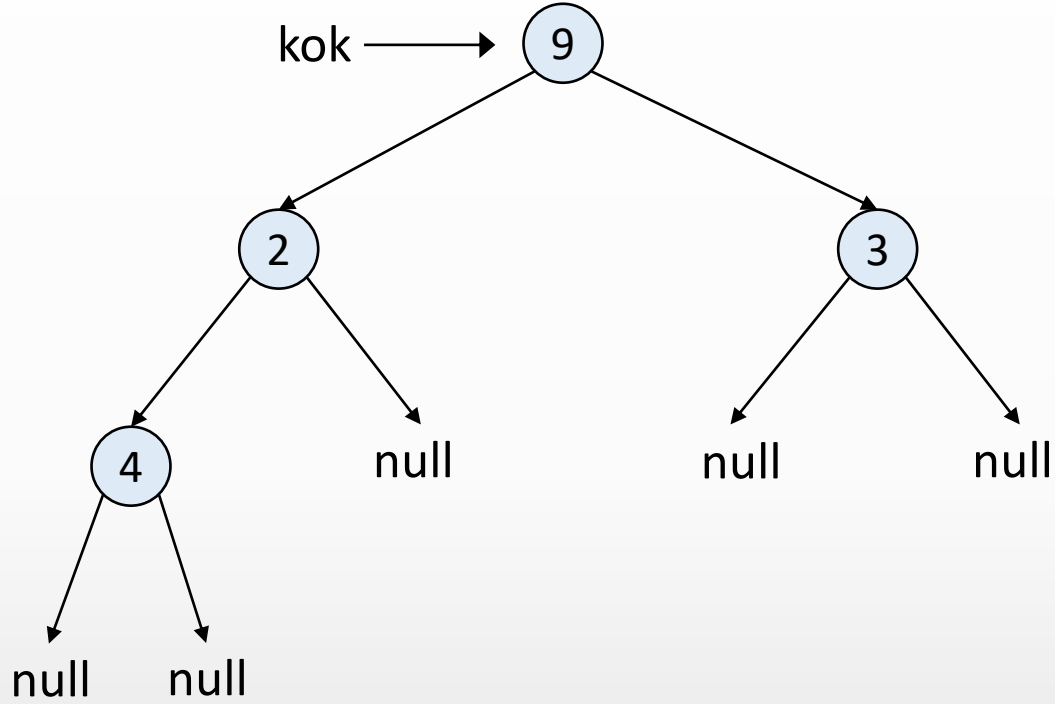


Çağırma Yığıtı (Call Stack)

Metot Çağırımı

Satır Numarası

Kök



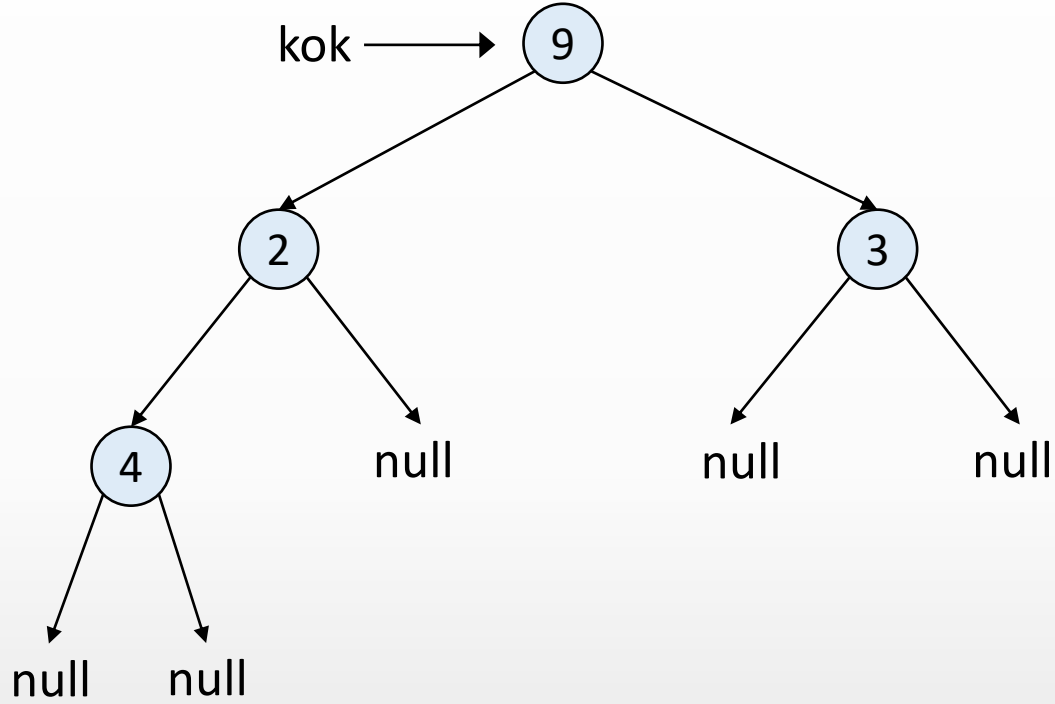
Çıktı:

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7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()		9



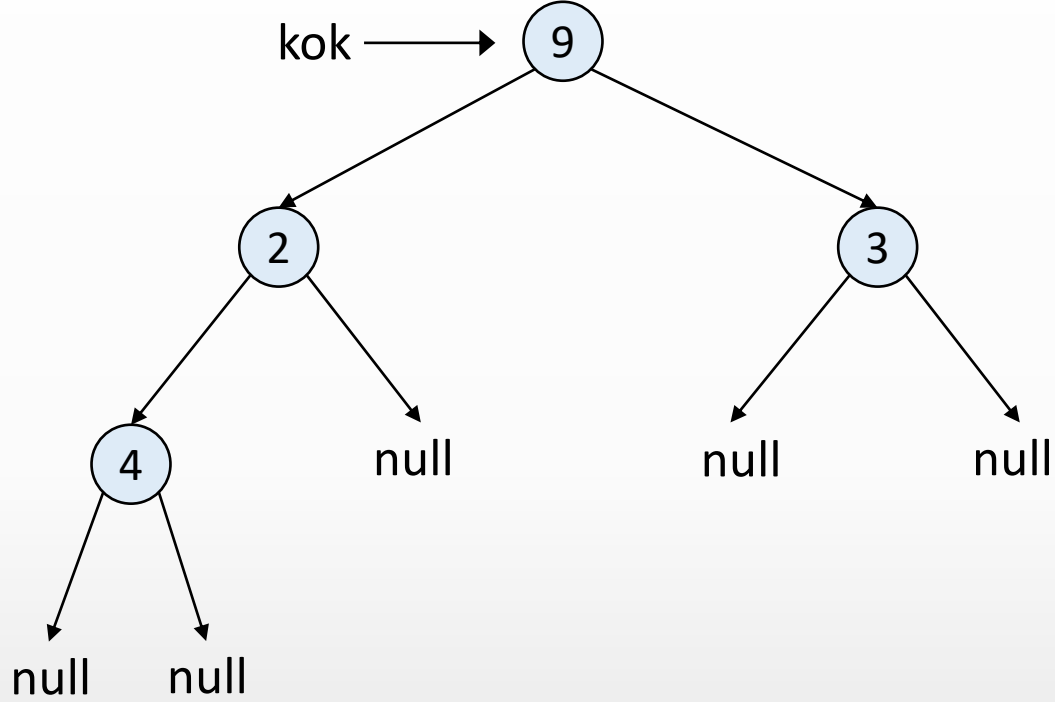
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```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()		9



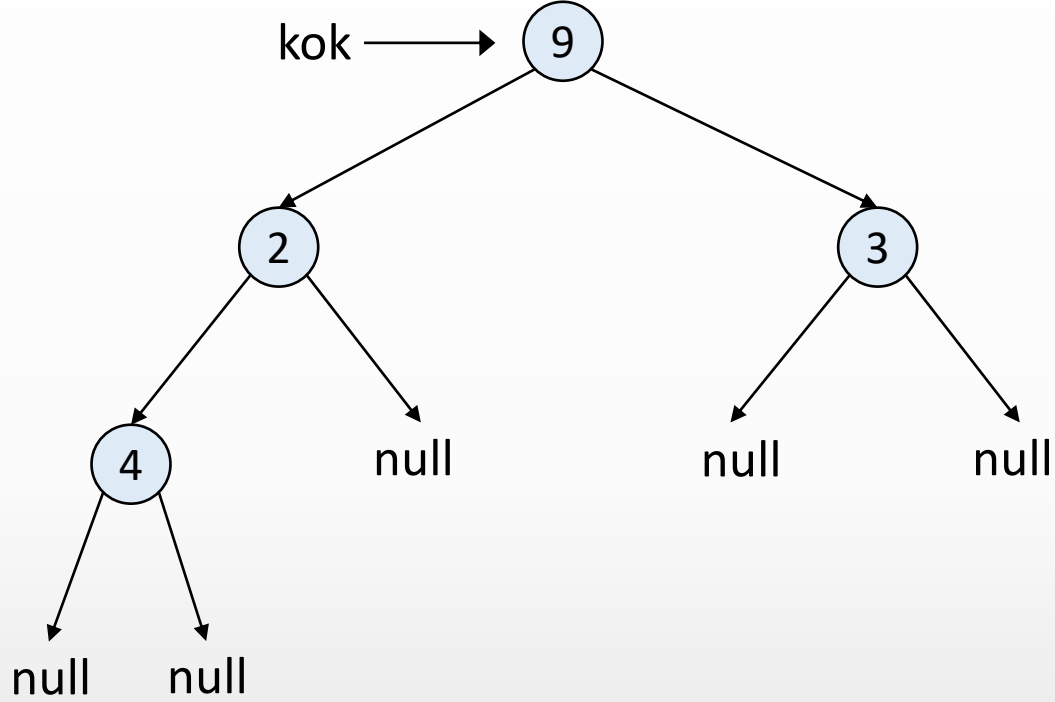
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```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9



Çıktı:

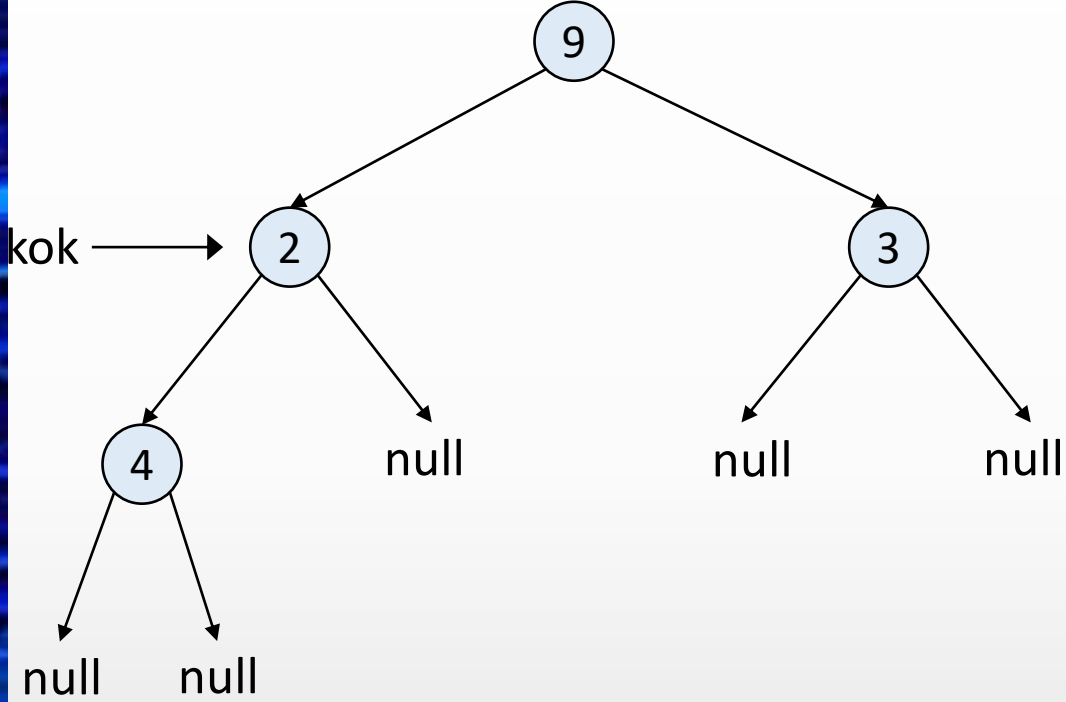


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```




Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()		2



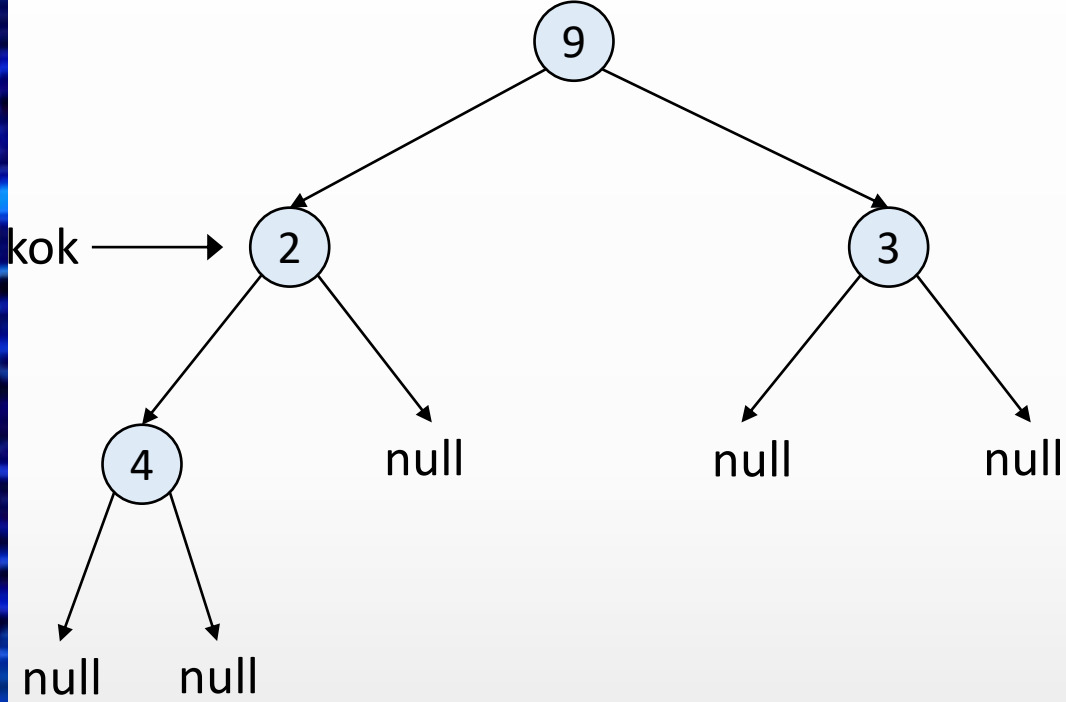
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()		2



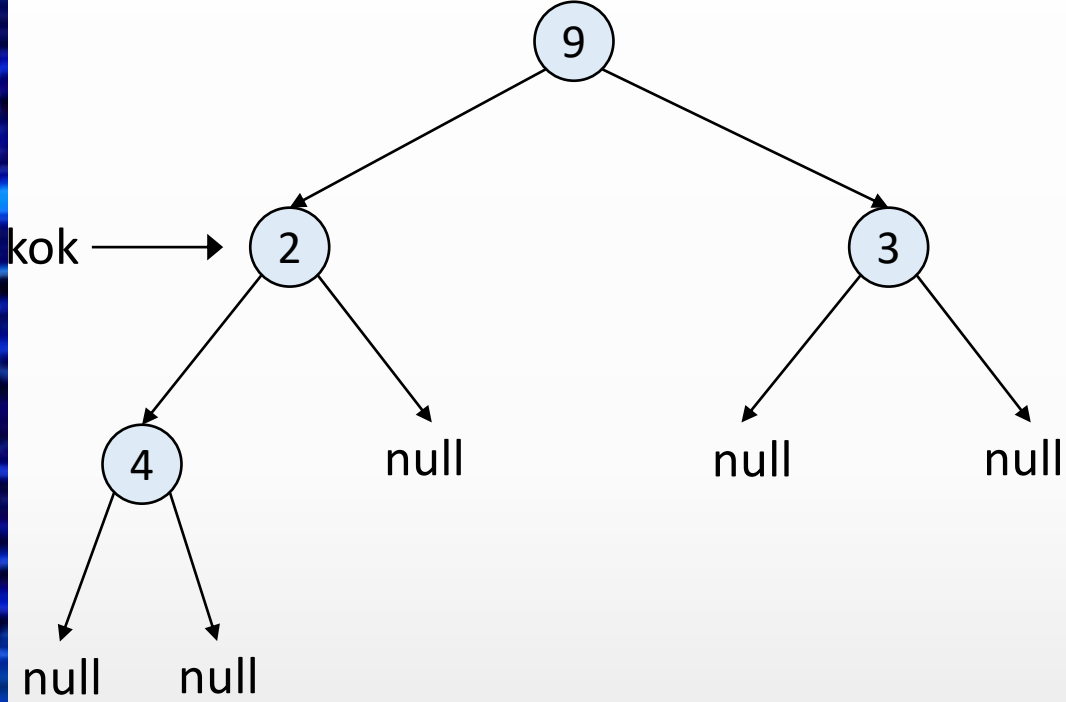
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
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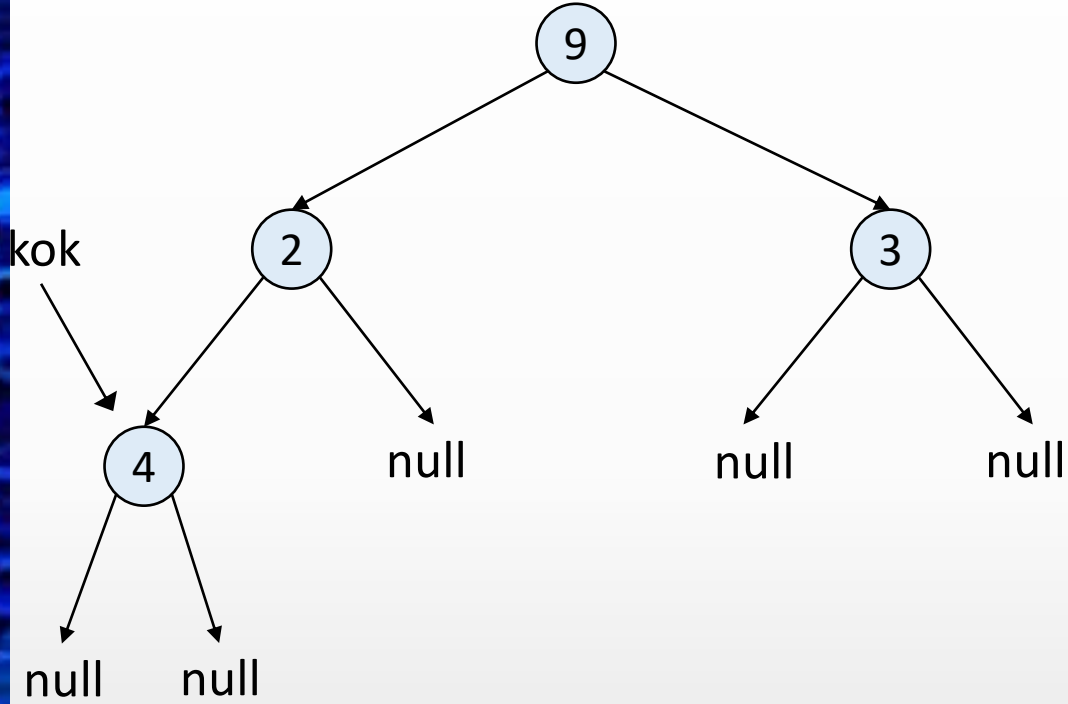
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()		4



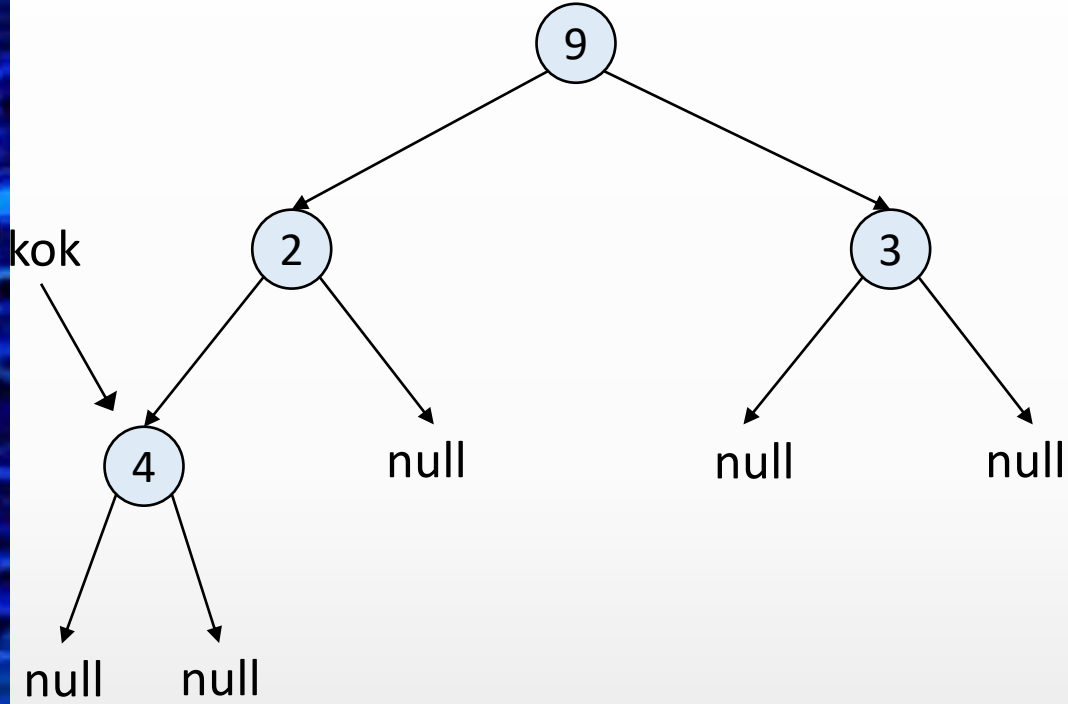
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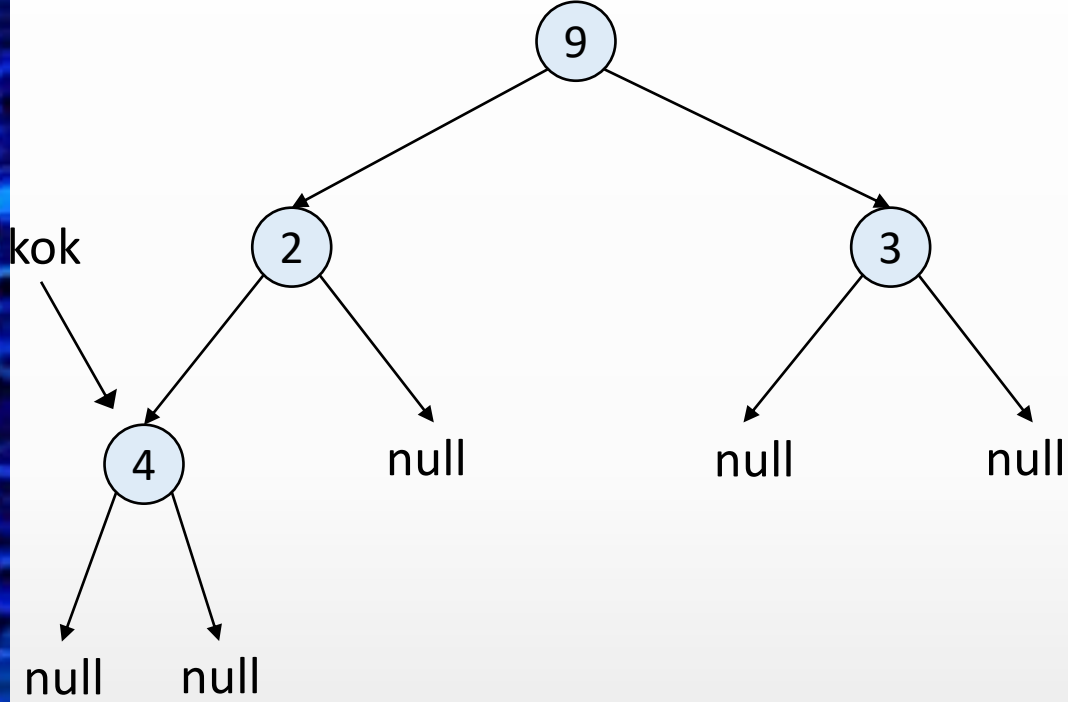
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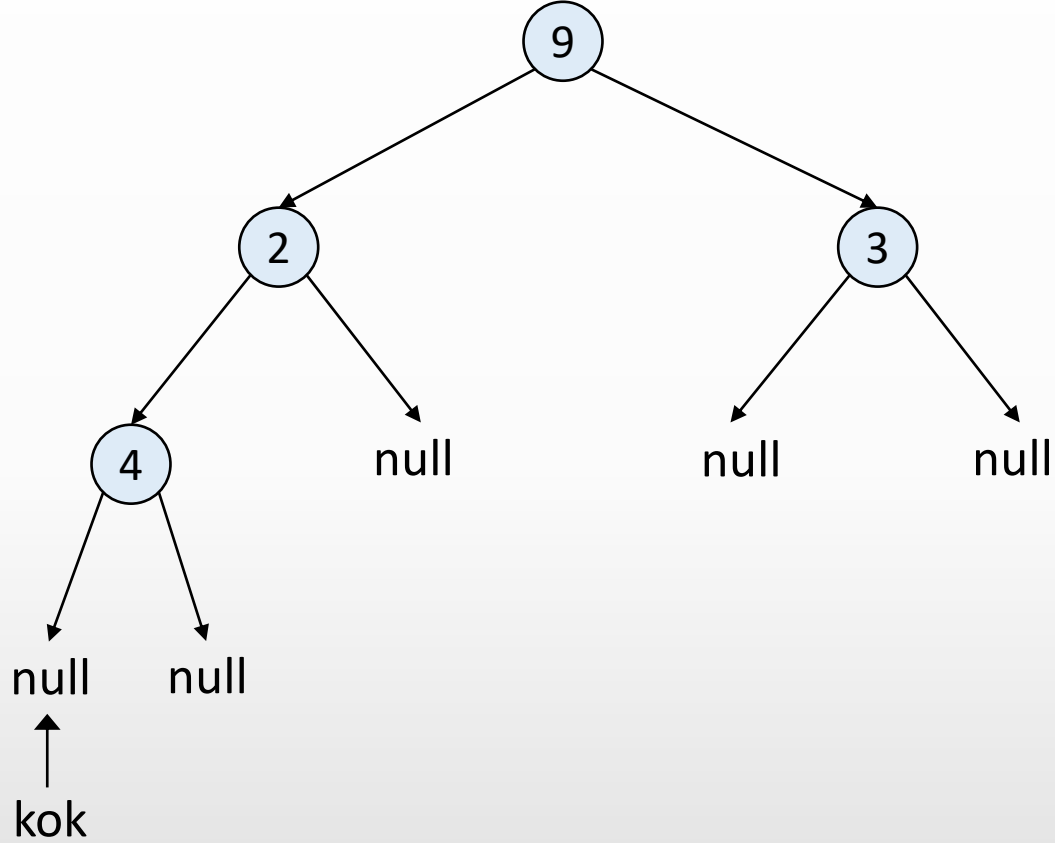
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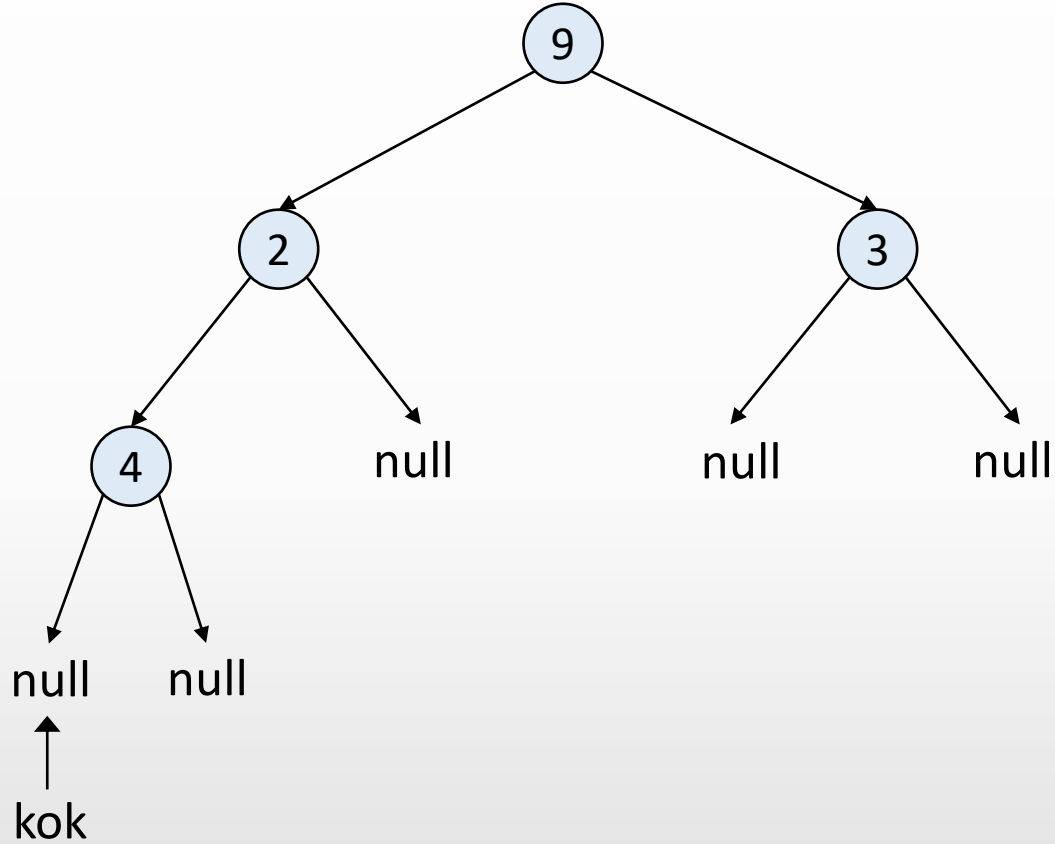
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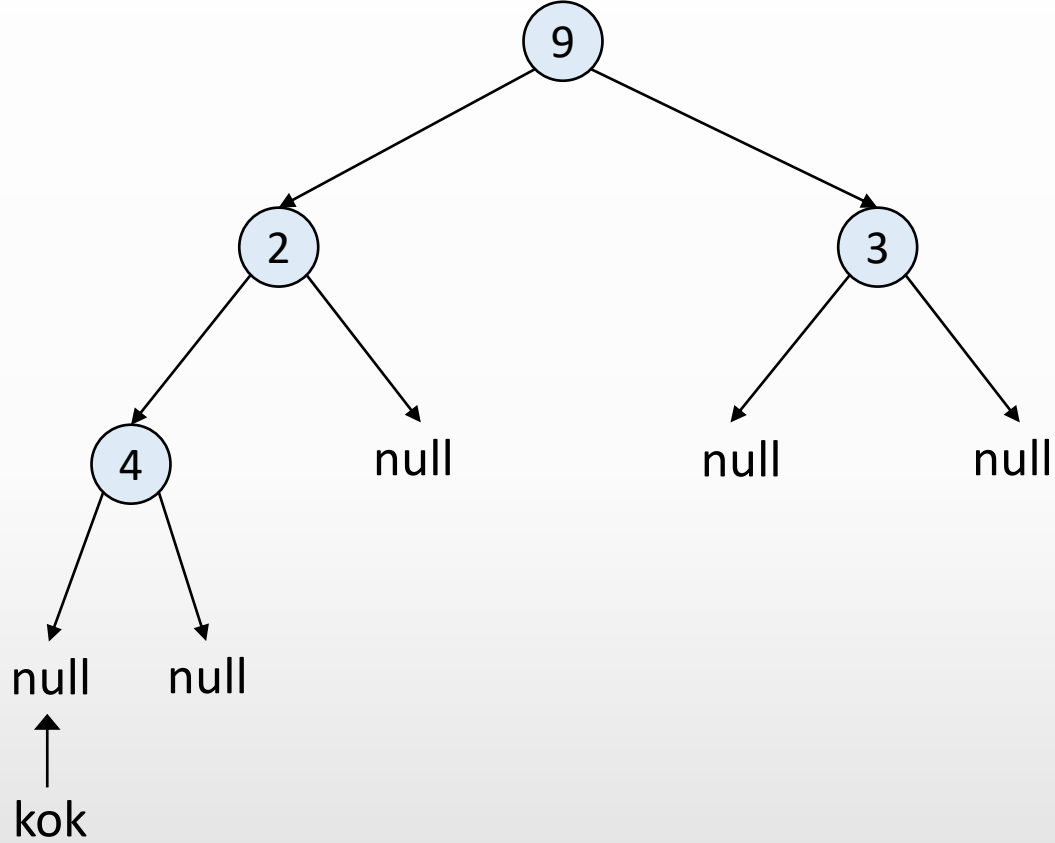
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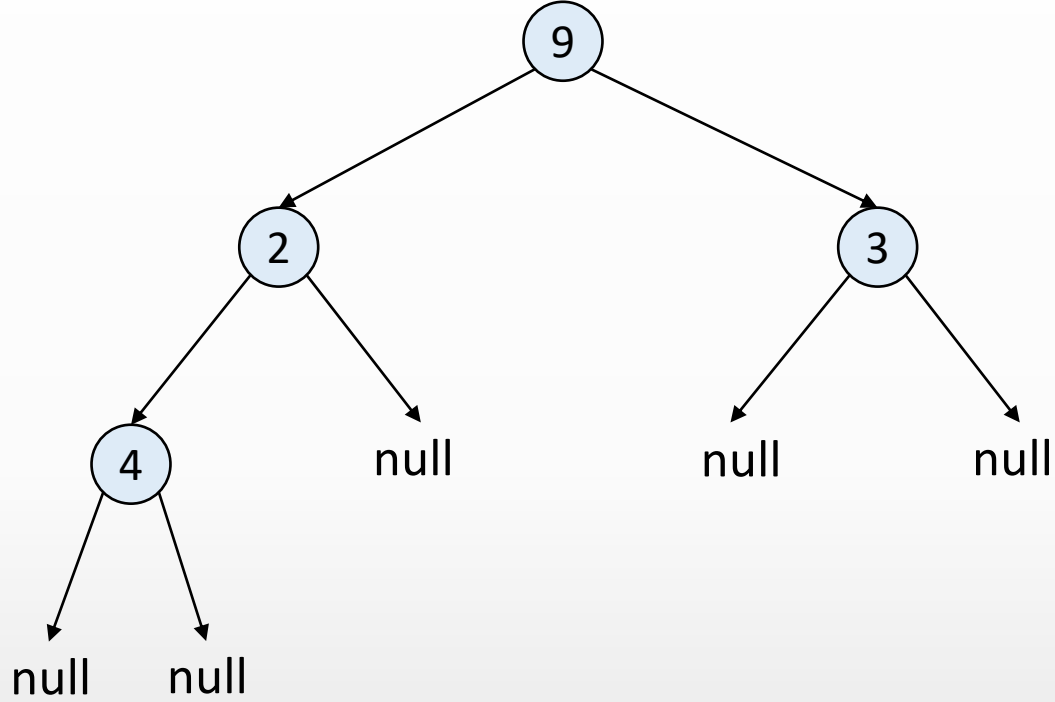
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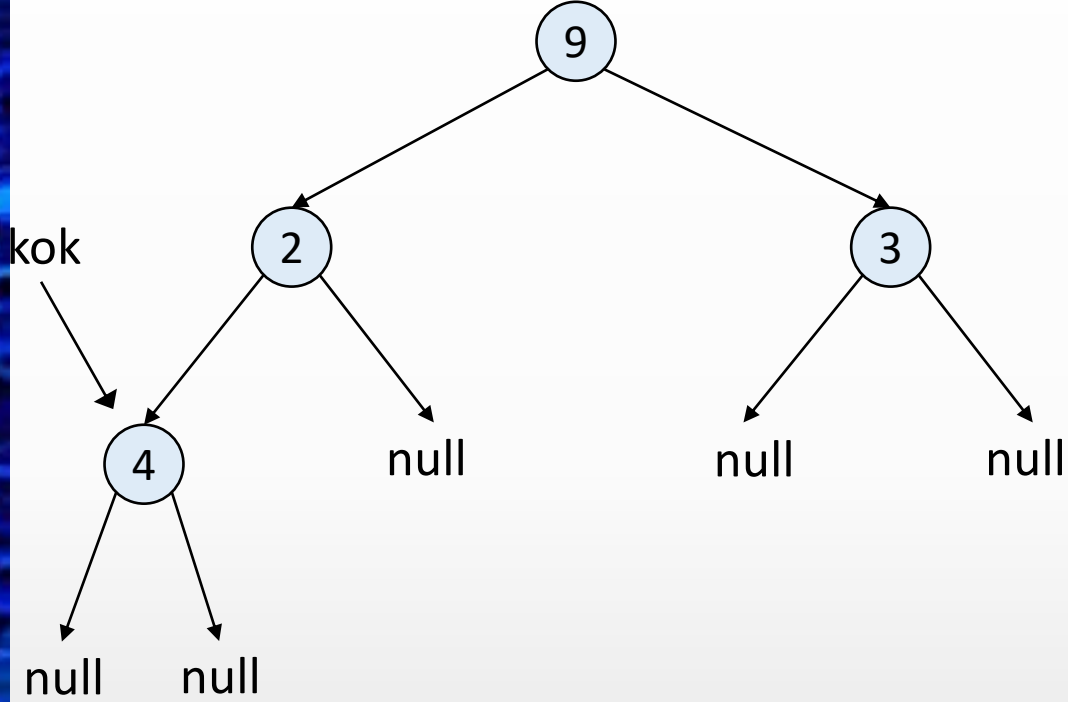
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Çağırma Yığıtı (Call Stack)

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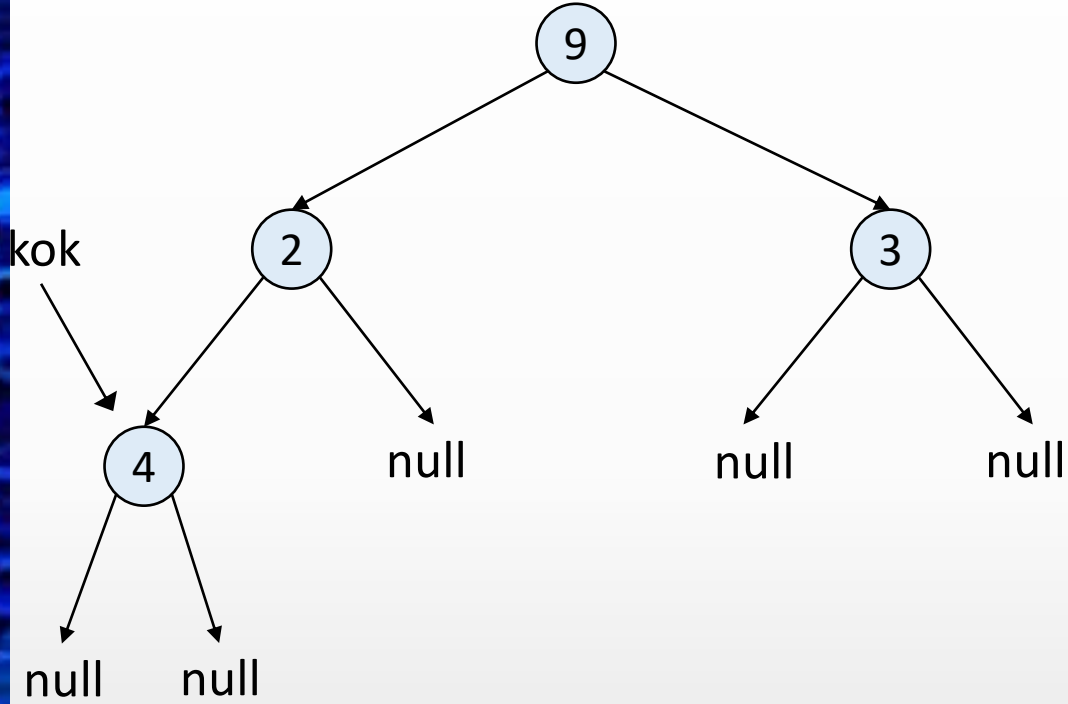
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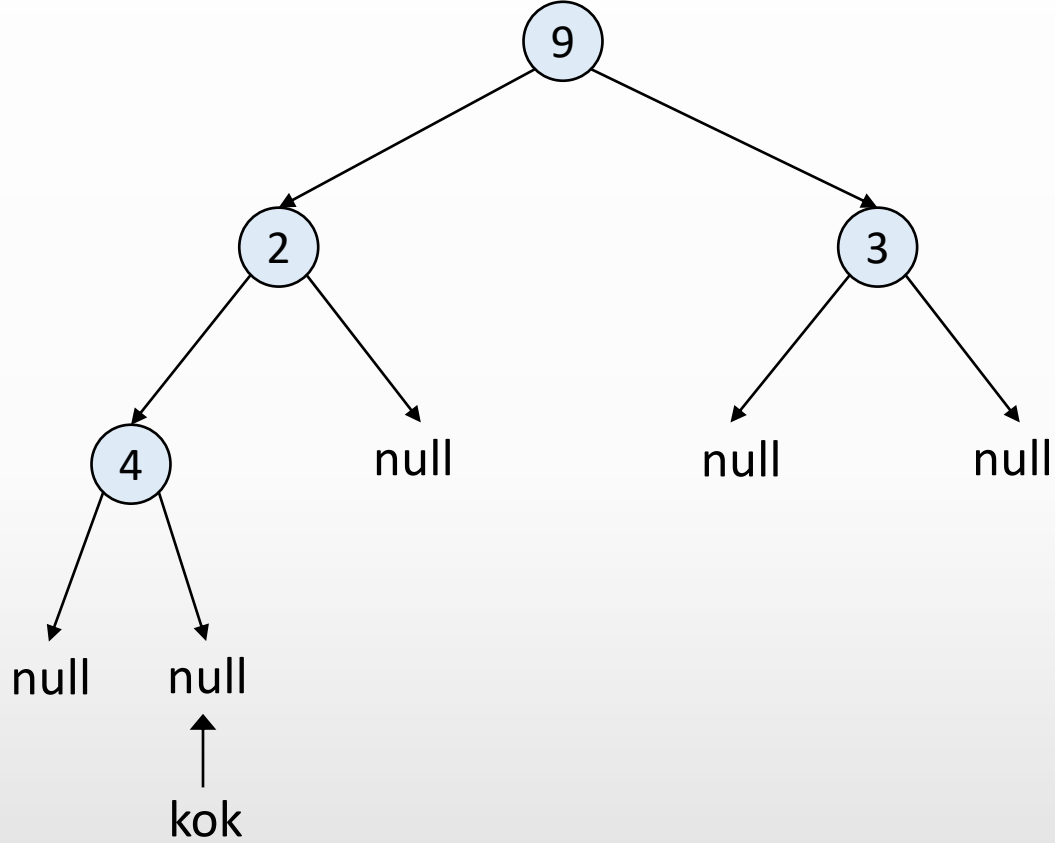
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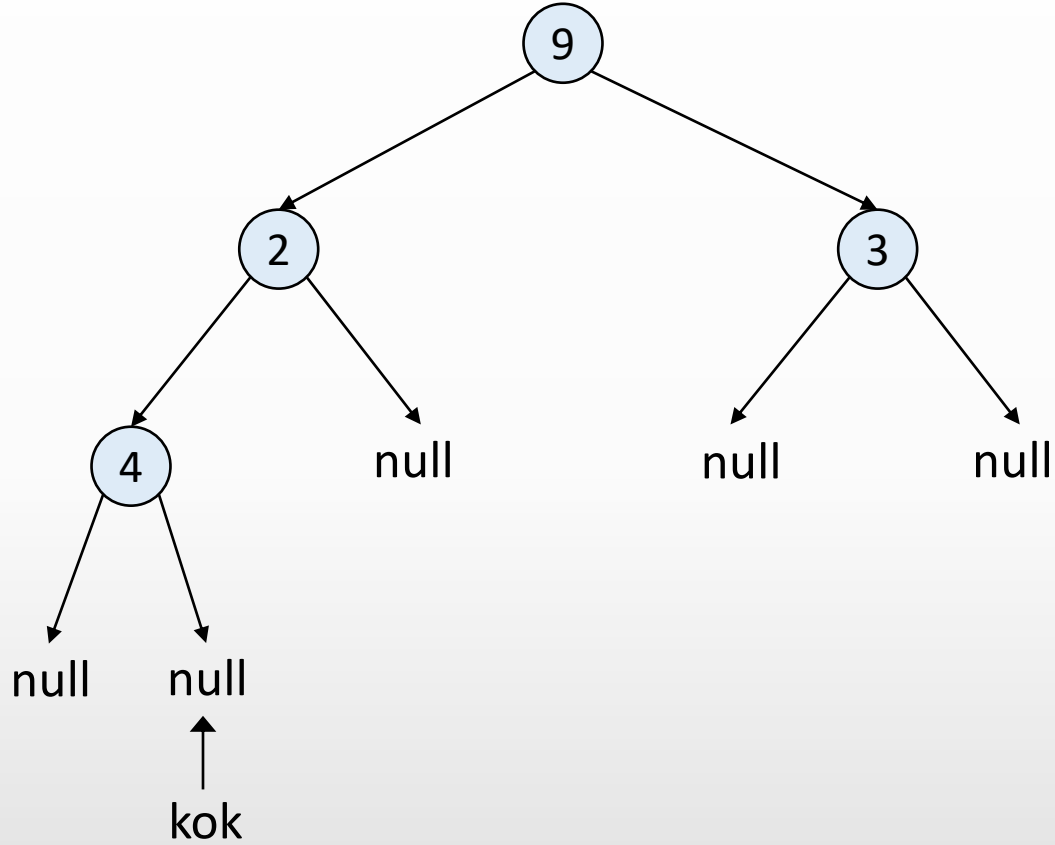
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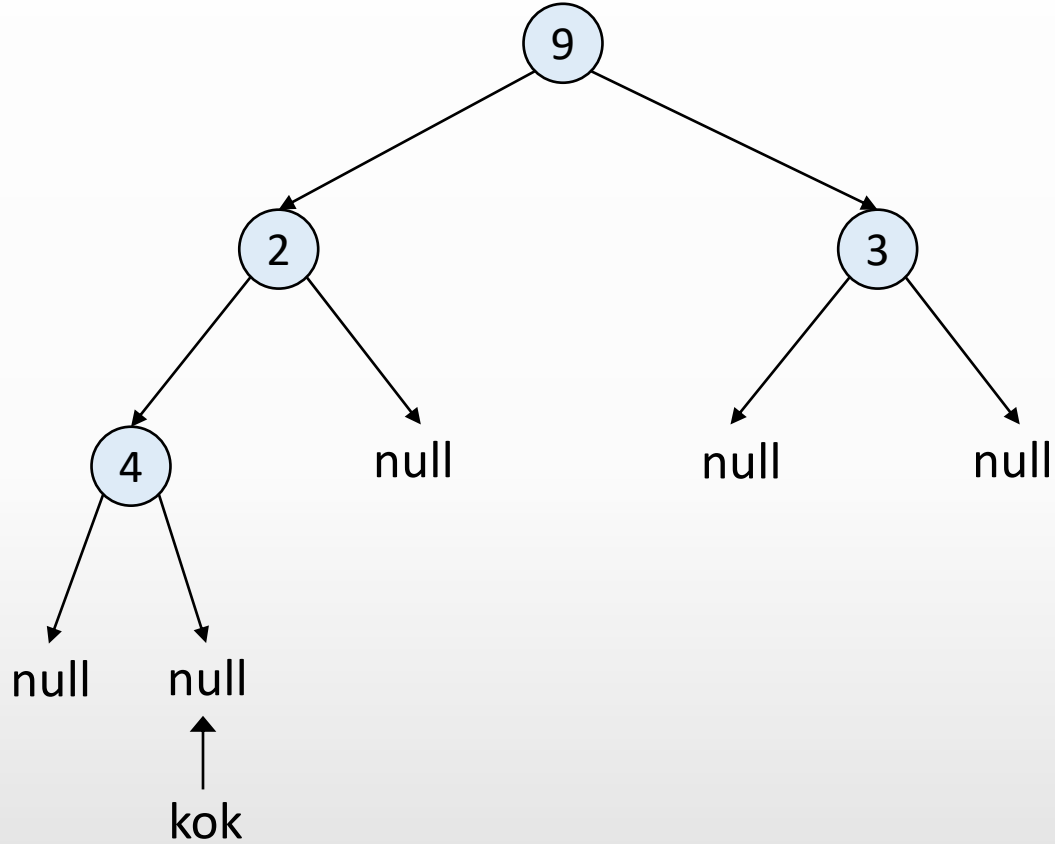
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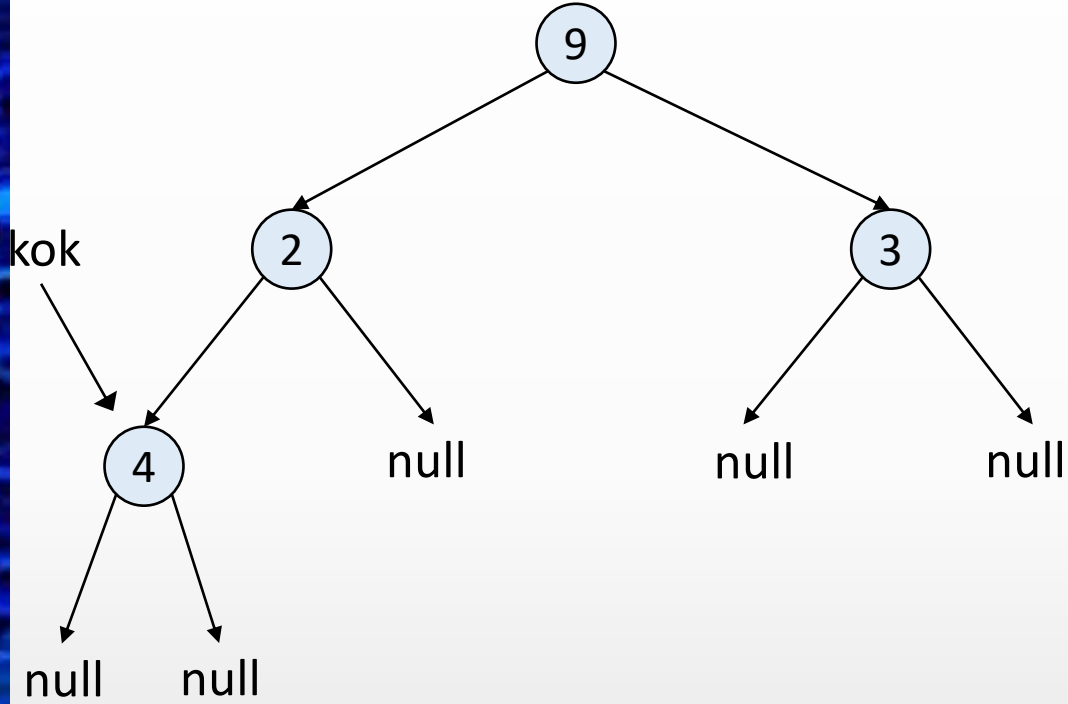
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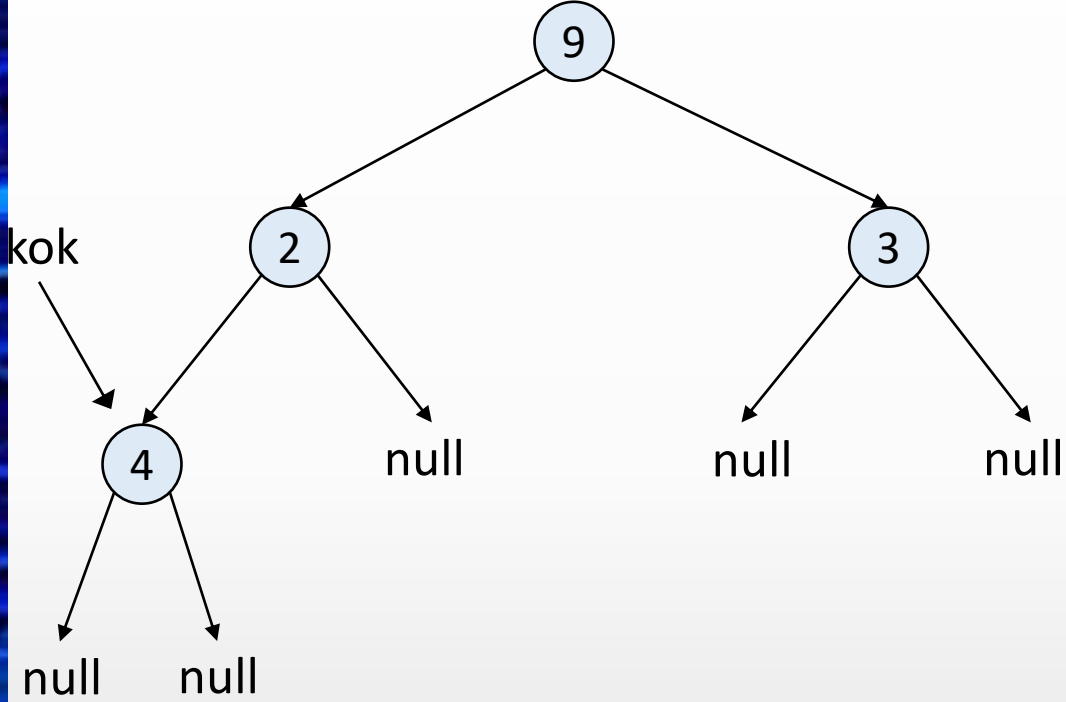
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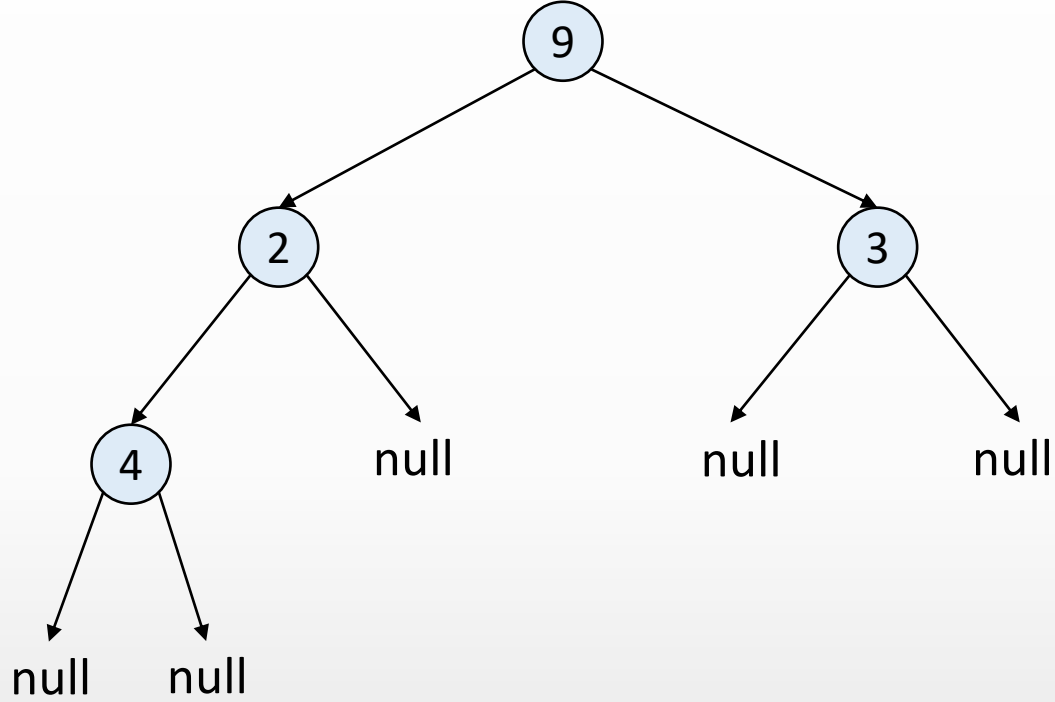
Çıktı: 4

```
1 public void kokSonda(AgacDugumu kok) {
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4     }
5     kokSonda(kok.sol);
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```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2



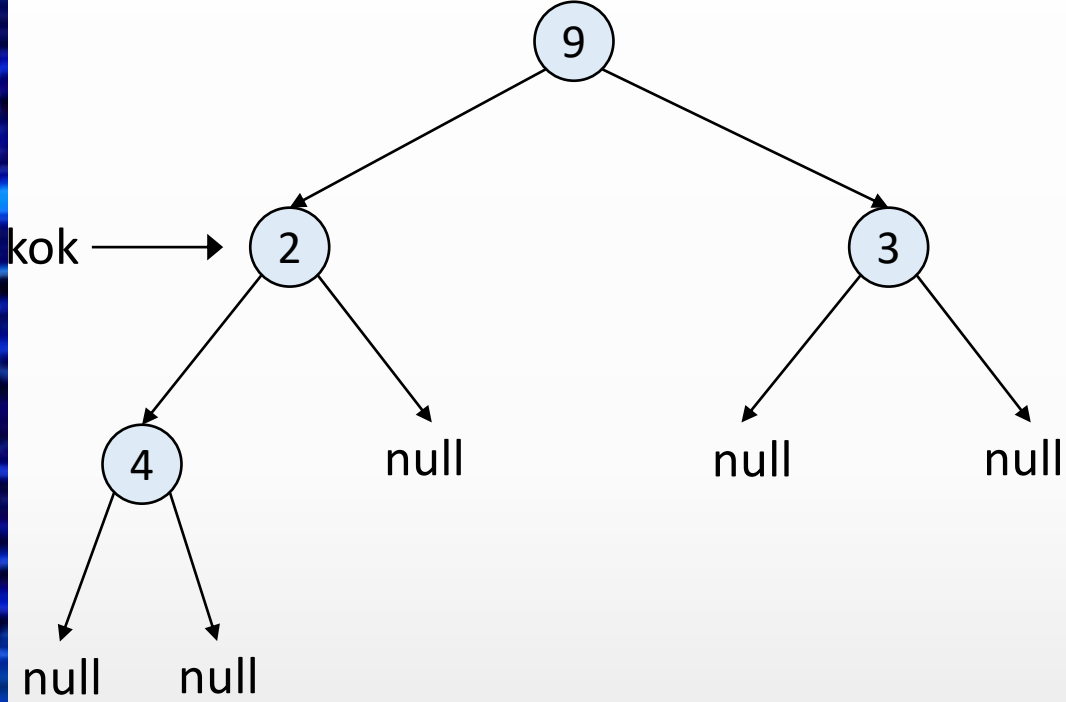
Çıktı: 4

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2



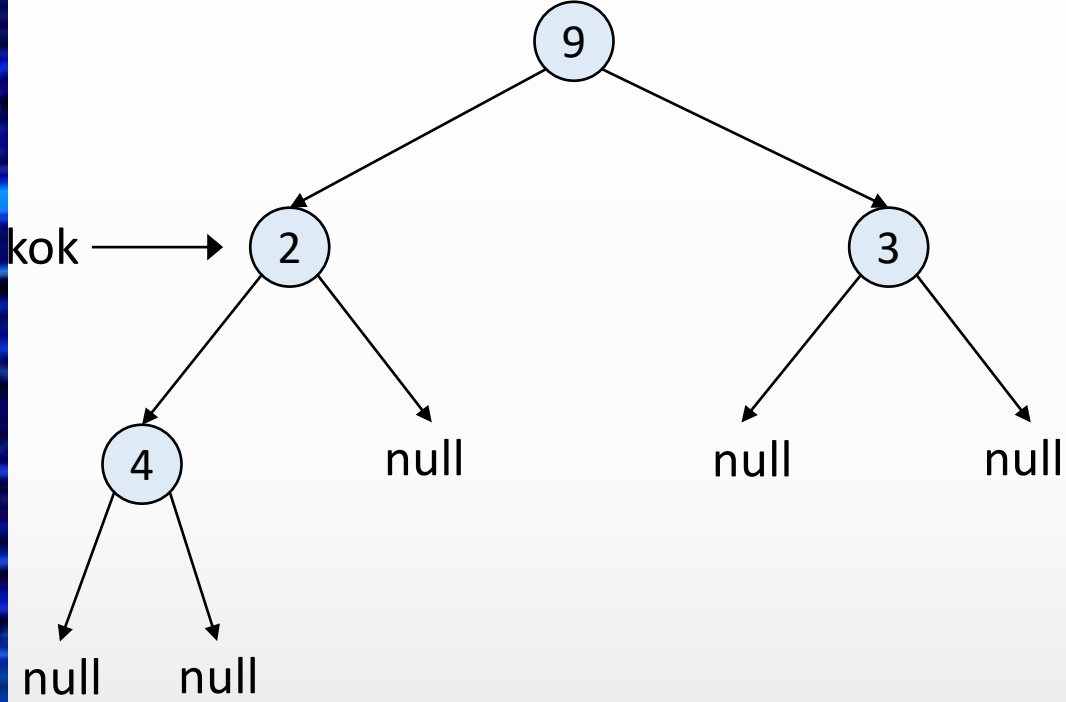
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	6	2



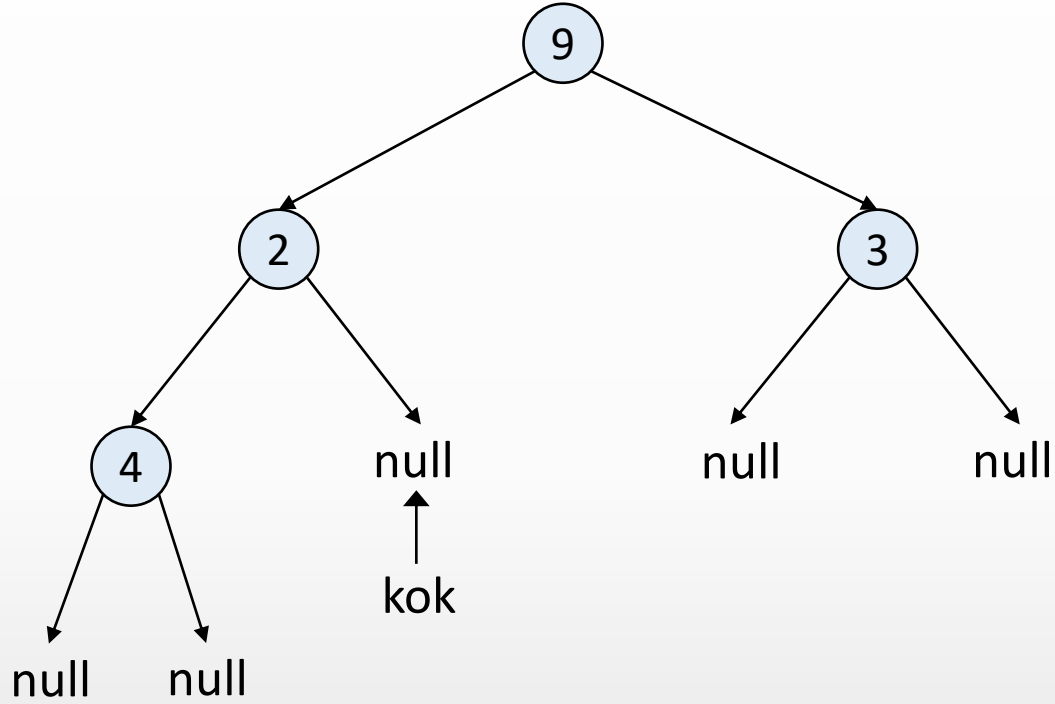
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1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
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8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	6	2
kokSonda()		null



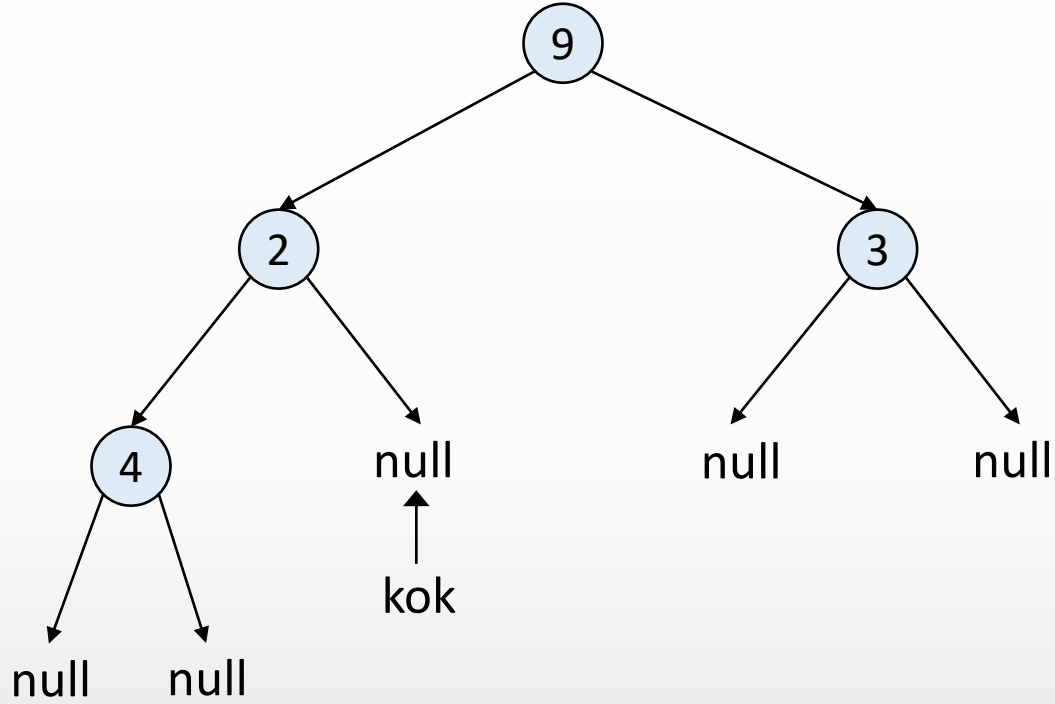
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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Çıktı: 4

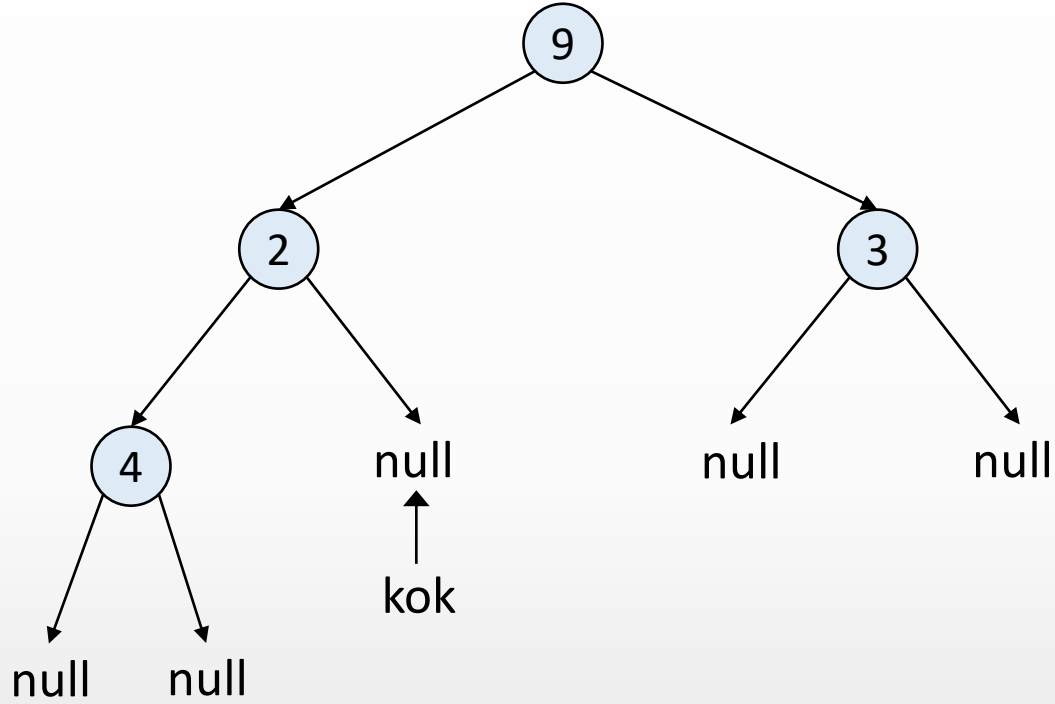


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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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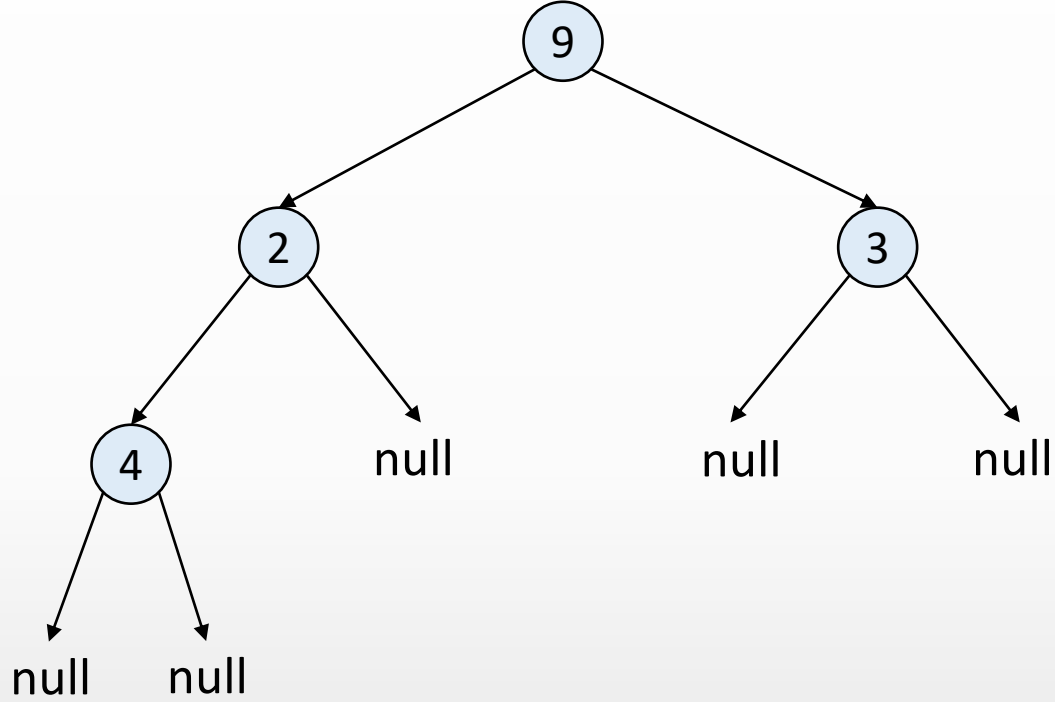
Çıktı: 4

```
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2     if(kok == null) {
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4     }
5     kokSonda(kok.sol);
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
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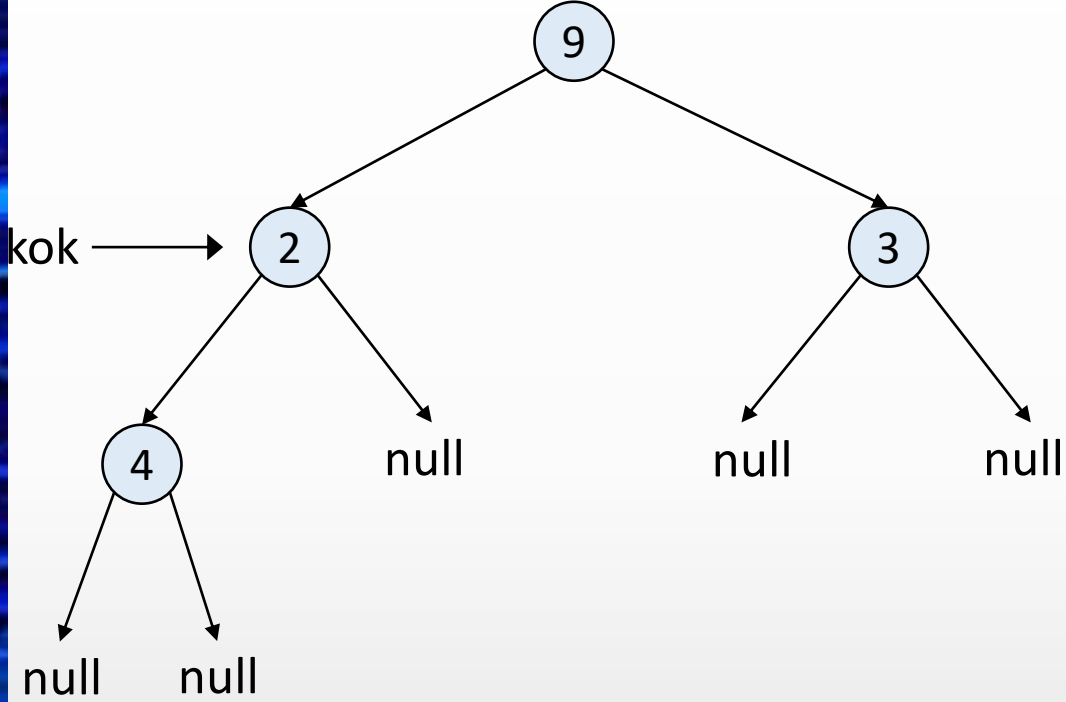
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Çağırma Yiğiti (Call Stack)

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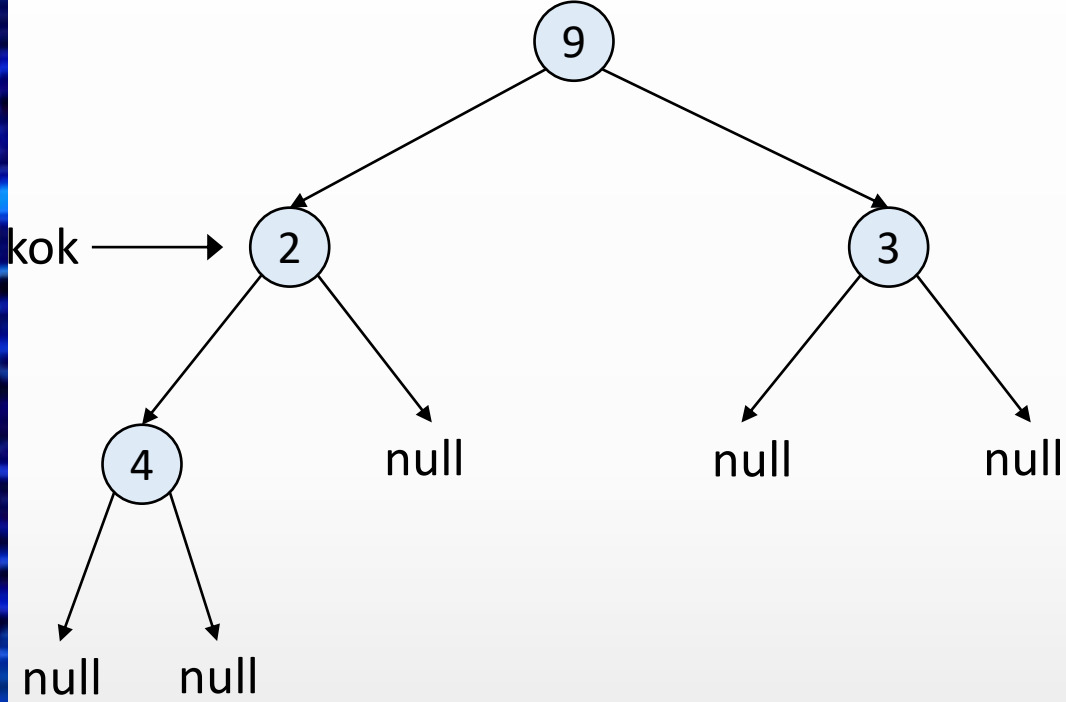
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Çağırma Yiğiti (Call Stack)

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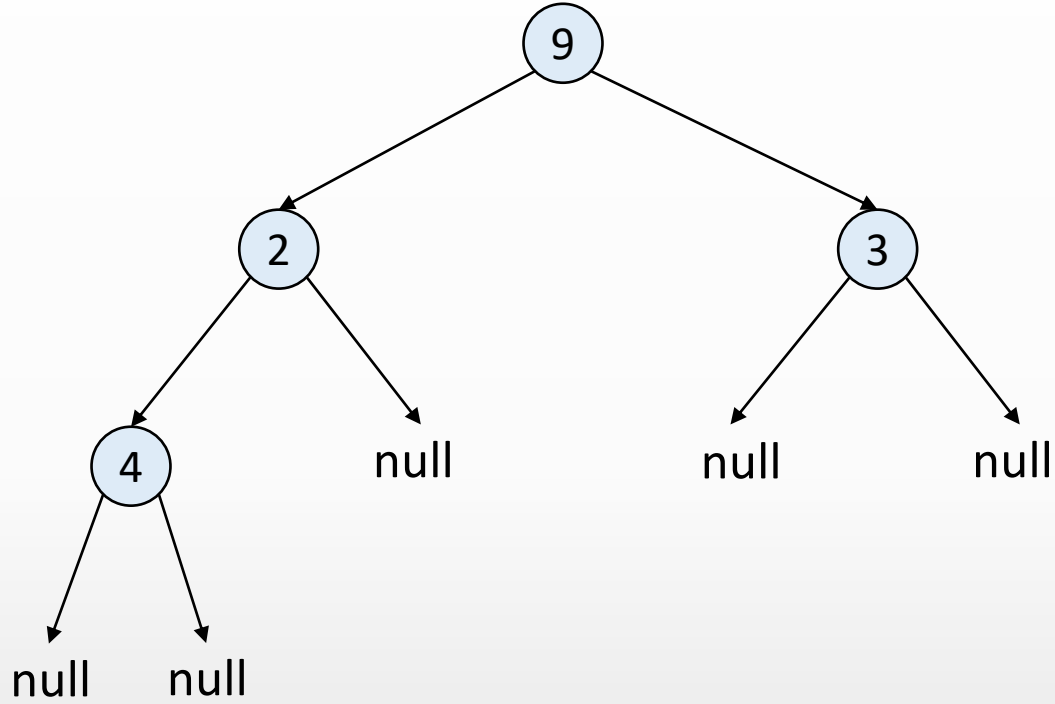
Çıktı: 4 2

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9



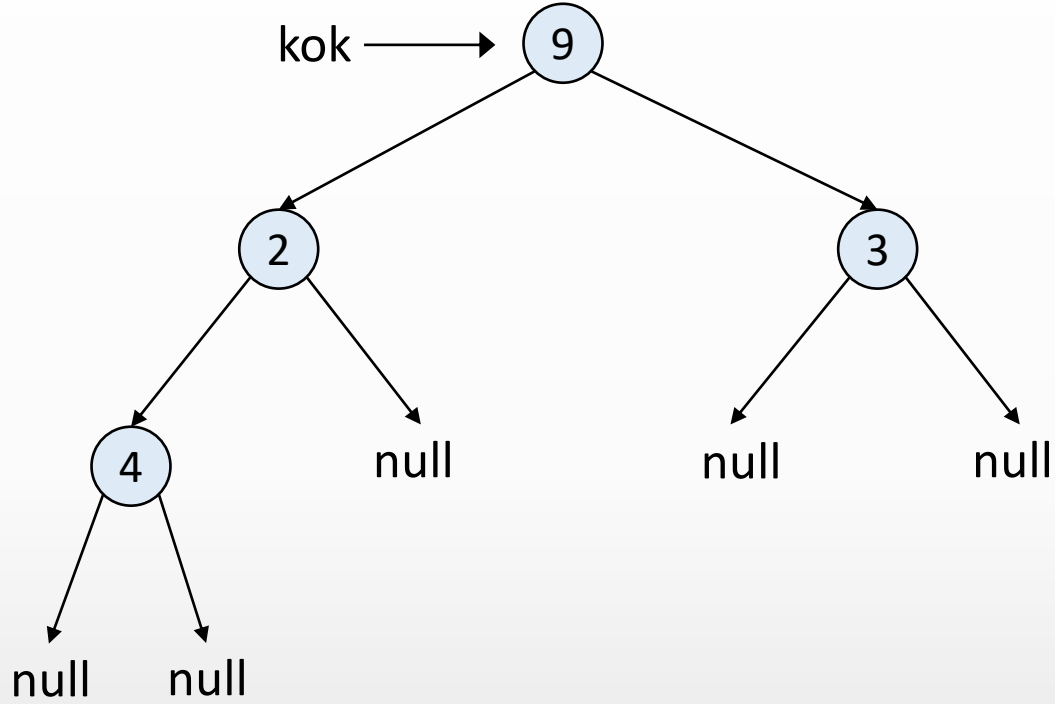
Çıktı: 4 2

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	5	9



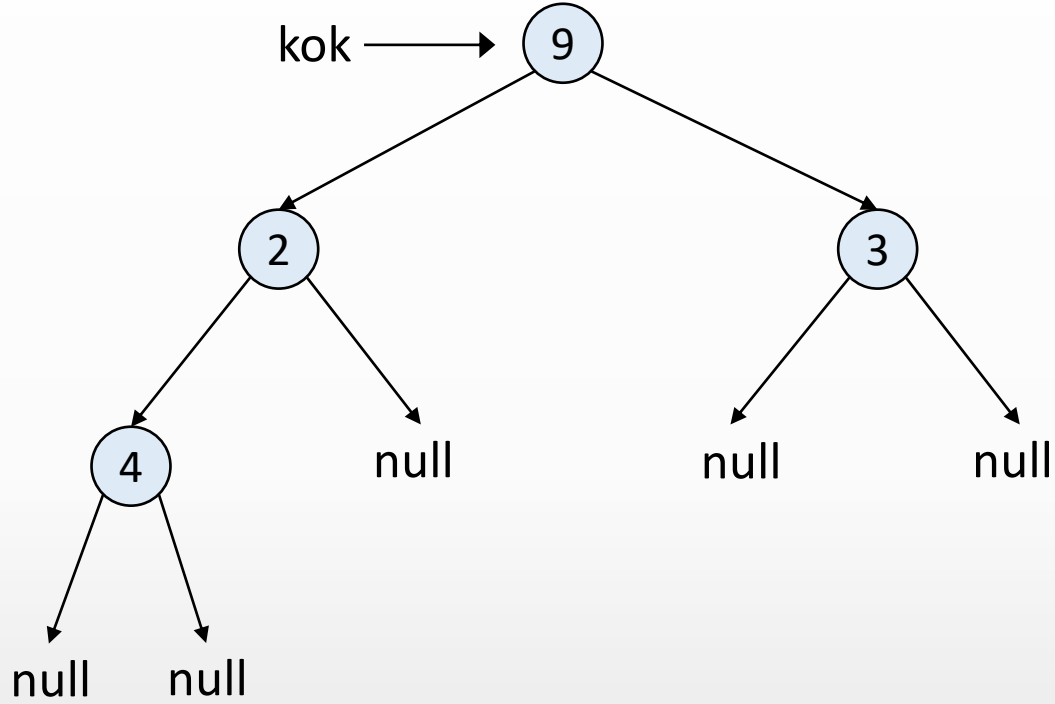
Çıktı: 4 2

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
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4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9



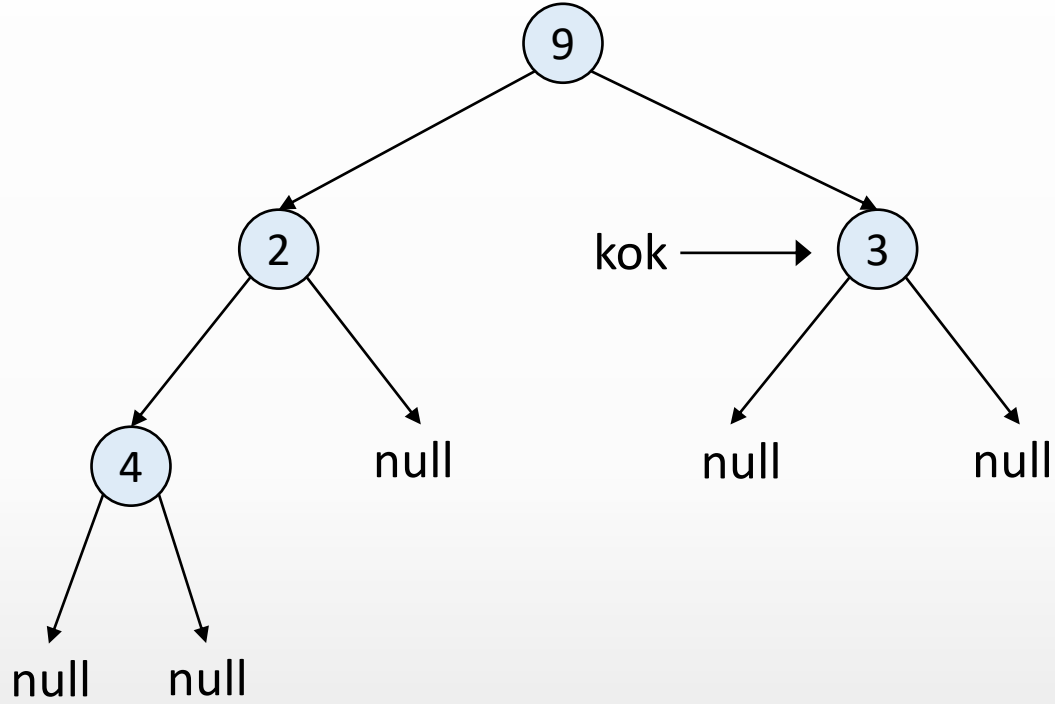
Çıktı: 4 2

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()		3



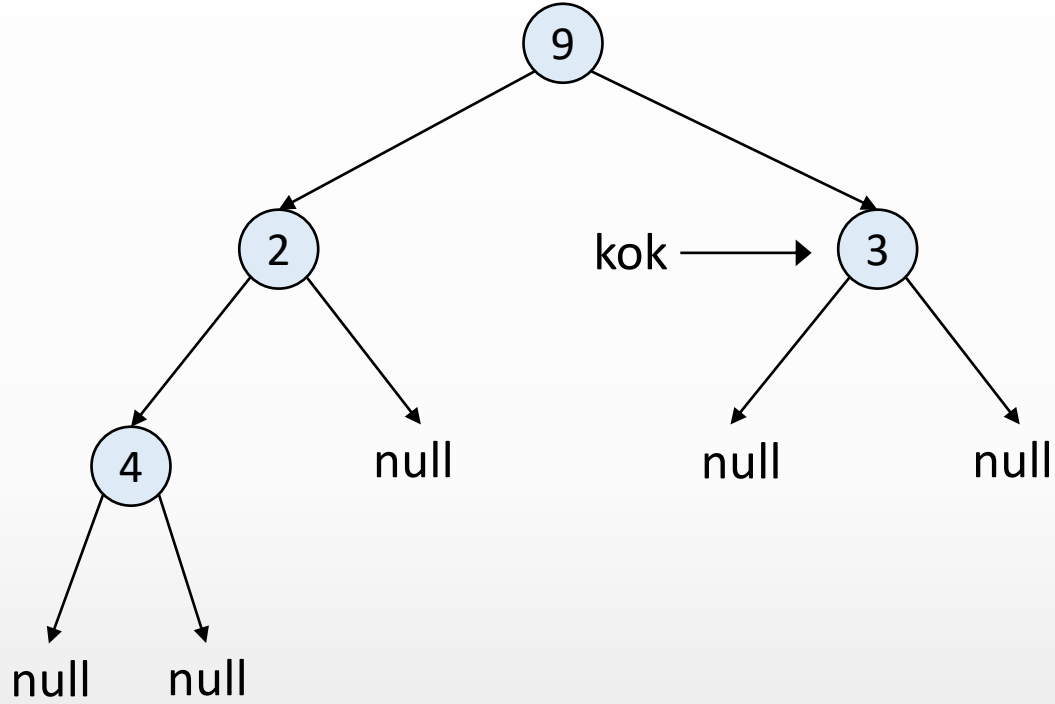
Çıktı: 4 2

```
1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
4     }  
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6     kokSonda(kok.sag);  
7     System.out.print(kok.veri + " ");  
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()		3



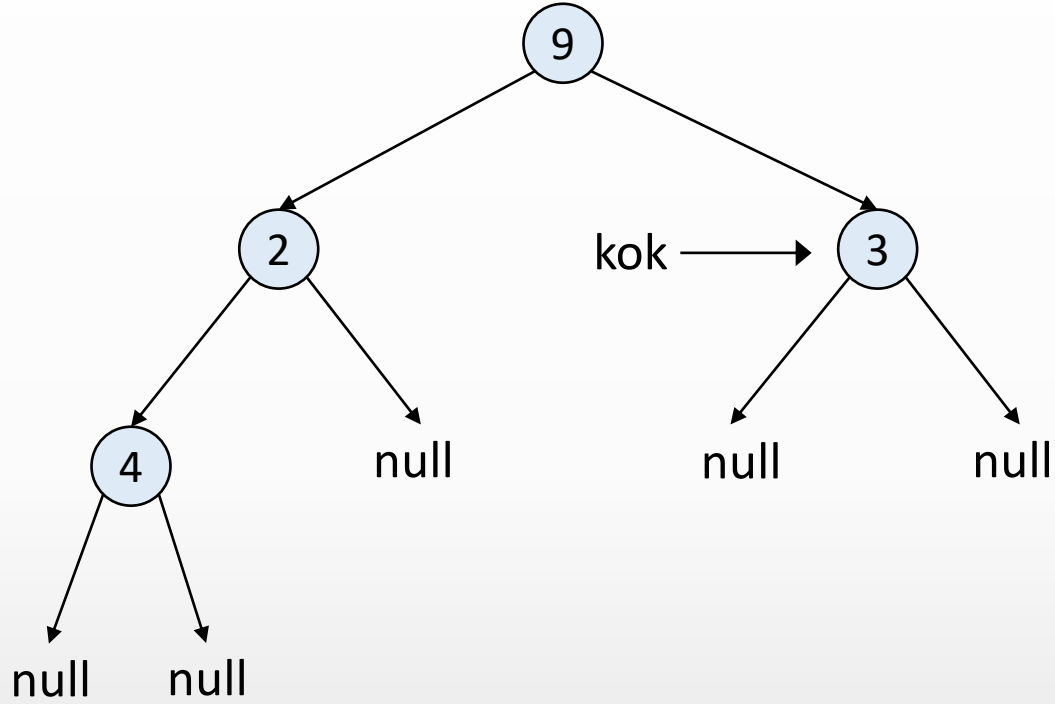
Çıktı: 4 2

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1 public void kokSonda(AgacDugumu kok) {
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3



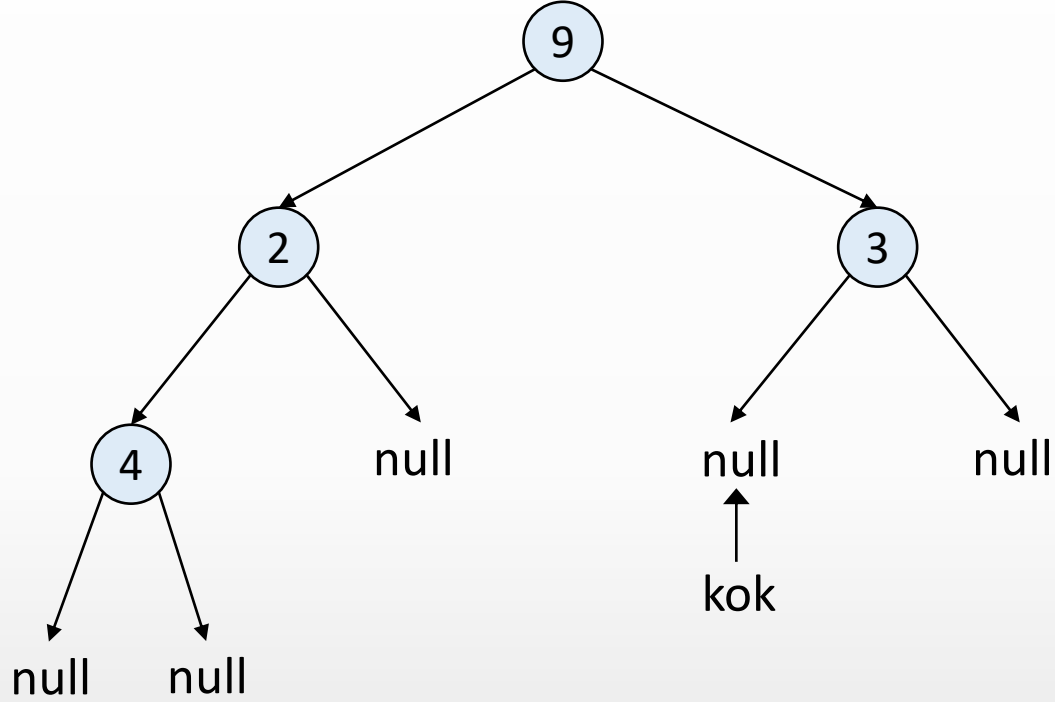
Çıktı: 4 2

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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3
kokSonda()		null



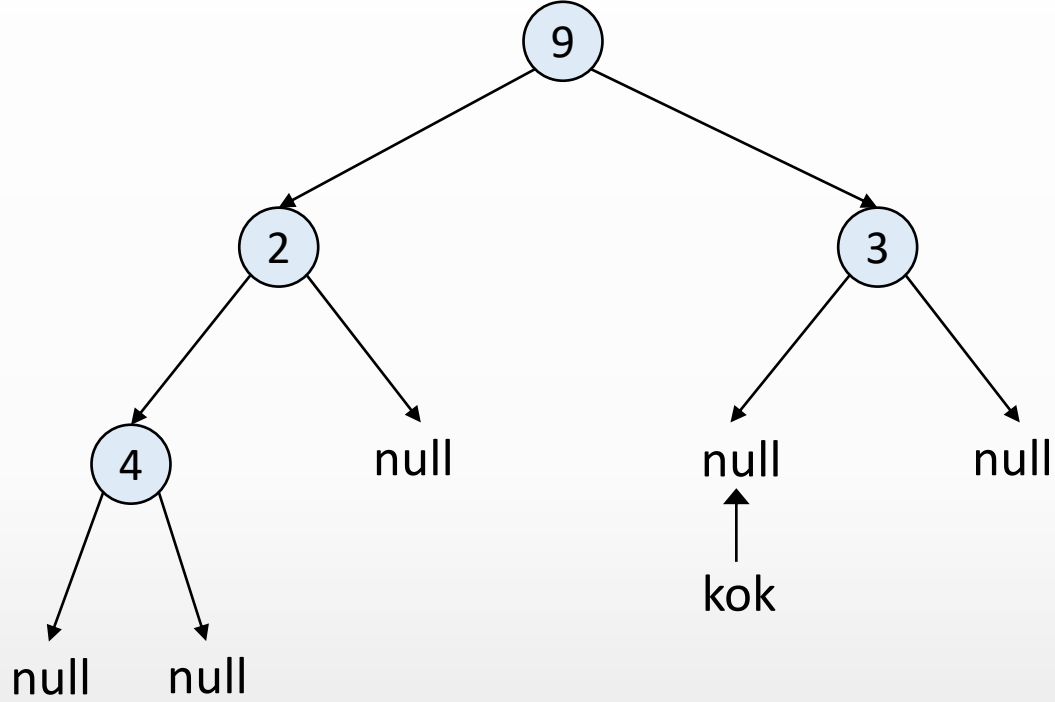
Çıktı: 4 2

```
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3
kokSonda()		null



Çıktı: 4 2

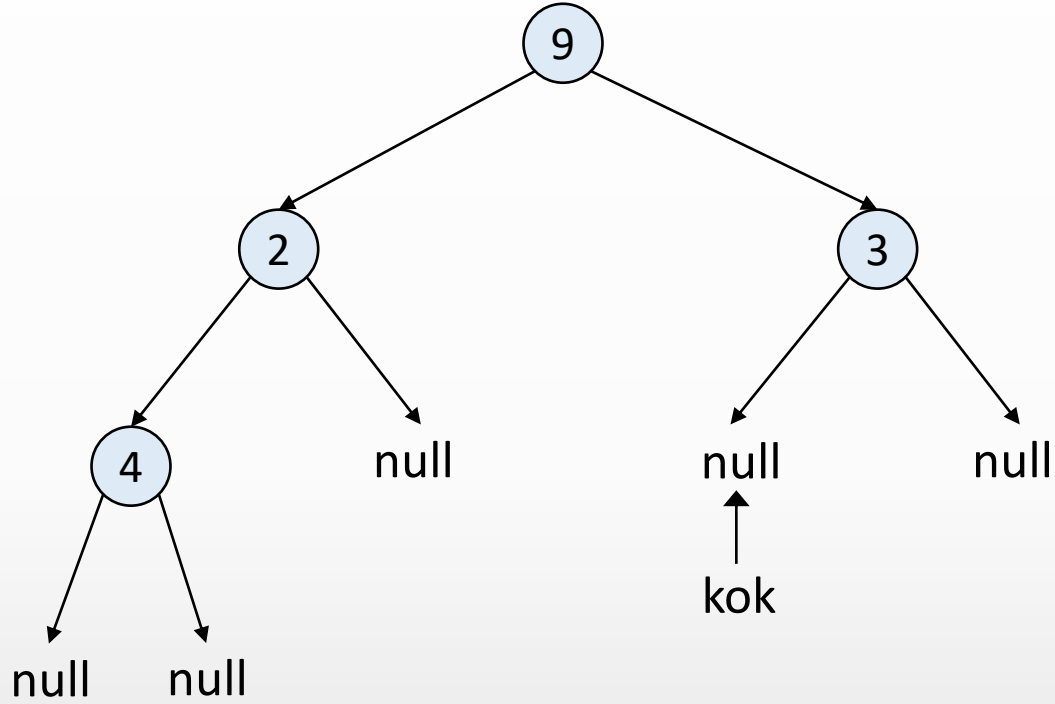


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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
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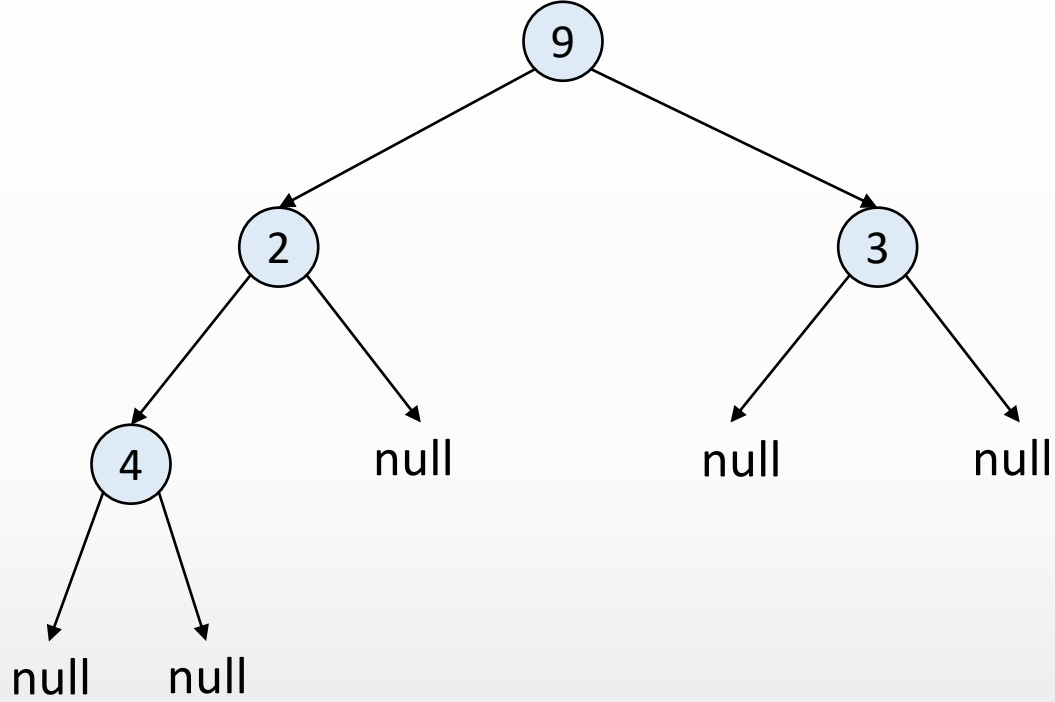
Çıktı: 4 2

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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3



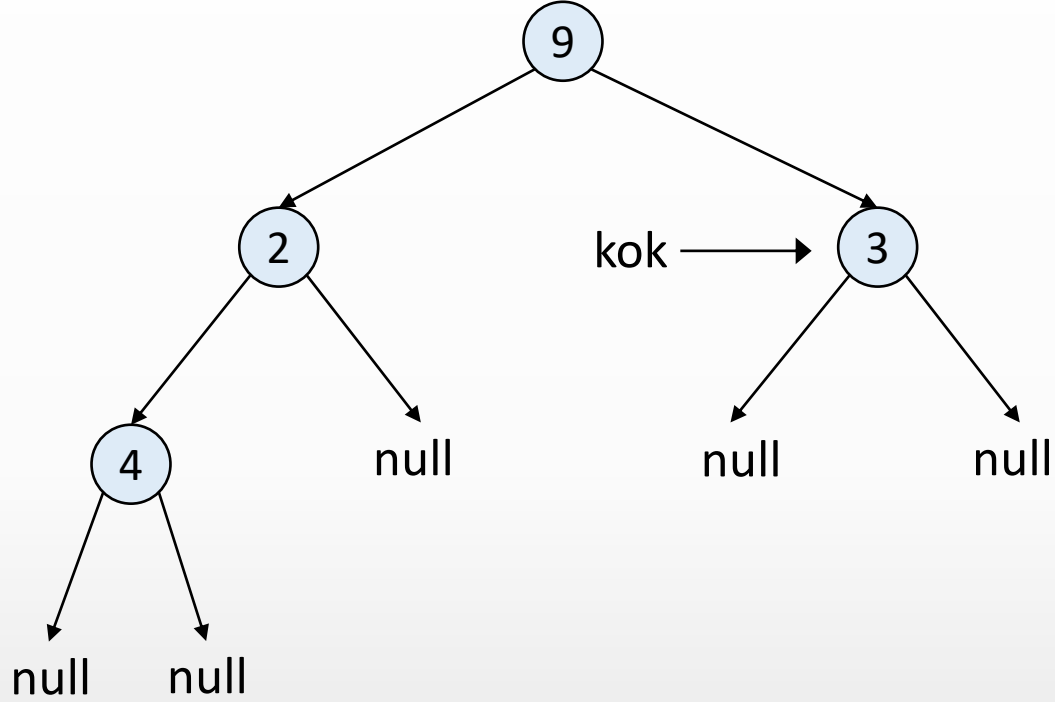
Çıktı: 4 2

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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3



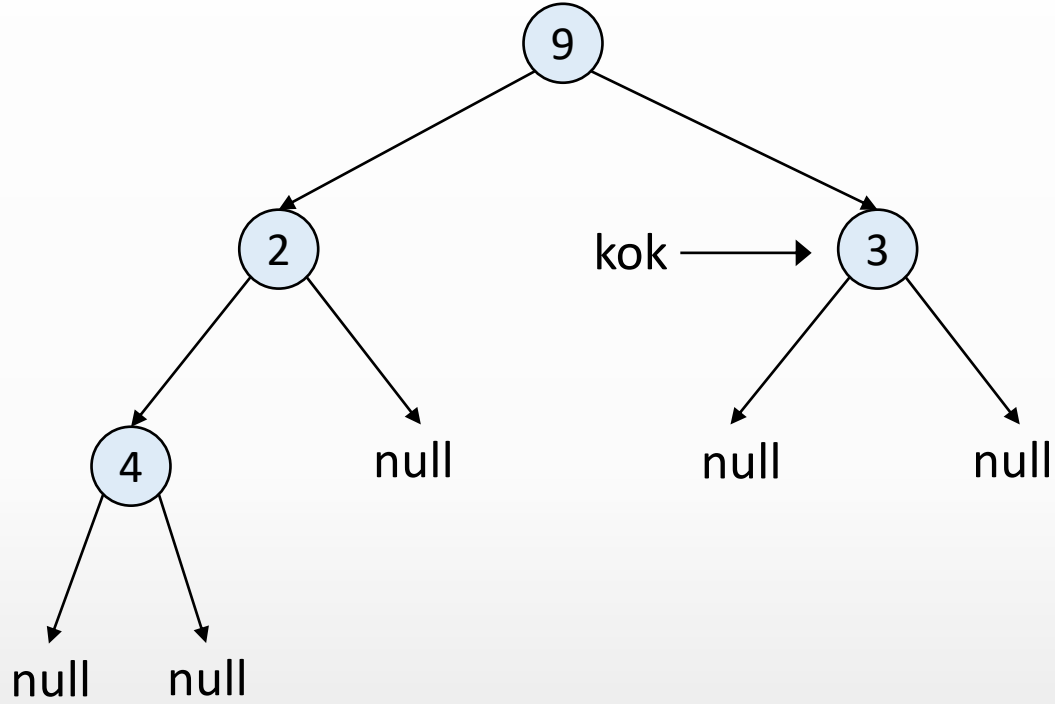
Çıktı: 4 2

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2     if(kok == null) {
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Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3



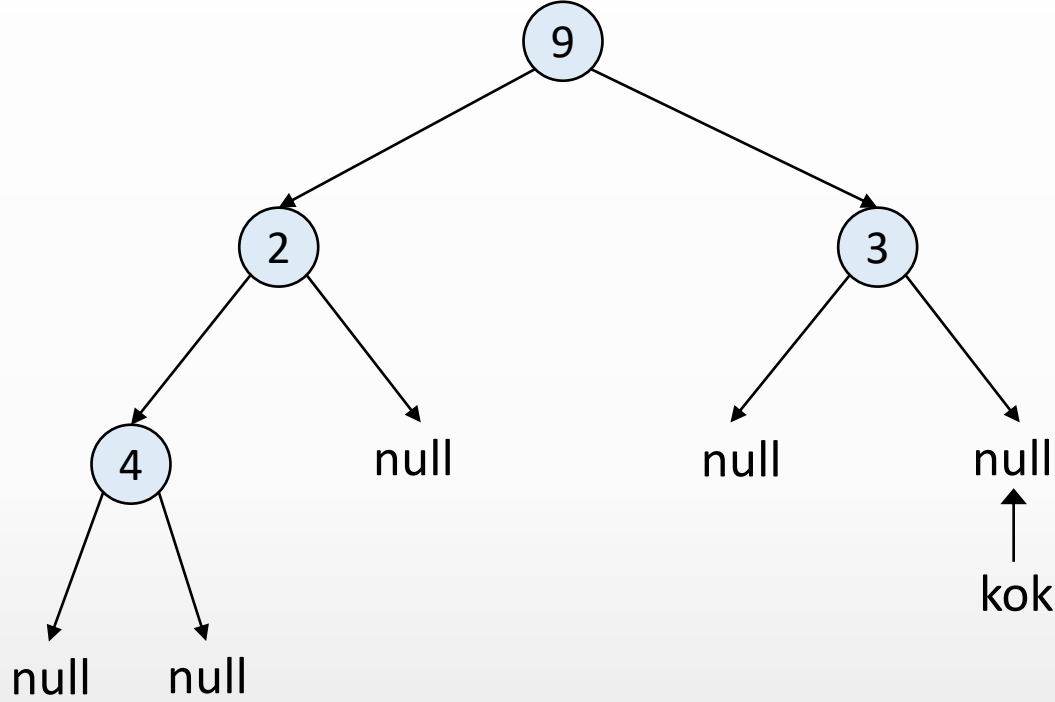
Çıktı: 4 2

```
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4     }
5     kokSonda(kok.sol);
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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3
kokSonda()		null



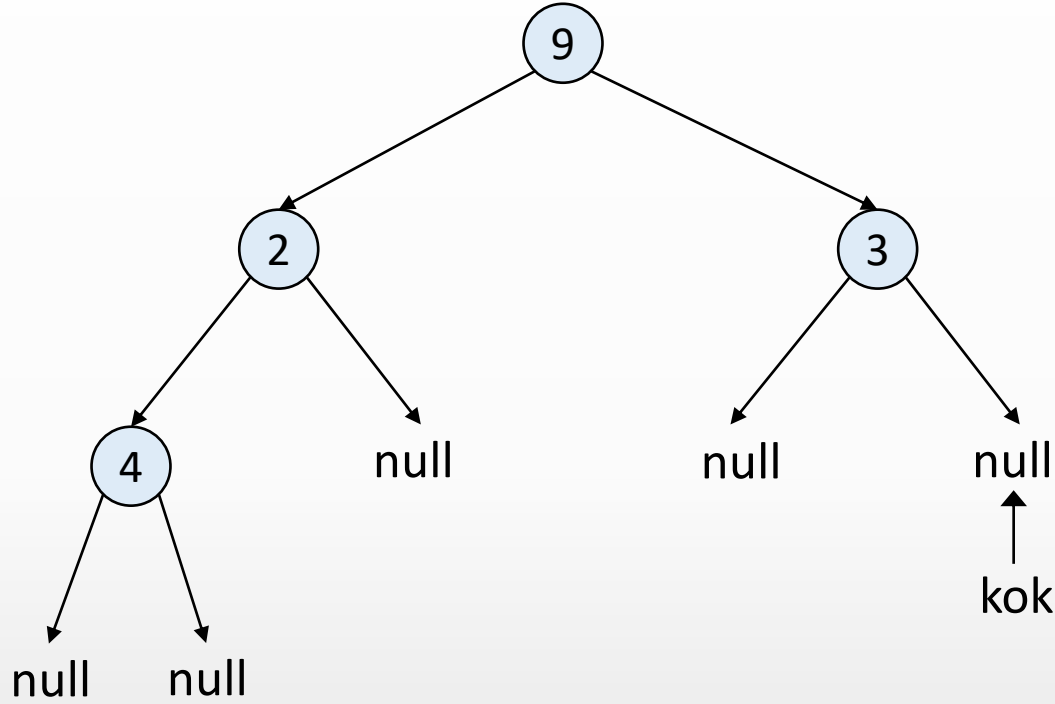
Çıktı: 4 2

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Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3
kokSonda()		null



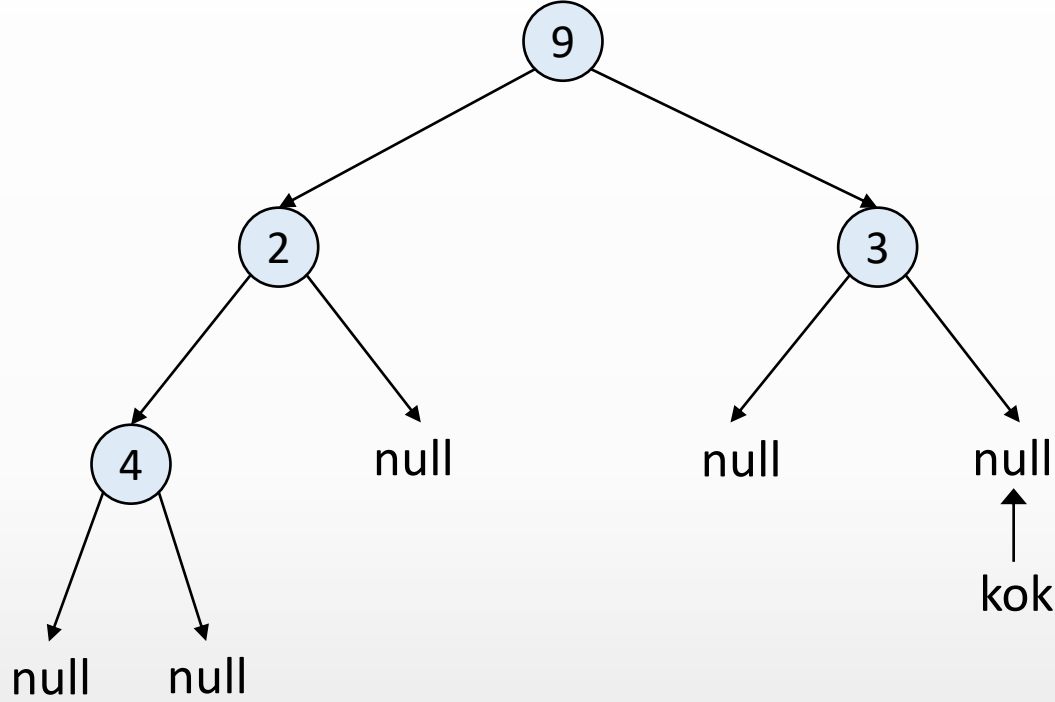
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7     System.out.print(kok.veri + " ");
8 }
```




Çağırma Yığılı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3
kokSonda()		null



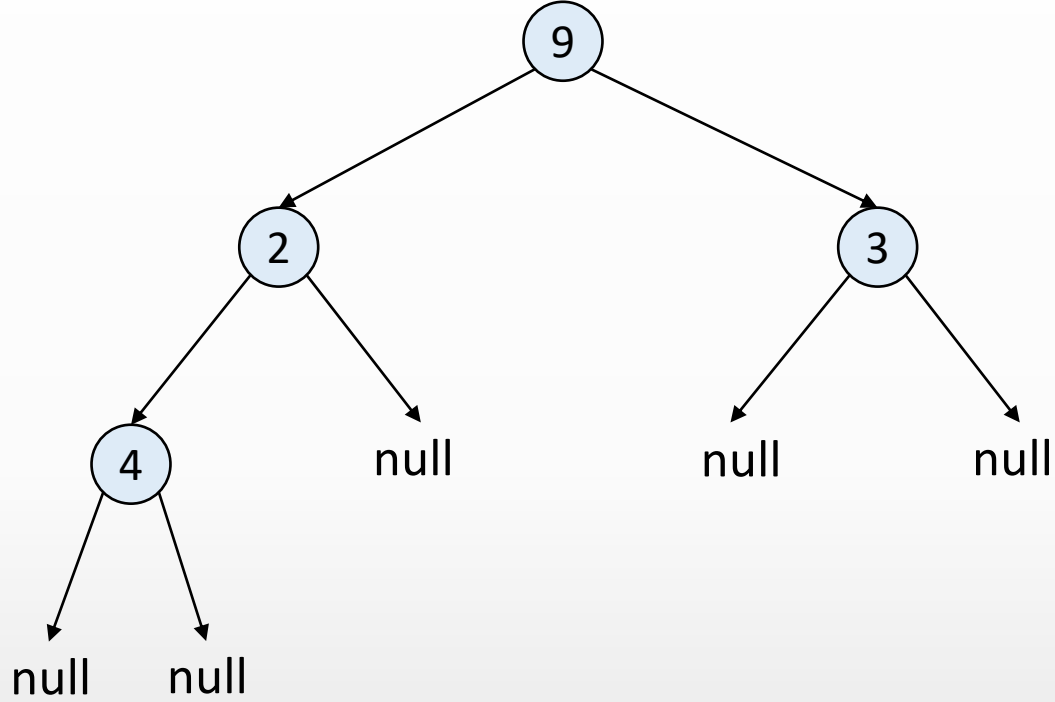
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Çağırma Yiğiti (Call Stack)

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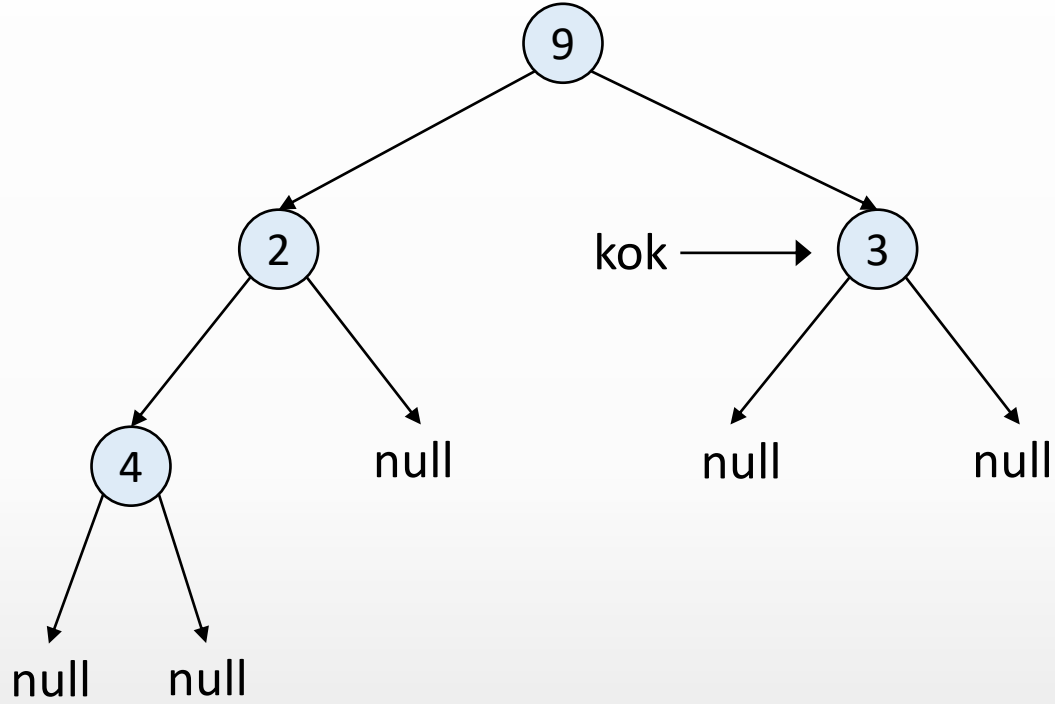
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Çağırma Yiğiti (Call Stack)

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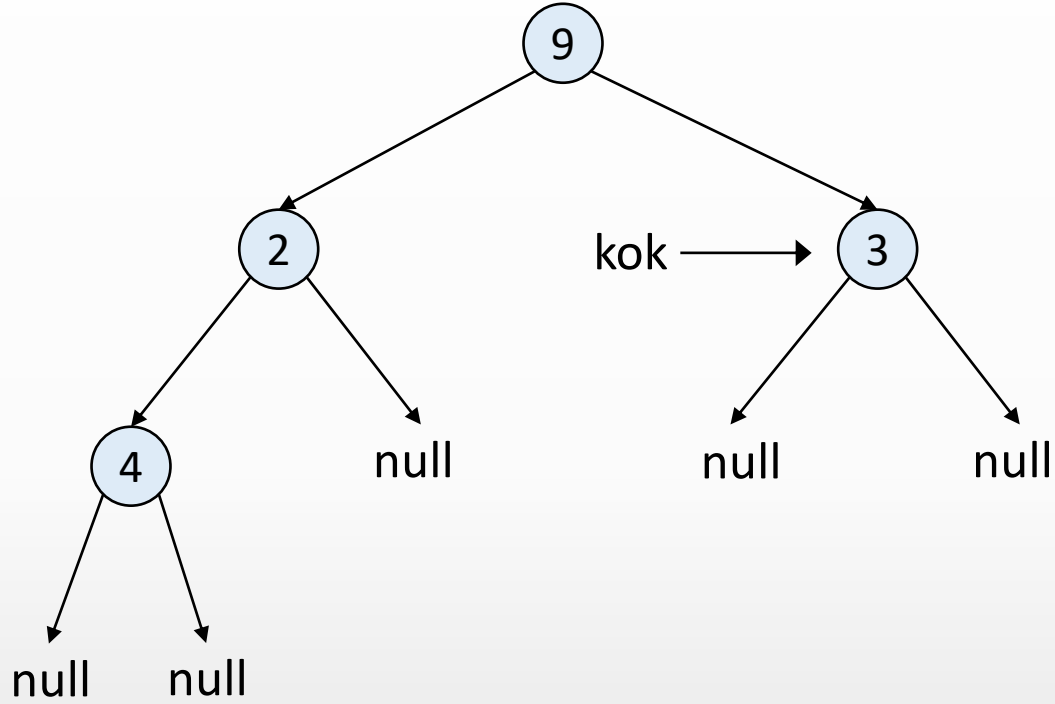
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```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3



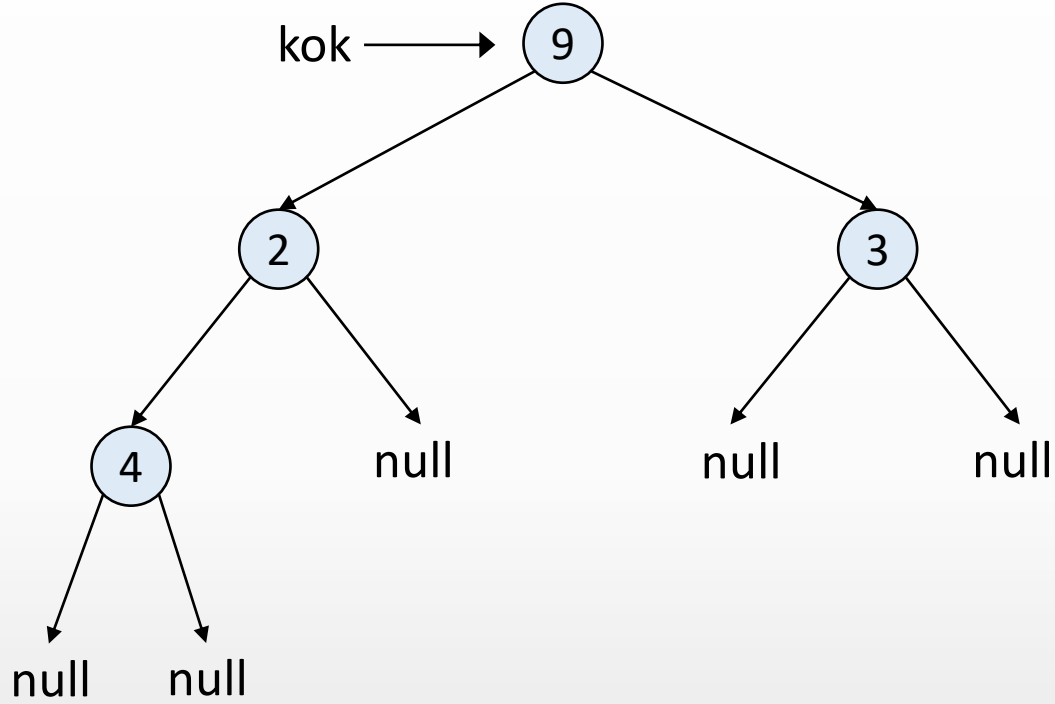
Çıktı: 4 2 3

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yığıtı (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9



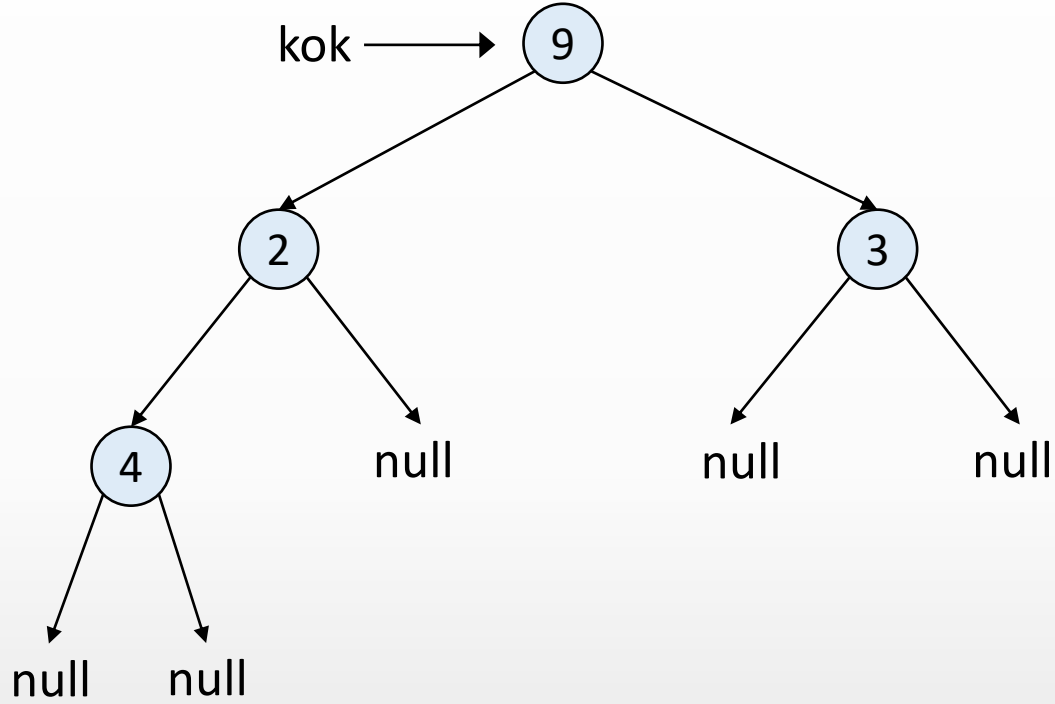
Çıktı: 4 2 3

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
8 }
```



Çağırma Yiğiti (Call Stack)

Metot Çağırımı	Satır Numarası	Kök
kokSonda()	6	9



Çıktı: 4 2 3 9

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
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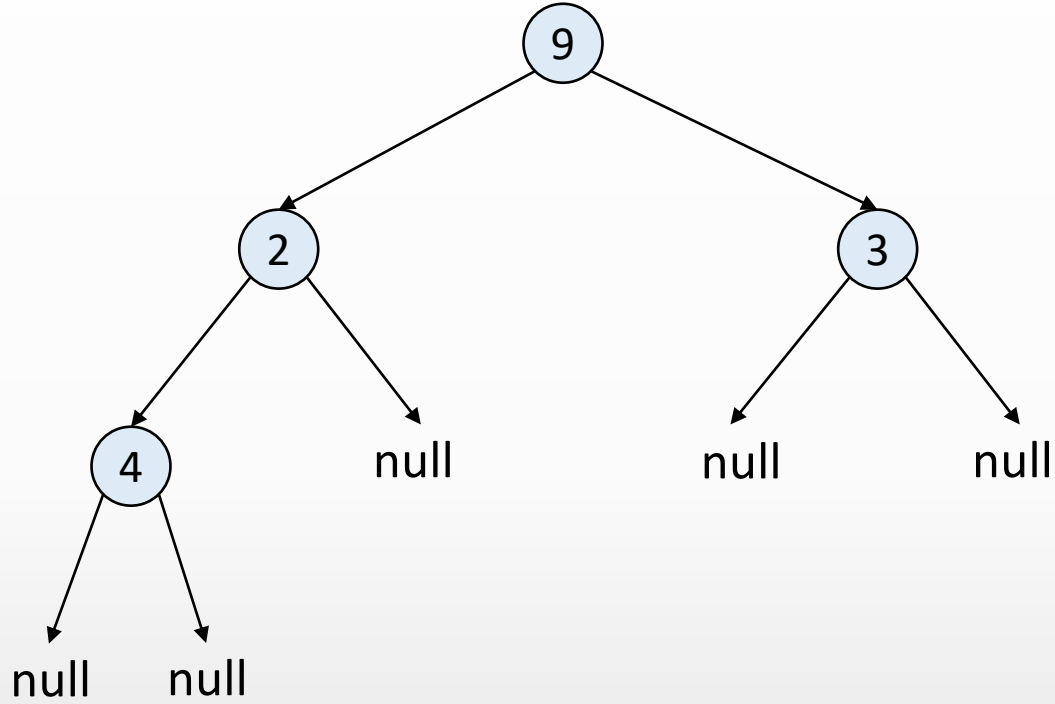


Çağırma Yiğiti (Call Stack)

Metot Çağırımı

Satır Numarası

Kök

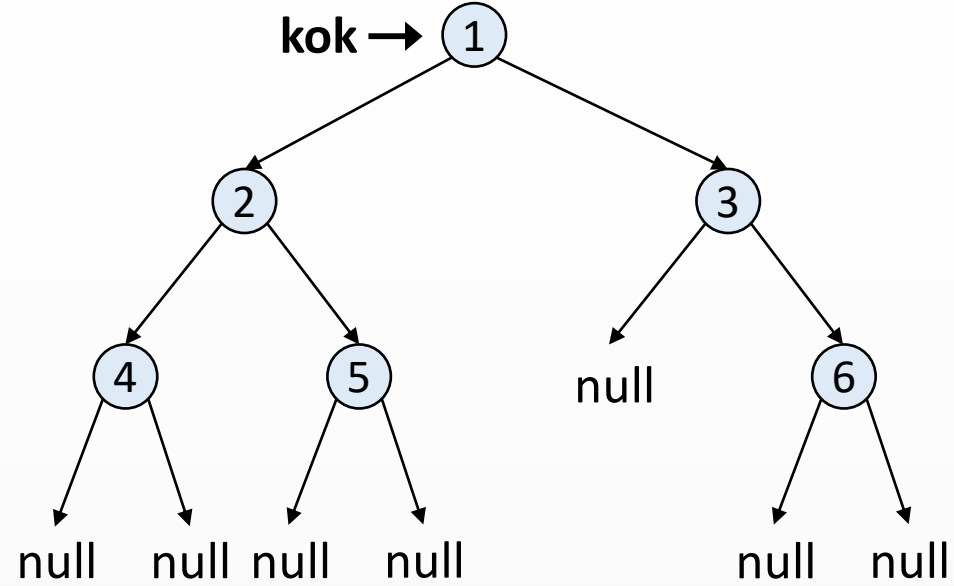


Çıktı: 4 2 3 9

```
1 public void kokSonda(AgacDugumu kok) {
2     if(kok == null) {
3         return;
4     }
5     kokSonda(kok.sol);
6     kokSonda(kok.sag);
7     System.out.print(kok.veri + " ");
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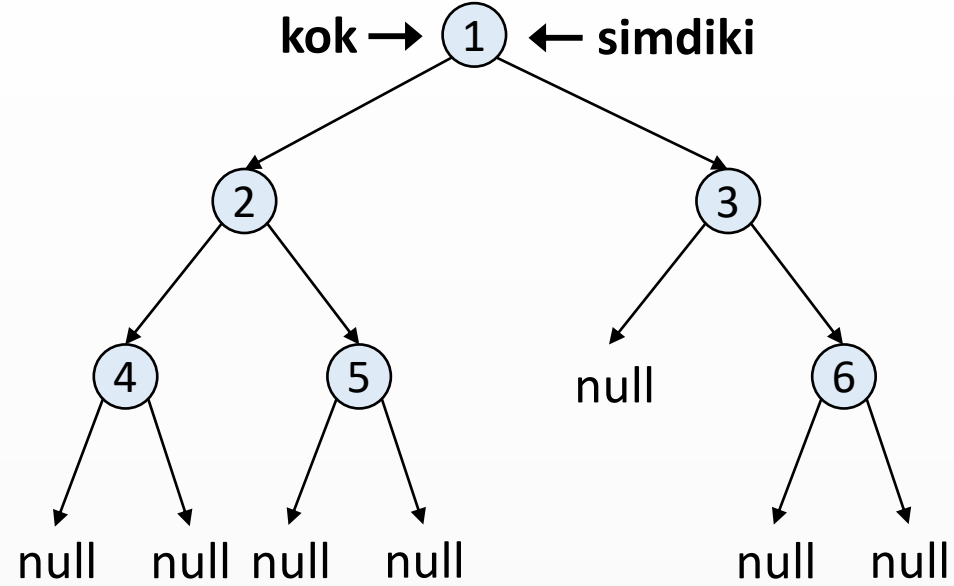


Yıgın ile Kök Sonda Dolaşımı



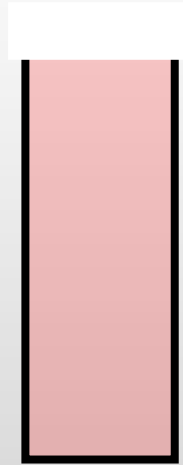
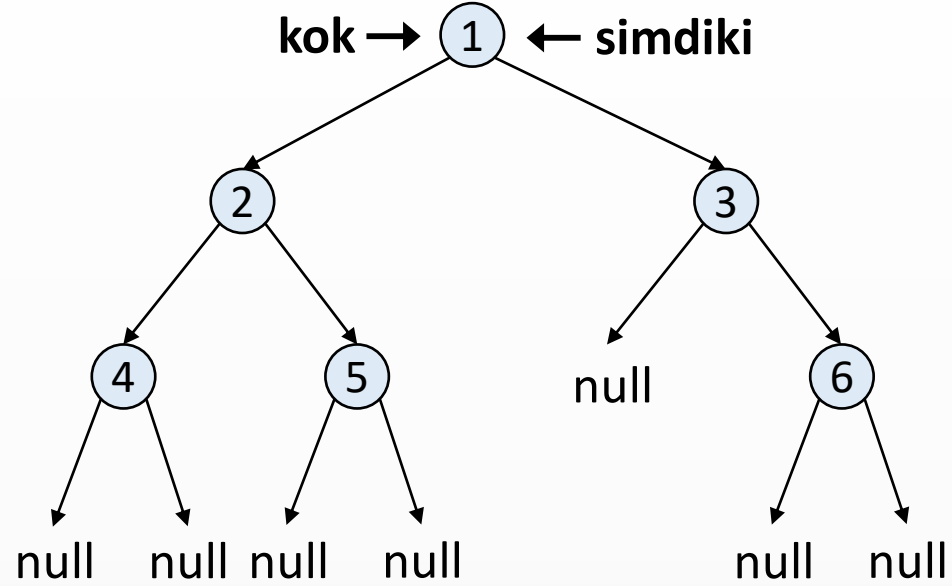
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



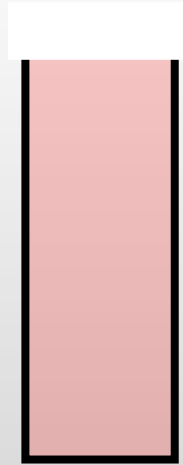
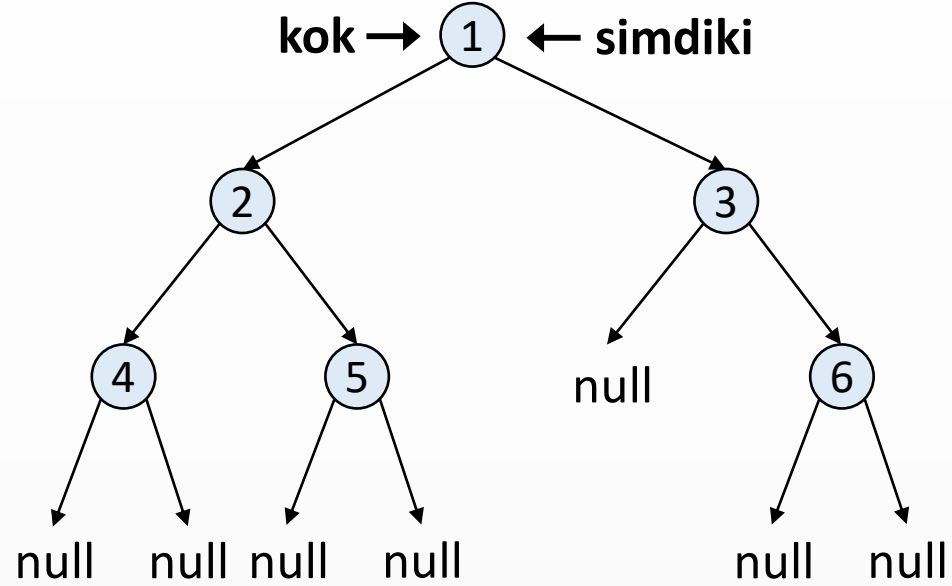
Çıktı:

```
→ AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı:

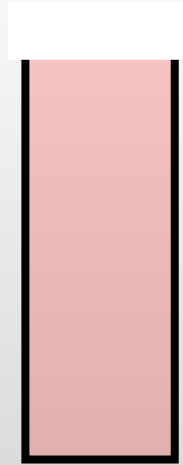
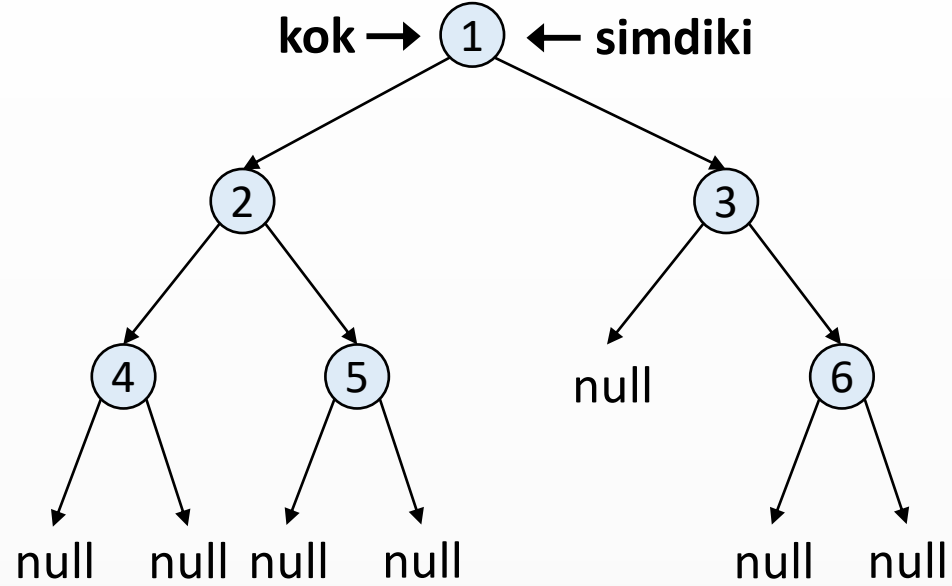
```
AgacDugumu simdiki = kok;
→ Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı:

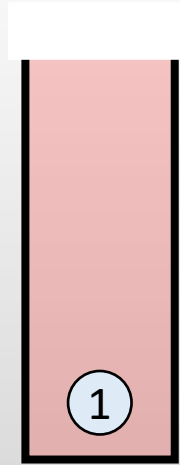
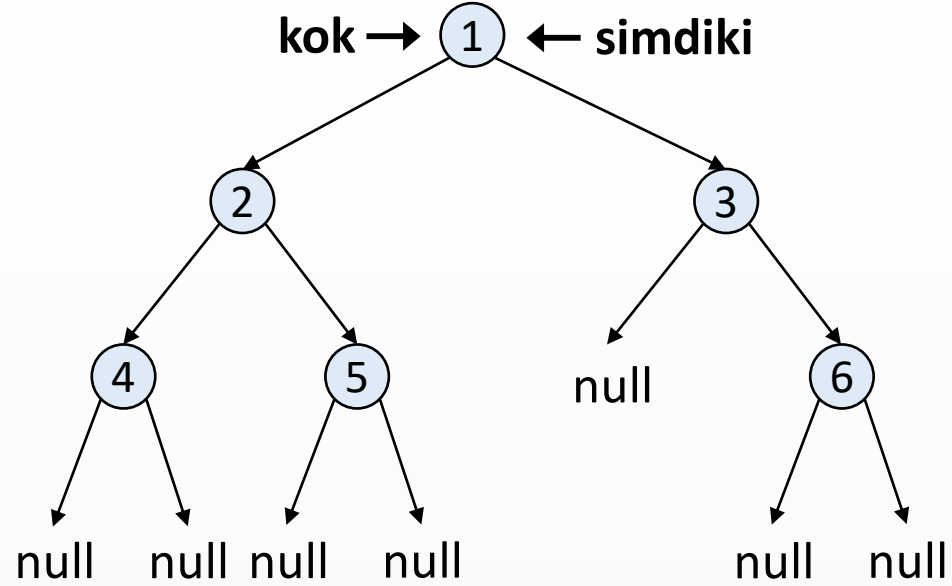
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

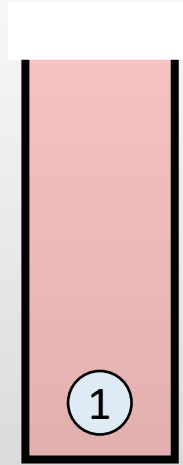
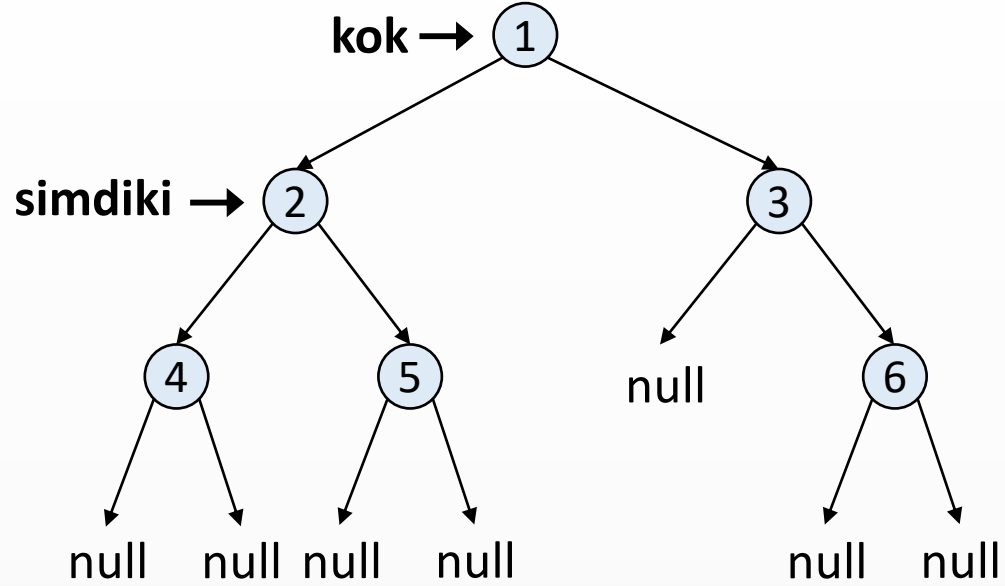
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı:

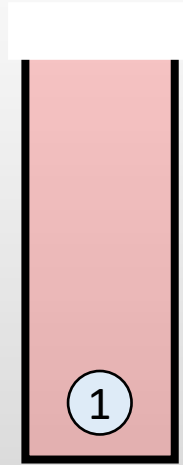
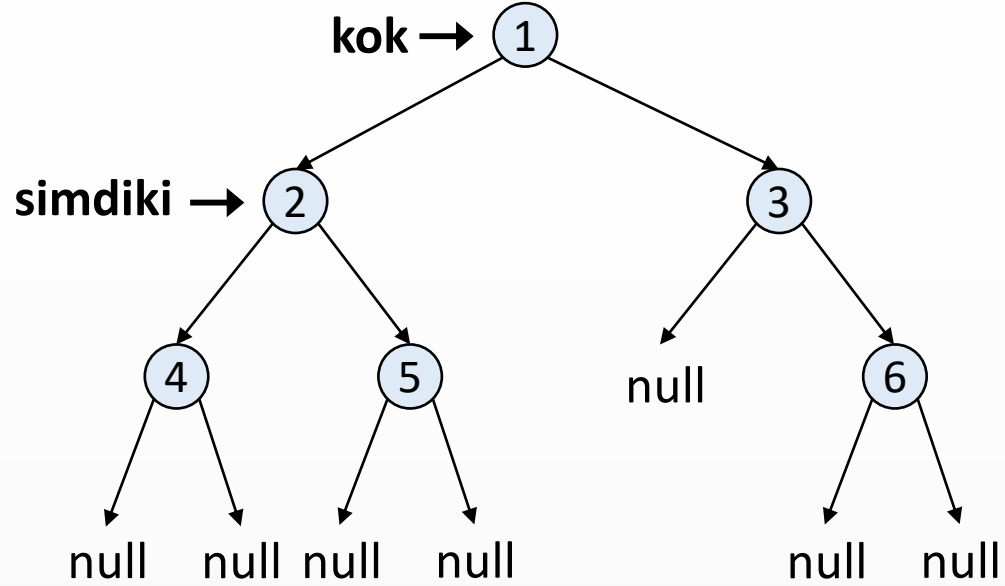
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
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            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

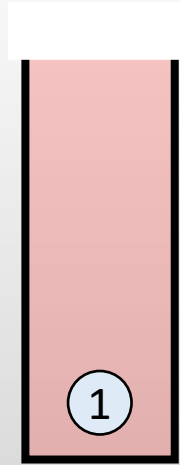
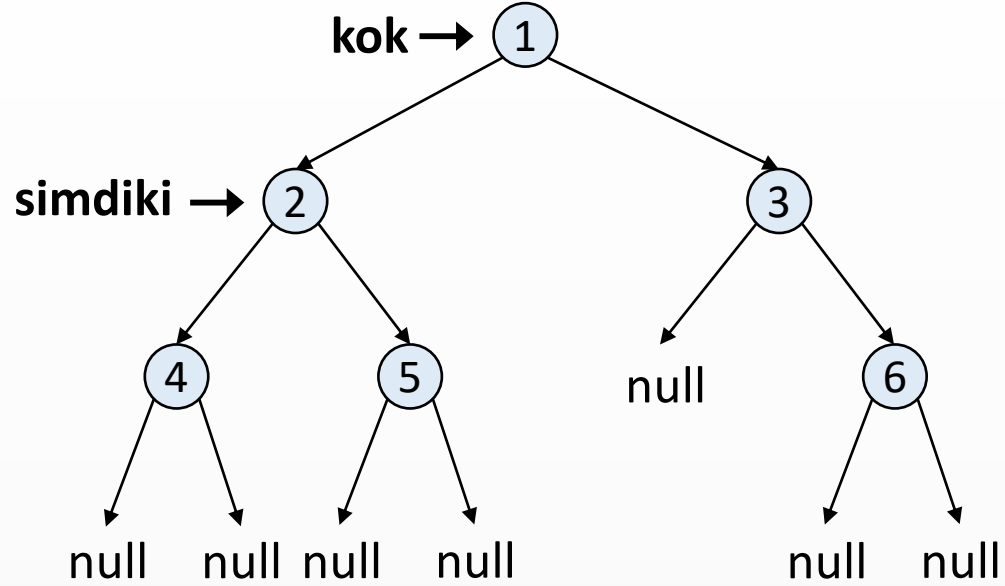
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı:

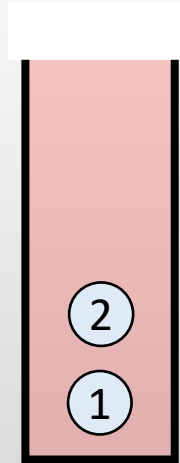
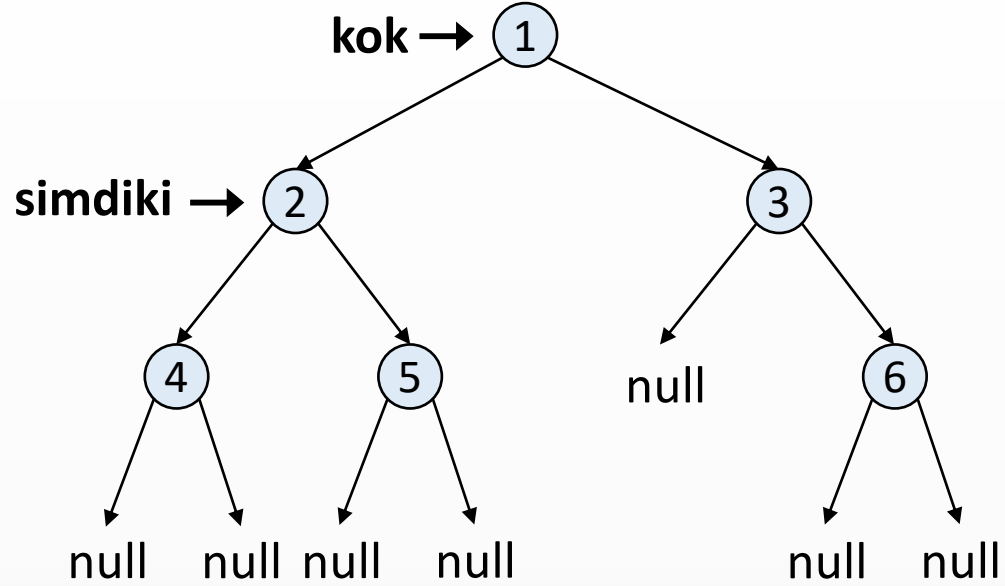
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

Yığıt

Çıktı:

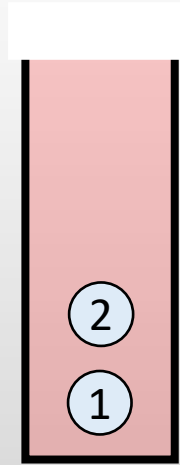
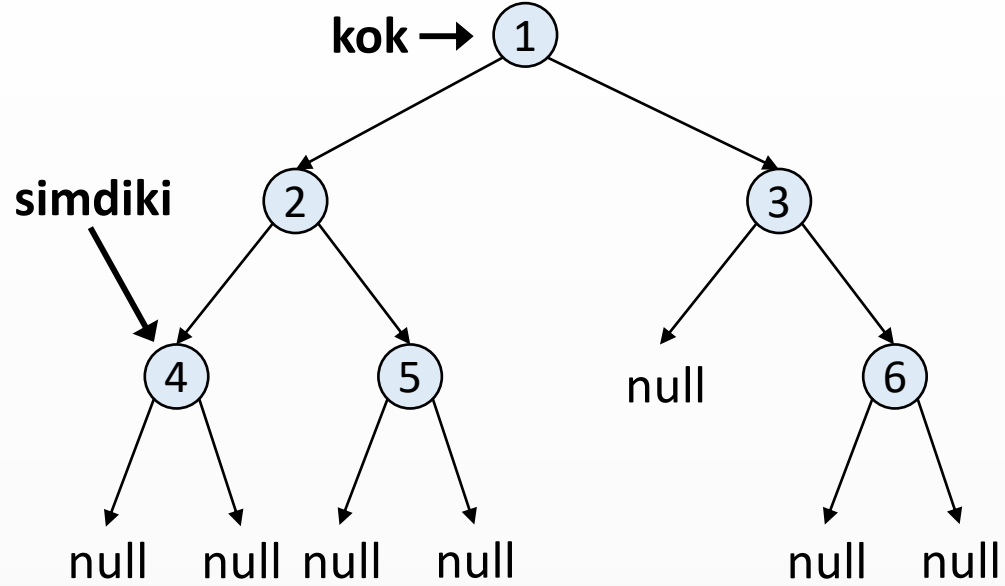
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı:

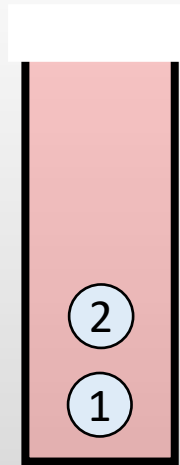
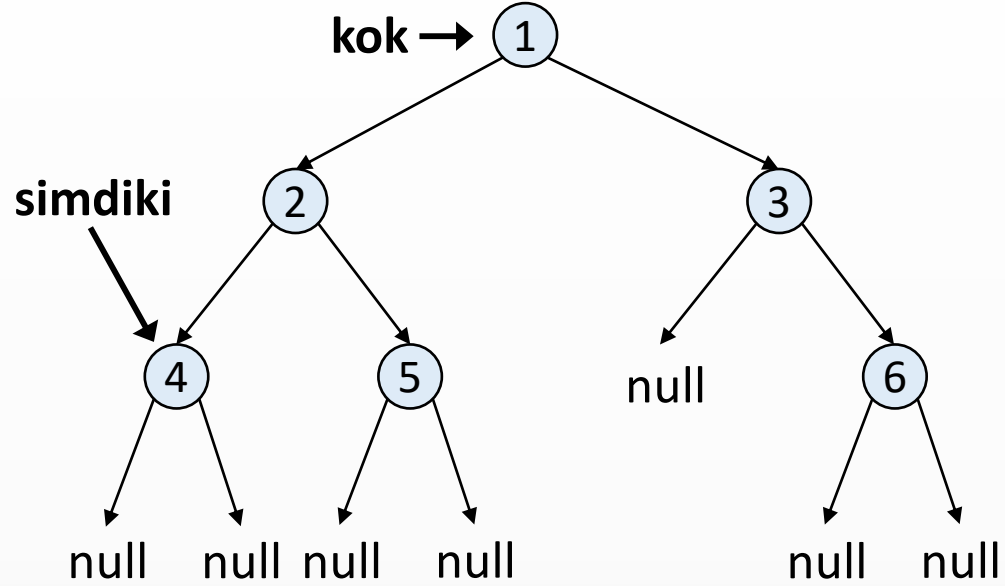
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı:

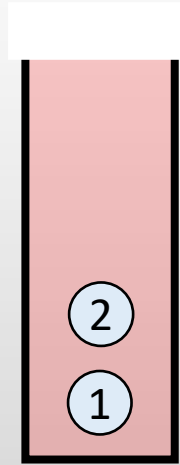
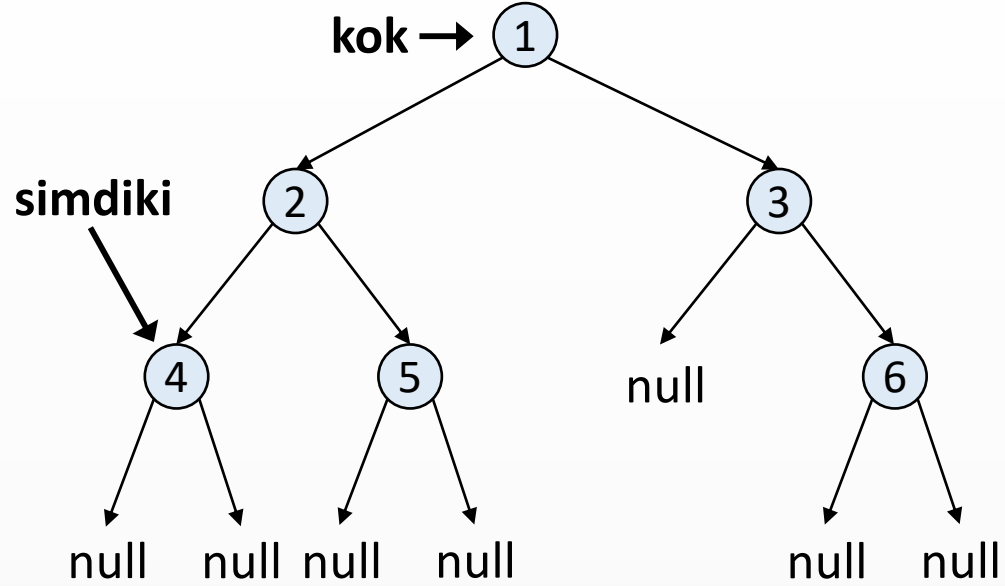
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı:

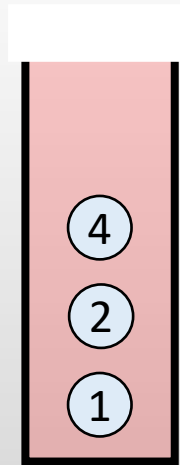
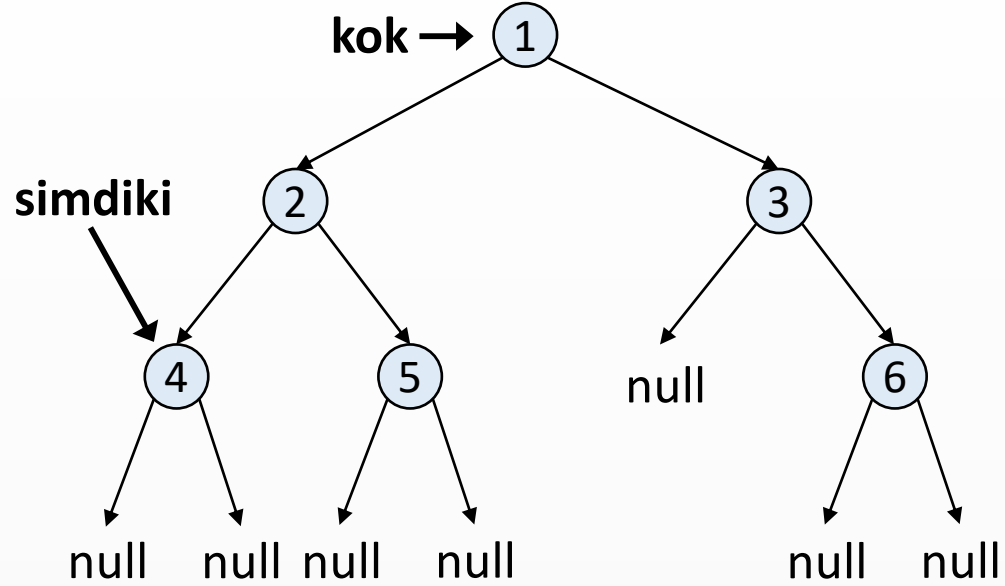
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı:

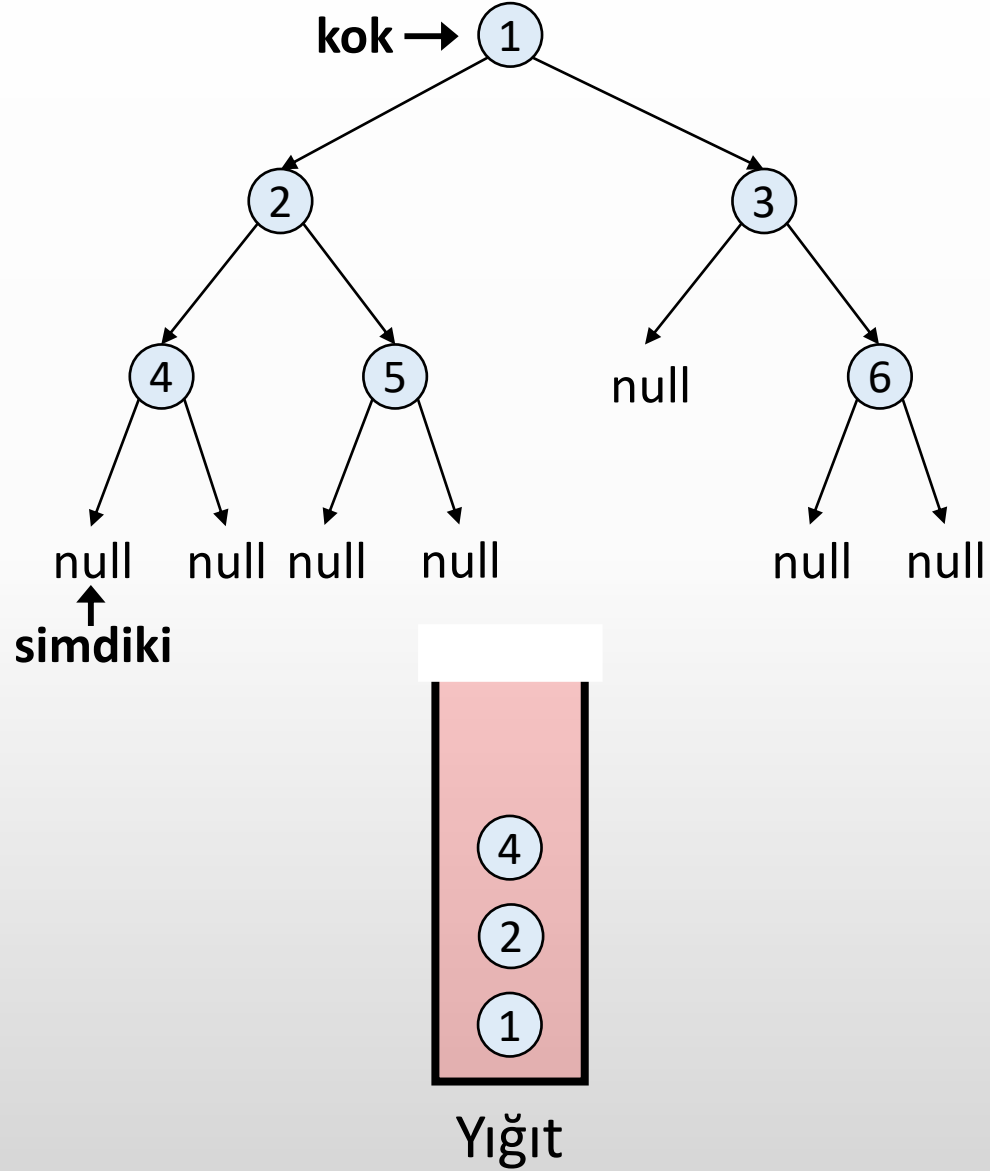
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

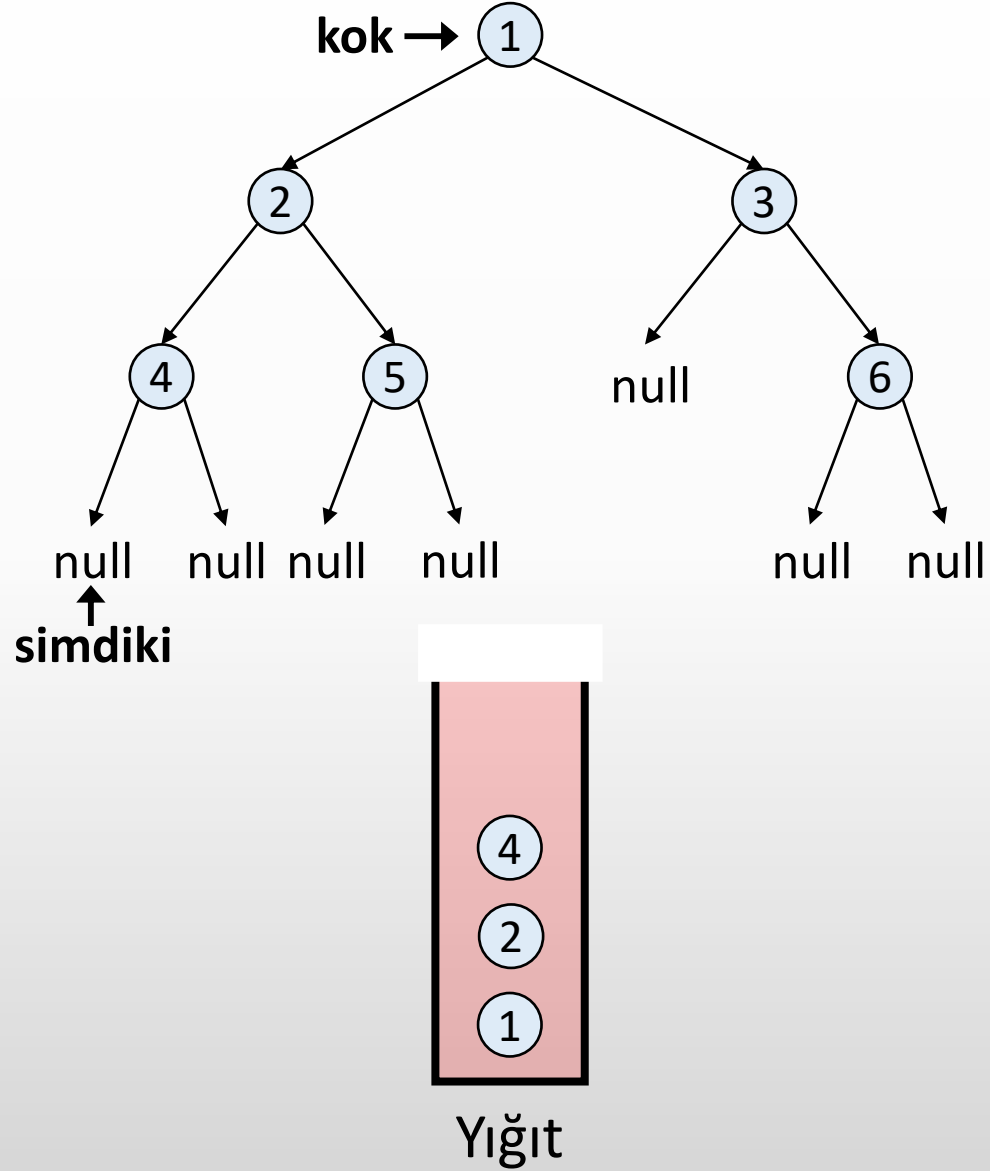
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



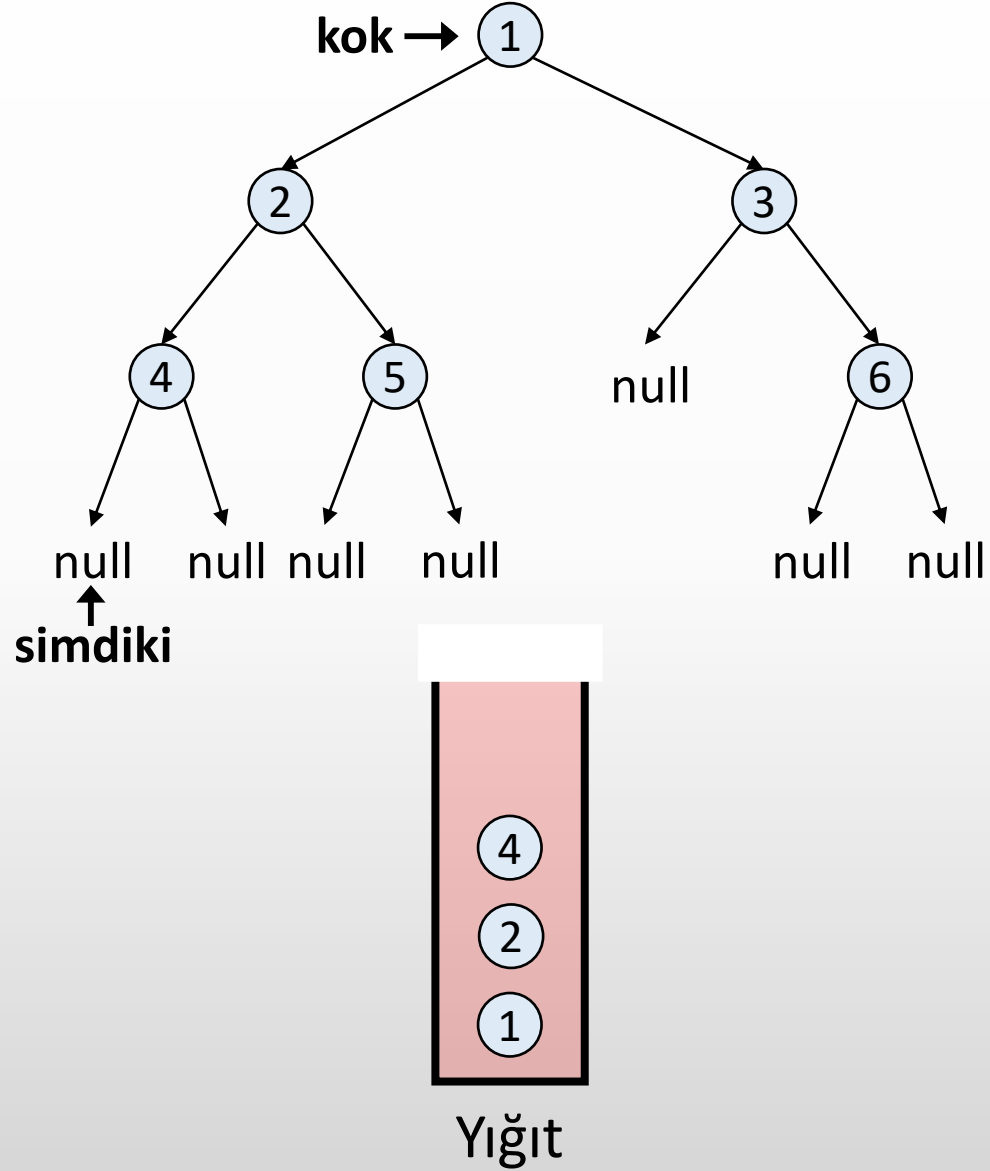
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



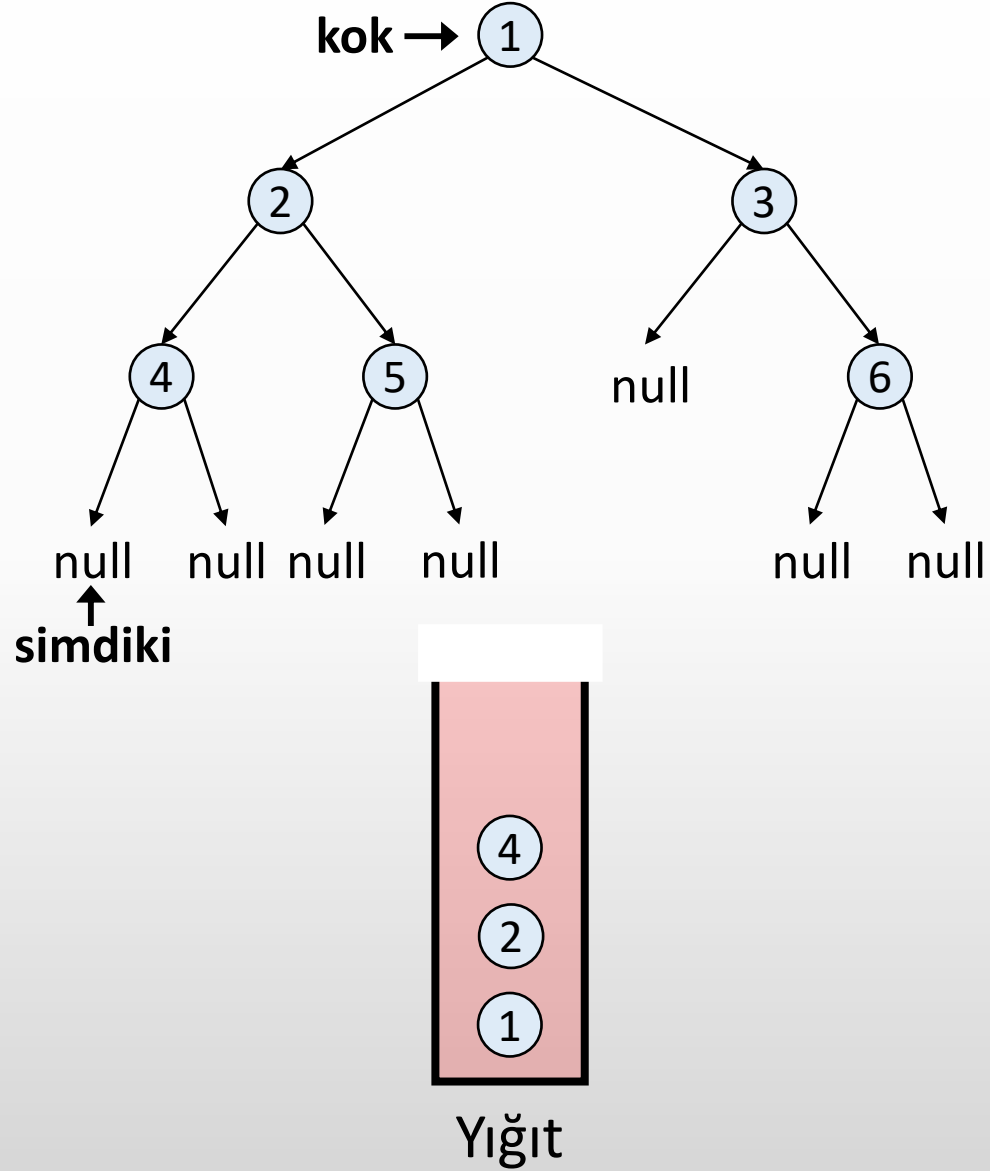
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

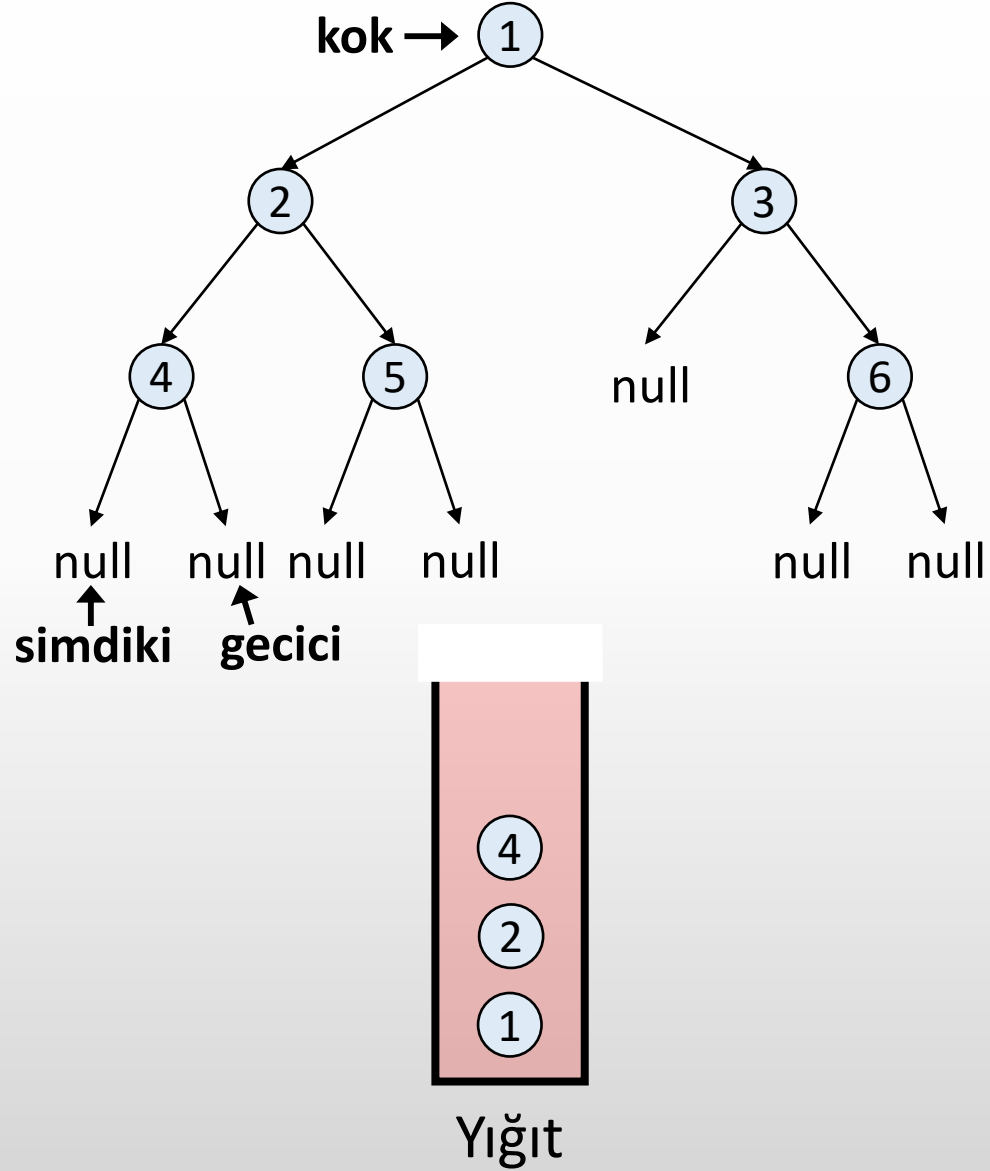
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



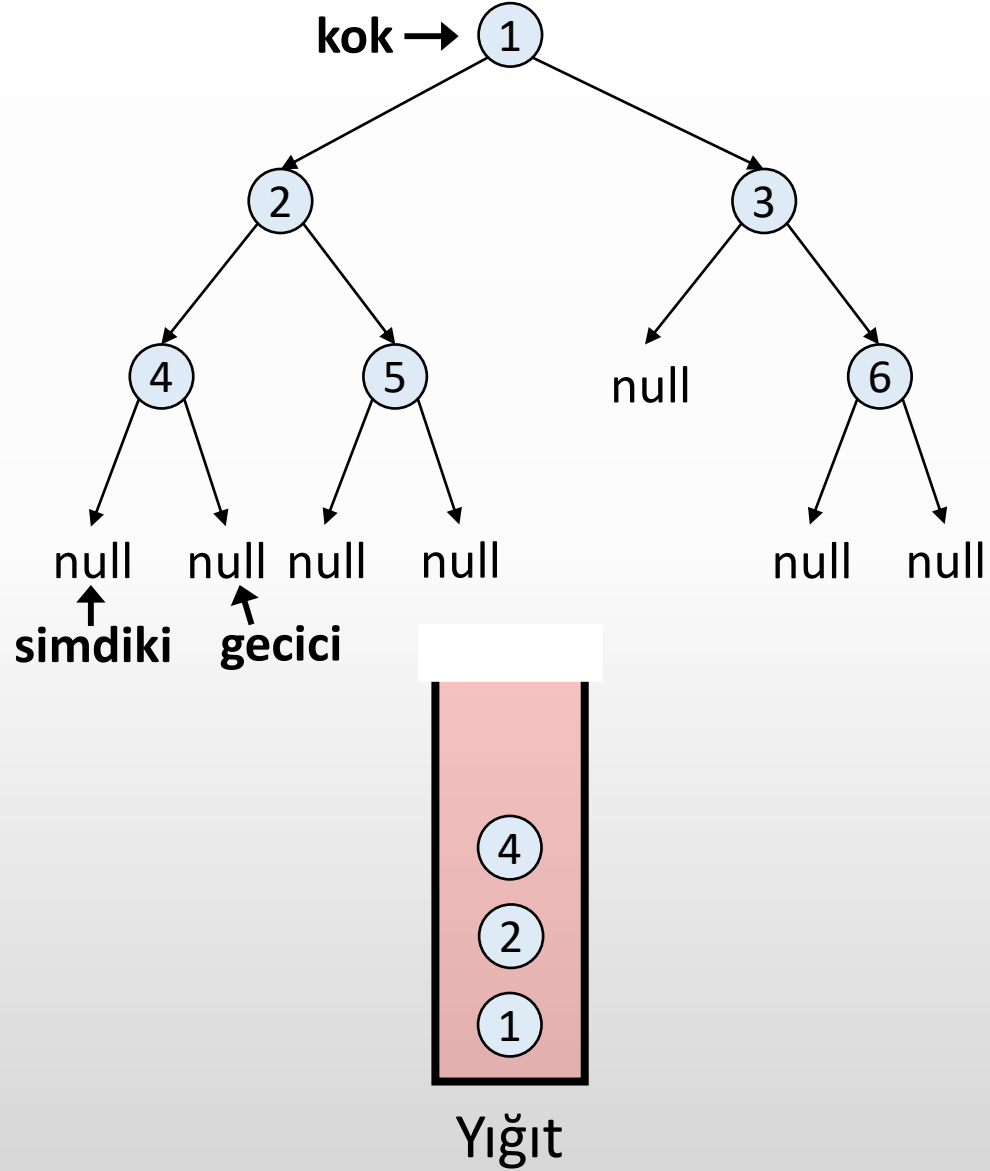
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



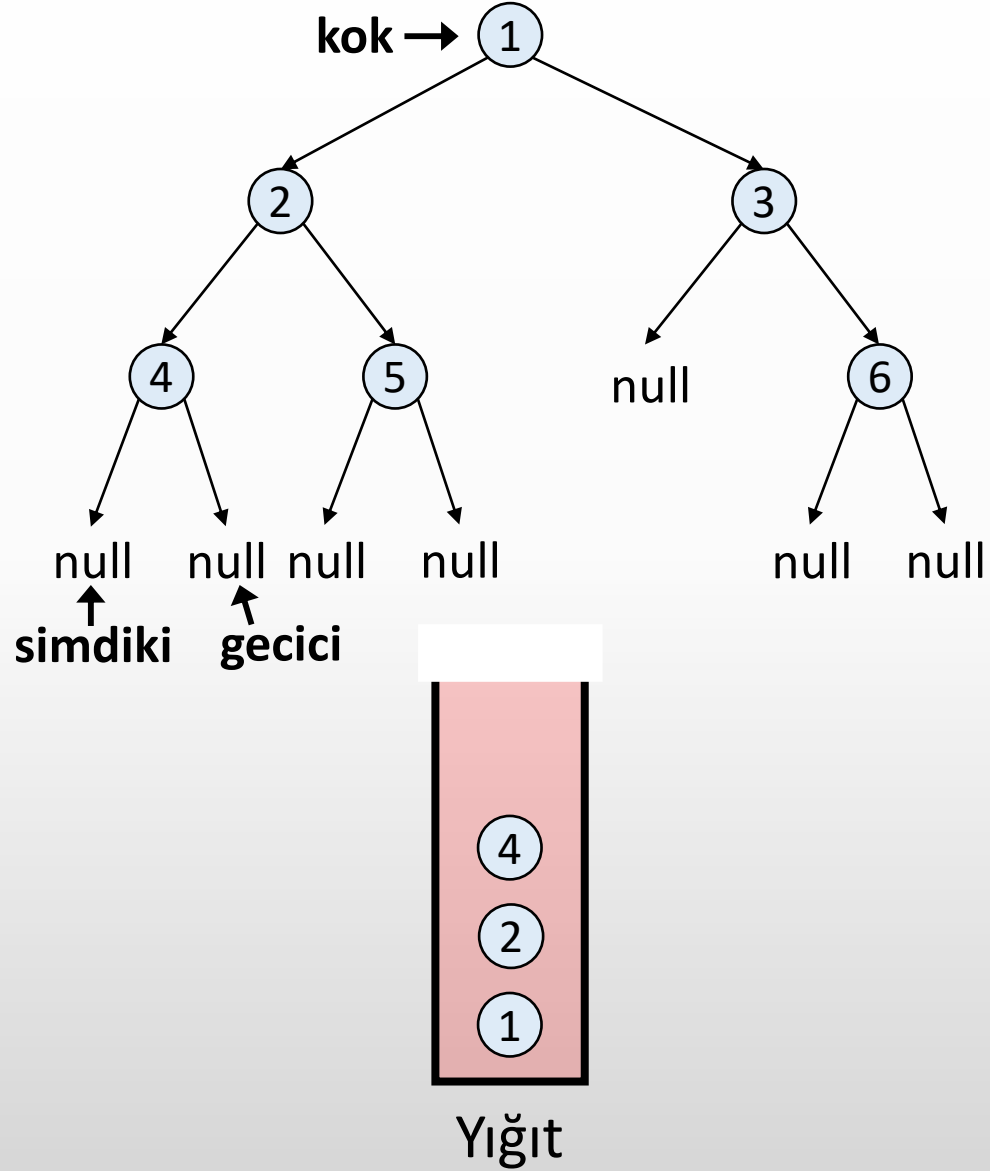
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



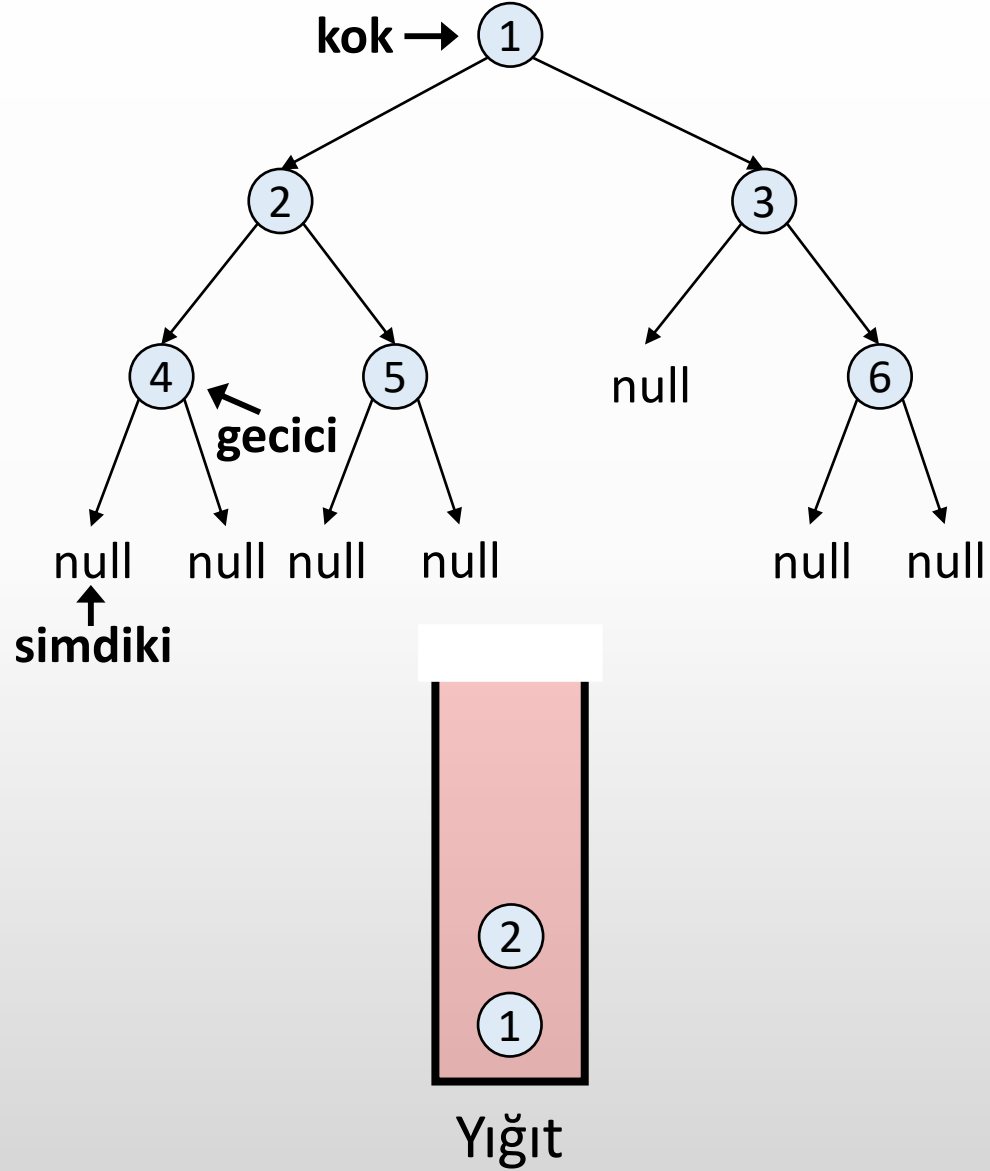
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



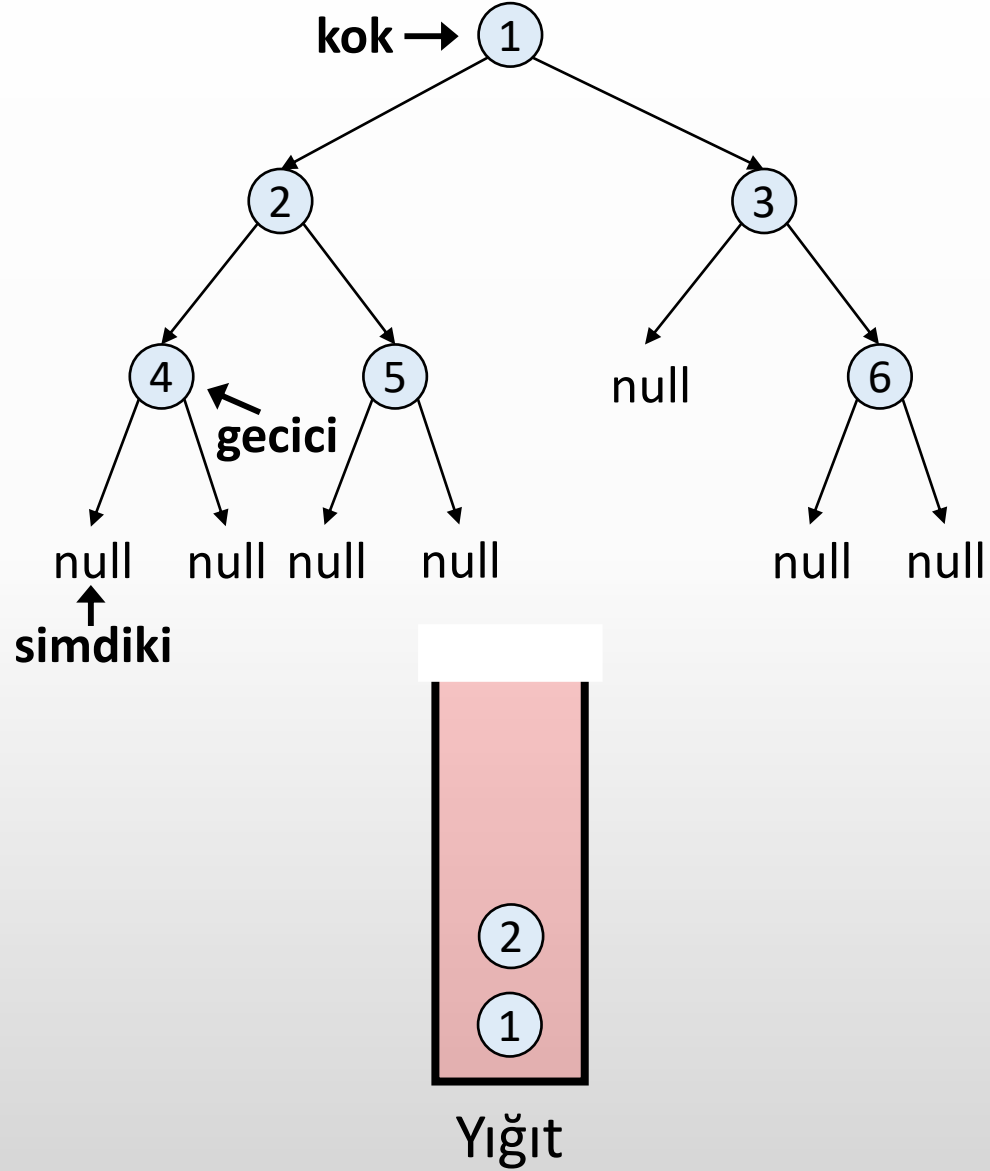
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



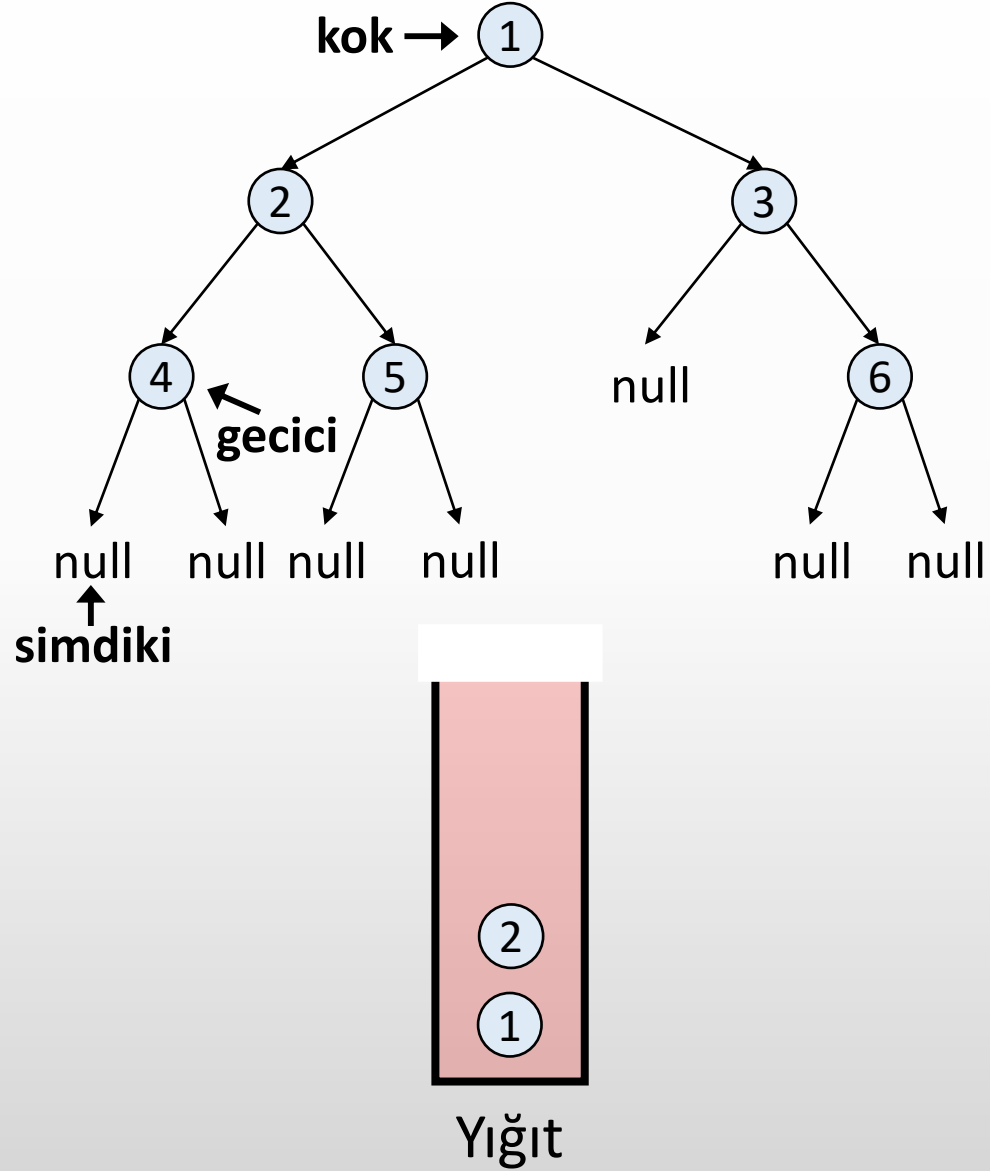
Çıktı:

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



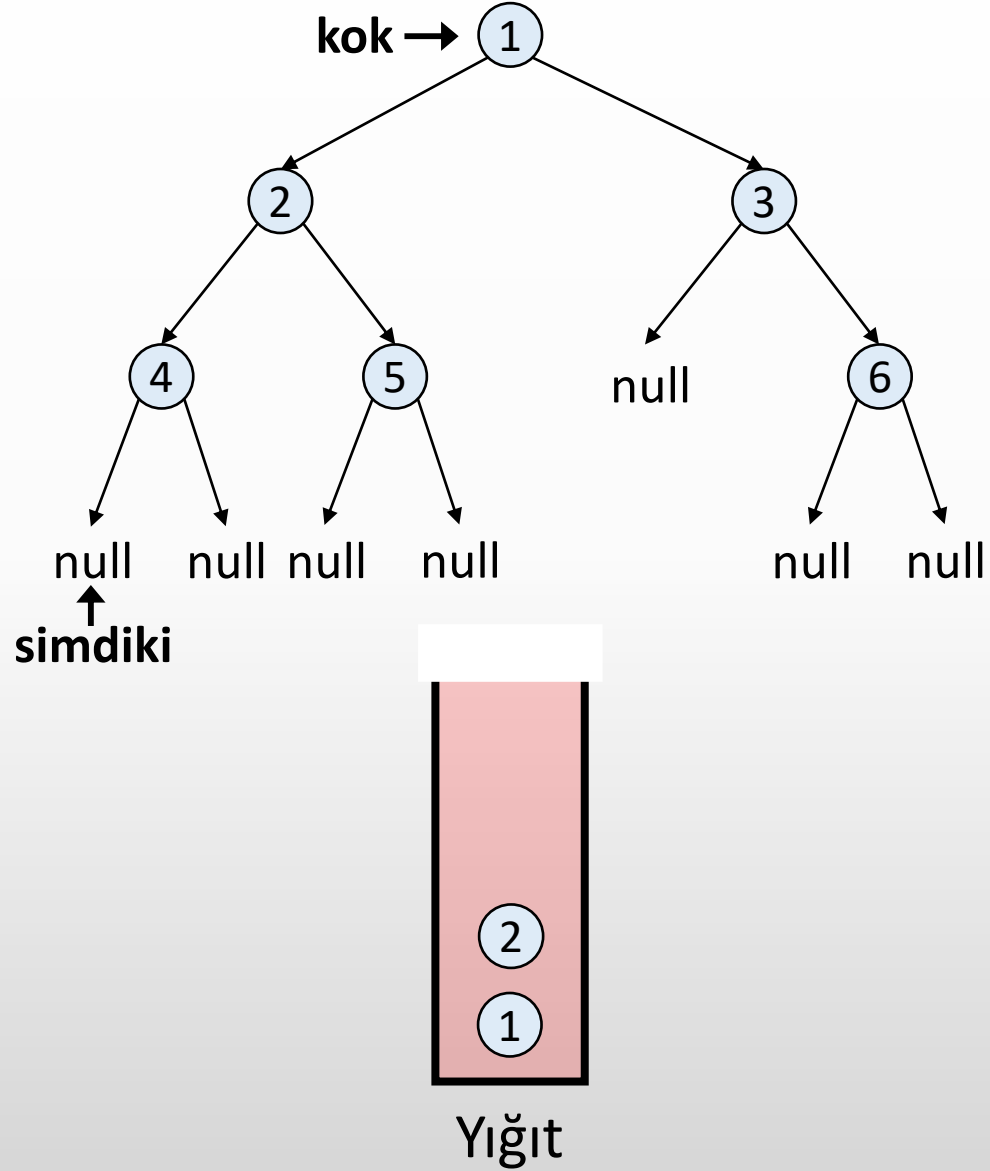
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



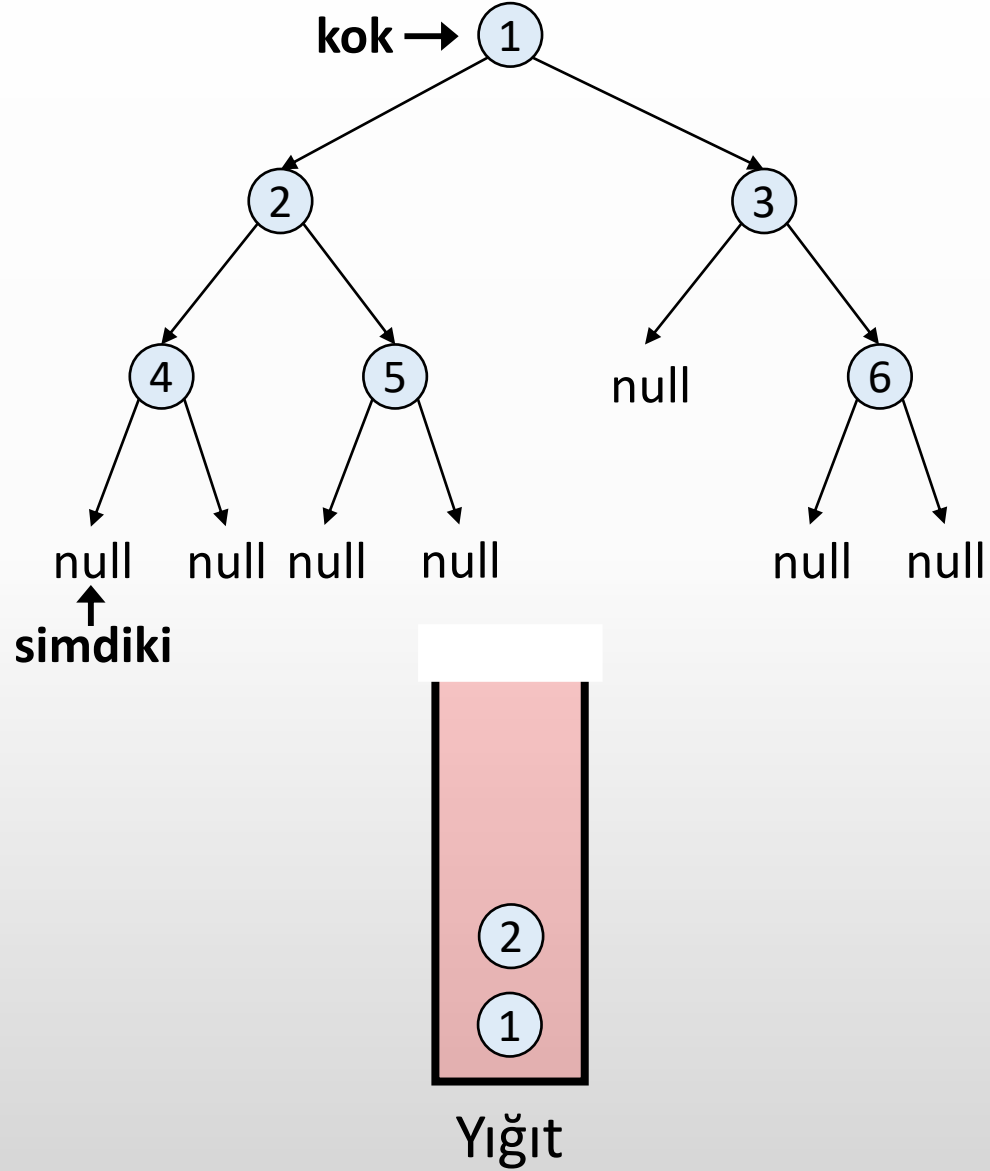
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

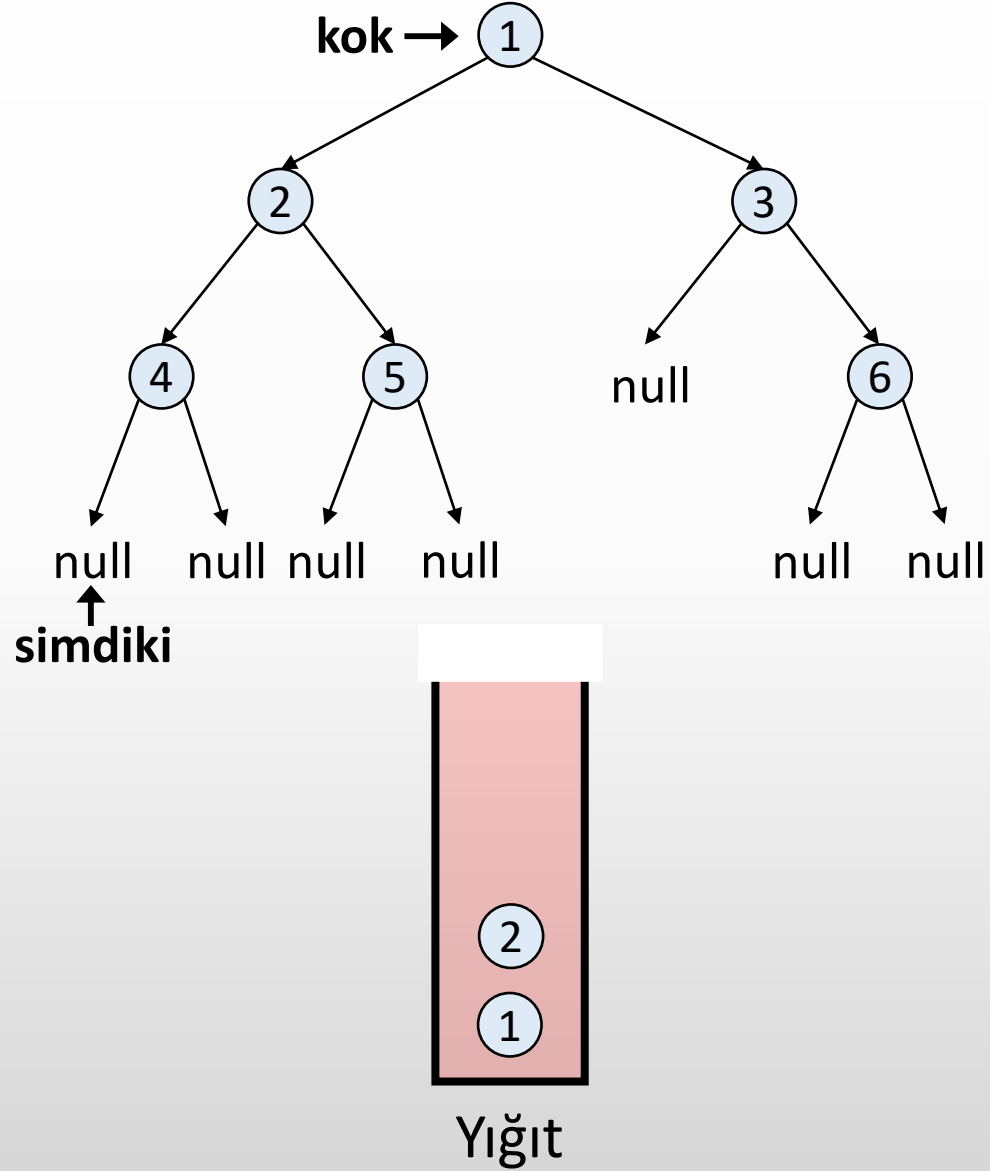
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



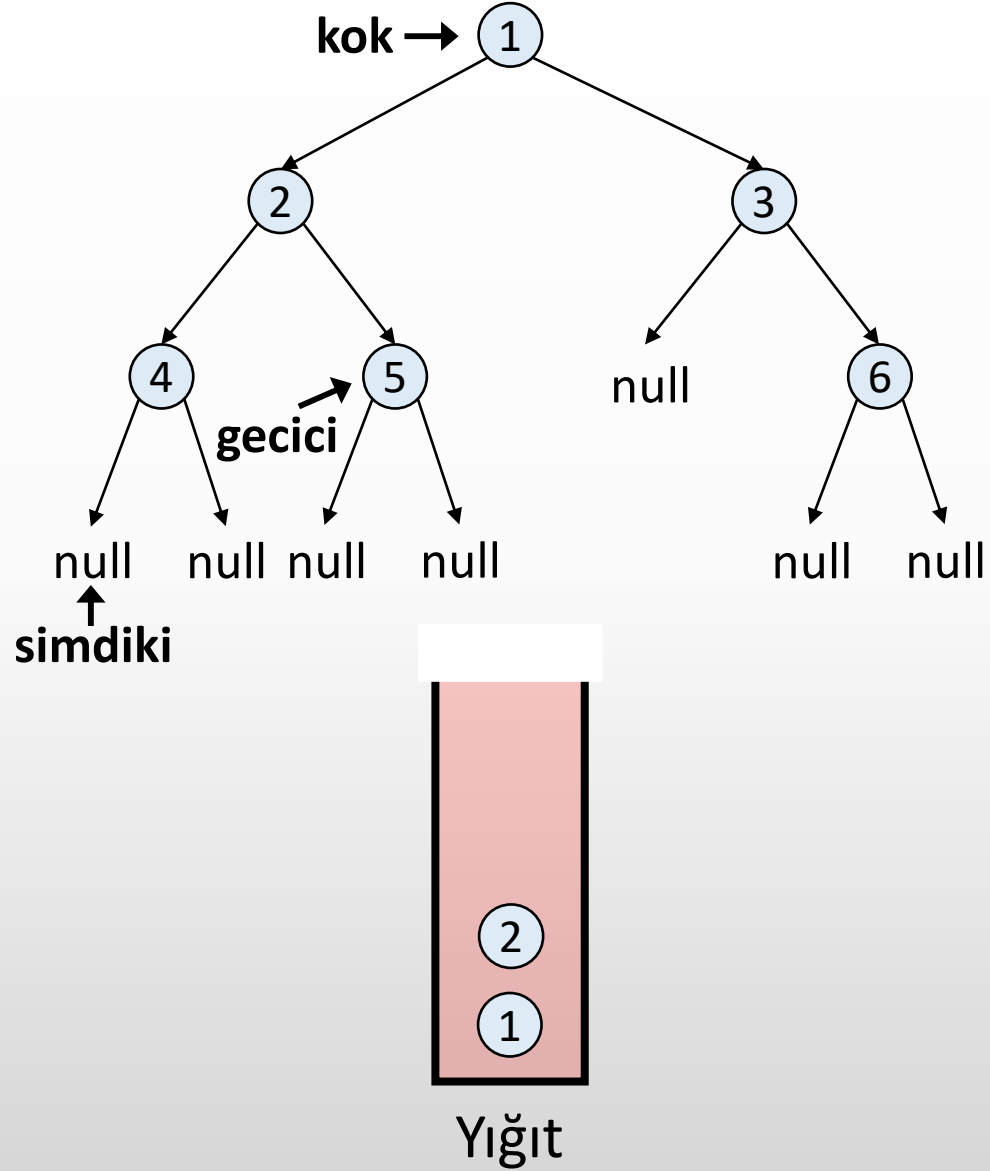
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



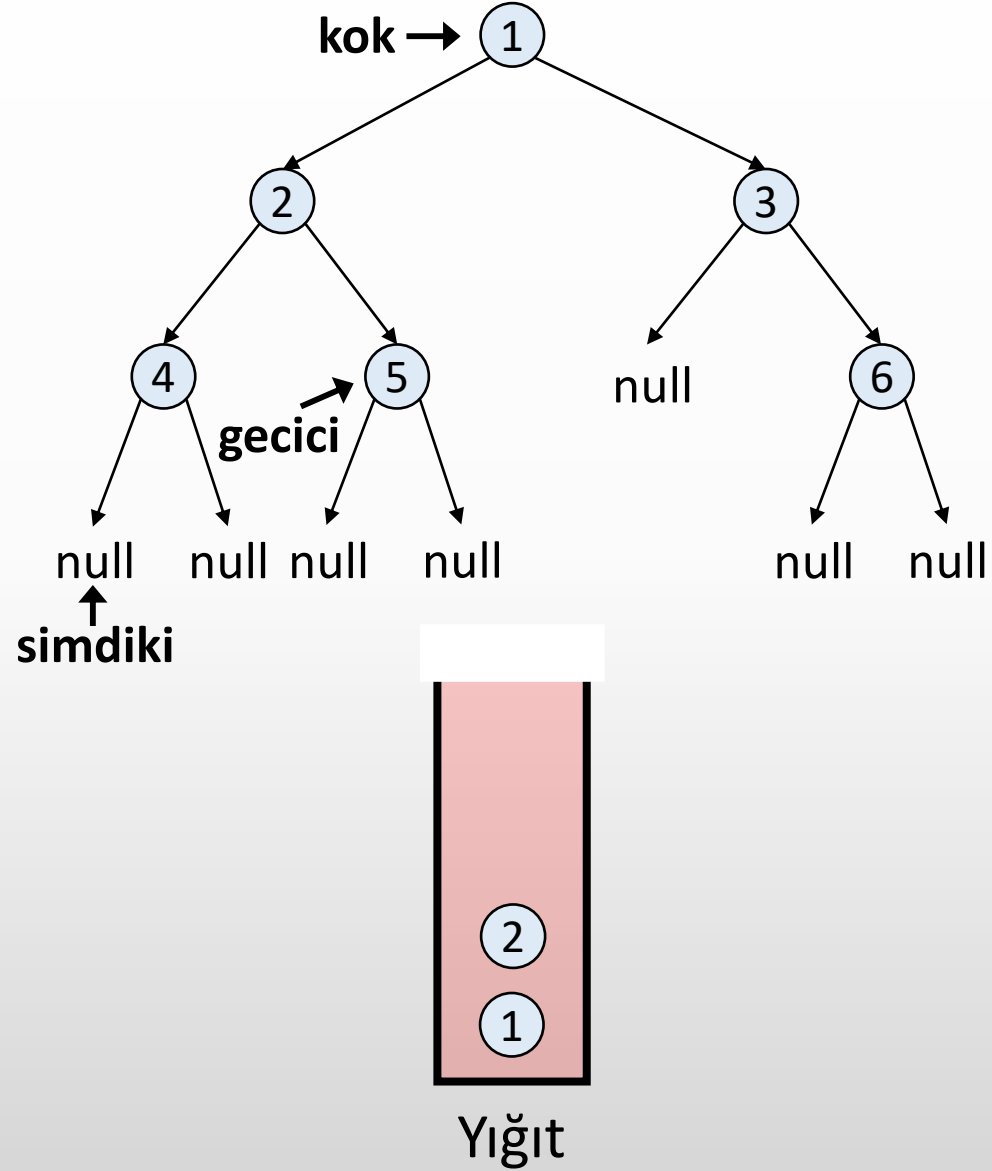
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



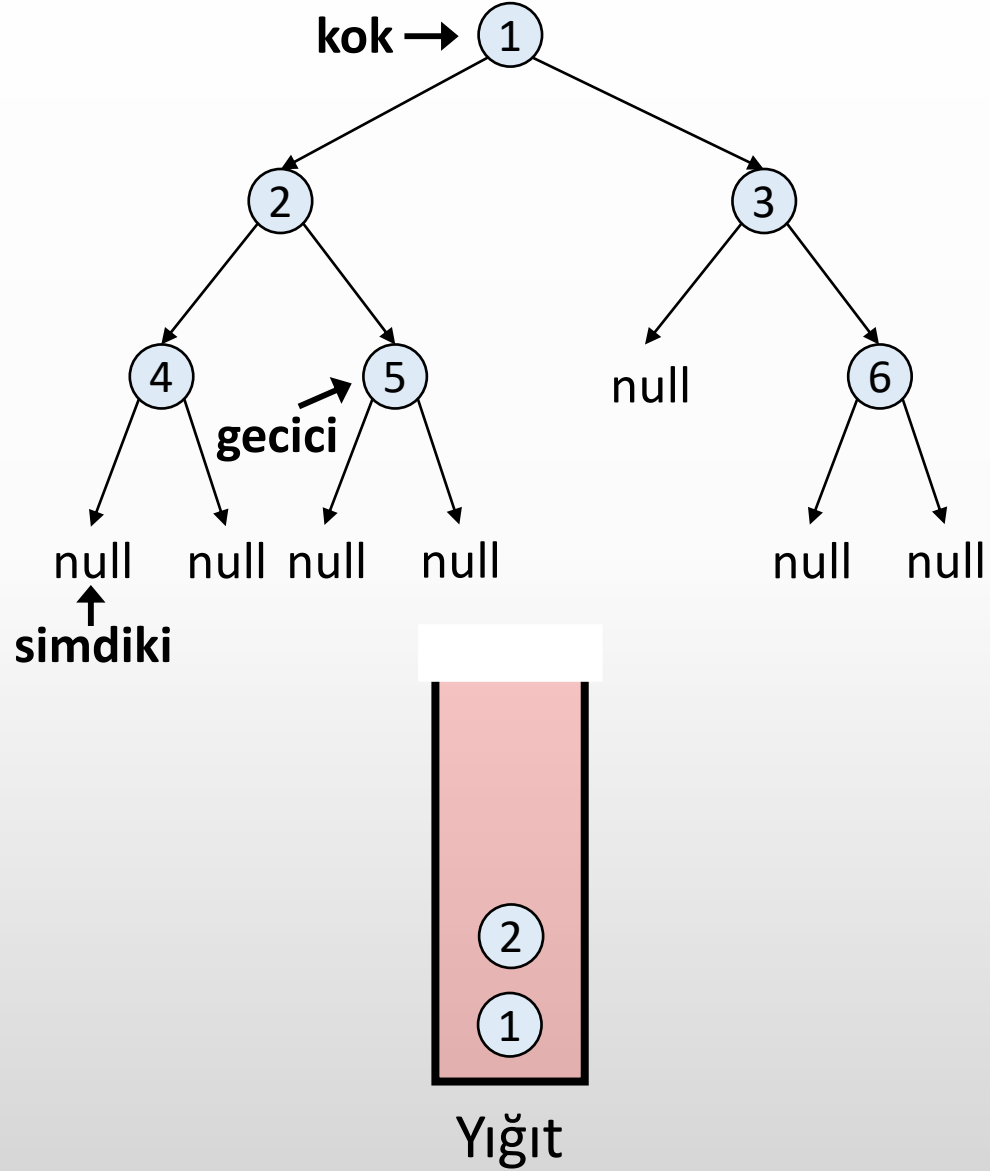
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



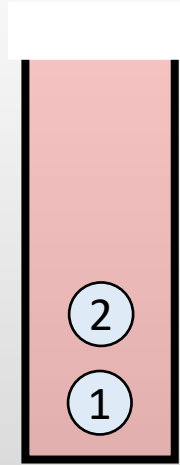
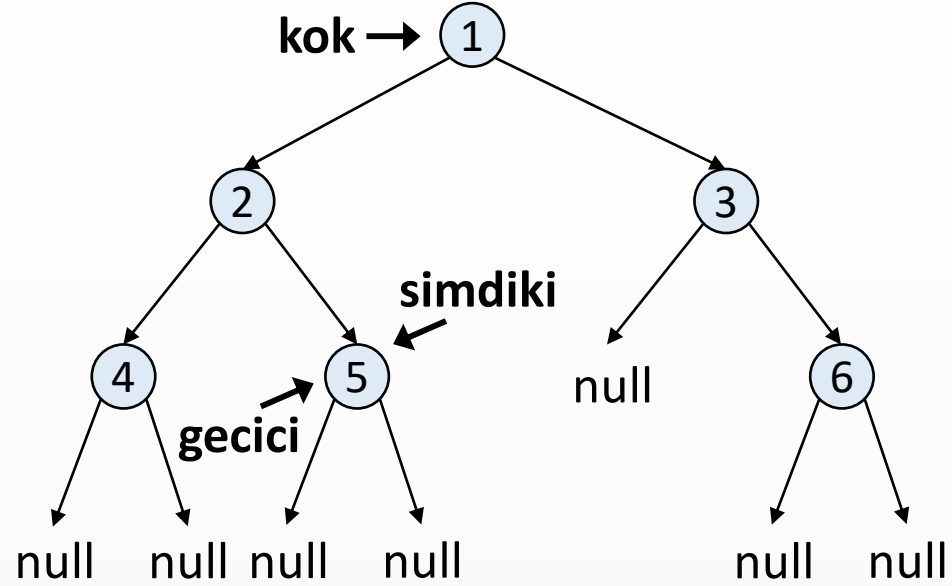
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı: 4

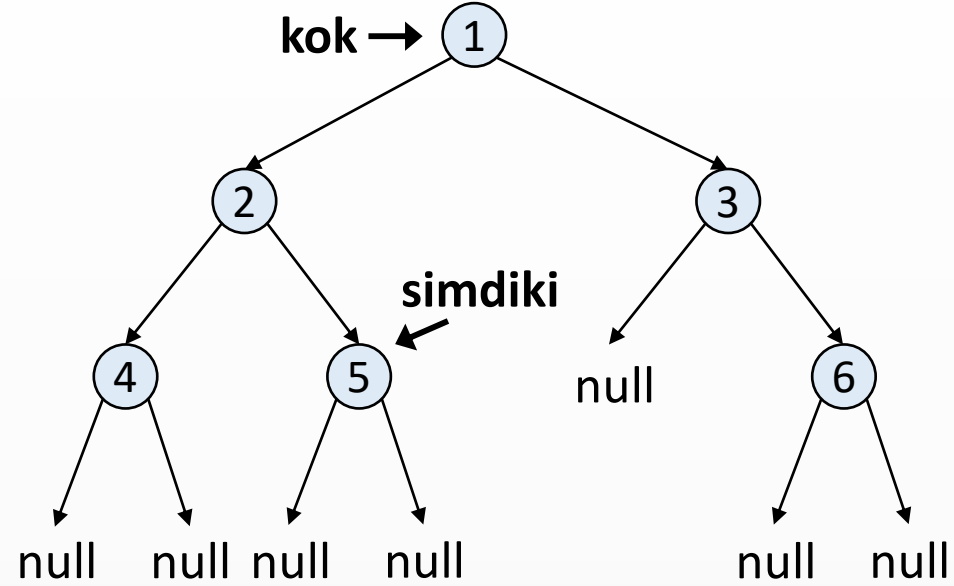
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

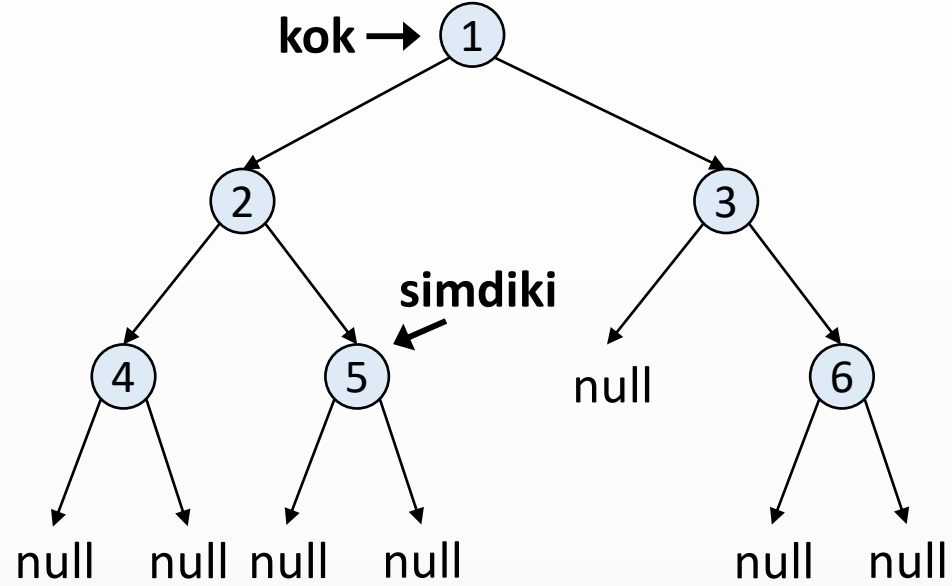
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



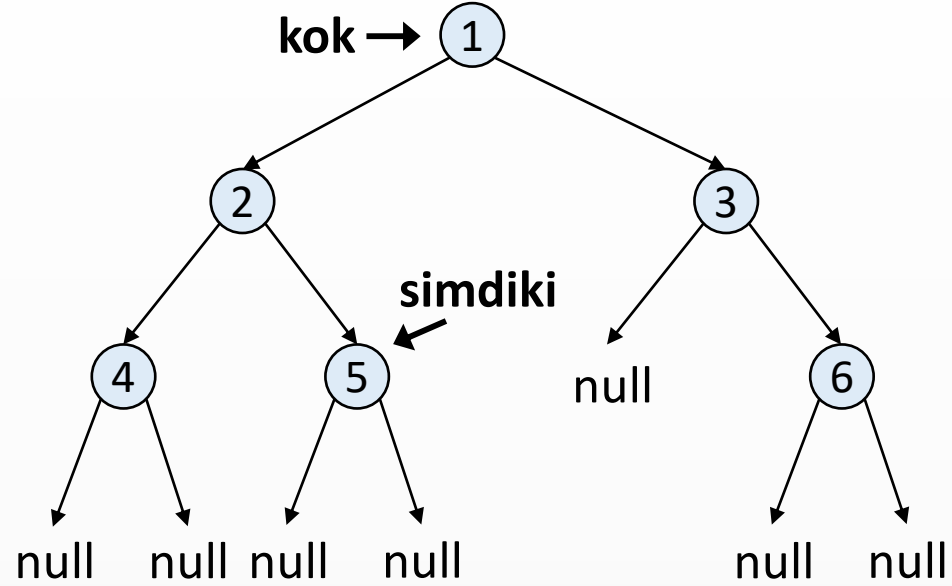
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

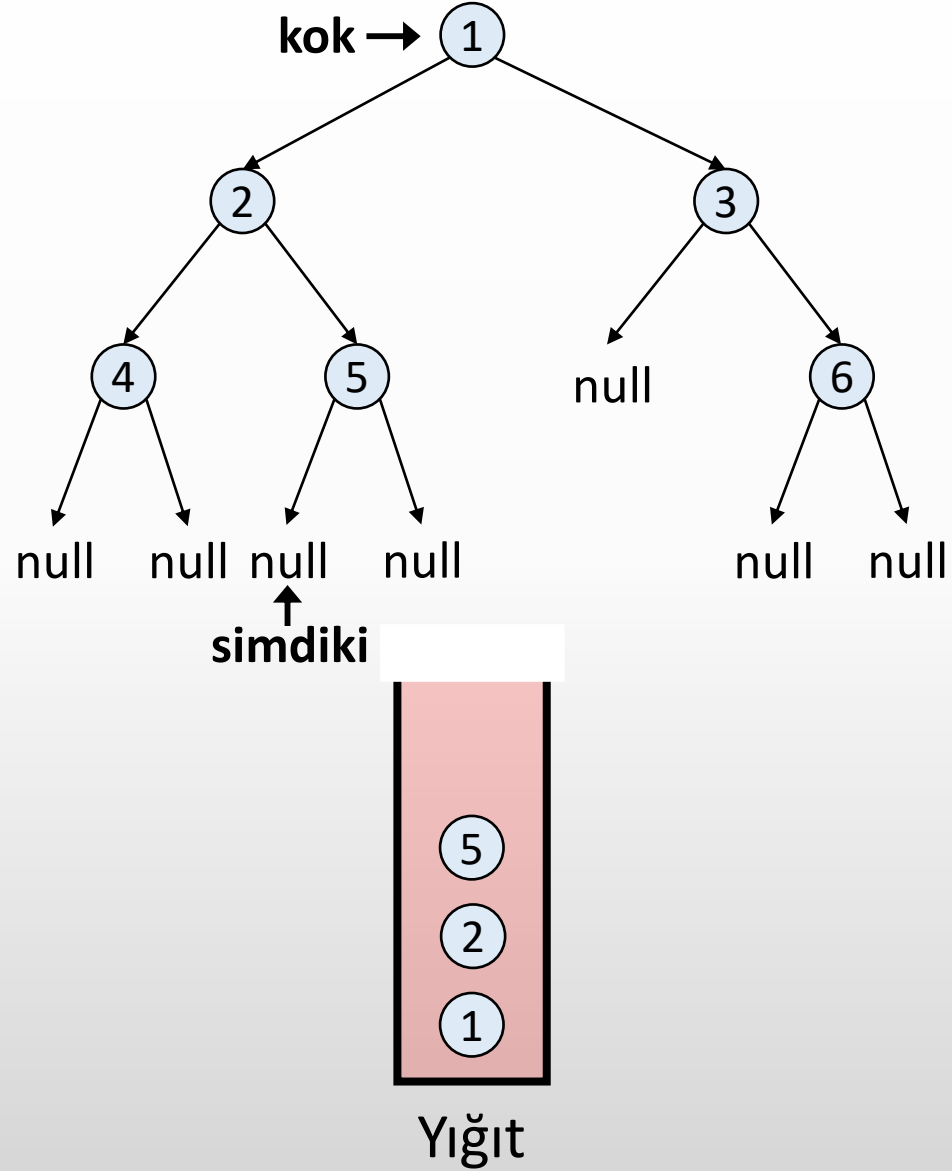
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



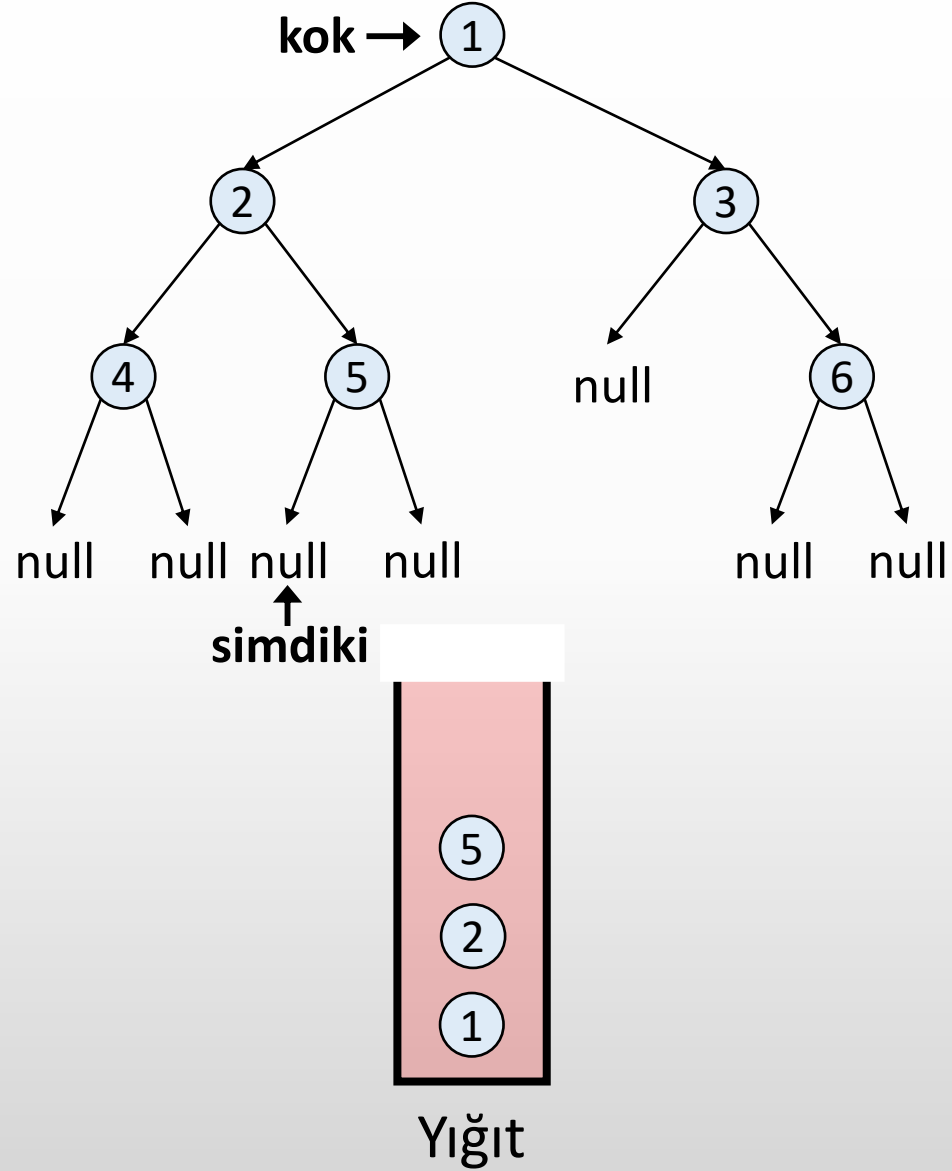
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        AgacDugumu gecici = yigit.peek().sag;
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            gecici = yigit.pop();
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            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



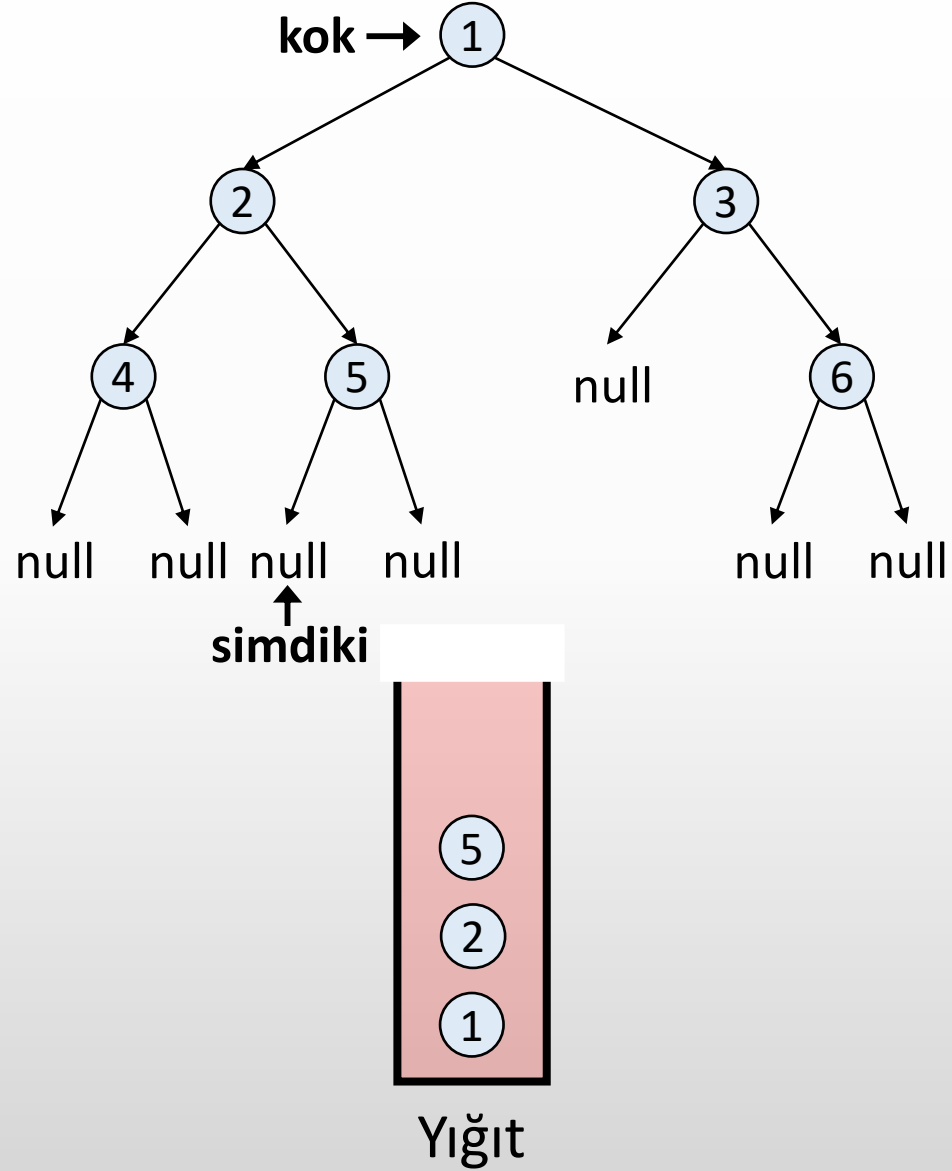
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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        AgacDugumu gecici = yigit.peek().sag;
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            gecici = yigit.pop();
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



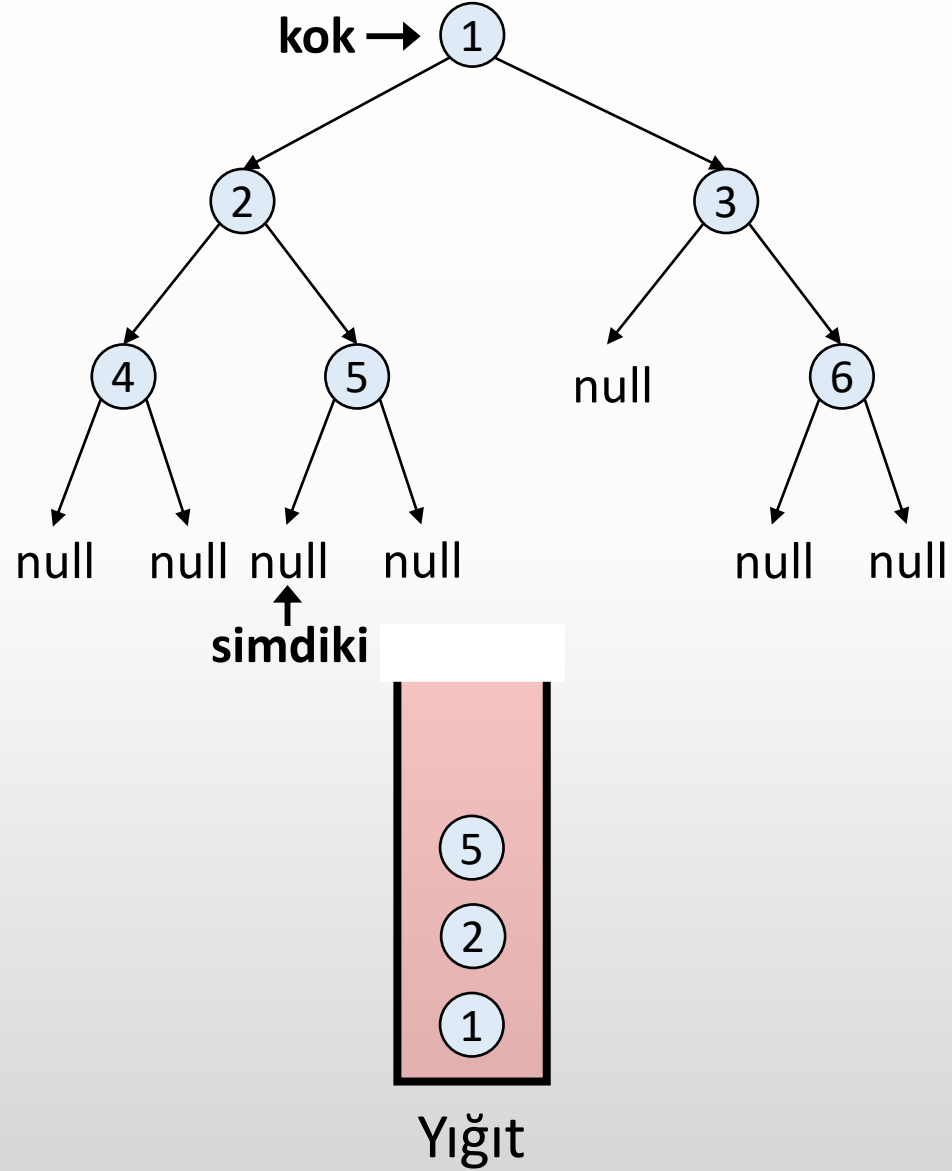
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
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```



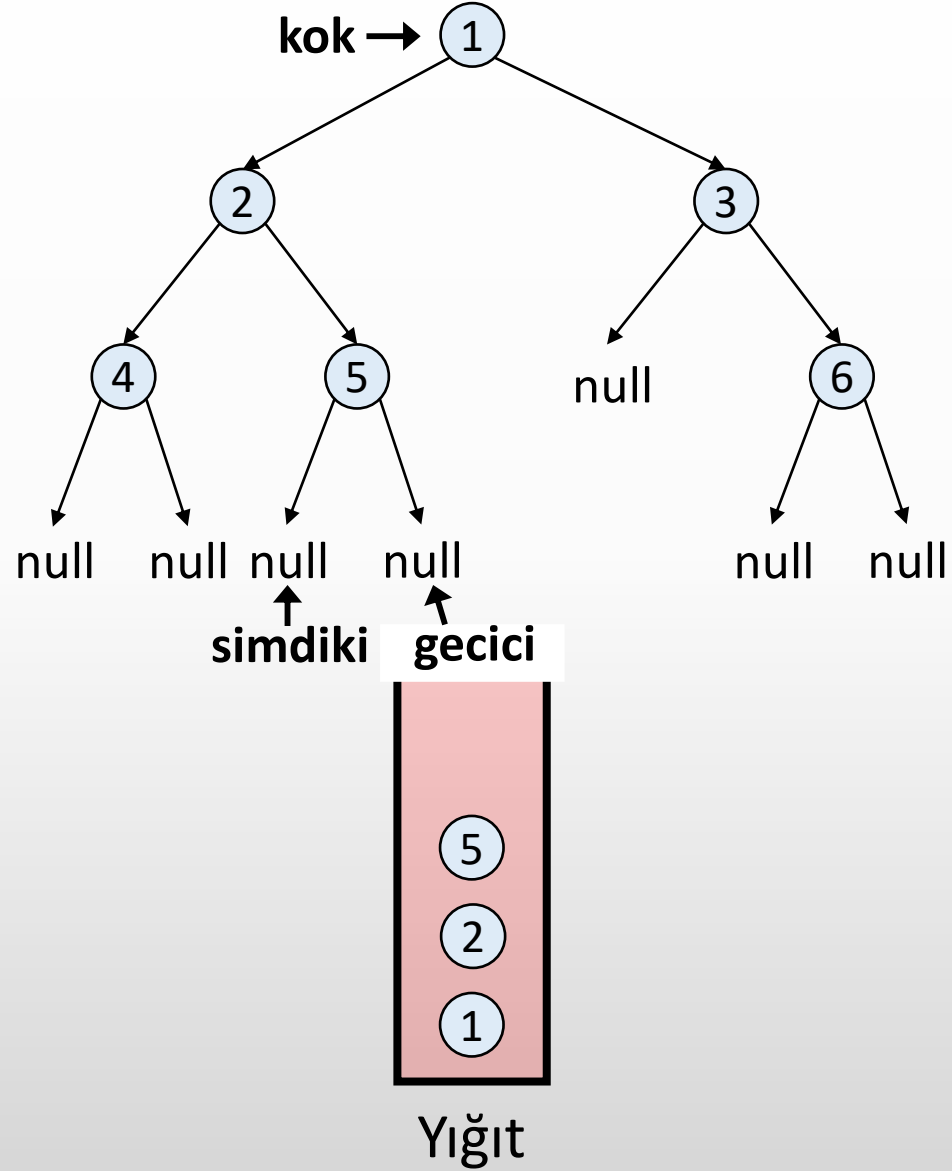
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        if(gecici == null) {
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



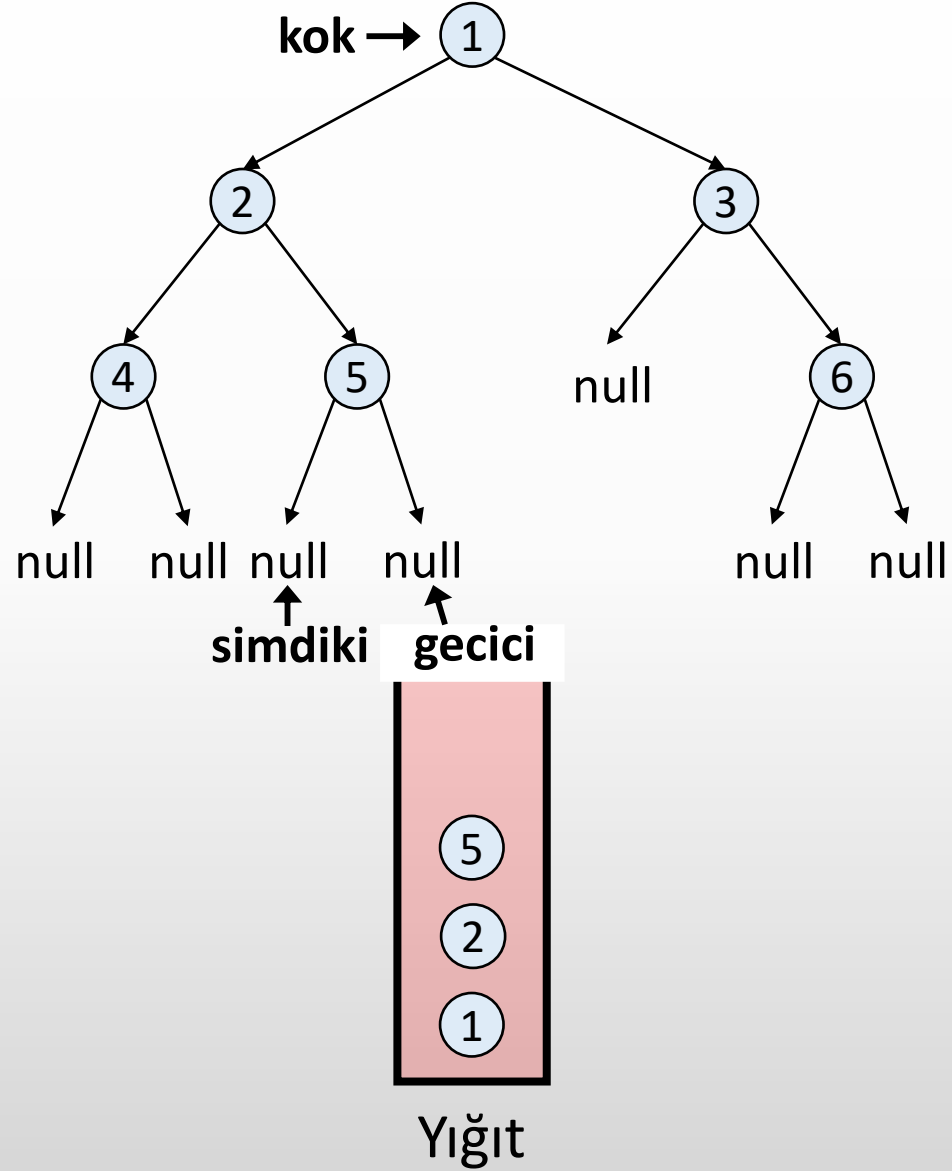
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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        simdiki = simdiki.sol;
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        if(gecici == null) {
            gecici = yigit.pop();
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



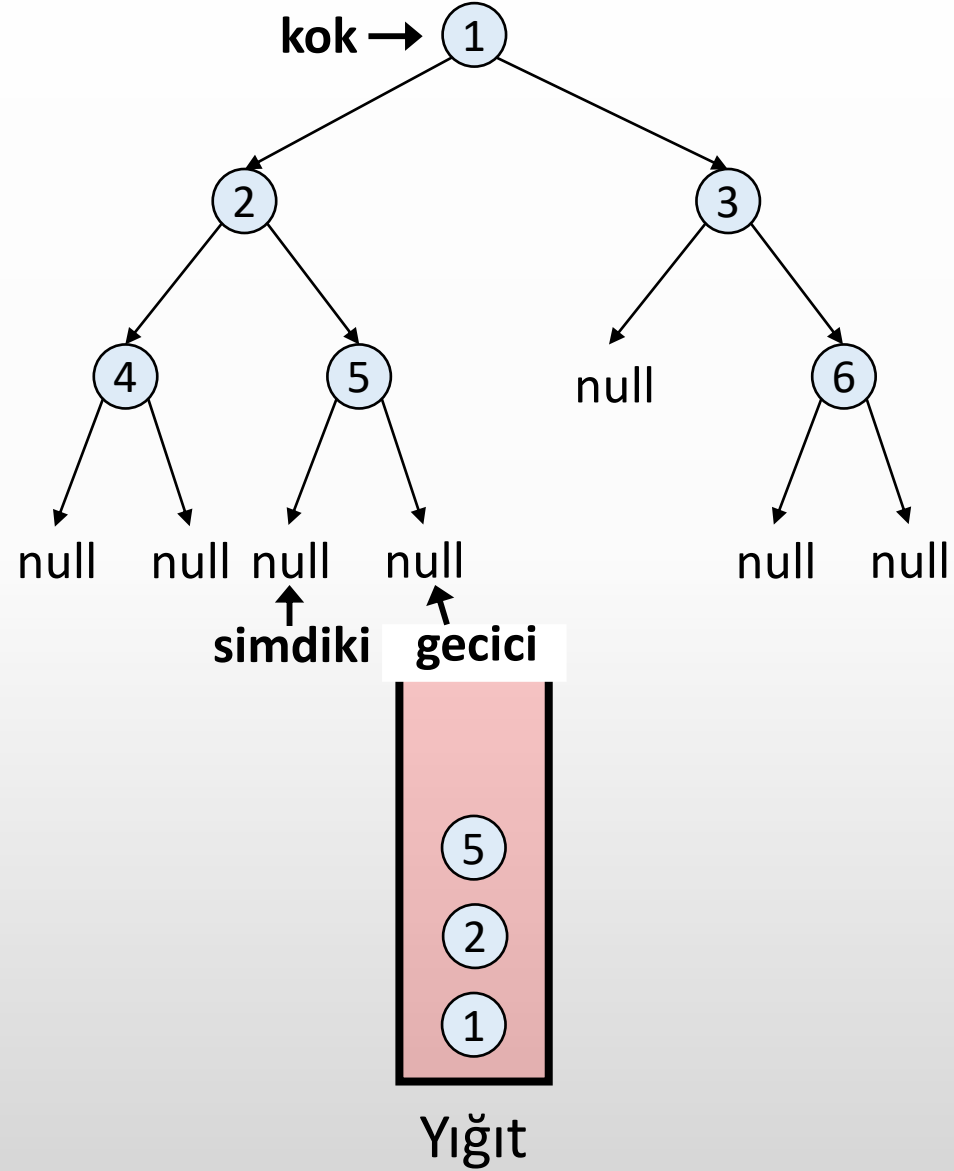
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



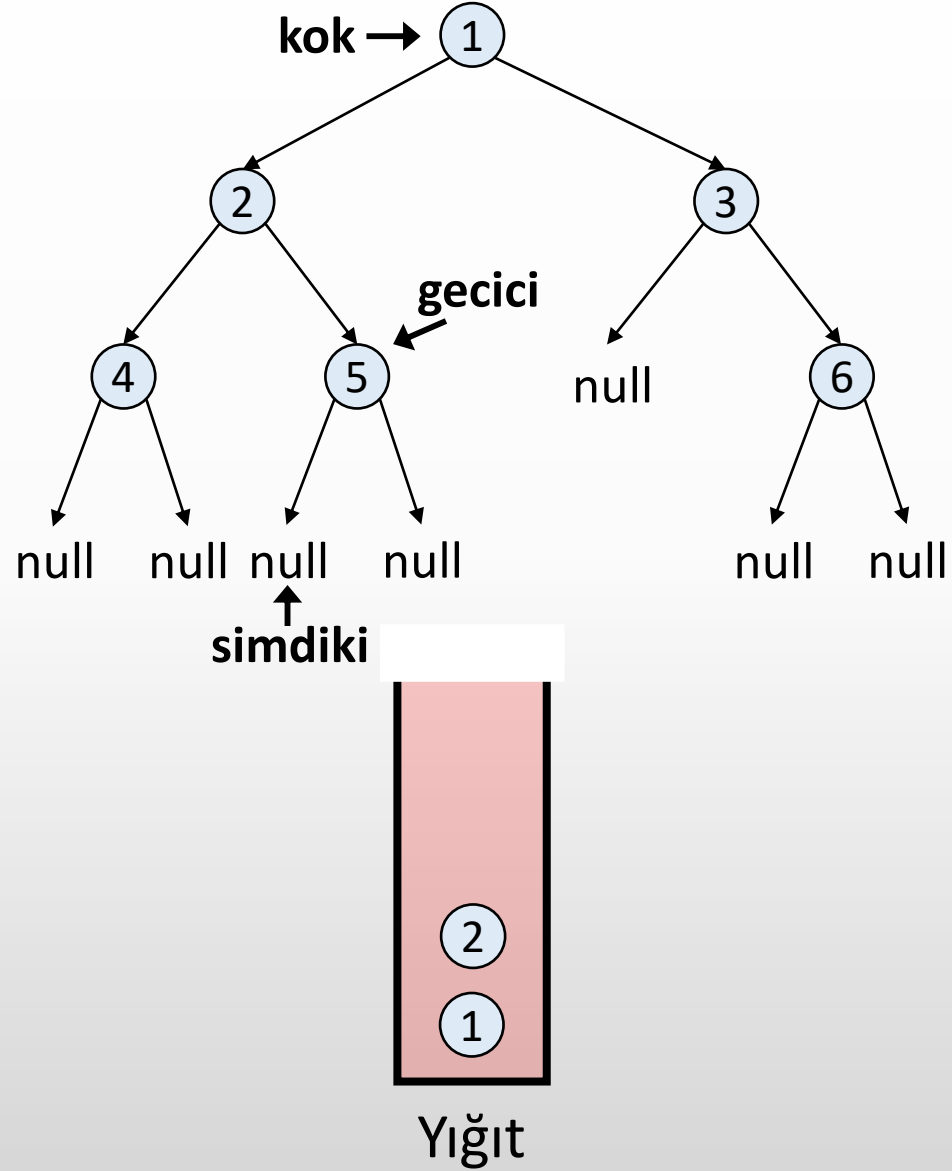
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

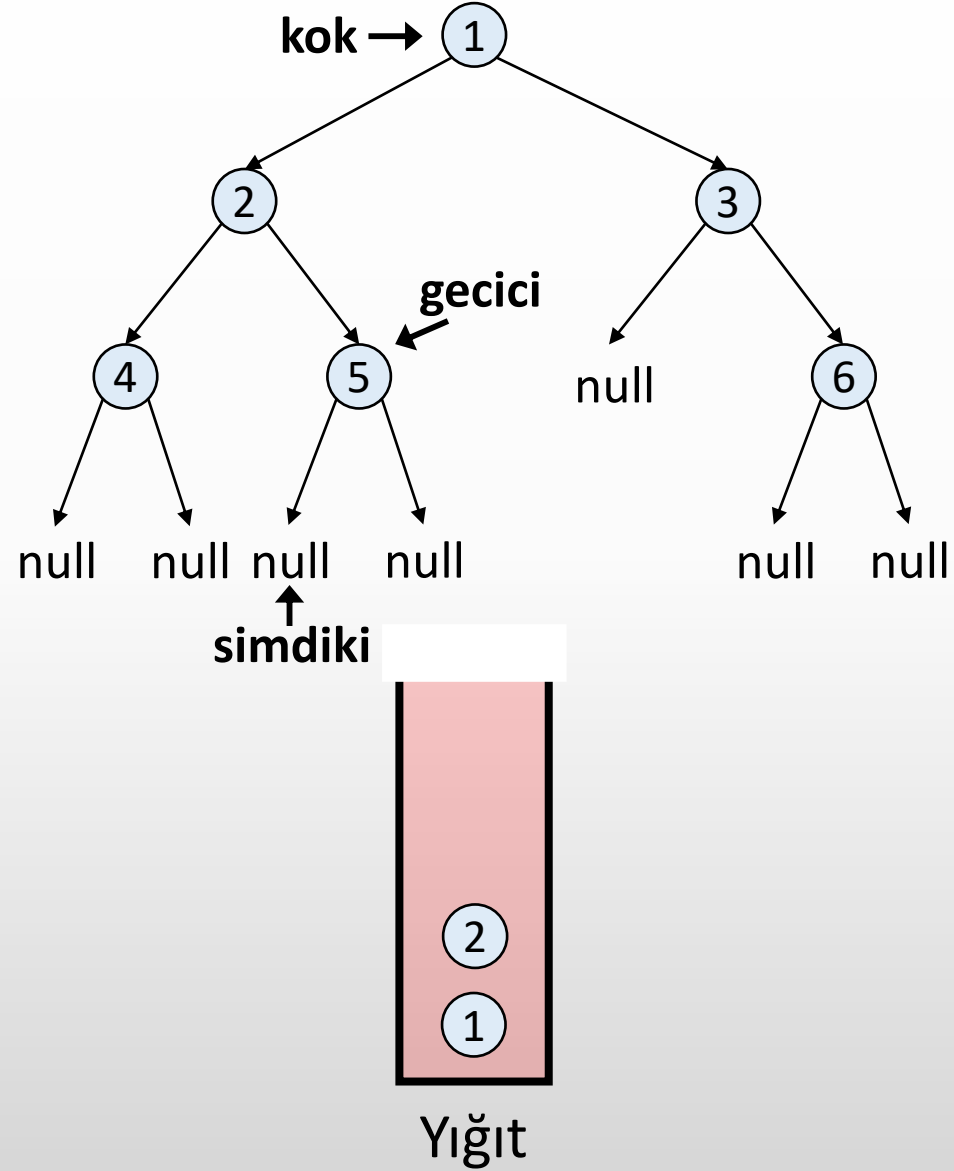
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
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        }
        else {
            simdiki = gecici;
        }
    }
}
```



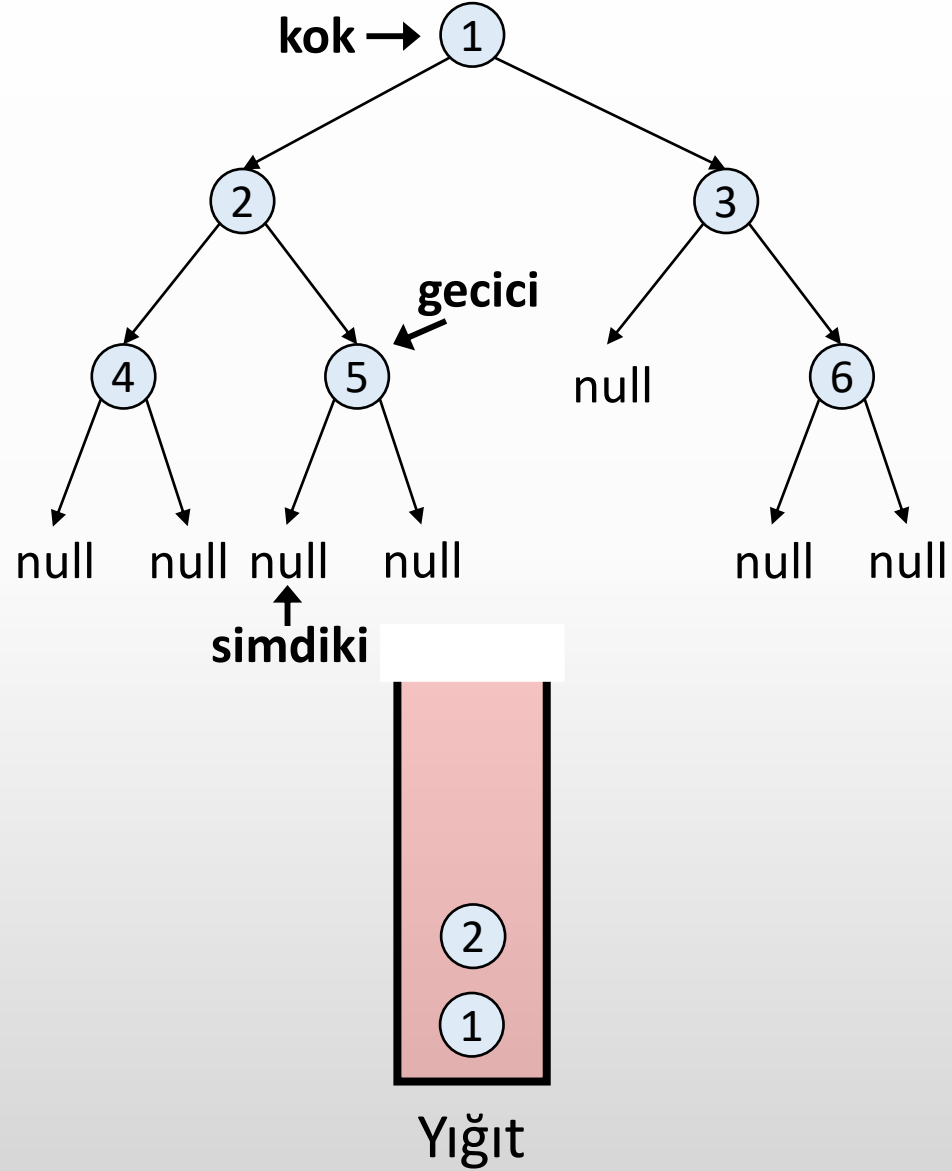
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
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            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



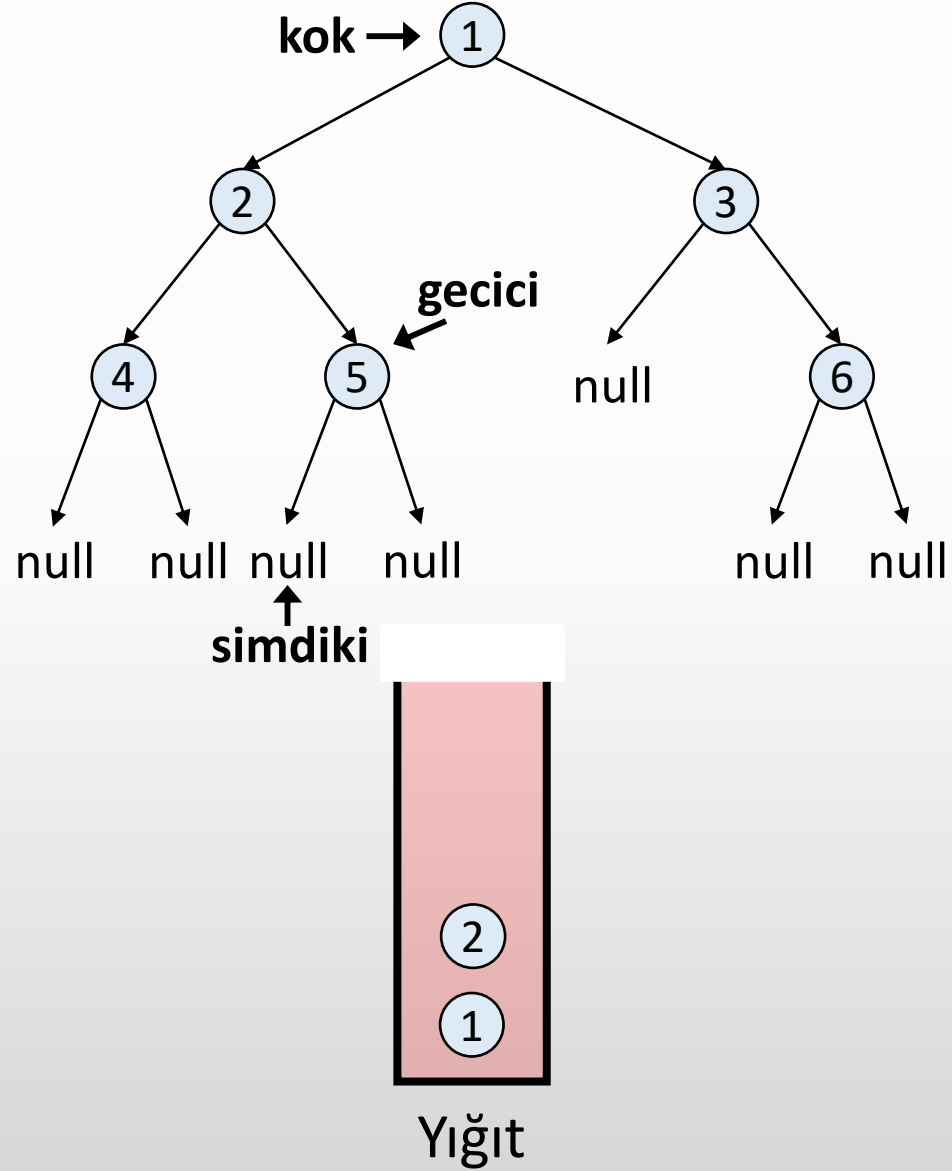
Çıktı: 4 5

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
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            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



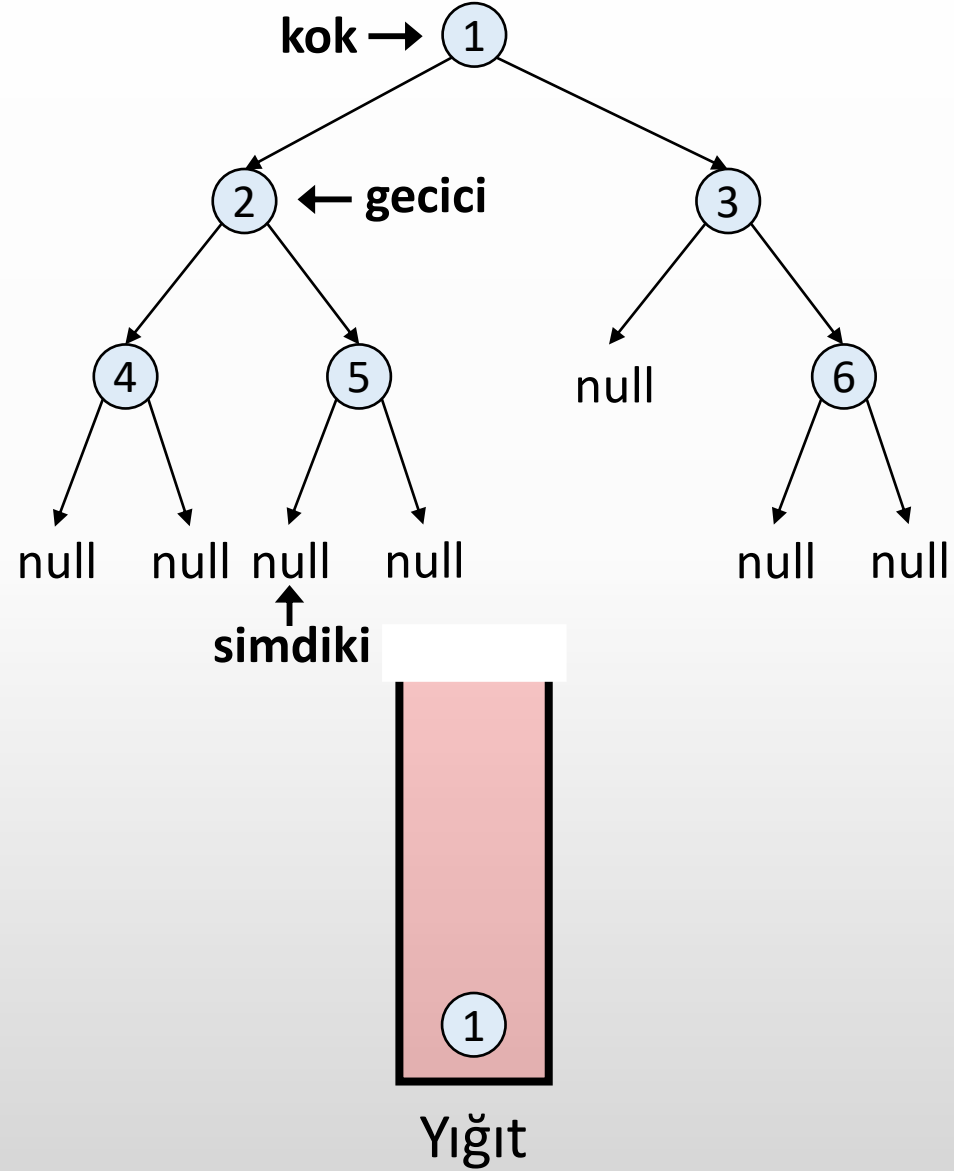
Çıktı: 4 5

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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        simdiki = simdiki.sol;
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        if(gecici == null) {
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            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
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        }
        else {
            simdiki = gecici;
        }
    }
}
```



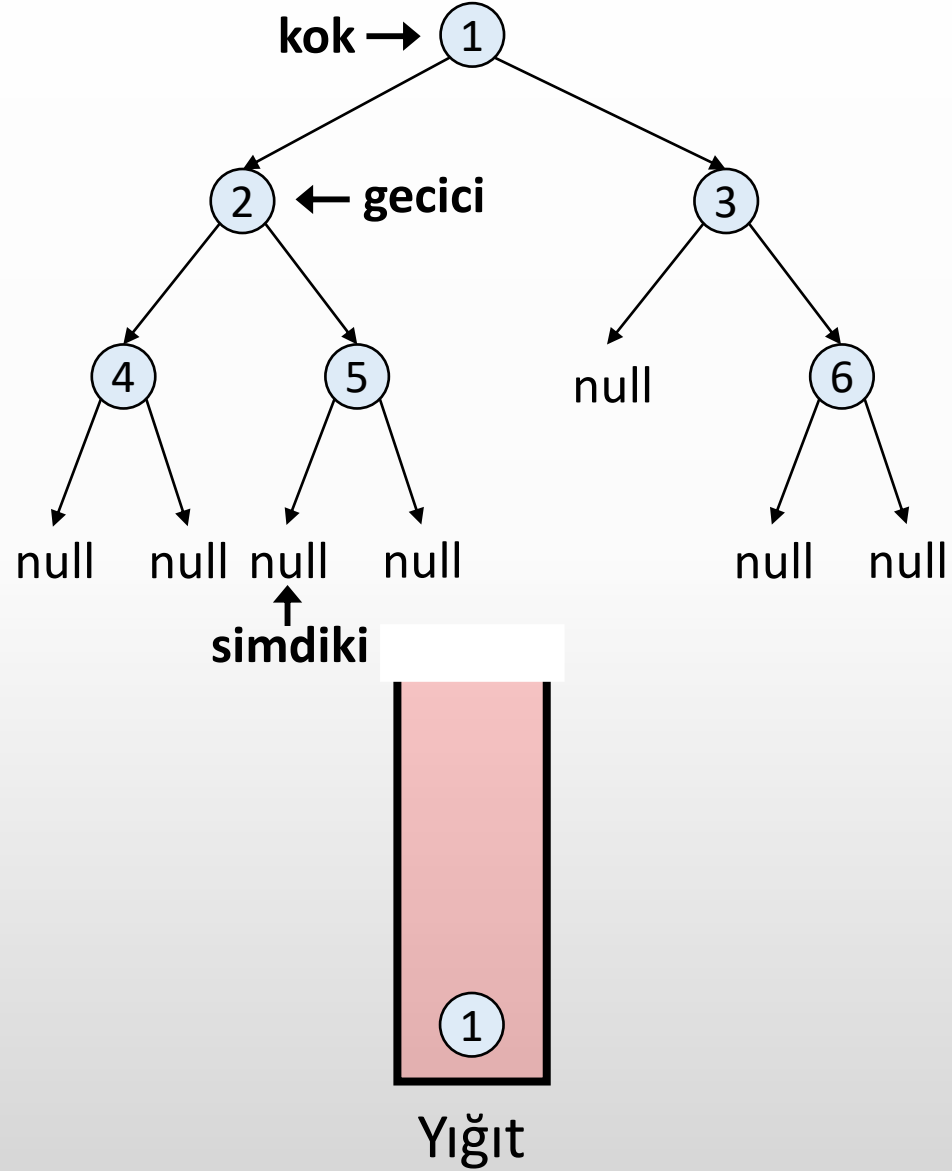
Çıktı: 4 5

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



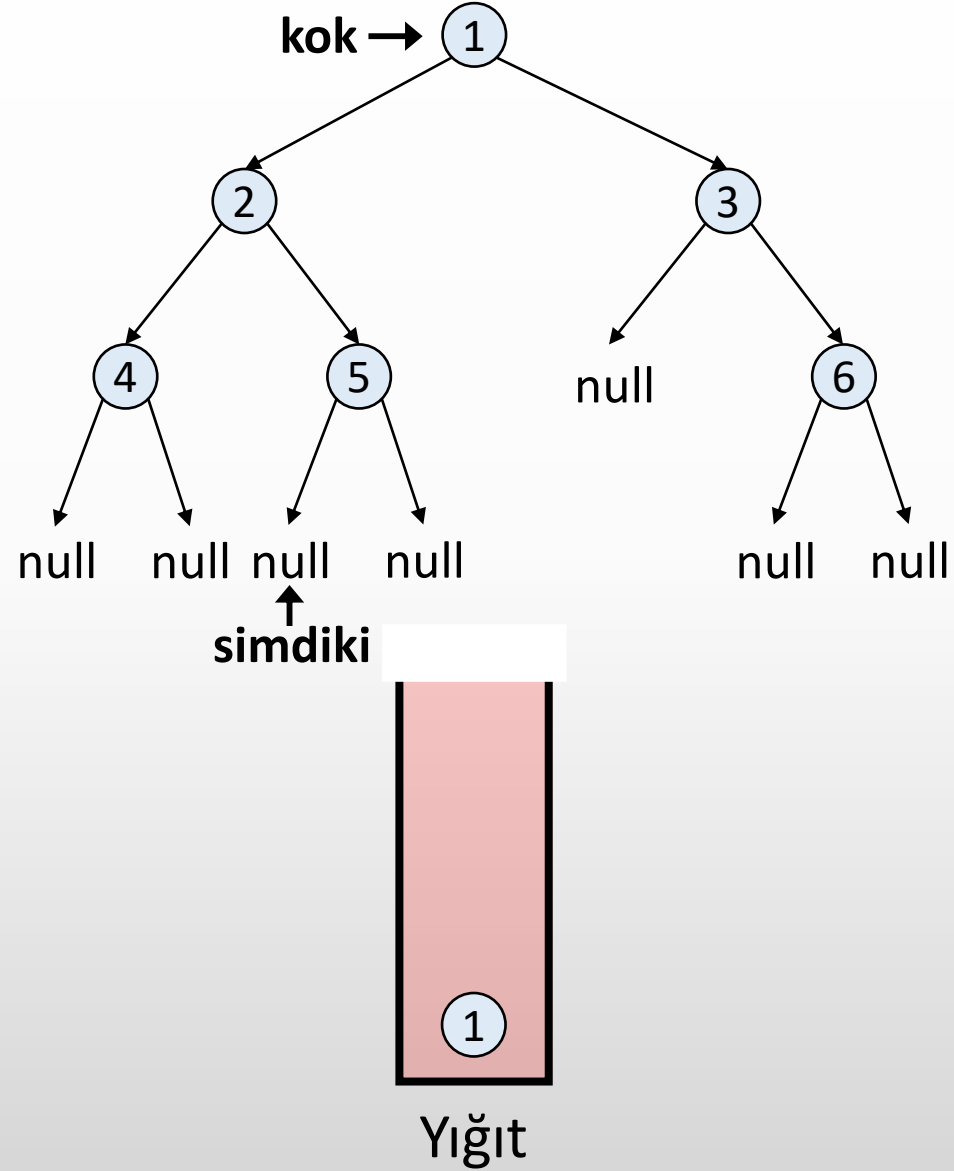
Çıktı: 4 5

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



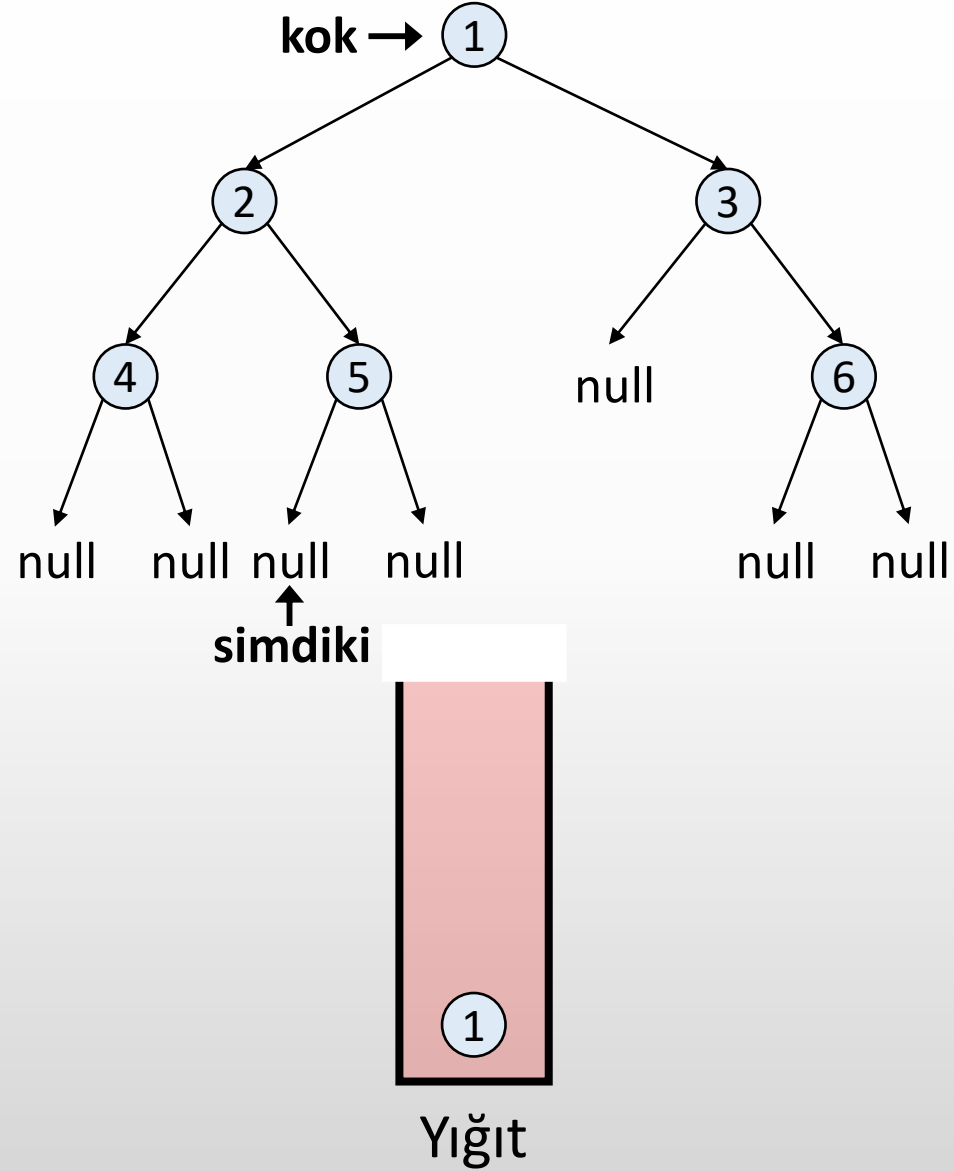
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
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        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



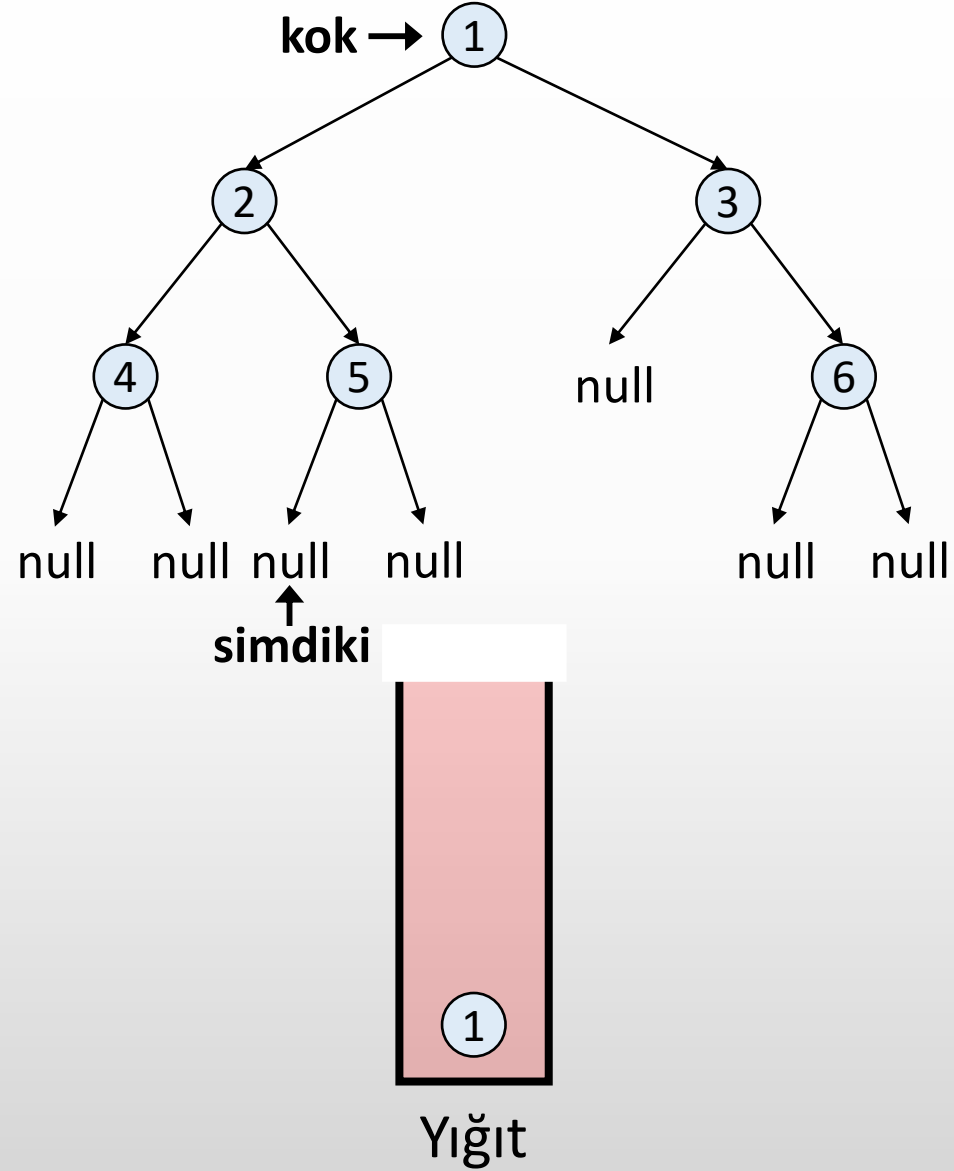
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
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→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

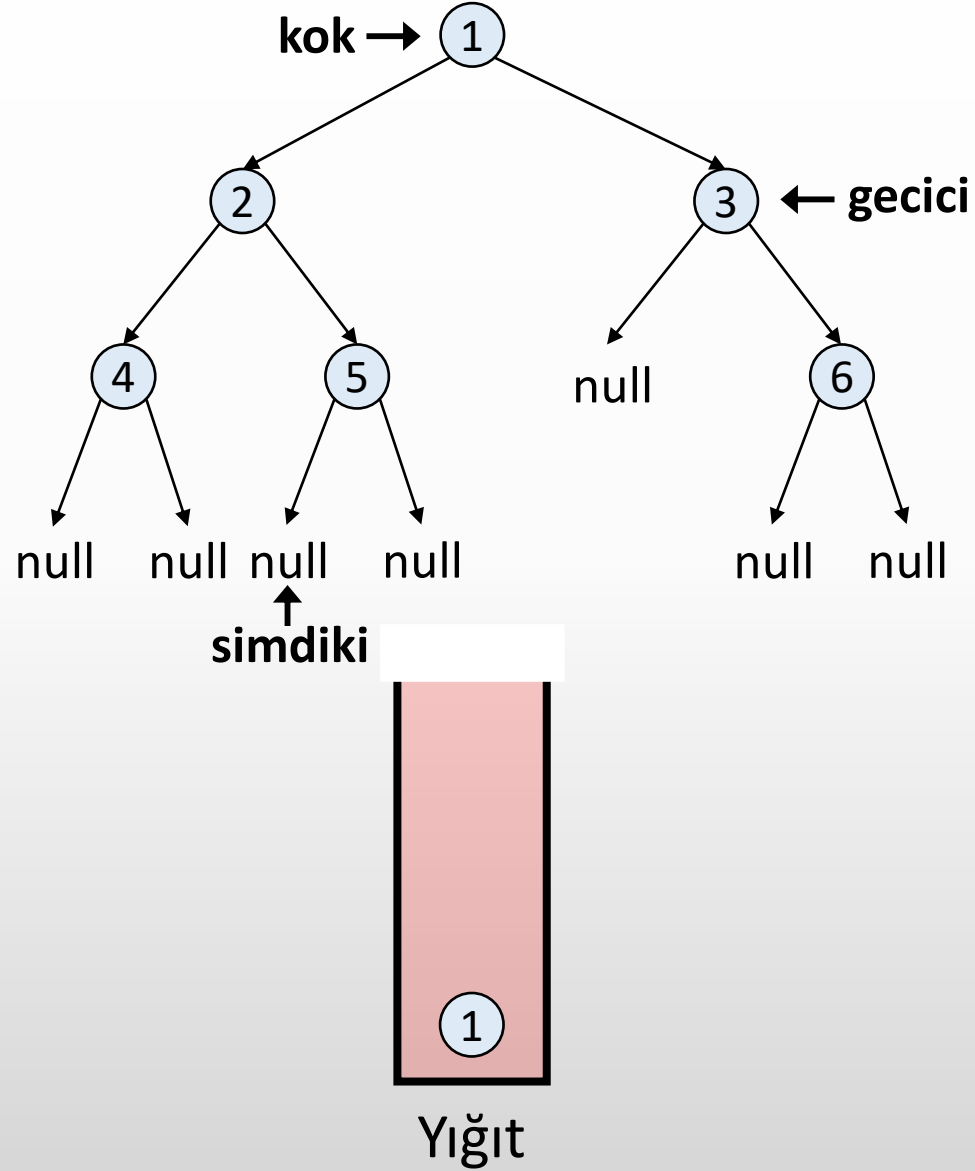
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



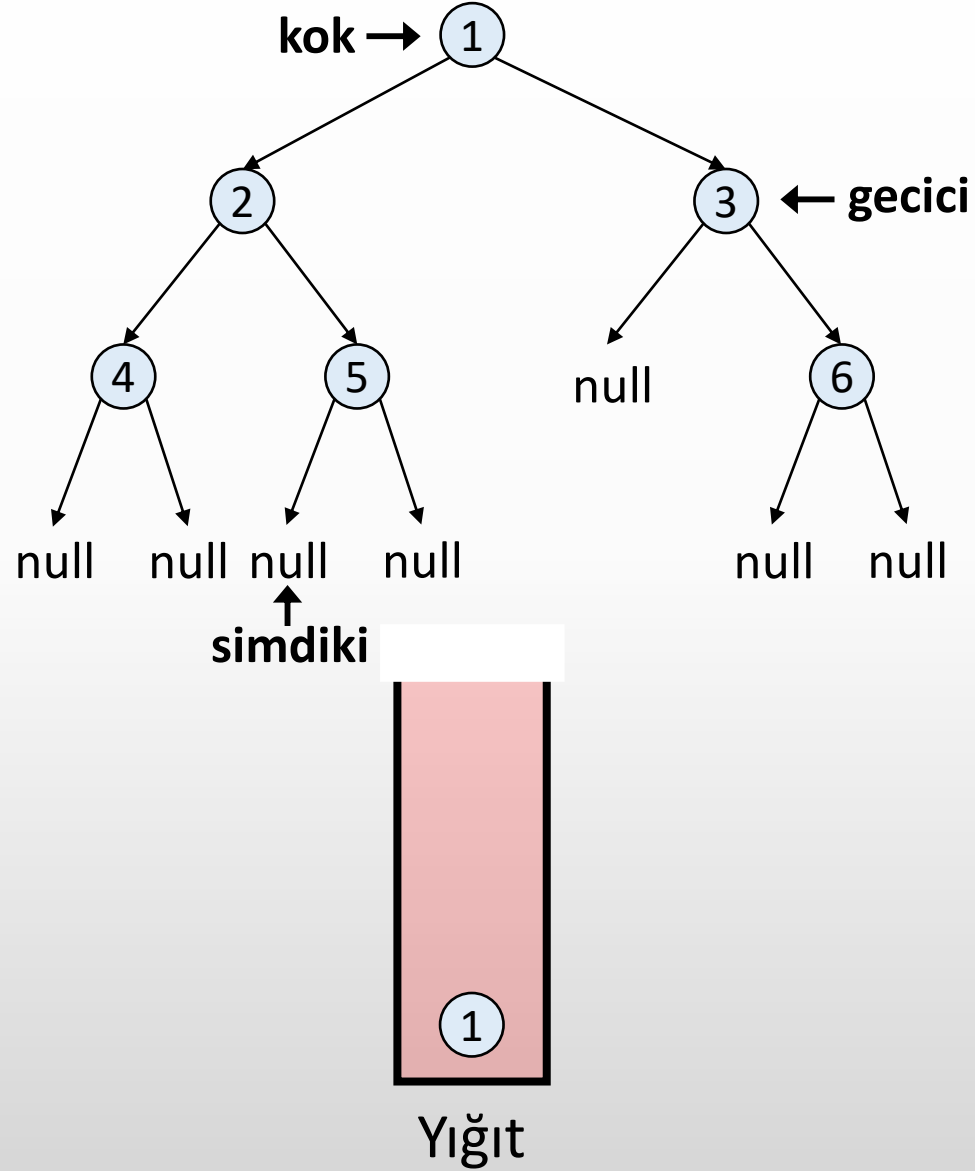
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



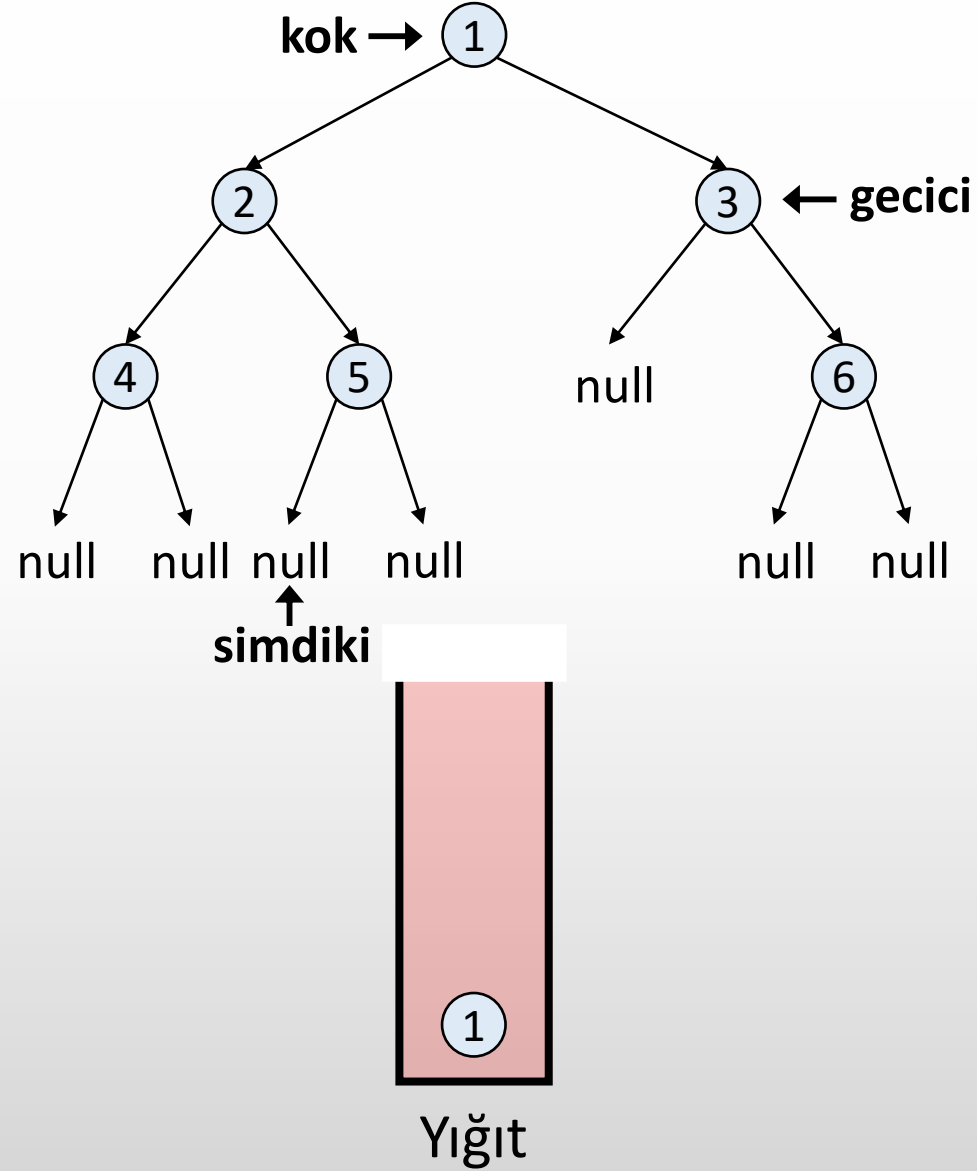
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



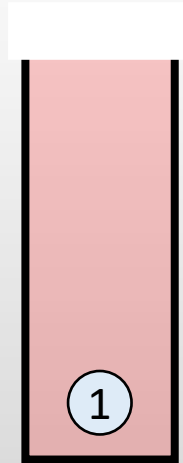
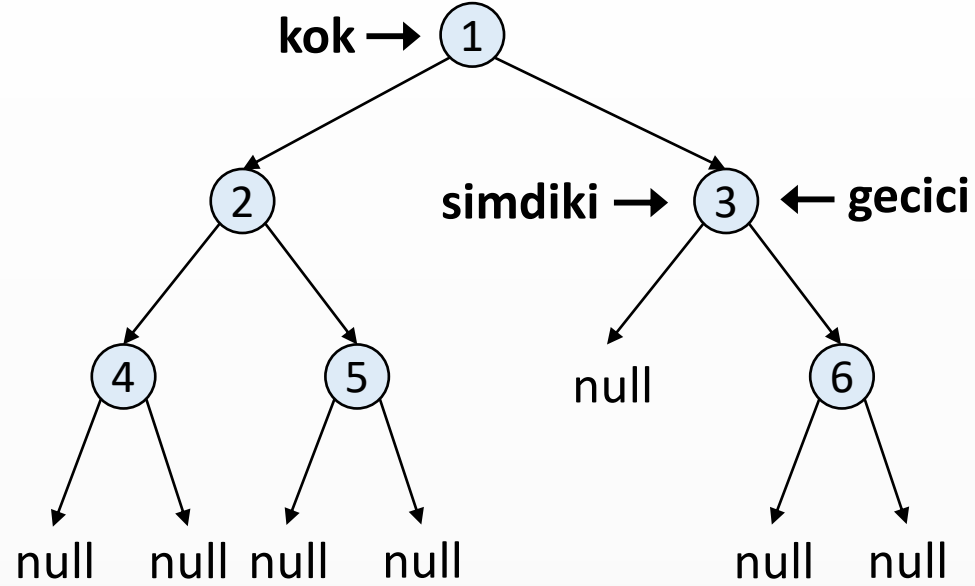
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı: 4 5 2

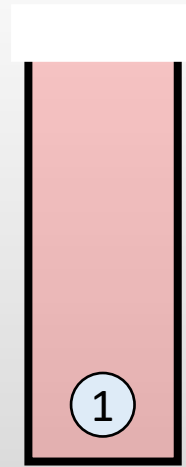
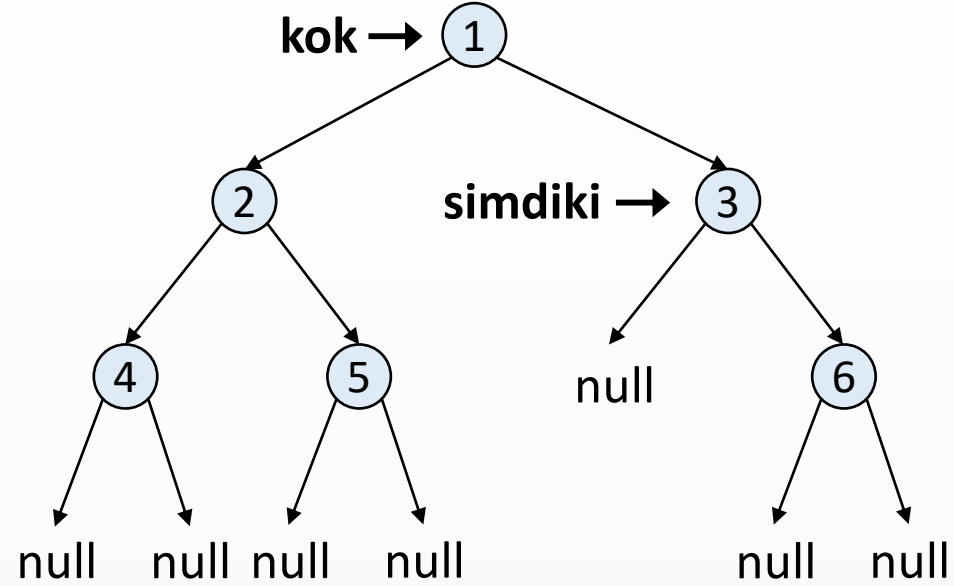
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

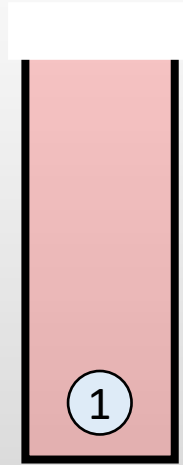
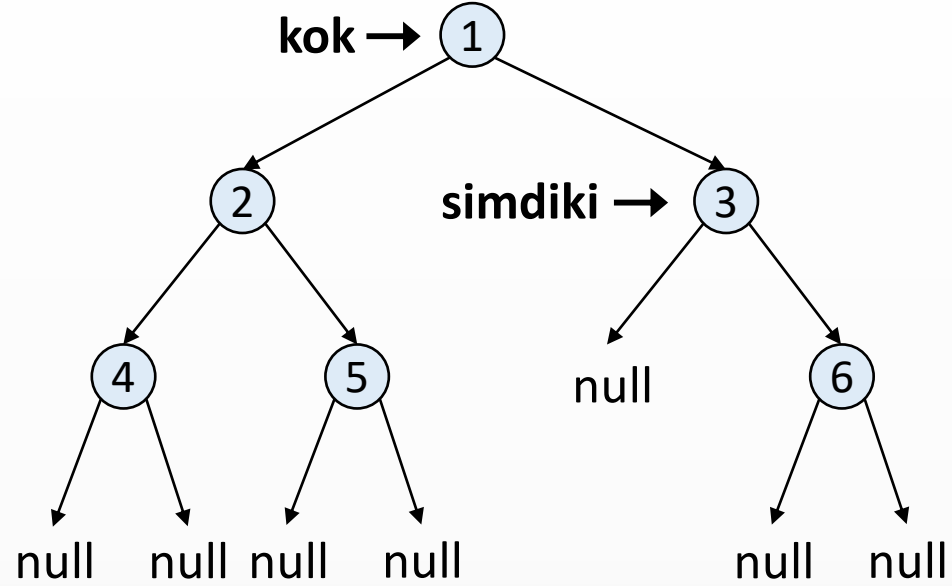
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        AgacDugumu gecici = yigit.peek().sag;
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            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı: 4 5 2

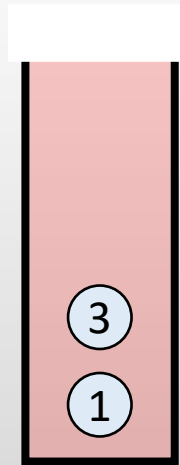
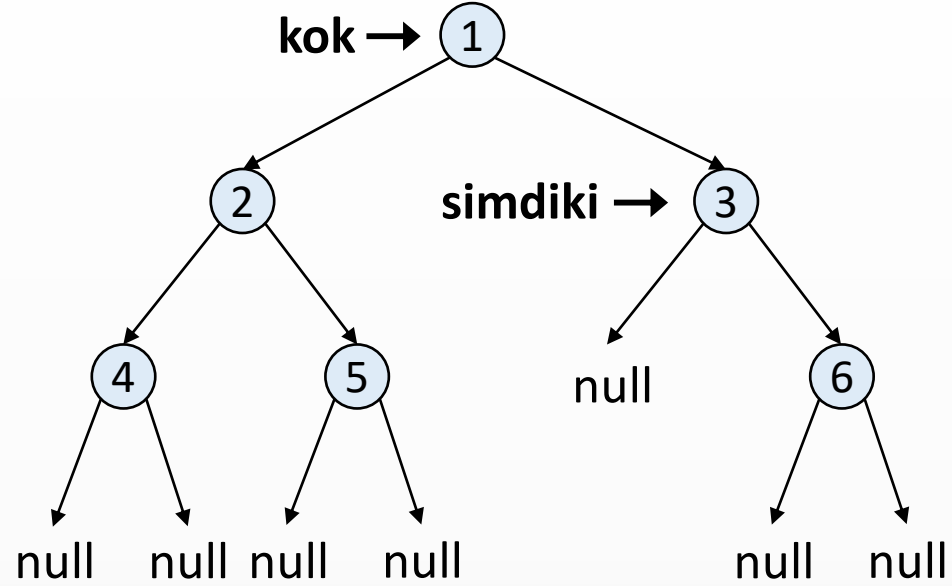
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı: 4 5 2

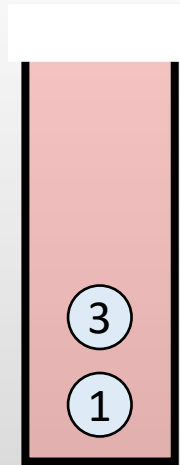
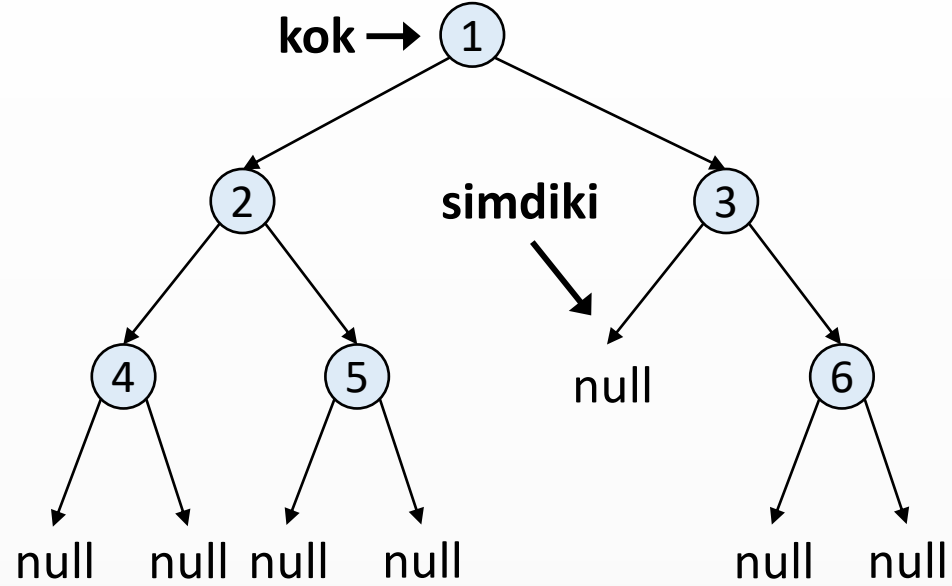
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

Yığıt

Çıktı: 4 5 2

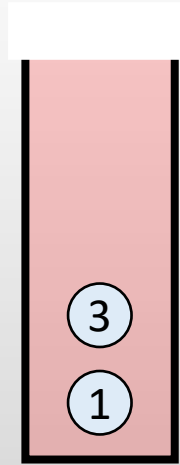
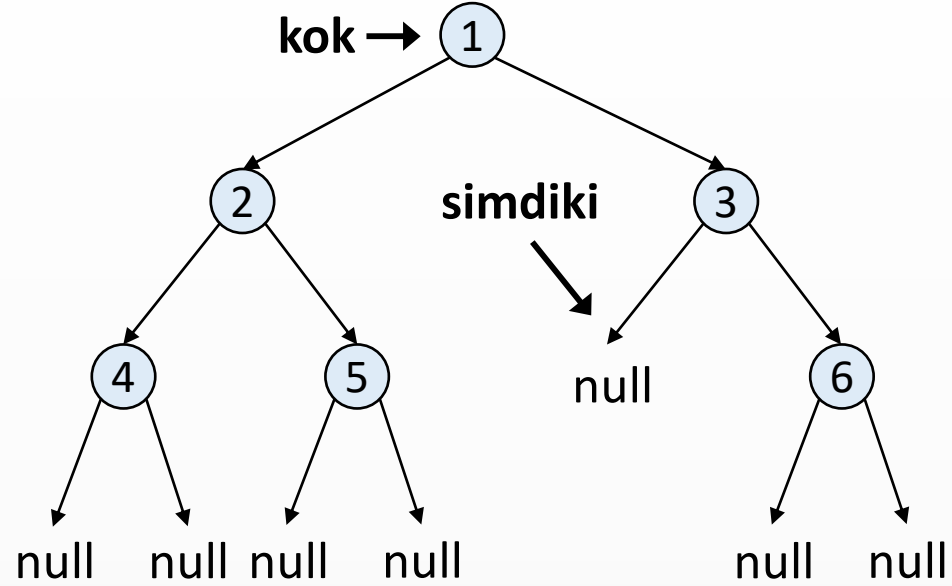
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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        AgacDugumu gecici = yigit.peek().sag;
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            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı: 4 5 2

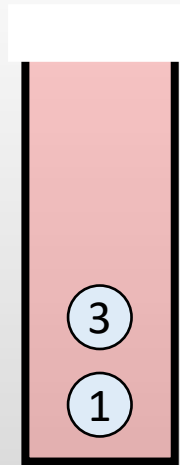
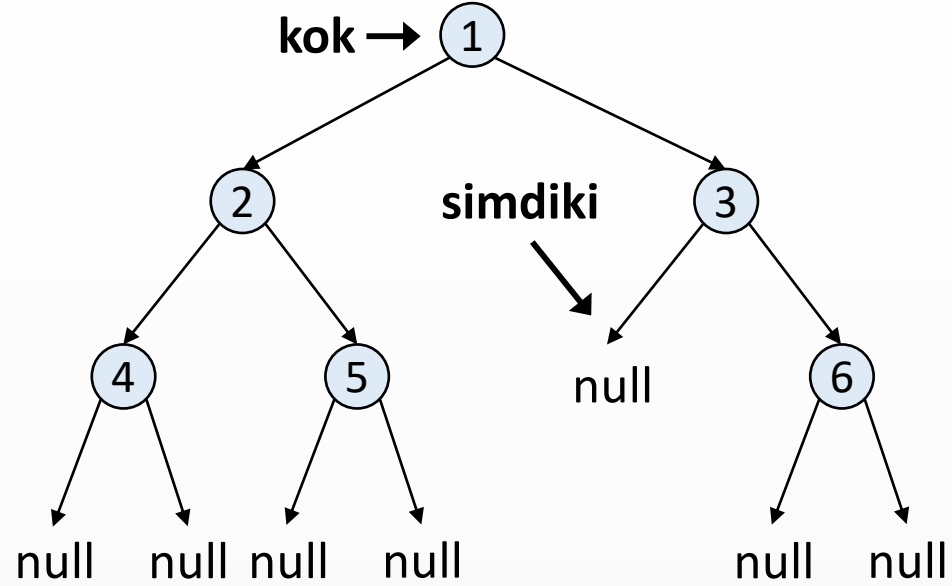
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AgacDugumu simdiki = kok;
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Yığıt

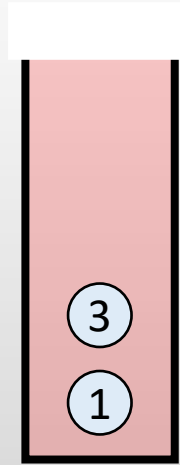
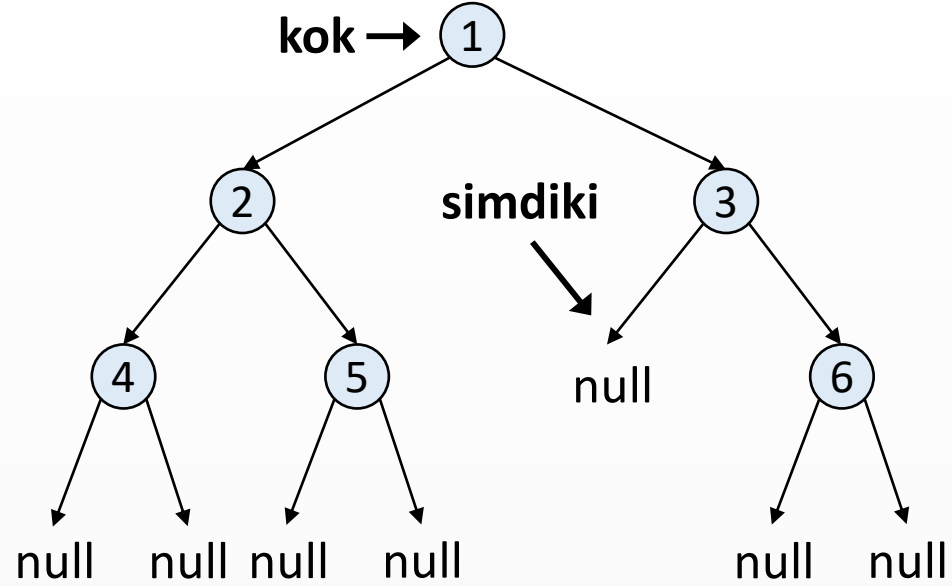
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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Çıktı: 4 5 2

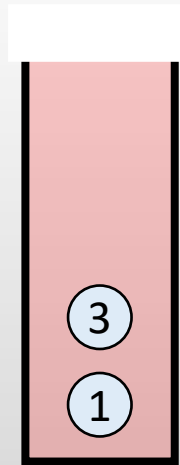
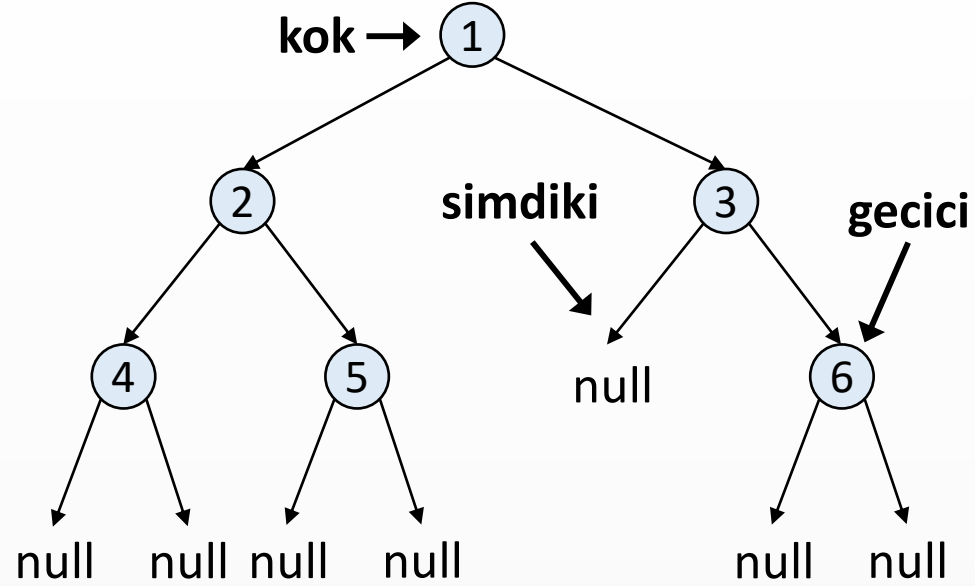
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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```



Yığıt

Çıktı: 4 5 2

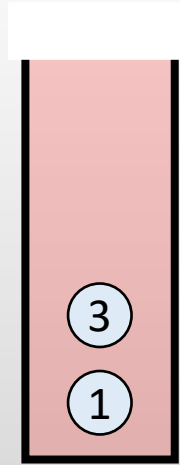
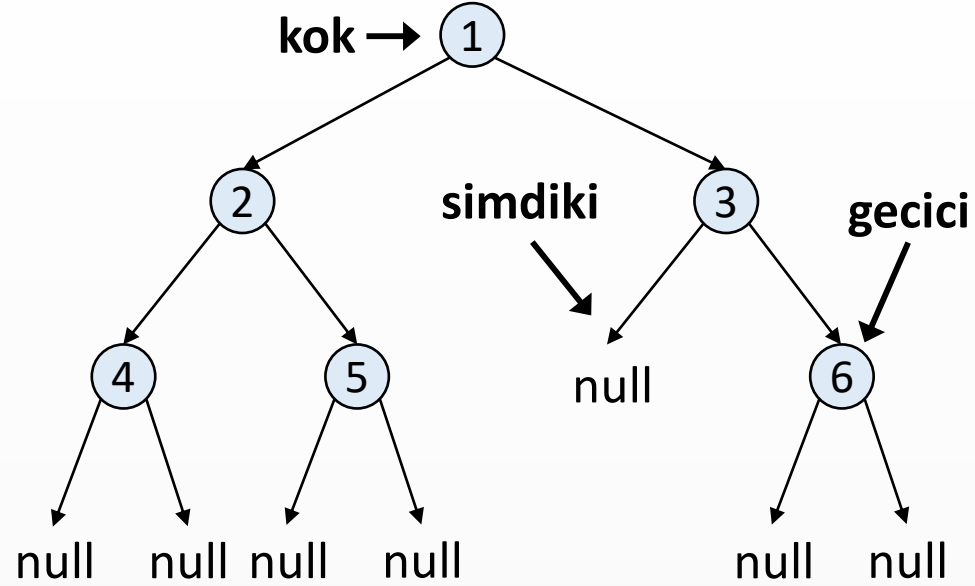
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Yığıt

Çıktı: 4 5 2

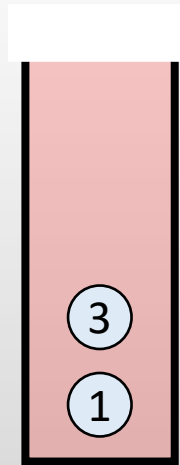
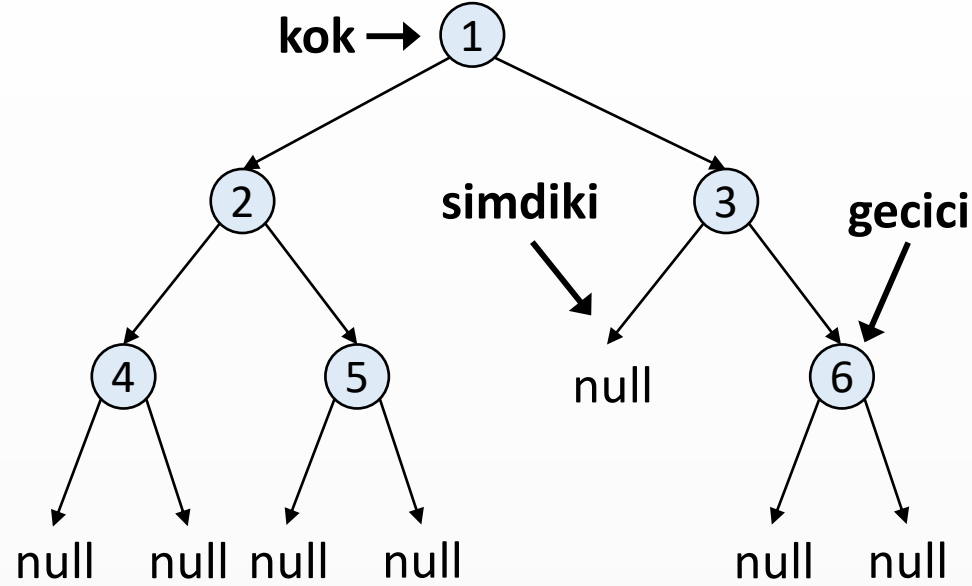
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
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            simdiki = gecici;
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```



Yığıt

Çıktı: 4 5 2

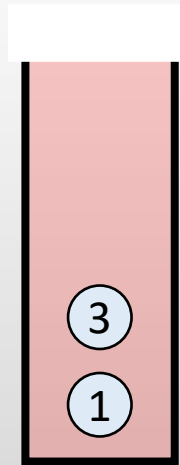
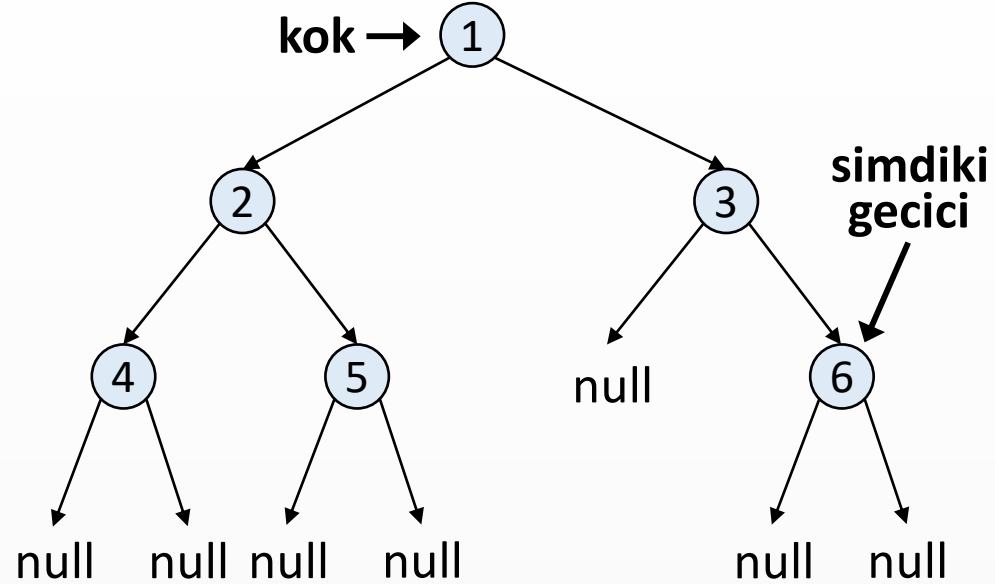
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı: 4 5 2

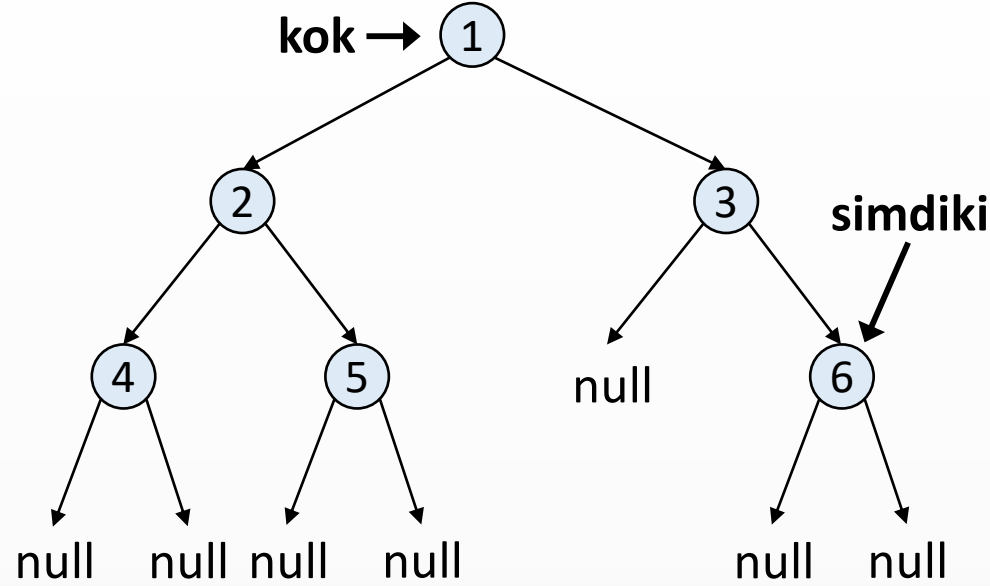
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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```

Yığıt

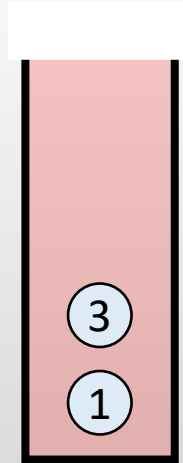
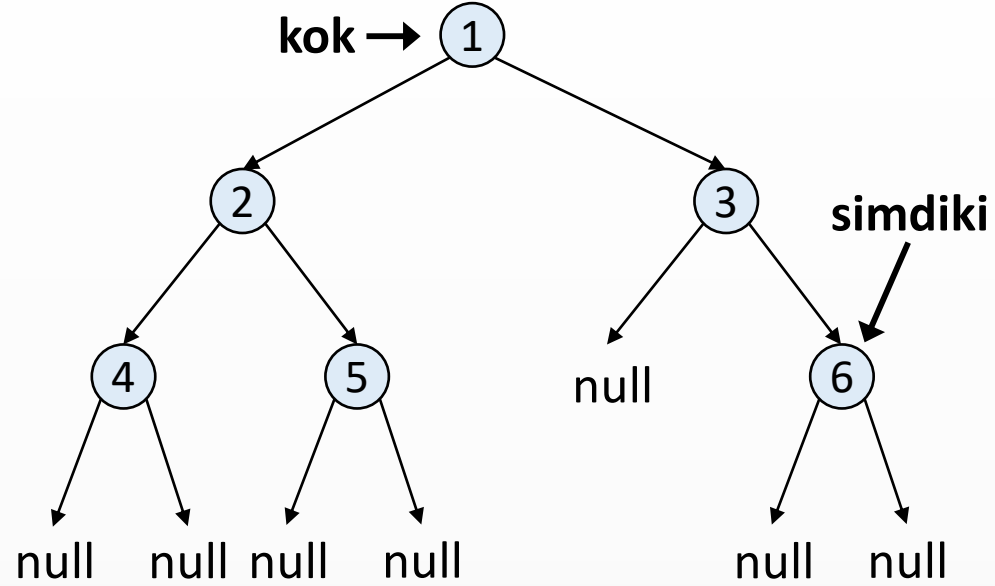
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı: 4 5 2

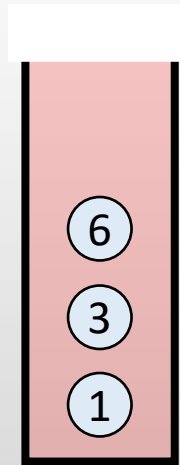
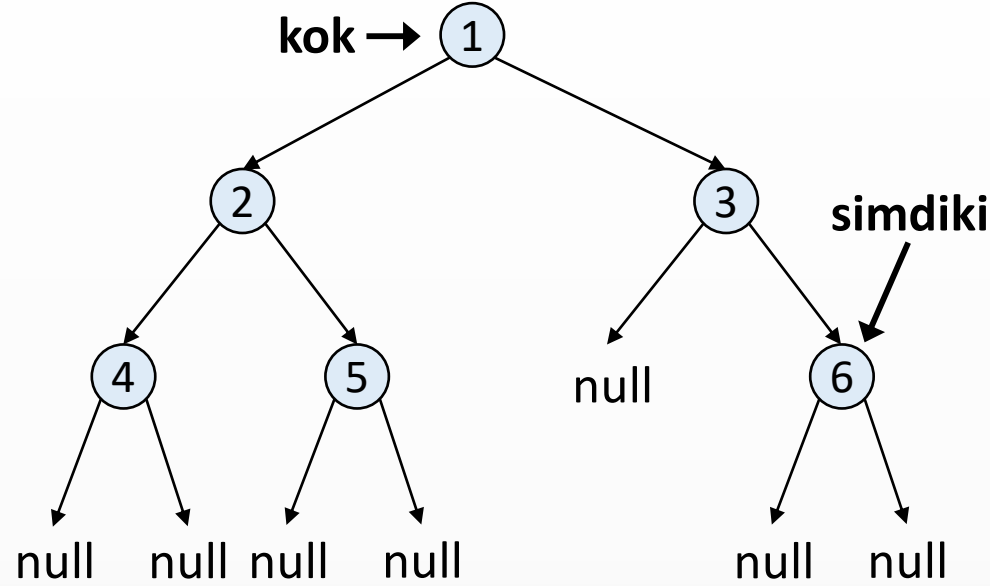
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

Çıktı: 4 5 2

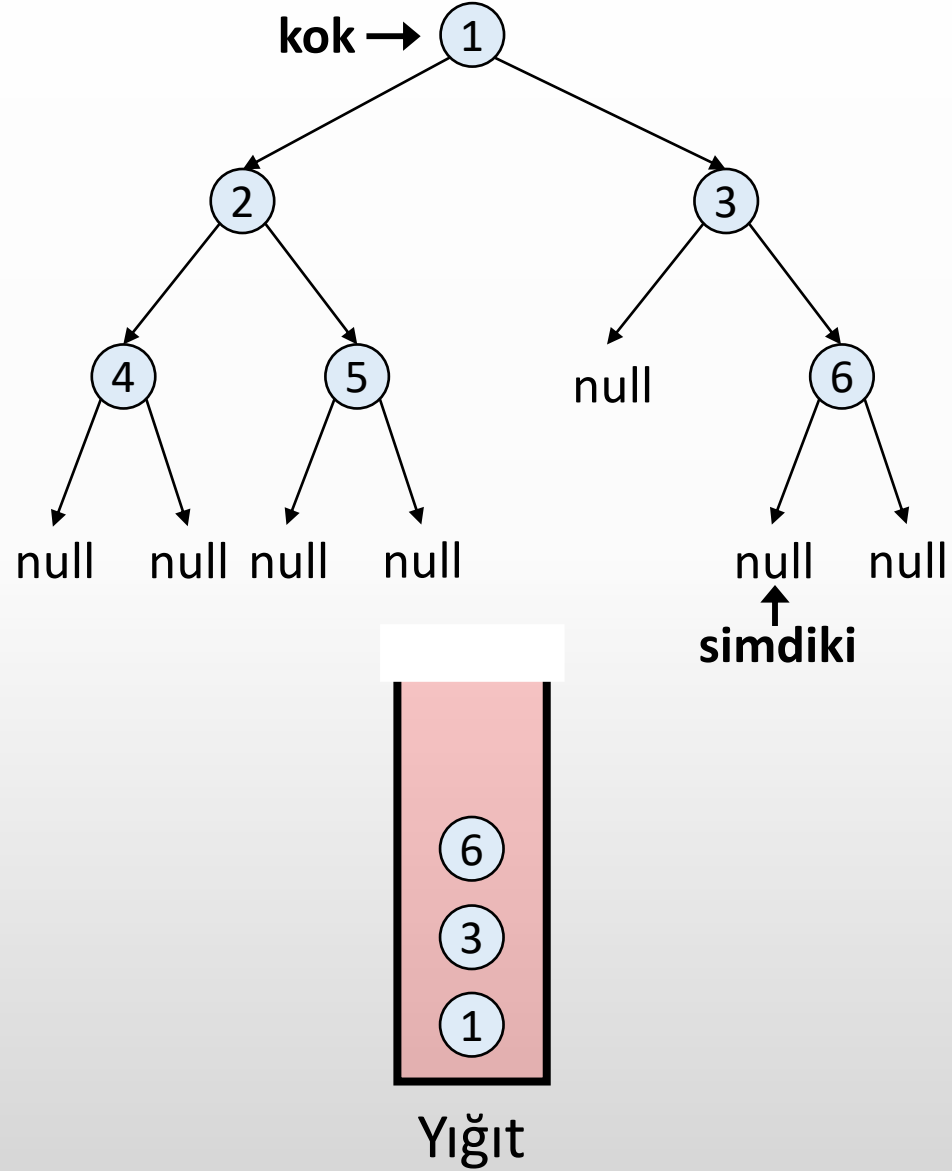
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Yığıt

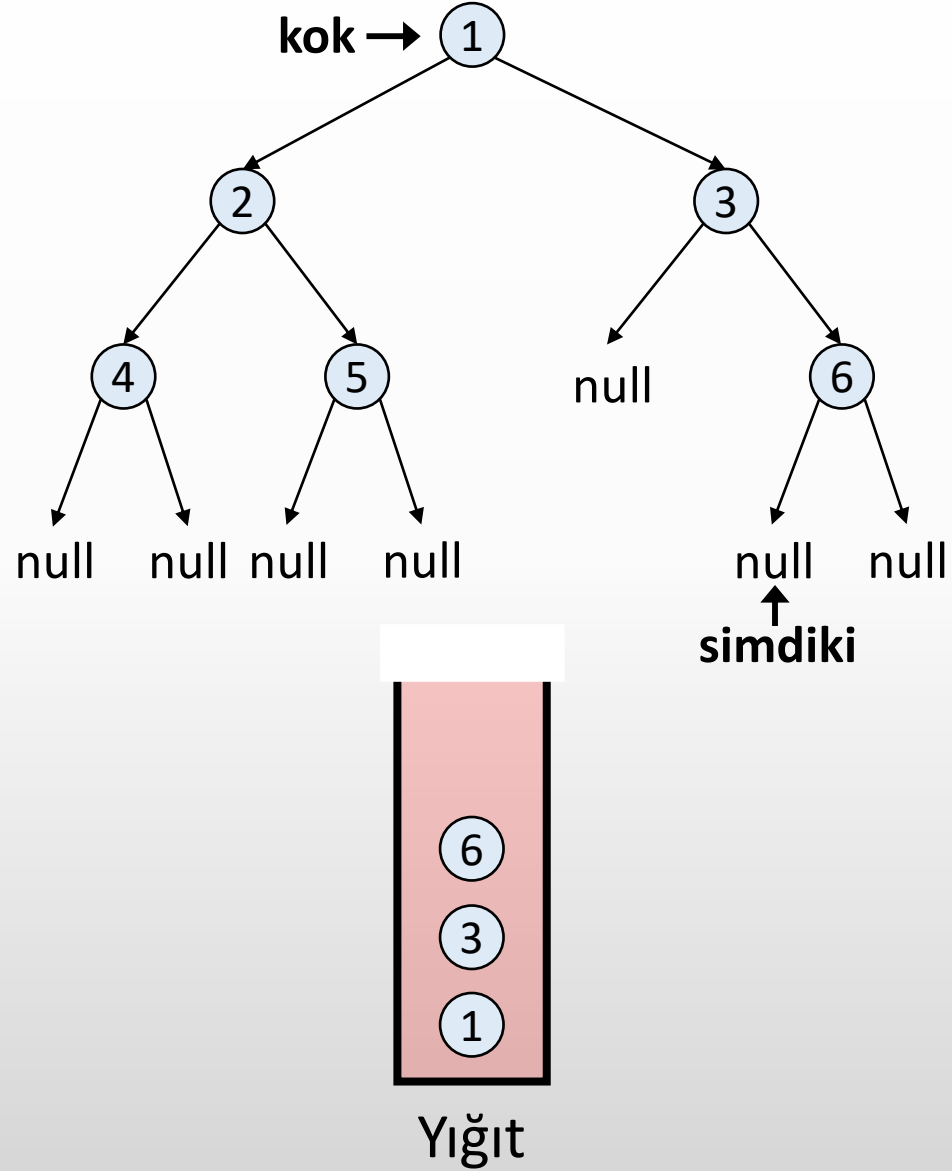
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



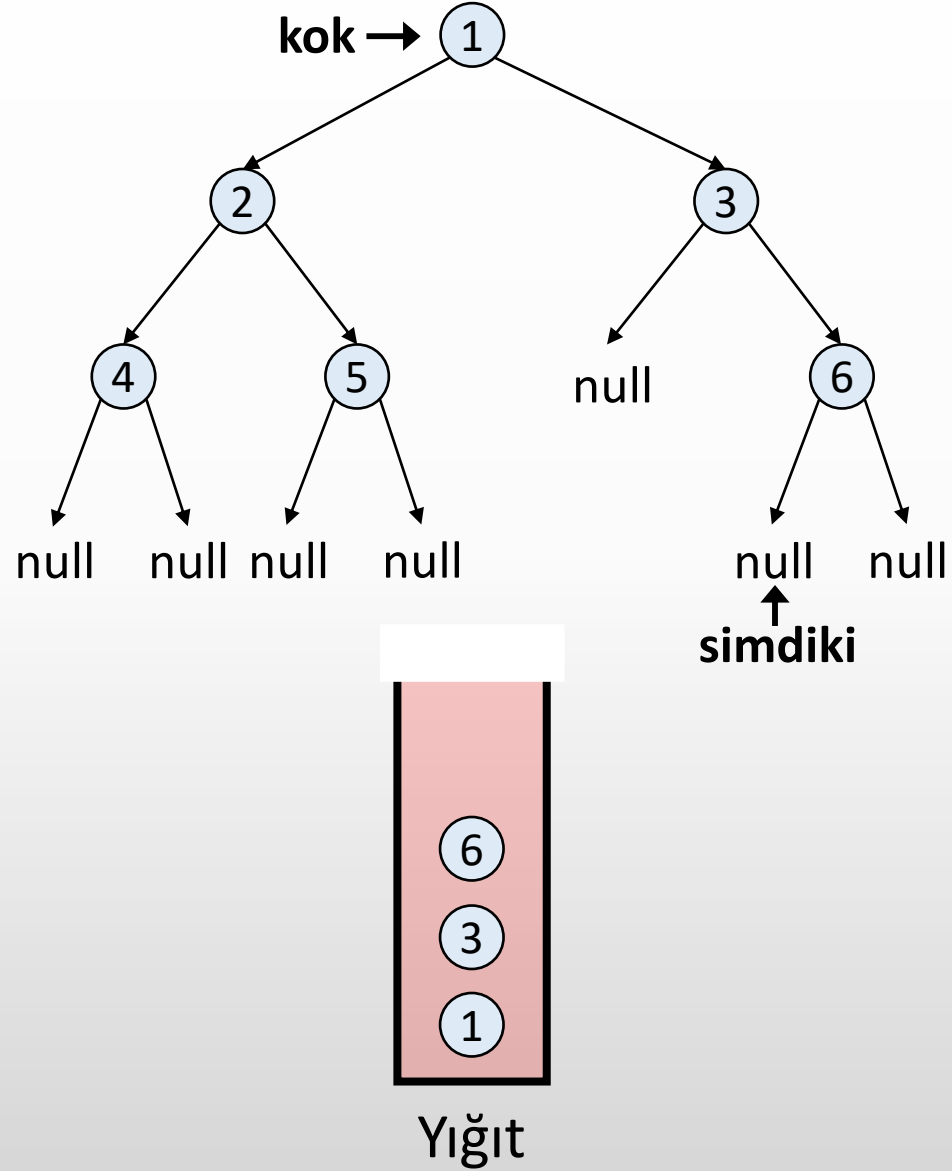
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



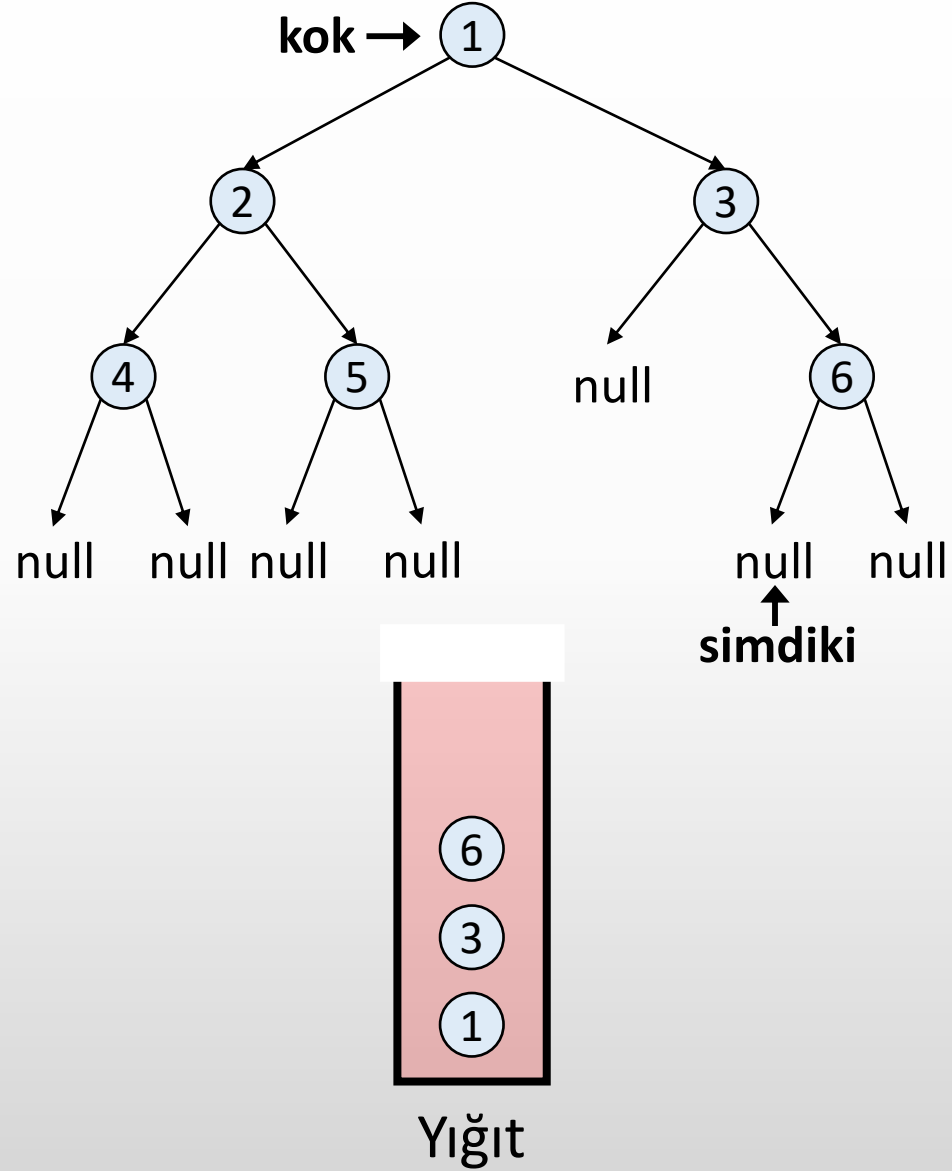
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



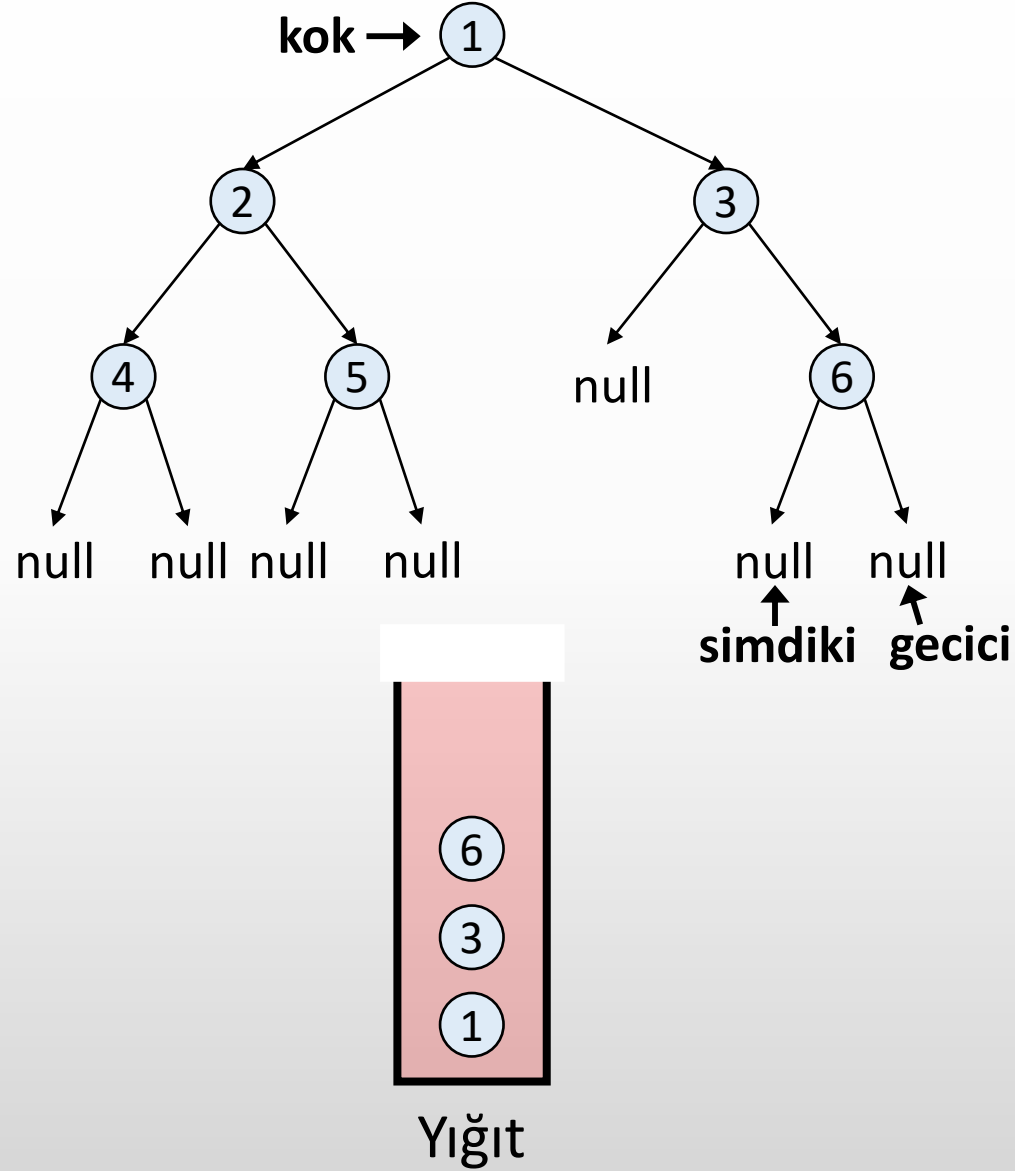
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



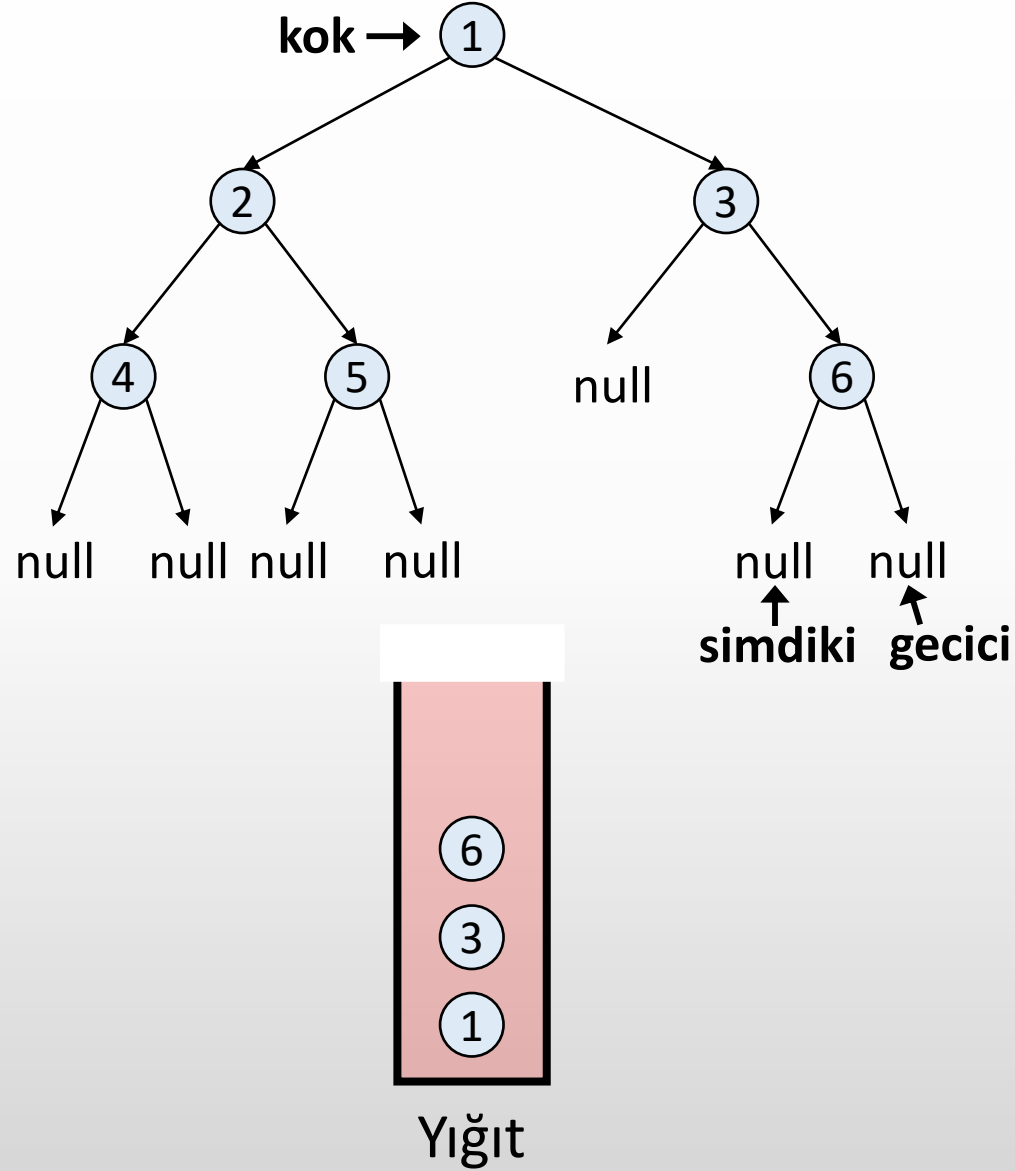
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

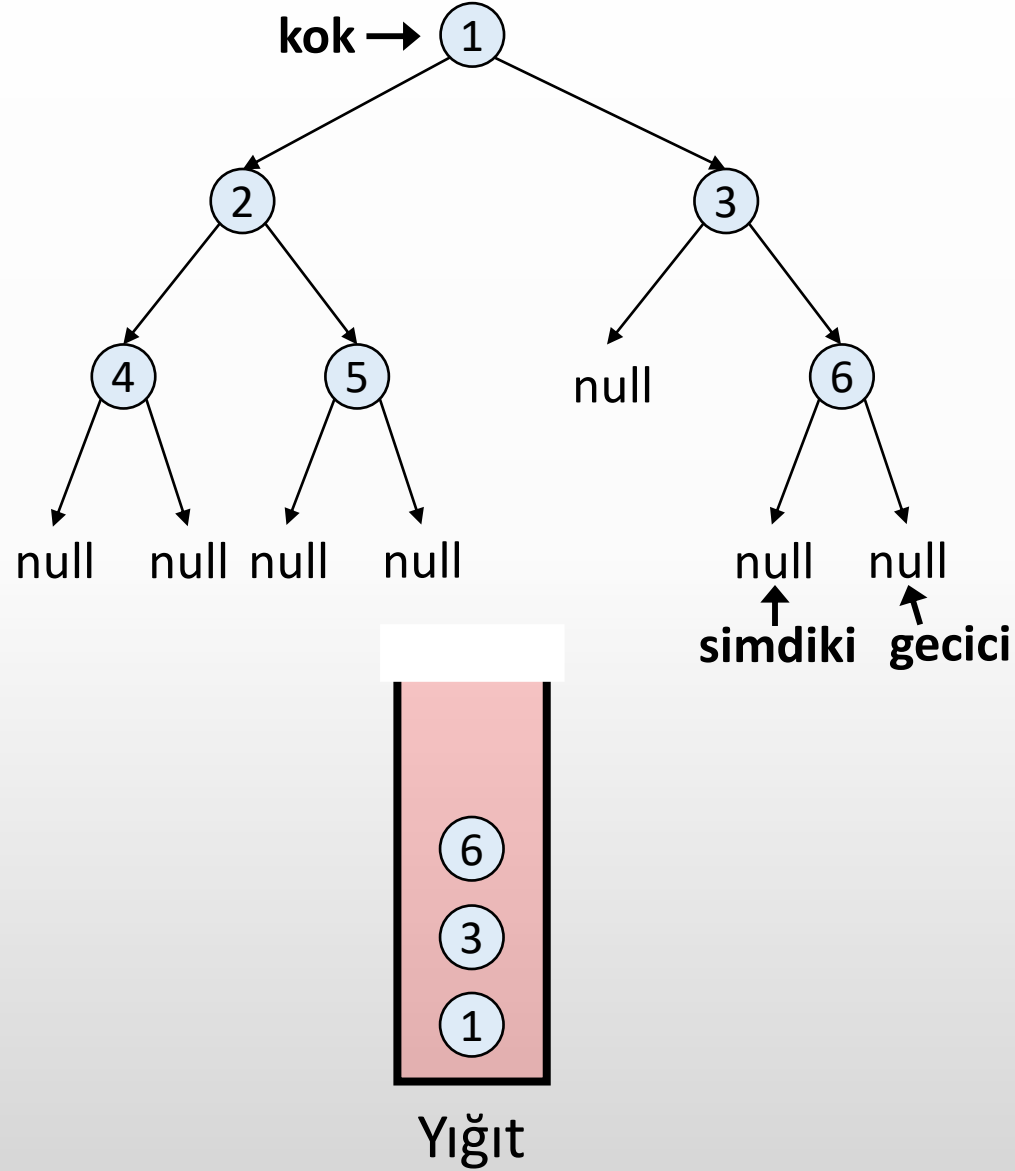
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



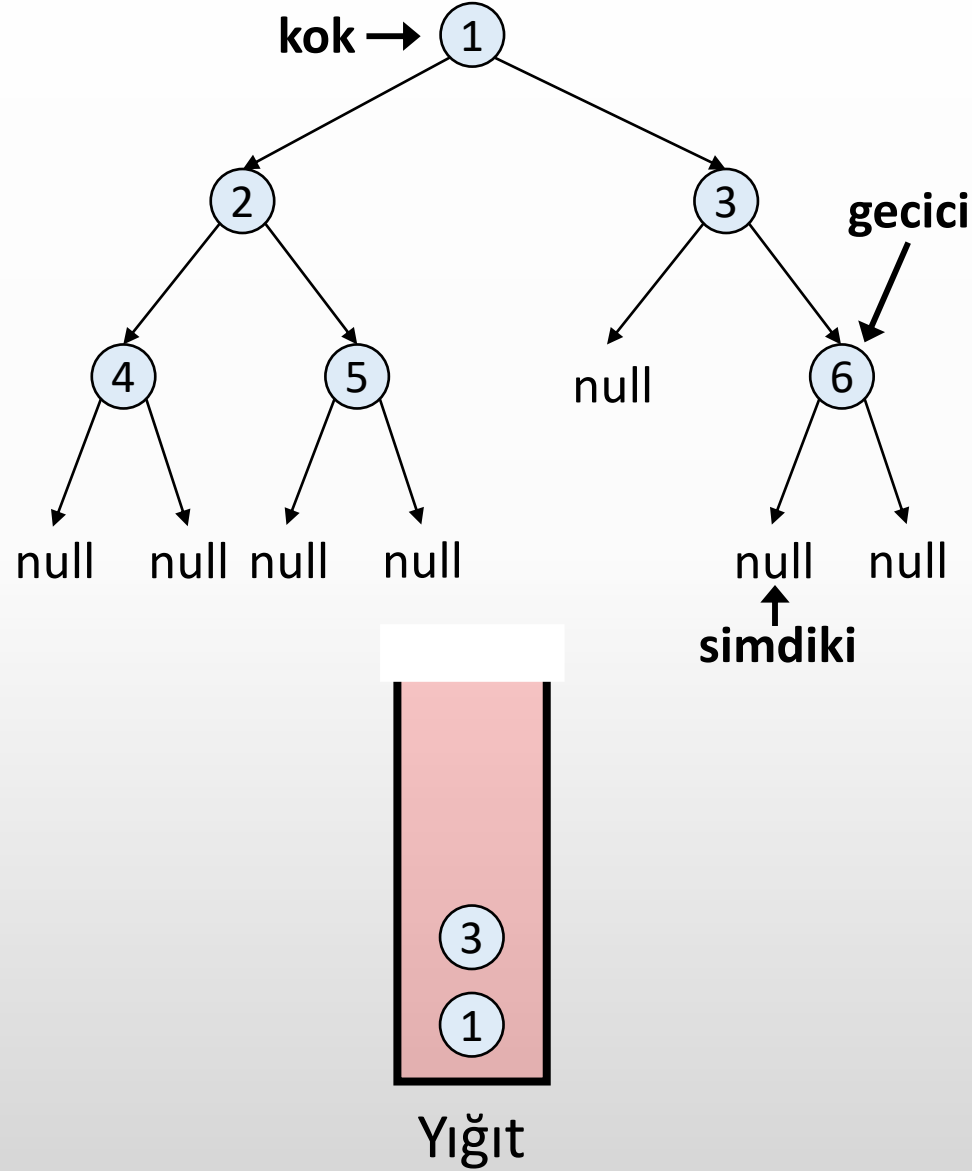
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



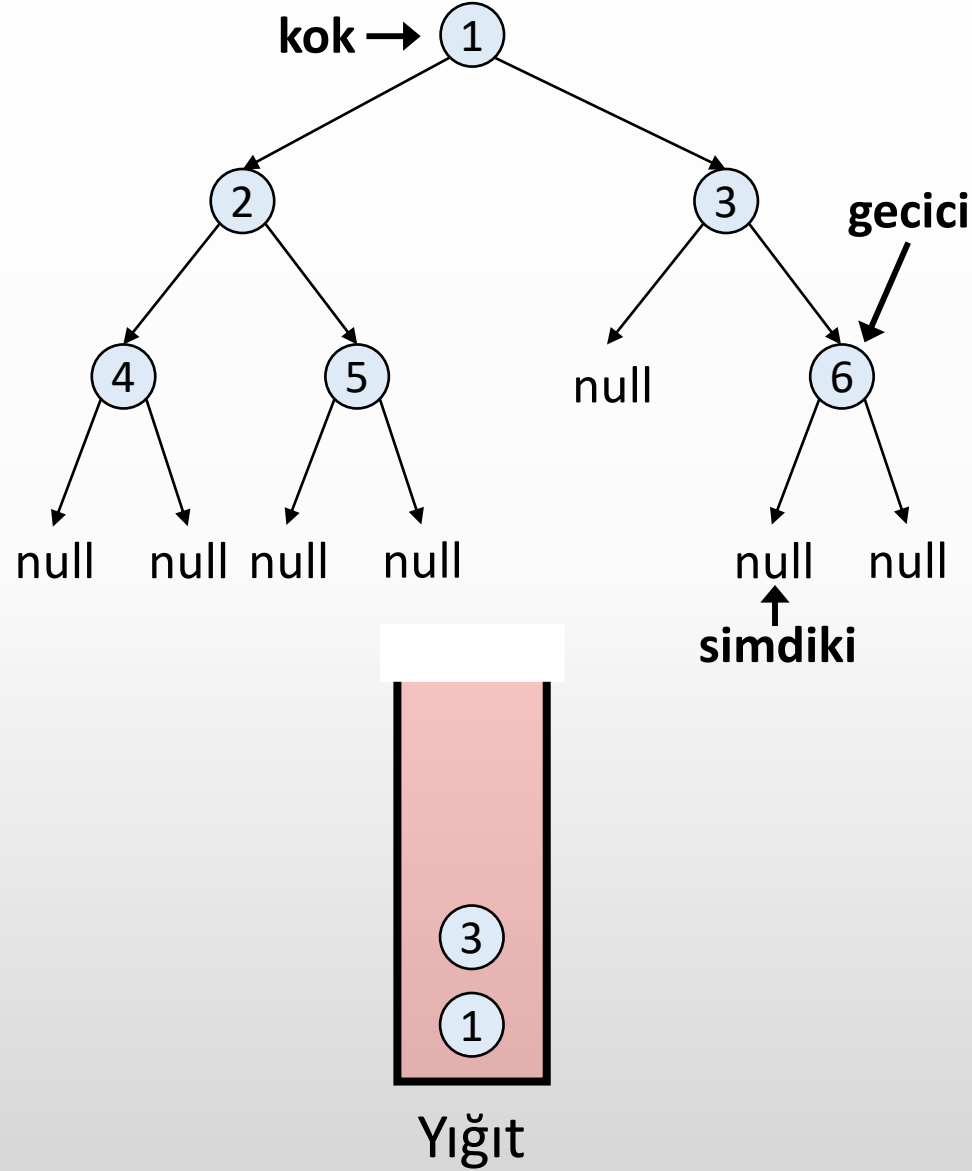
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



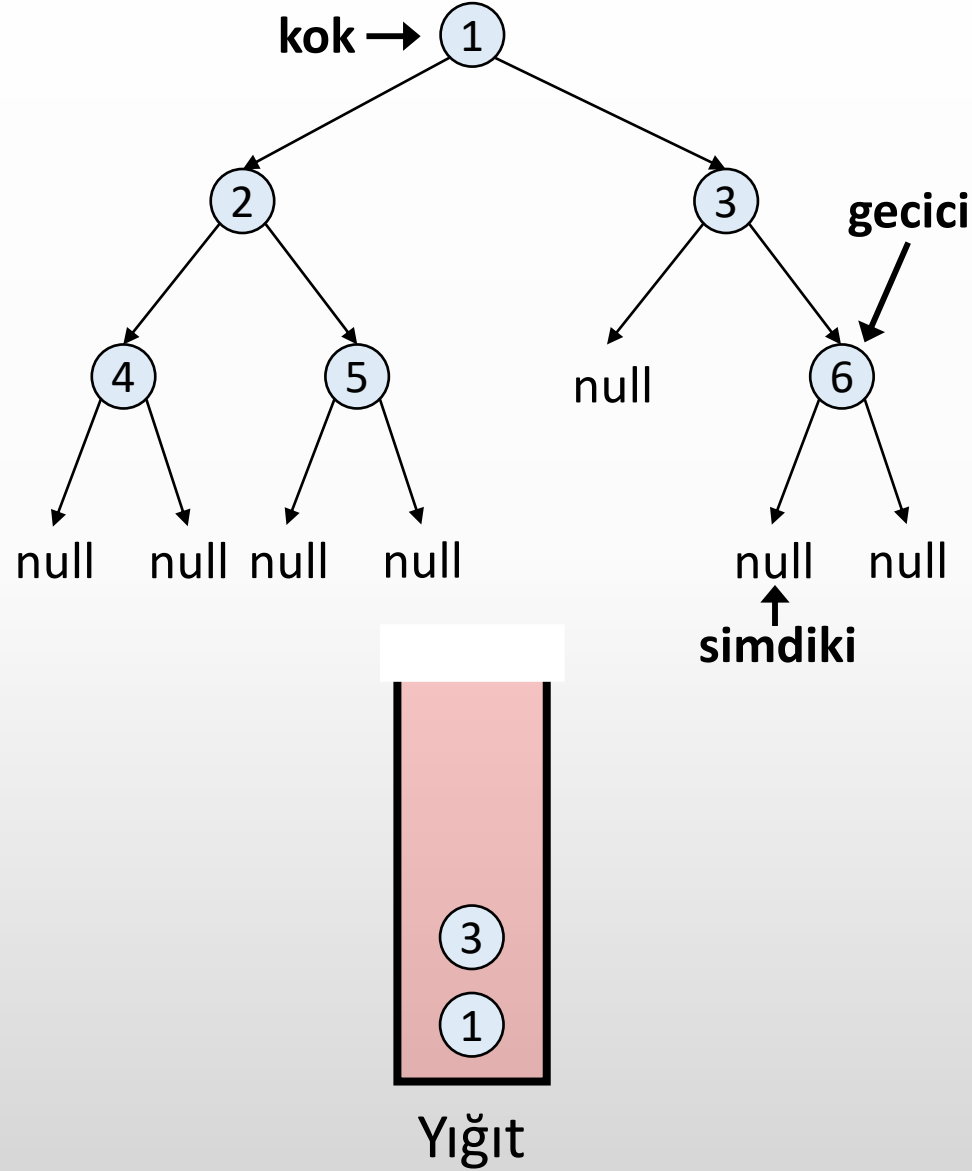
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



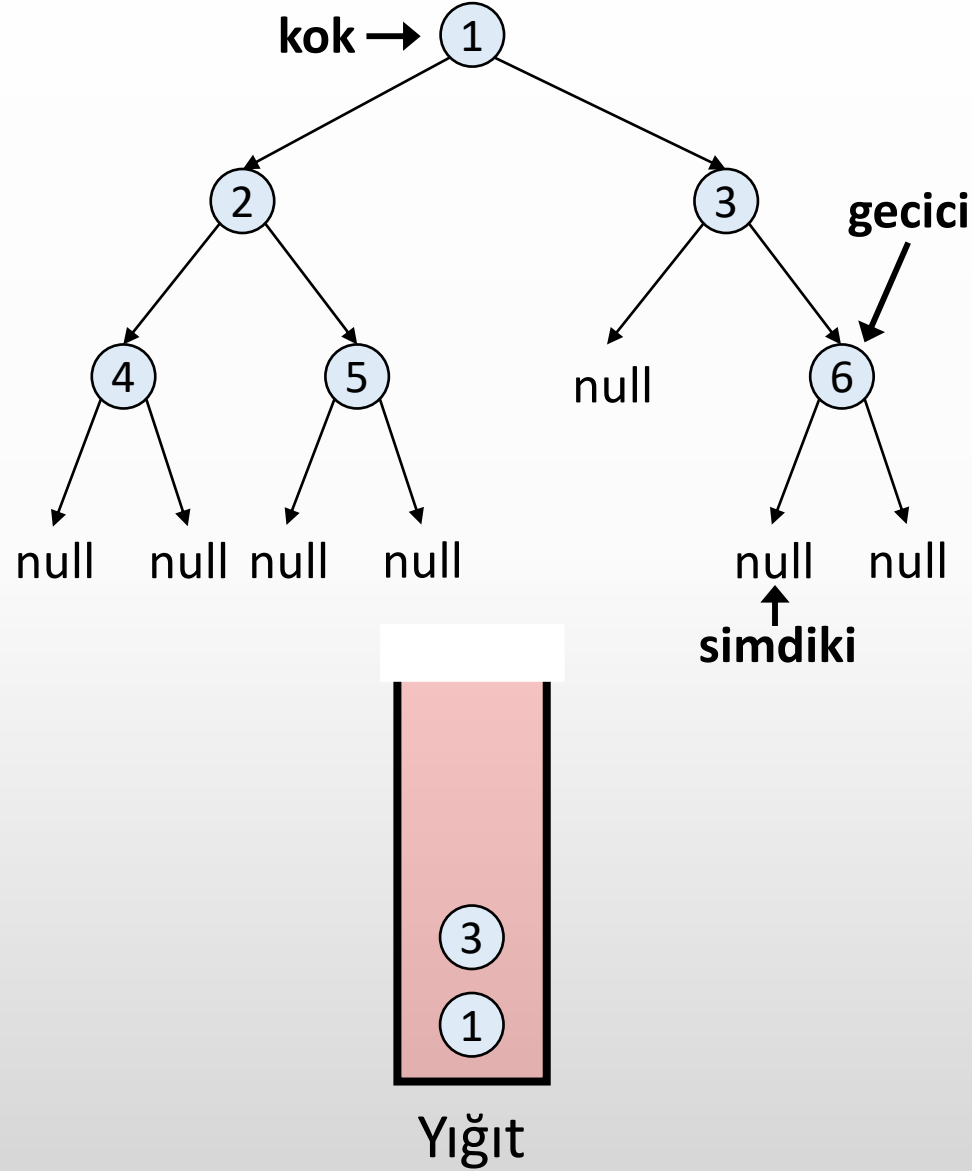
Çıktı: 4 5 2 6

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



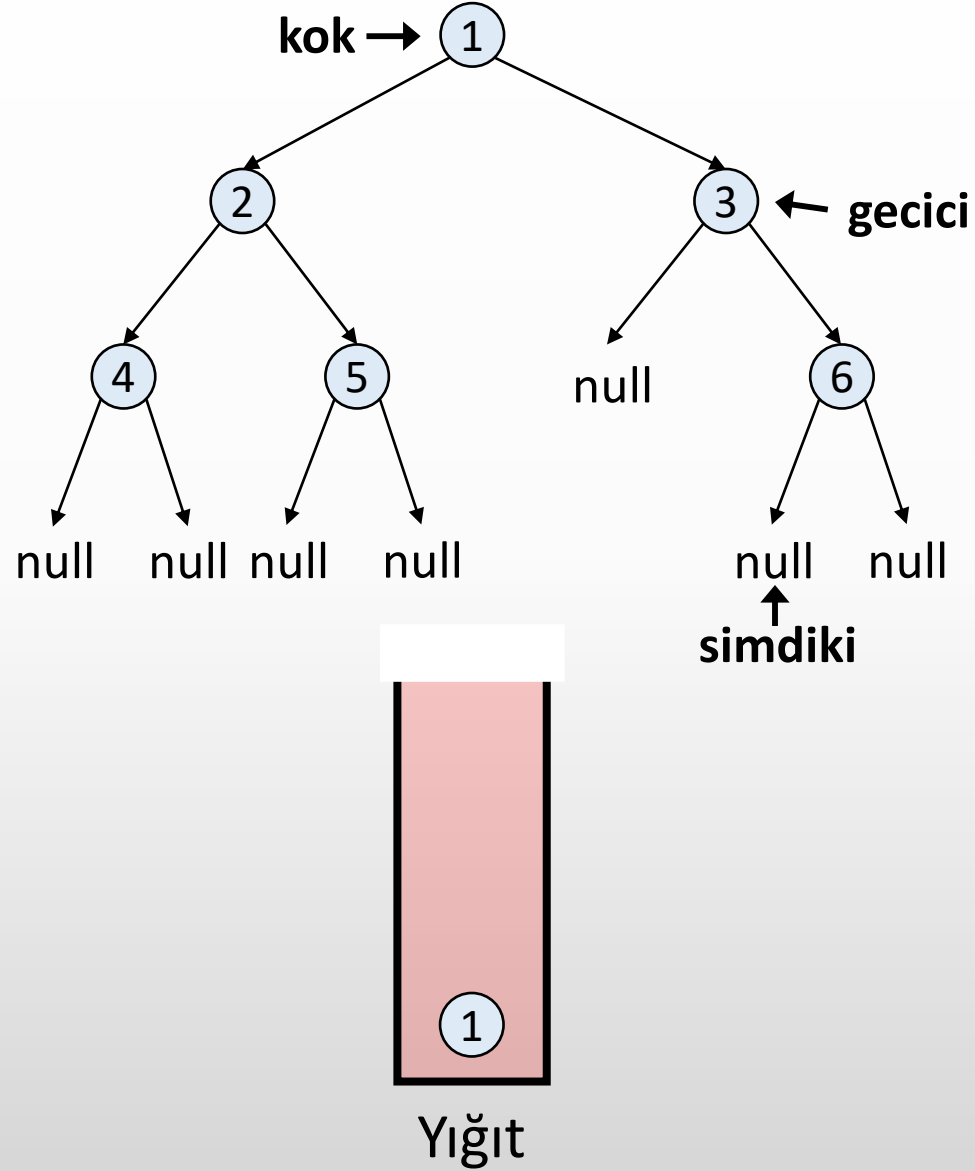
Çıktı: 4 5 2 6

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



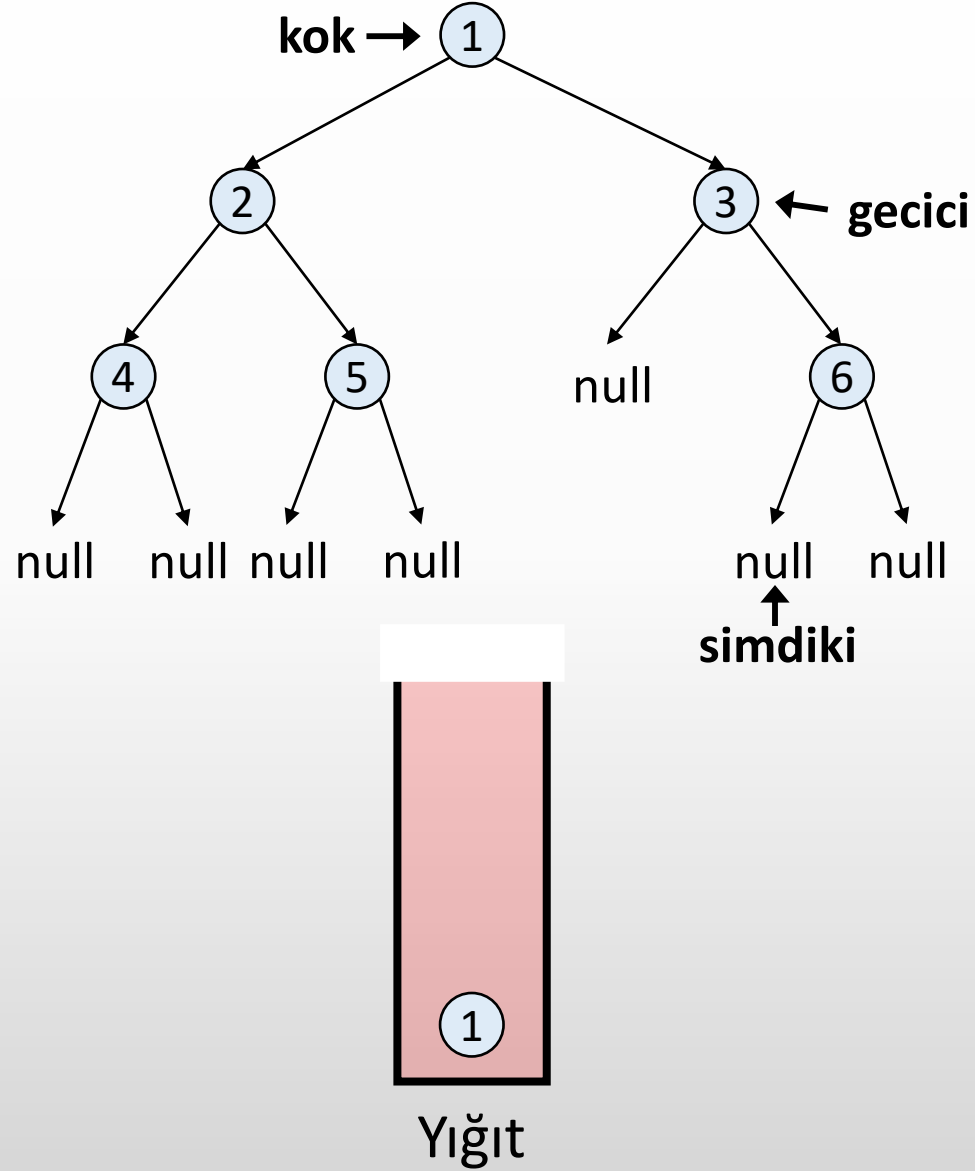
Çıktı: 4 5 2 6

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



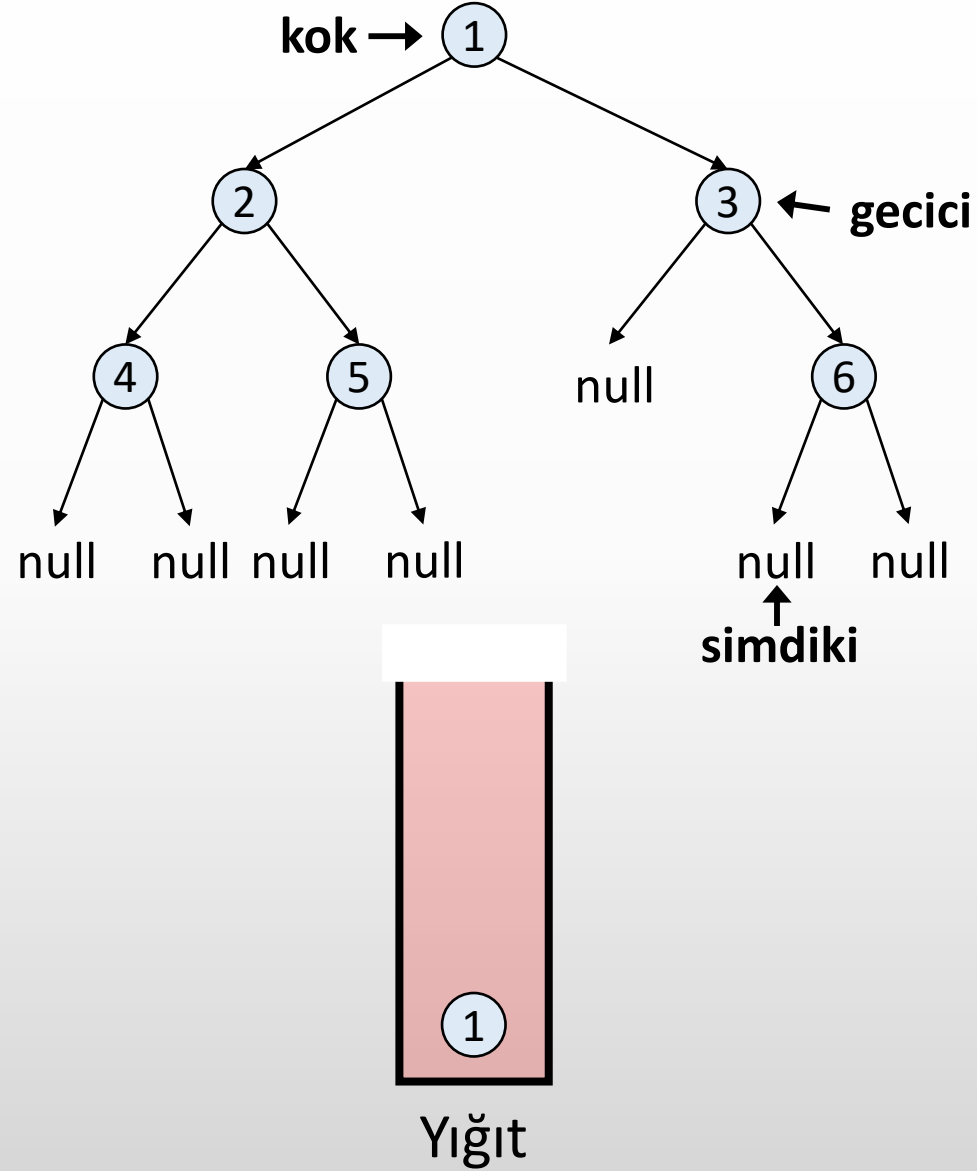
Çıktı: 4 5 2 6

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

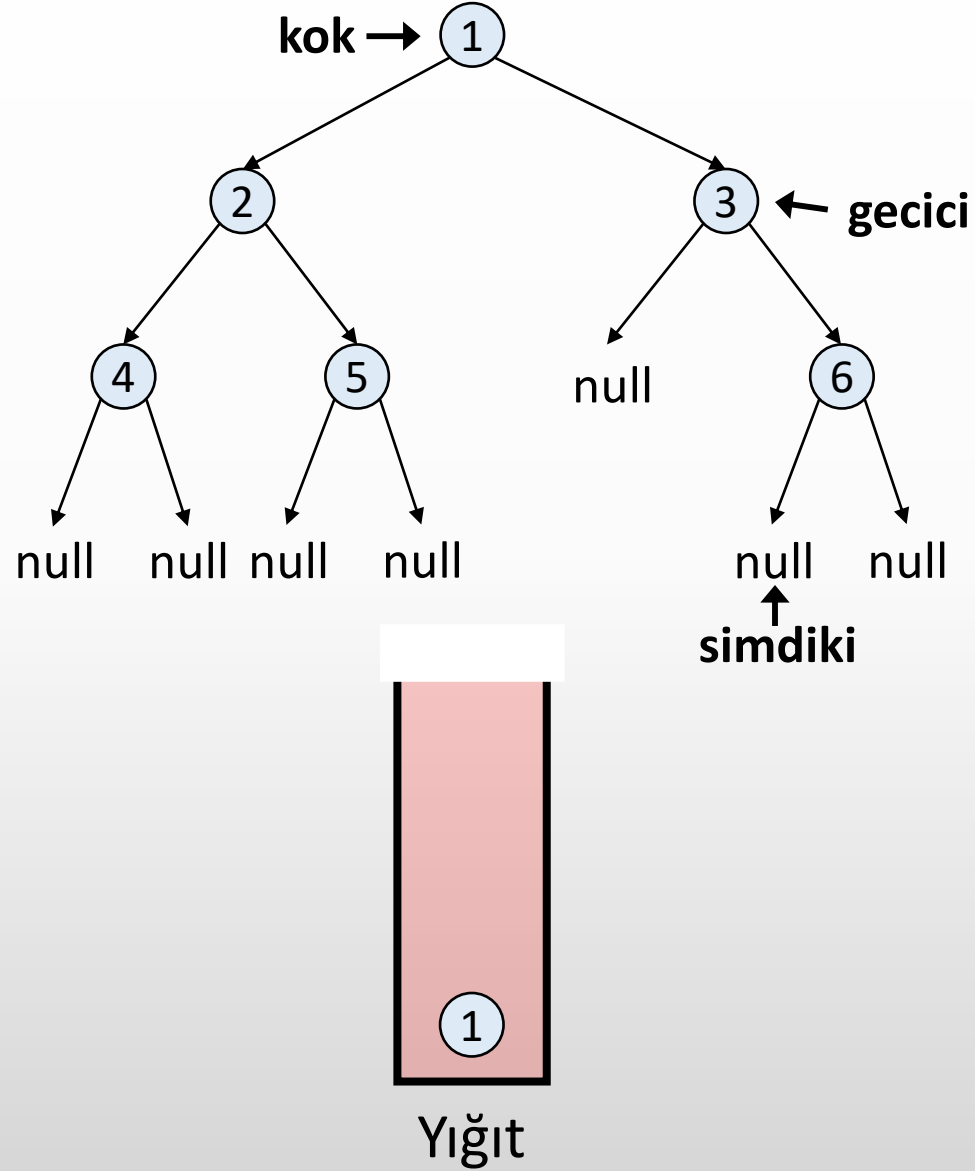
Çıktı: 4 5 2 6 3

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



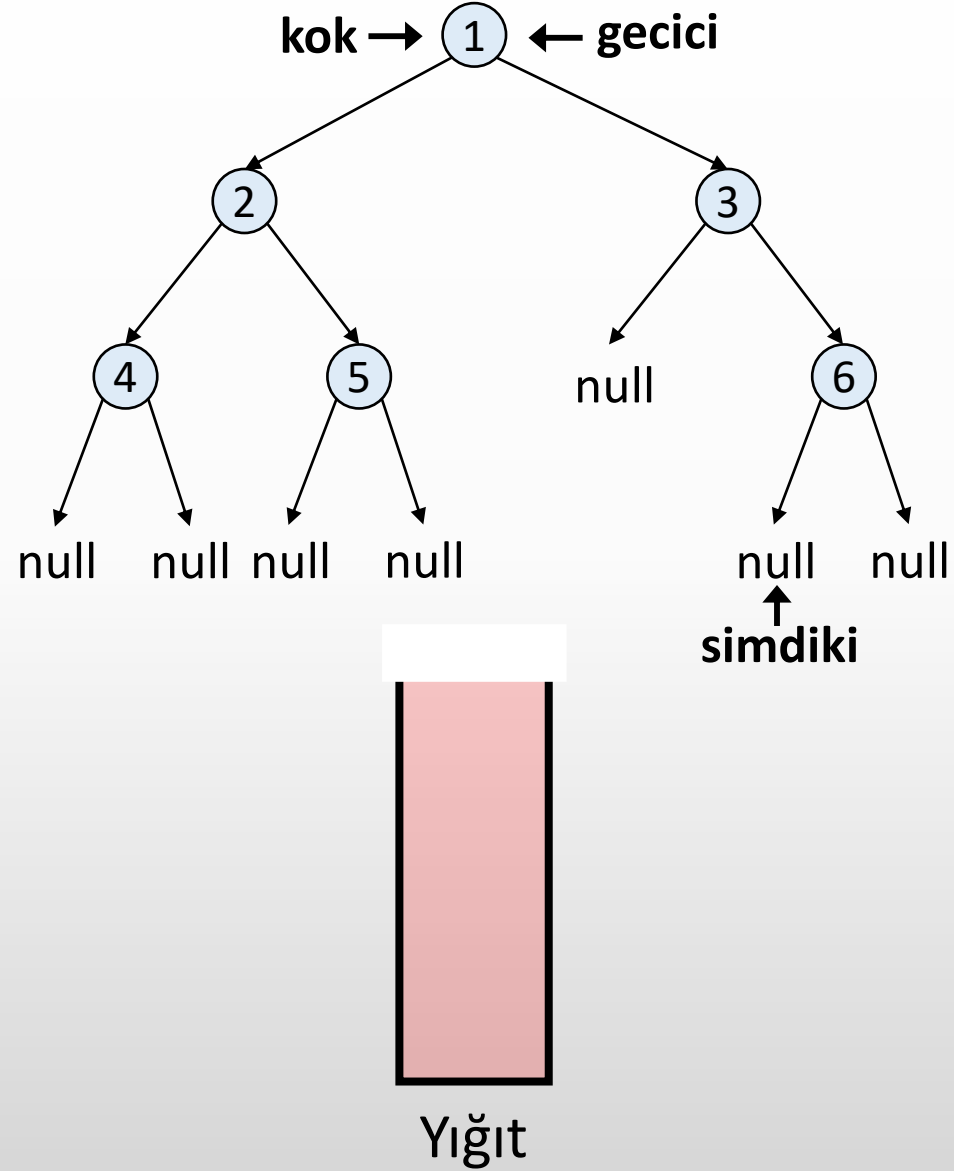
Çıktı: 4 5 2 6 3

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



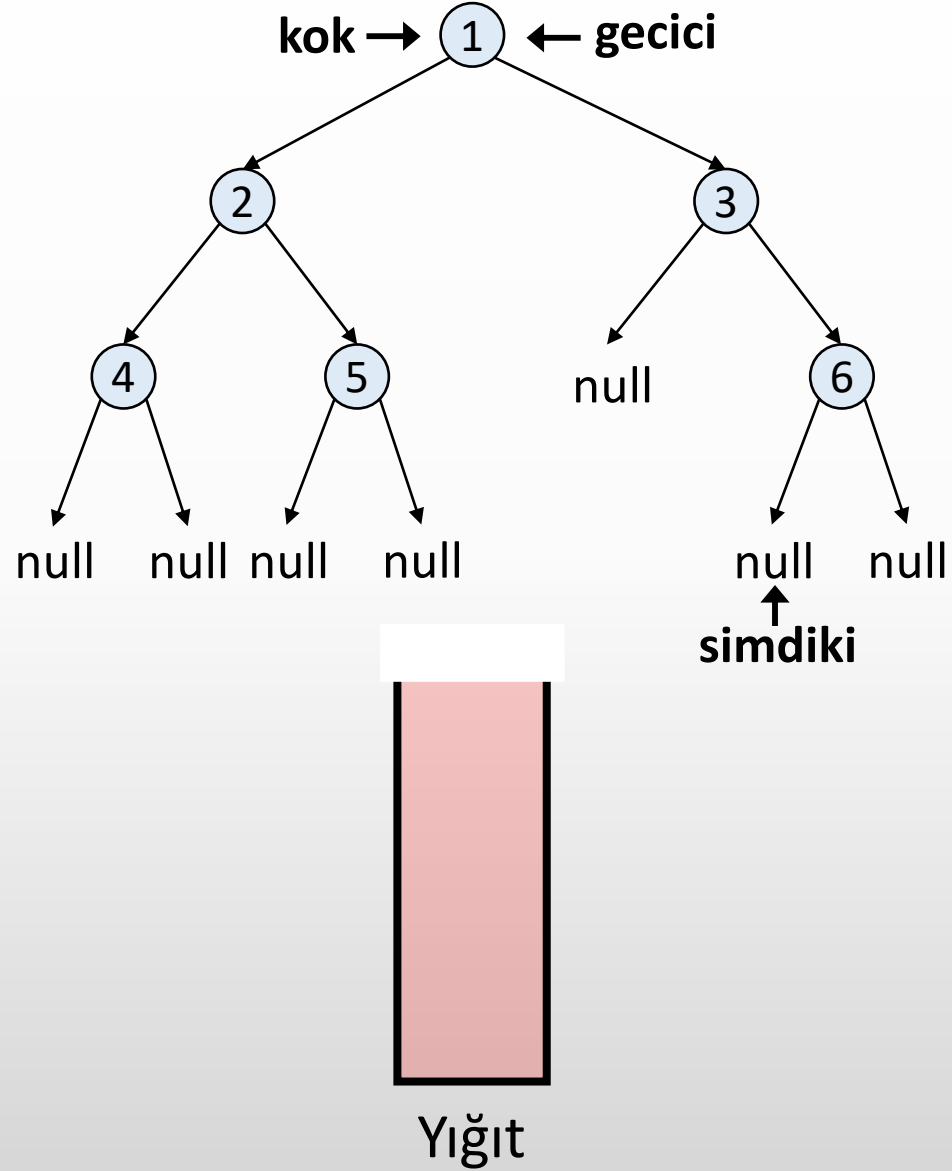
Çıktı: 4 5 2 6 3

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



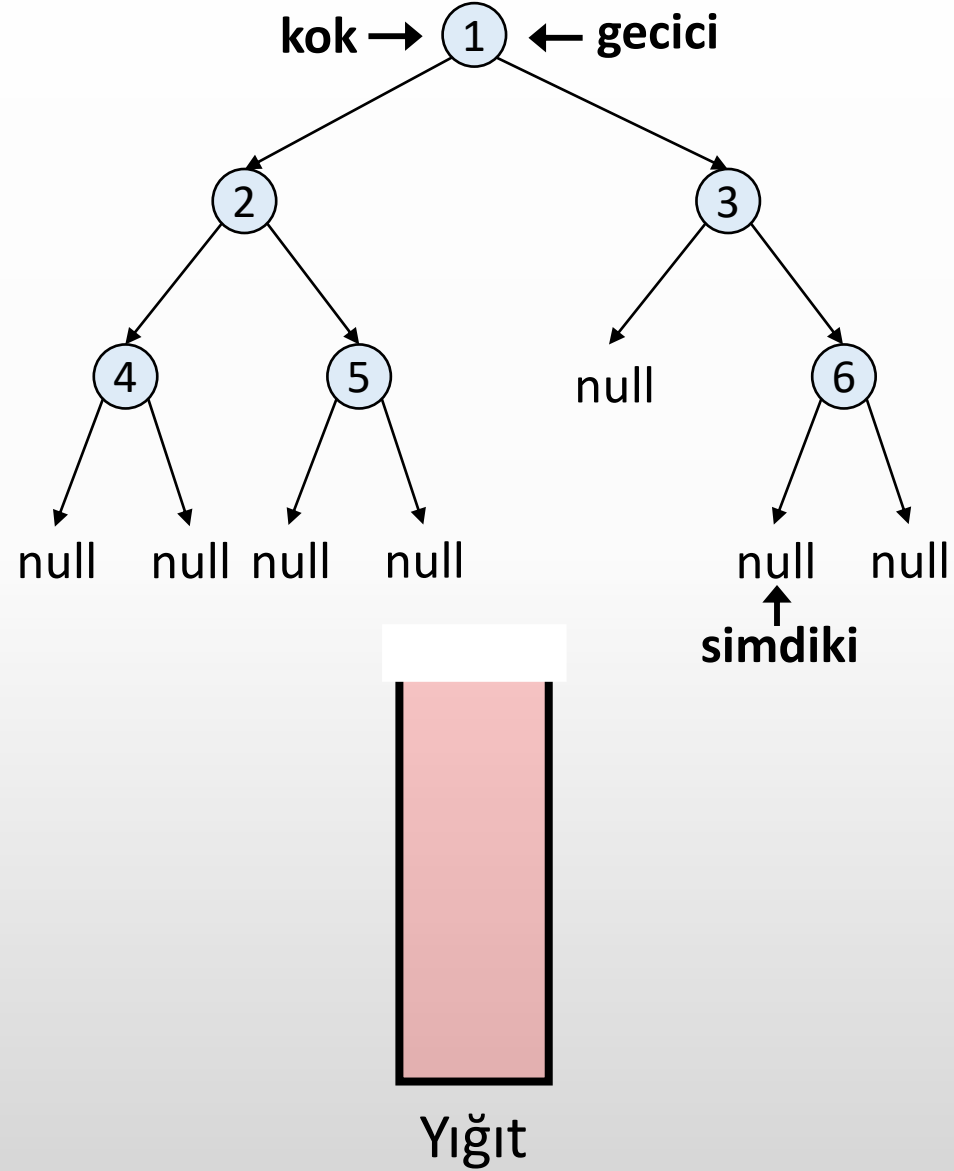
Çıktı: 4 5 2 6 3

```
AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
while(simdiki != null || !yigit.isEmpty()) {  
    if(simdiki != null) {  
        yigit.push(simdiki);  
        simdiki = simdiki.sol;  
    }  
    else {  
        AgacDugumu gecici = yigit.peek().sag;  
        if(gecici == null) {  
            gecici = yigit.pop();  
            System.out.print(gecici.veri + " ");  
            while(!yigit.isEmpty() &&  
                gecici == yigit.peek().sag) {  
                gecici = yigit.pop();  
                System.out.print(gecici.veri + " ");  
            }  
        }  
        else {  
            simdiki = gecici;  
        }  
    }  
}
```



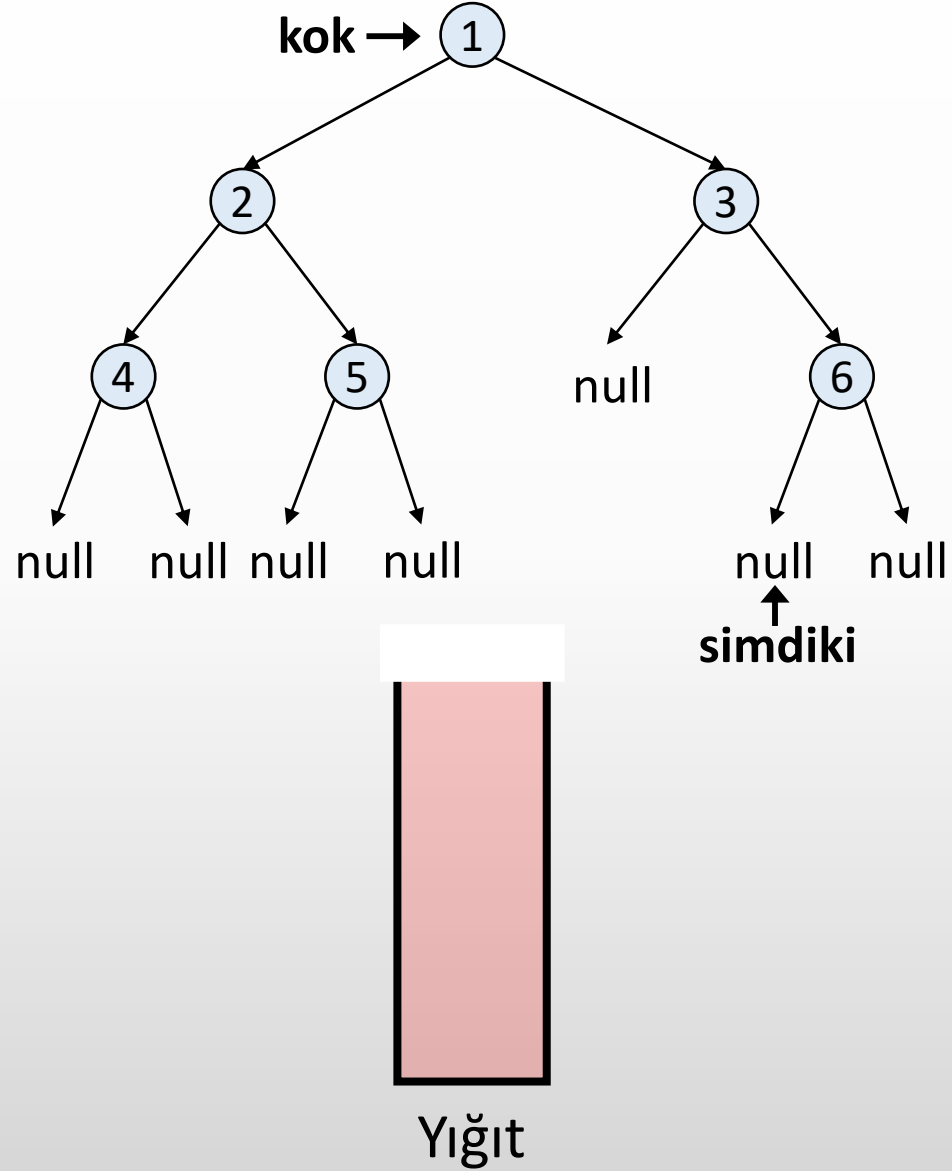
Çıktı: 4 5 2 6 3 1

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



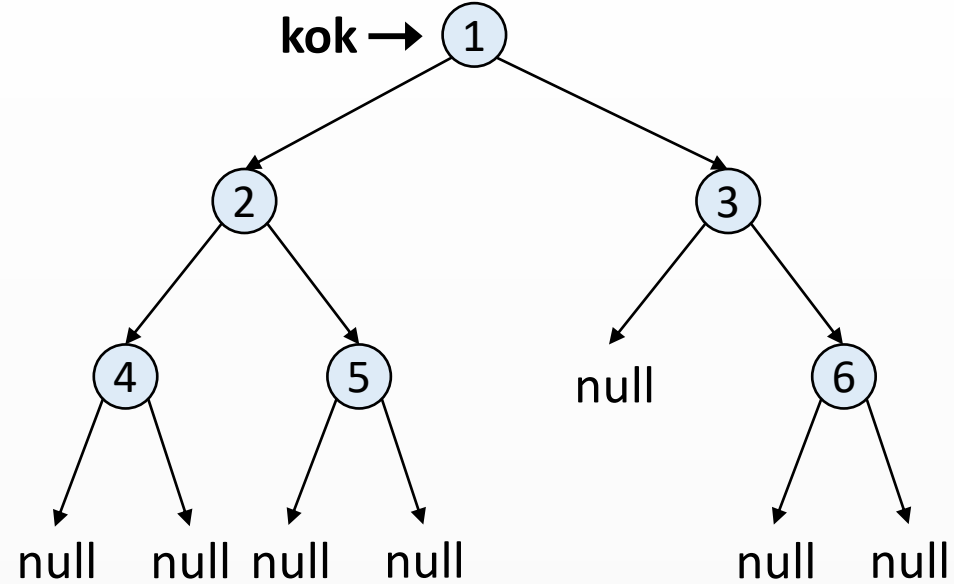
Çıktı: 4 5 2 6 3 1

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```



Çıktı: 4 5 2 6 3 1

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```

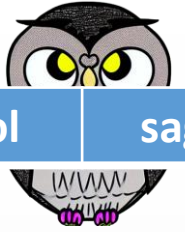


Çıktı: 4 5 2 6 3 1

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
            simdiki = gecici;
        }
    }
}
```




İkili Ağaçta En Büyük Deęeri Bulma



metot çağırımı

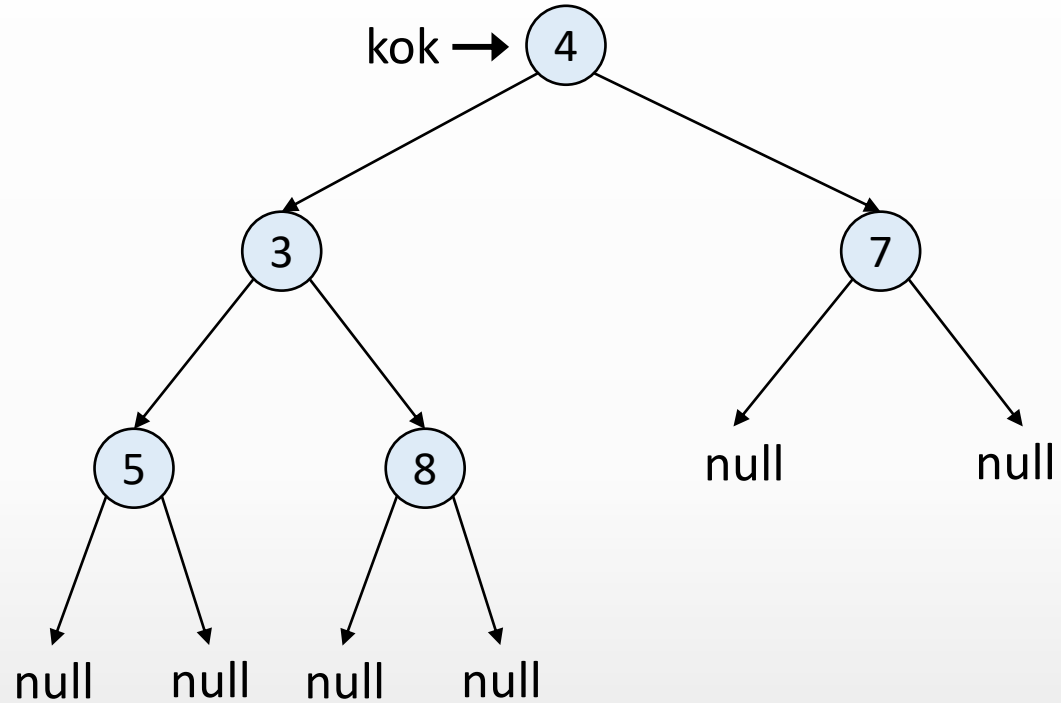
satır no

kok

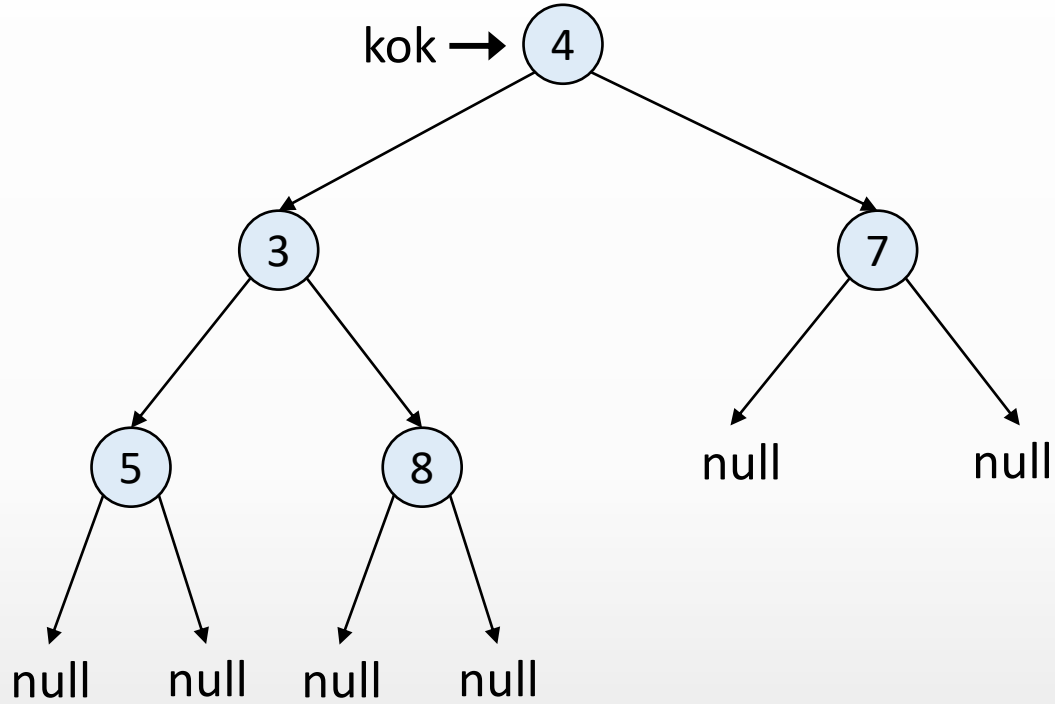
sonuc

sol

sag

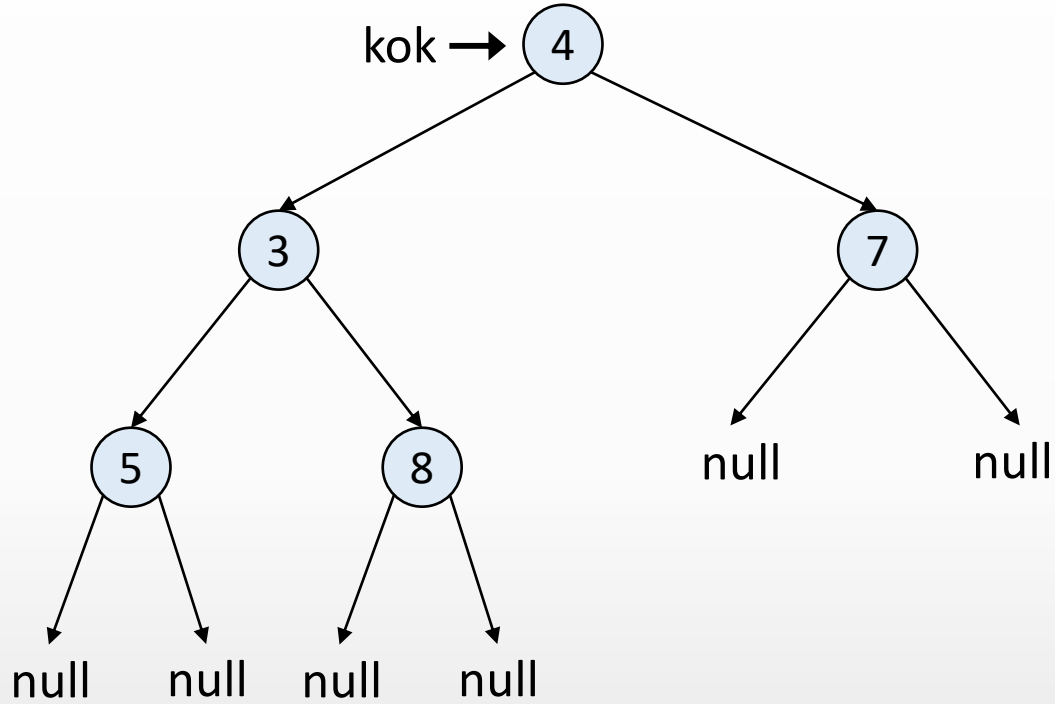


```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
3     return Integer.MIN_VALUE;
4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



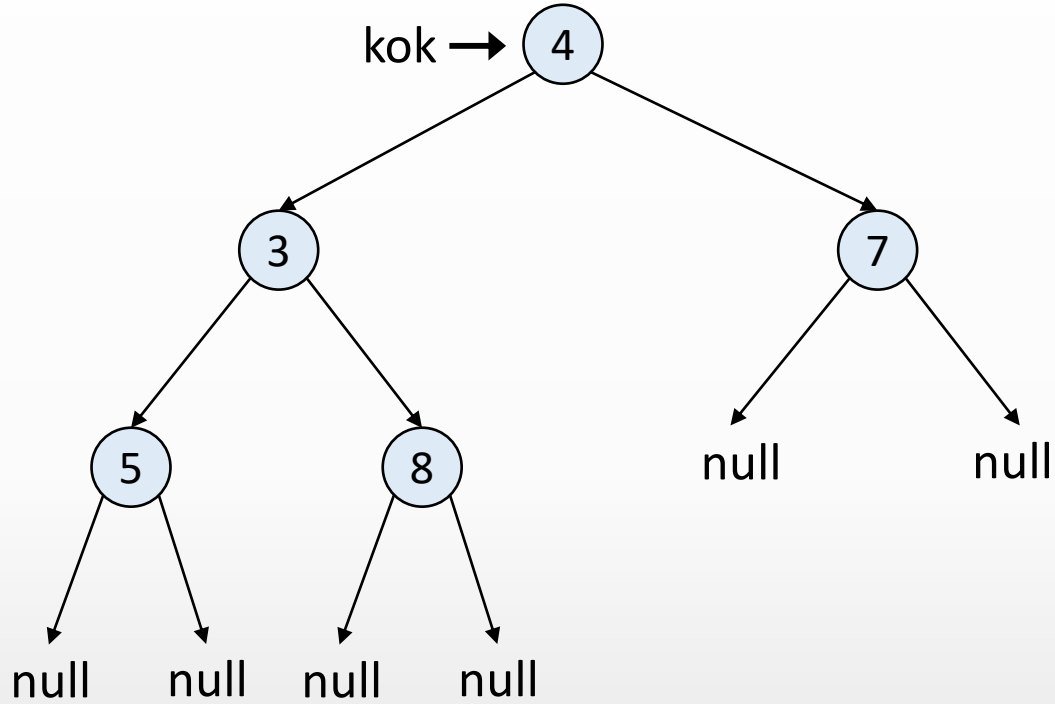
metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
3     return Integer.MIN_VALUE;
4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



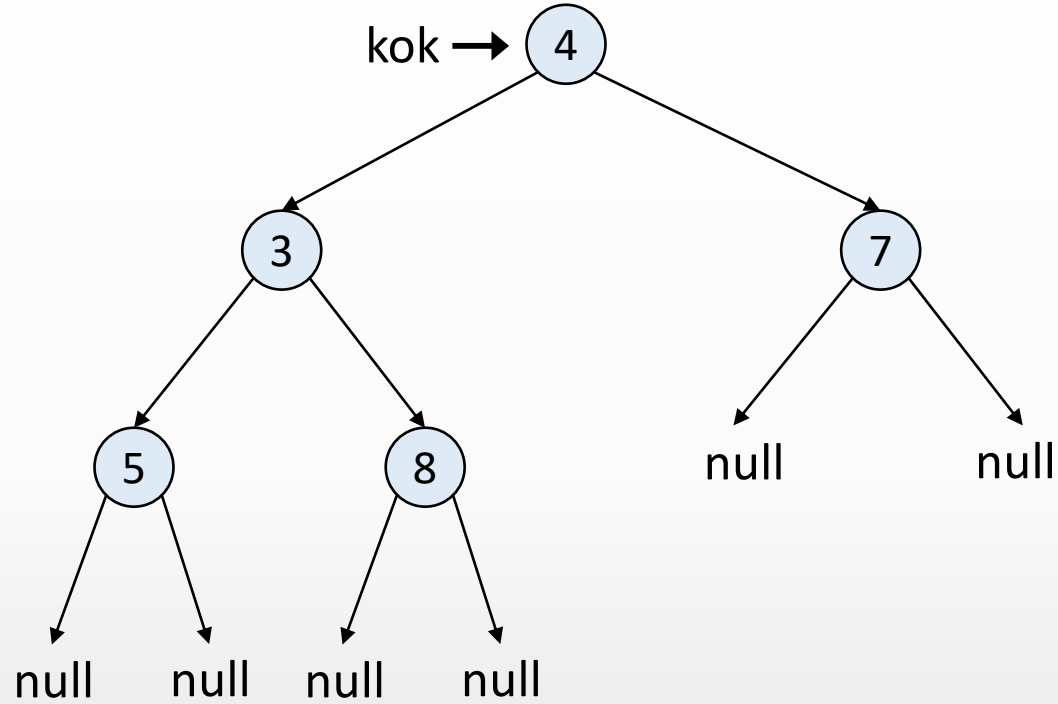
metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
3     return Integer.MIN_VALUE;
4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



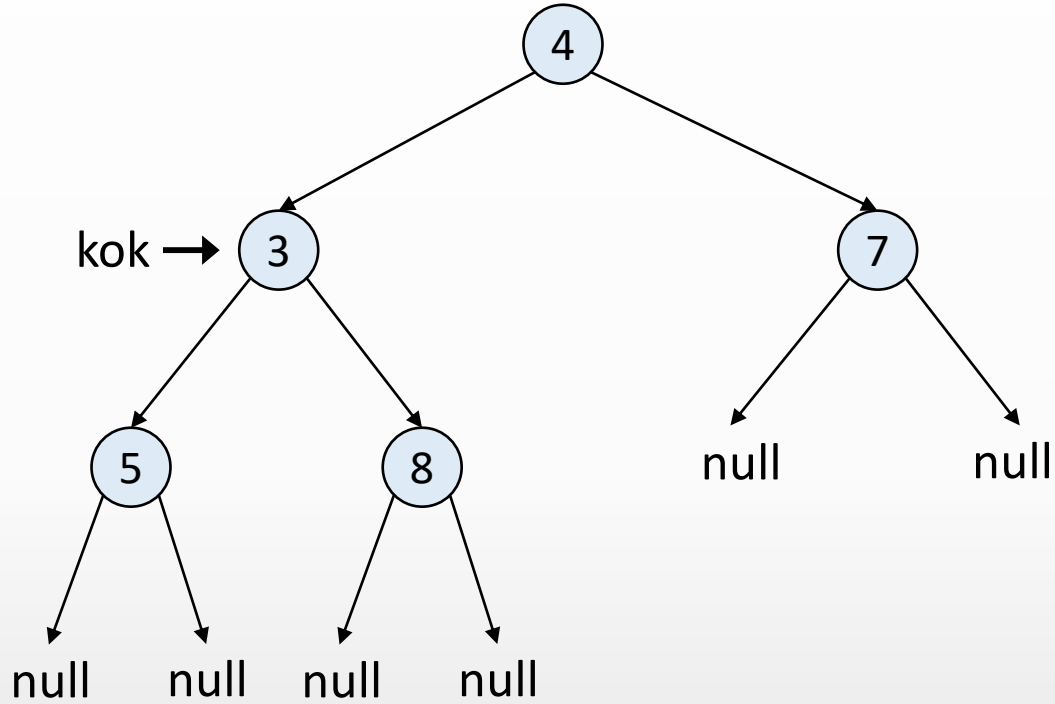
metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4	4		

```
1 public int enBuyukBul(AgacDugumu kok) {
2     if(kok == null) {
3         return Integer.MIN_VALUE;
4     }
5     int sonuc = kok.veri;
6     int sol = enBuyukBul(kok.sol);
7     int sag = enBuyukBul(kok.sag);
8     if(sol > sonuc)
9         sonuc = sol;
10    if(sag > sonuc)
11        sonuc = sag;
12    return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		

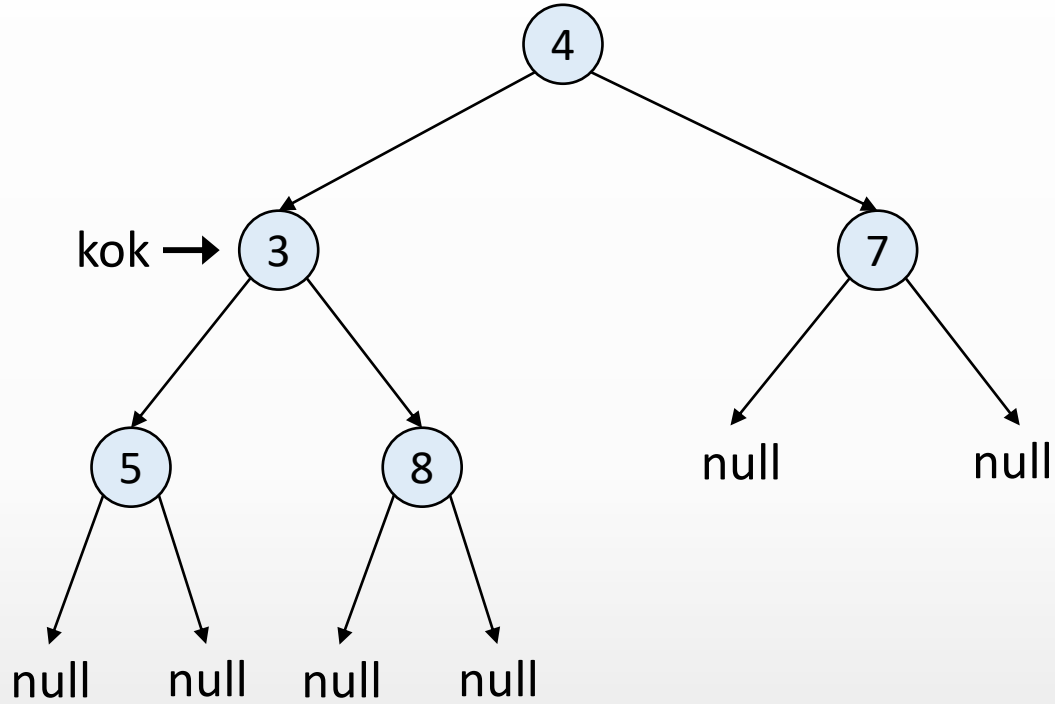
```
1 public int enBuyukBul(AgacDugumu kok) {
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4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			



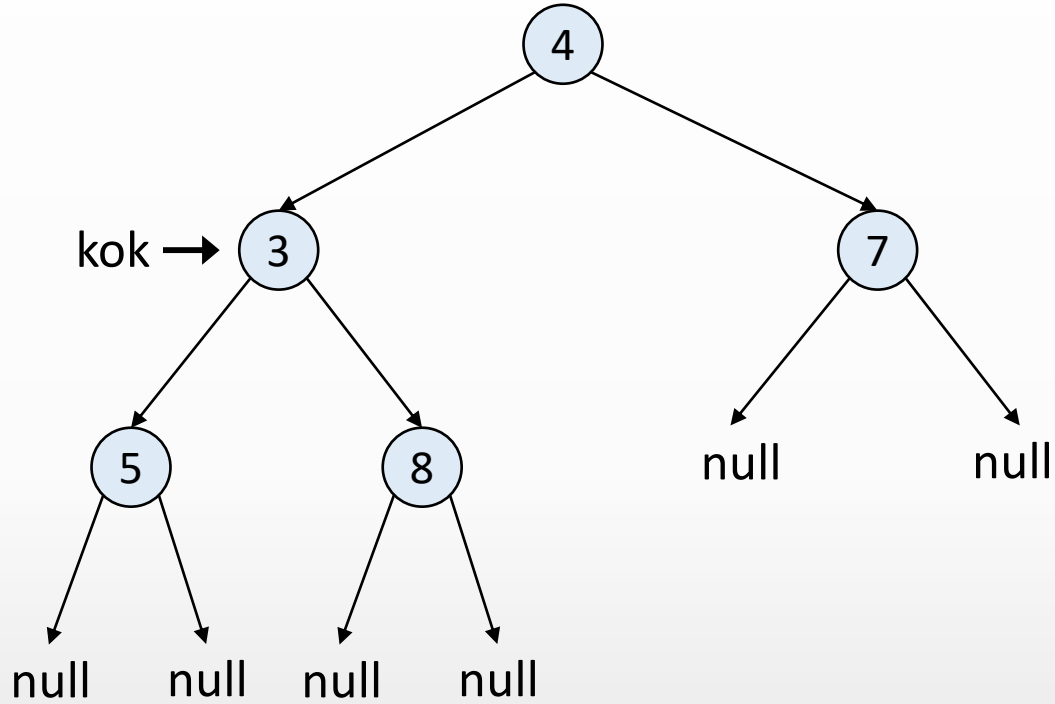
```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
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4   }
5   int sonuc = kok.veri;
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7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			



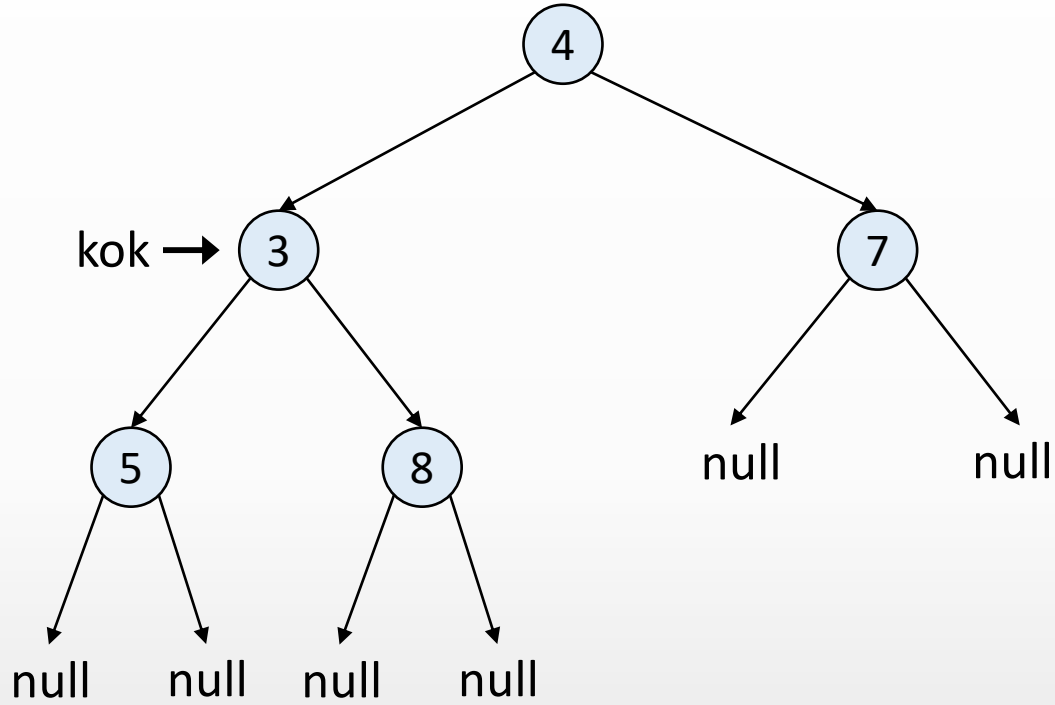
```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
3     return Integer.MIN_VALUE;
4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3	3		



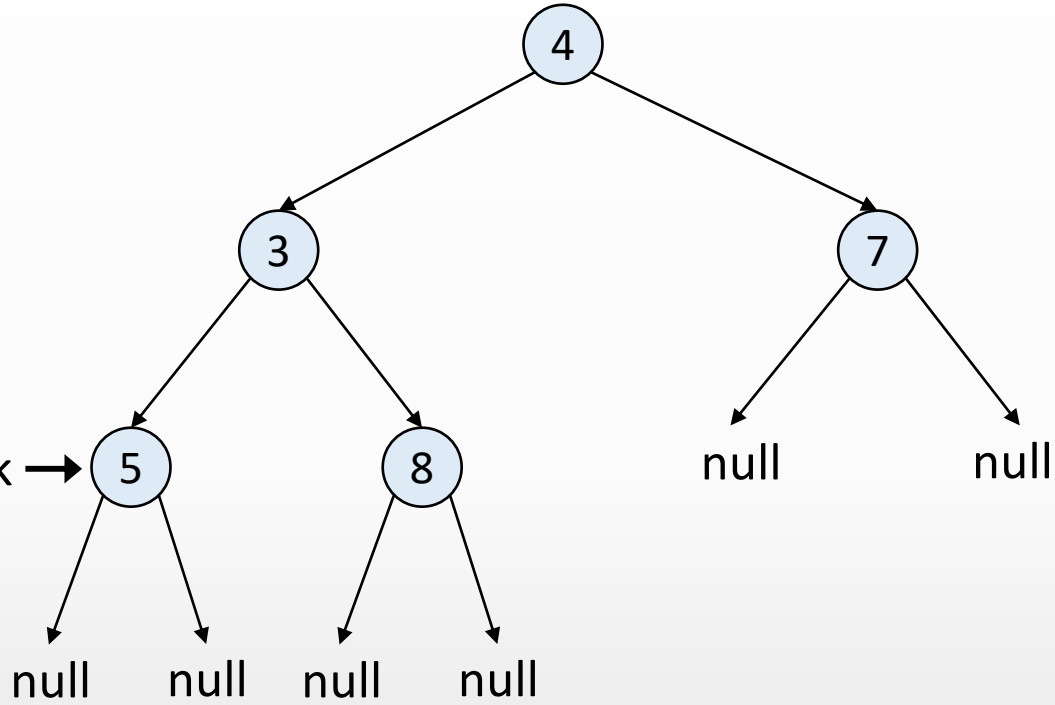
```
1 public int enBuyukBul(AgacDugumu kok) {
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3     return Integer.MIN_VALUE;
4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		



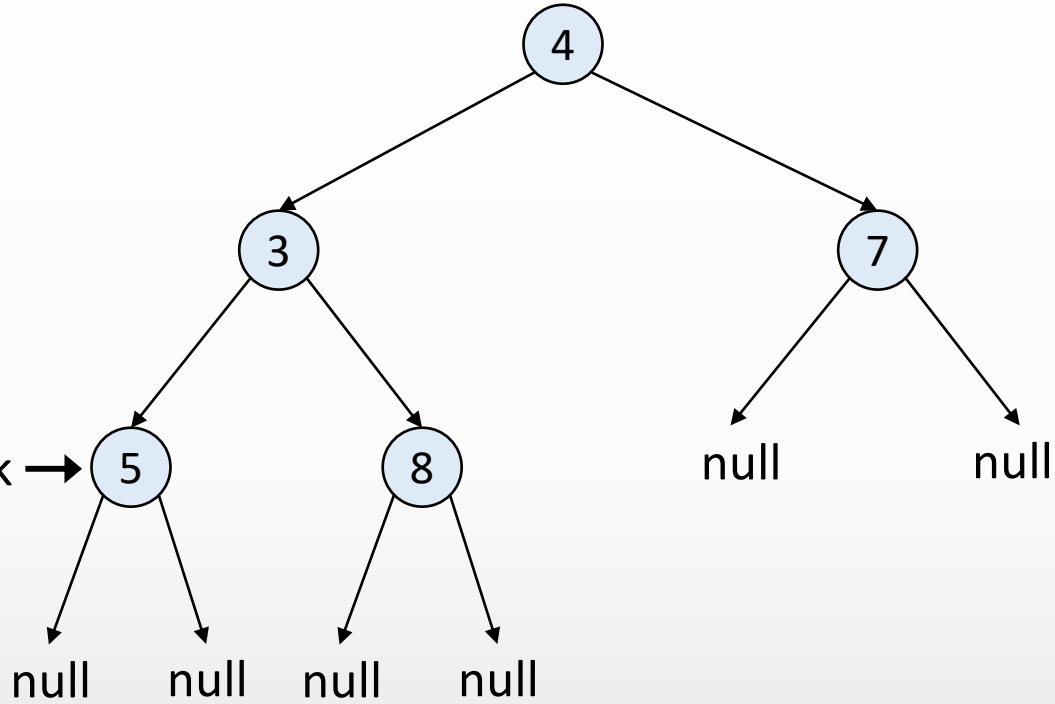
```
1 public int enBuyukBul(AgacDugumu kok) {
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3         return Integer.MIN_VALUE;
4     }
5     int sonuc = kok.veri;
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8     if(sol > sonuc)
9         sonuc = sol;
10    if(sag > sonuc)
11        sonuc = sag;
12    return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			



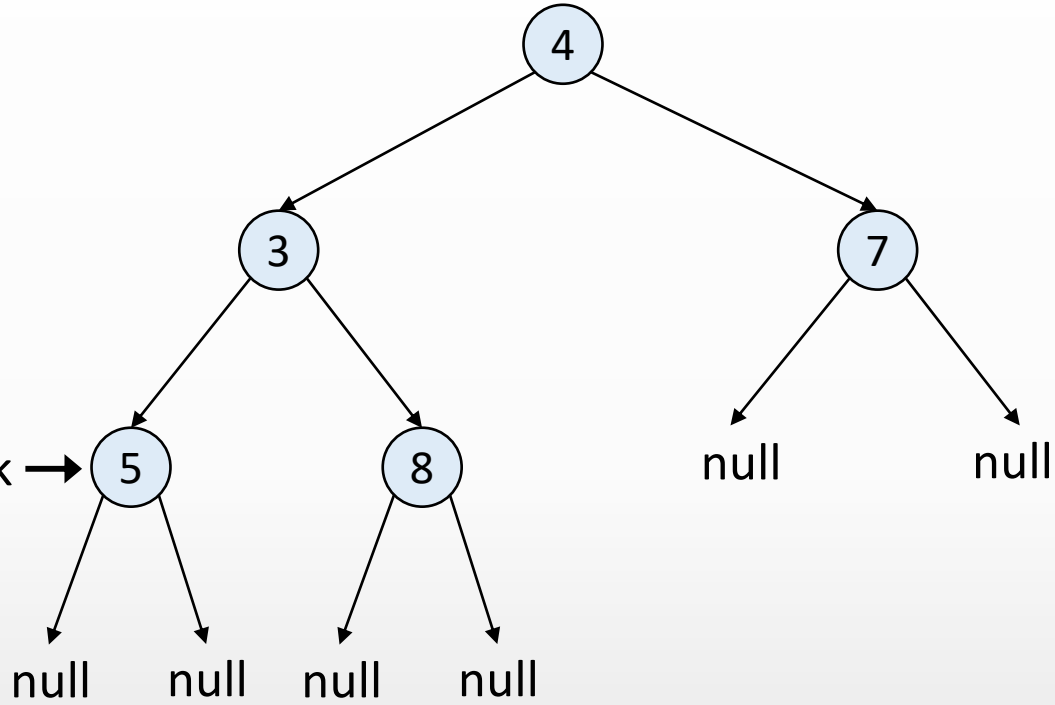
```
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10  if(sag > sonuc)
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13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			



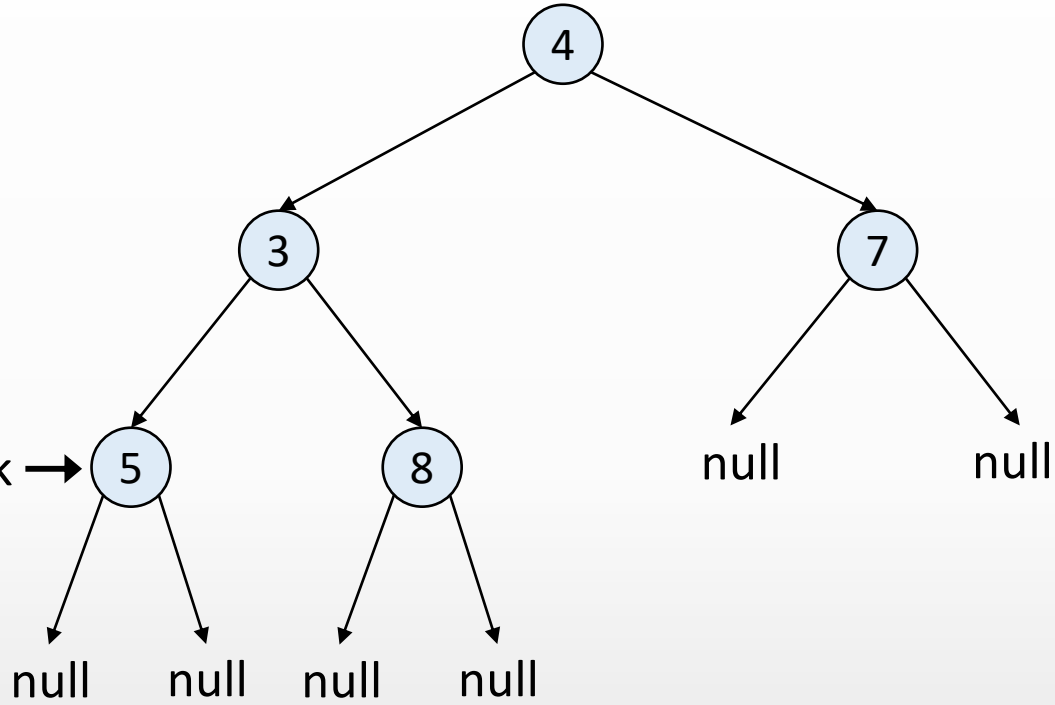
```
1 public int enBuyukBul(AgacDugumu kok) {
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12  return sonuc;
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```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5	5		



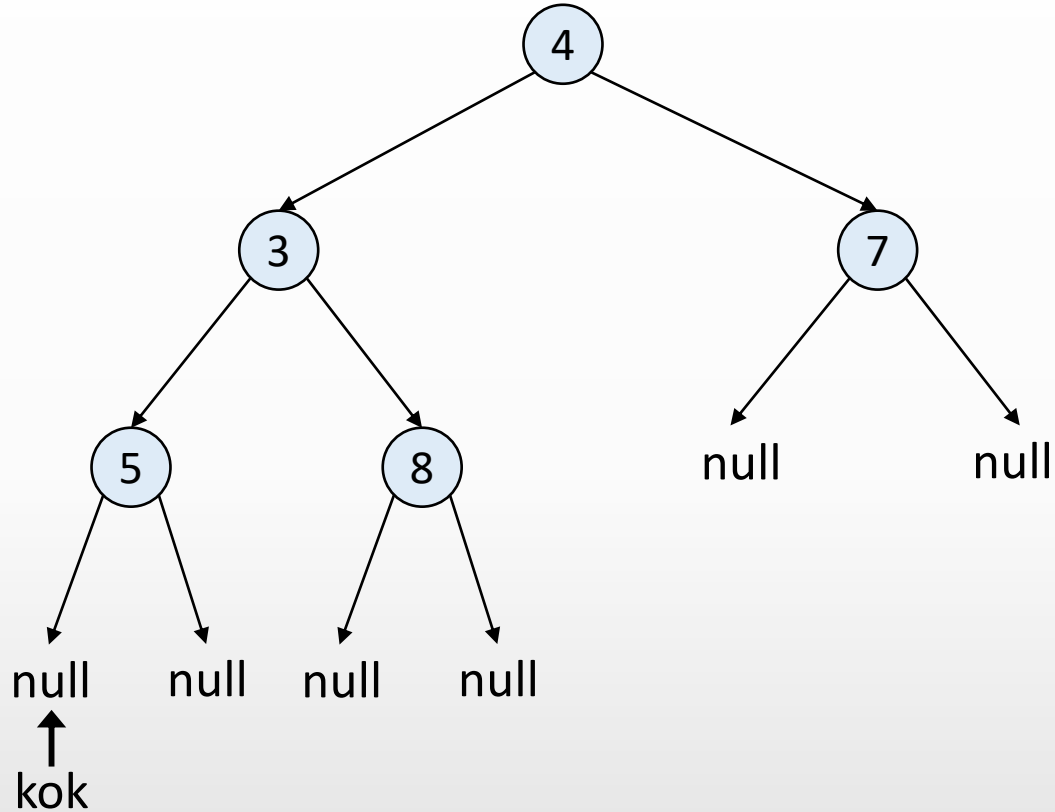
```
1 public int enBuyukBul(AgacDugumu kok) {
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12  return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		



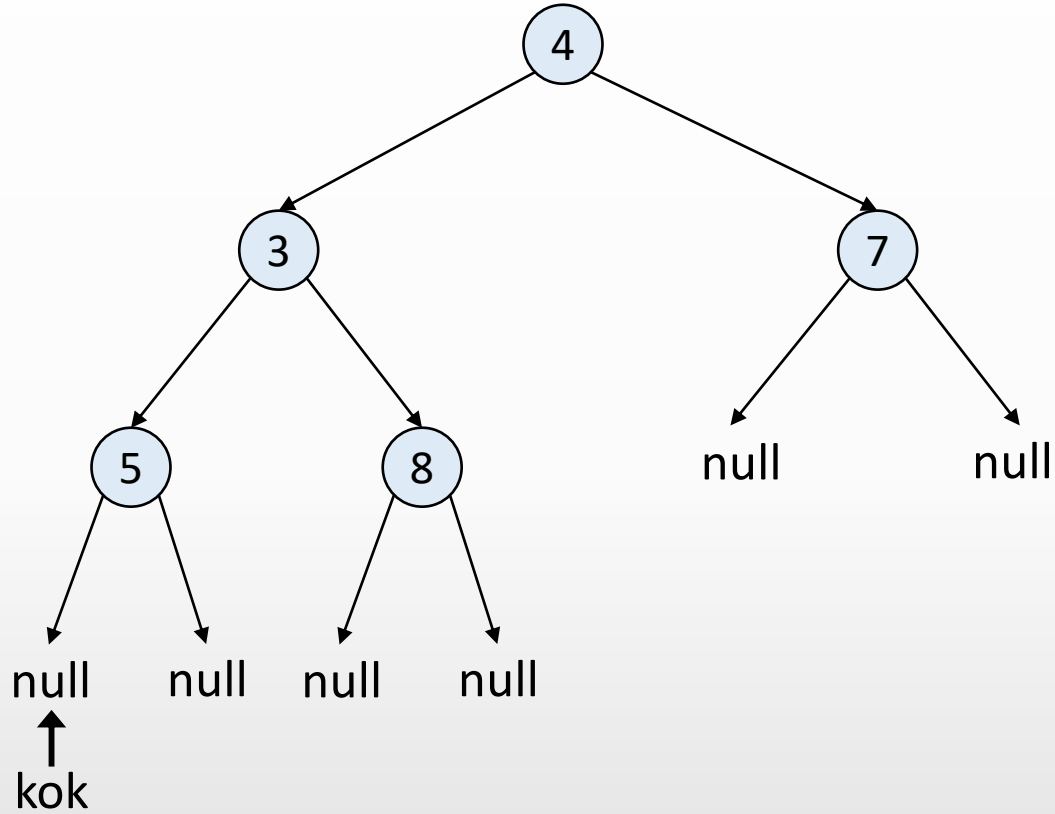
```
1 public int enBuyukBul(AgacDugumu kok) {
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4   }
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10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			



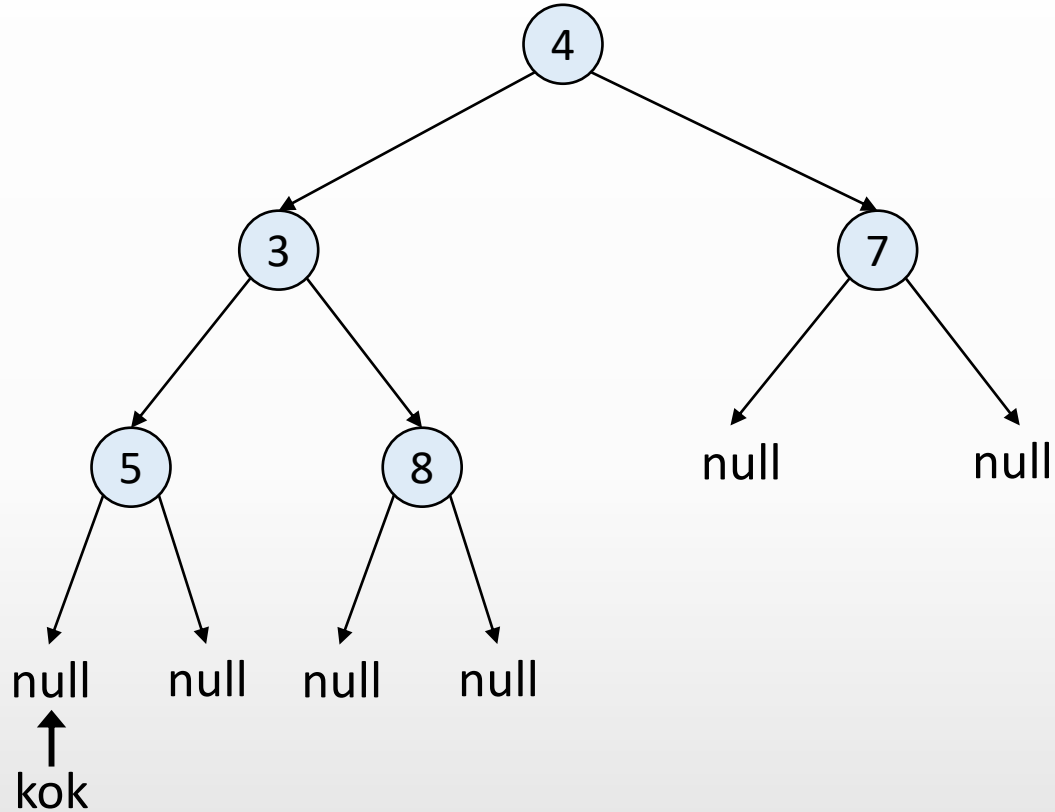
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1 public int enBuyukBul(AgacDugumu kok) {
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4   }
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13 }
```



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			



```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
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4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
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10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
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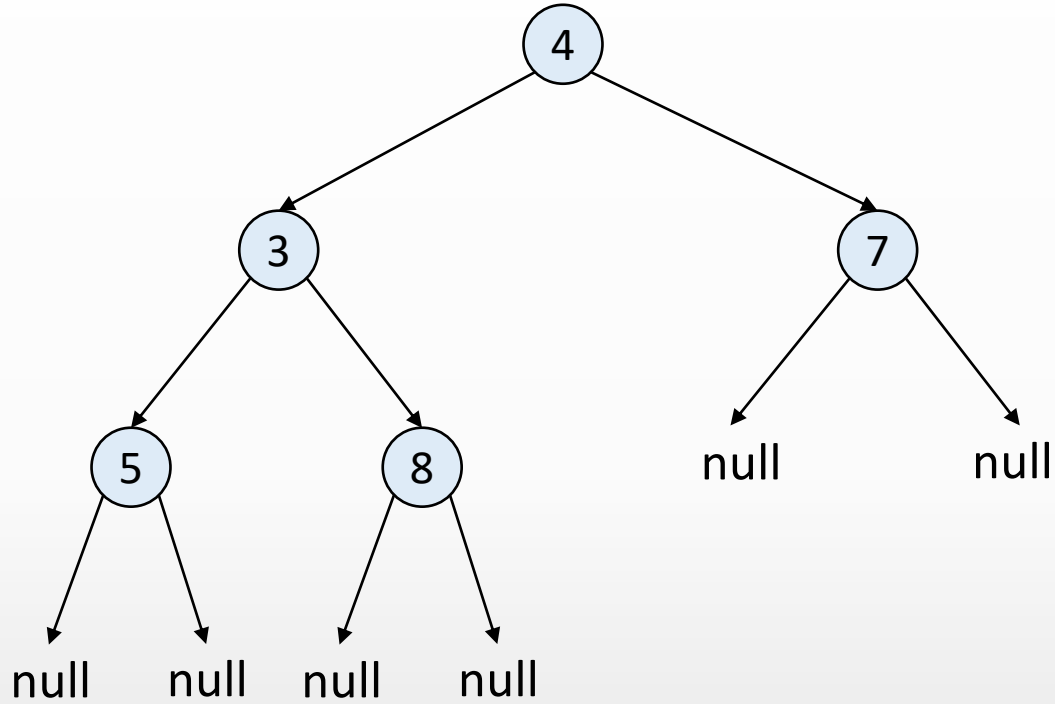
IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			



```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
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4   }
5   int sonuc = kok.veri;
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8   if(sol > sonuc)
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10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
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```

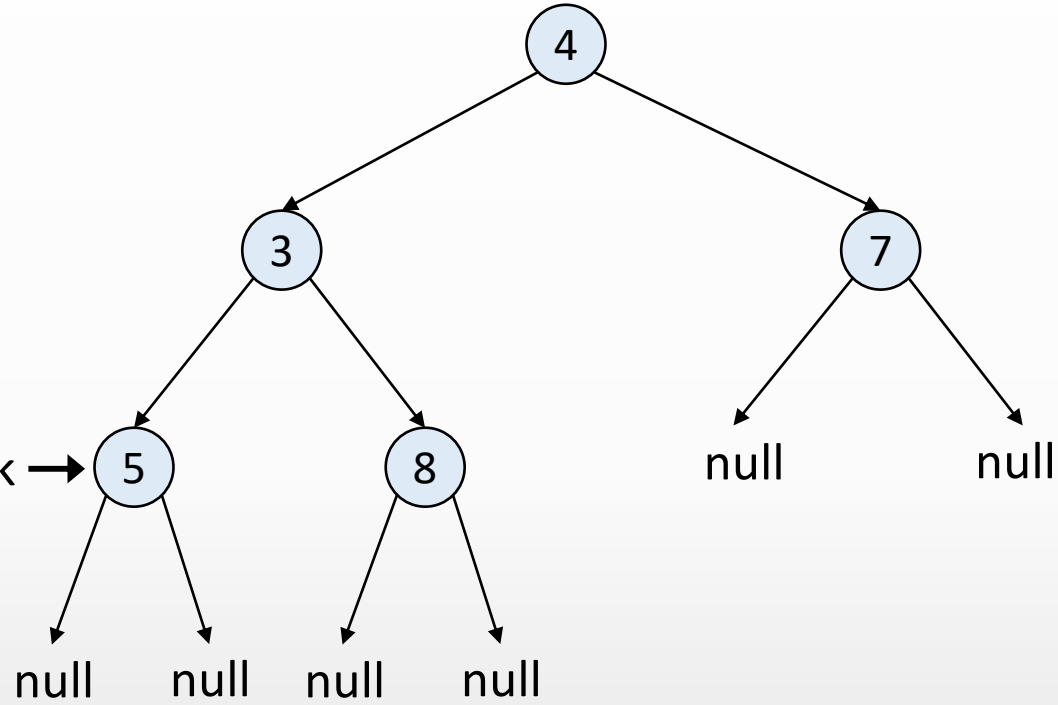


IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
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4   }
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10  if(sag > sonuc)
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13 }
```

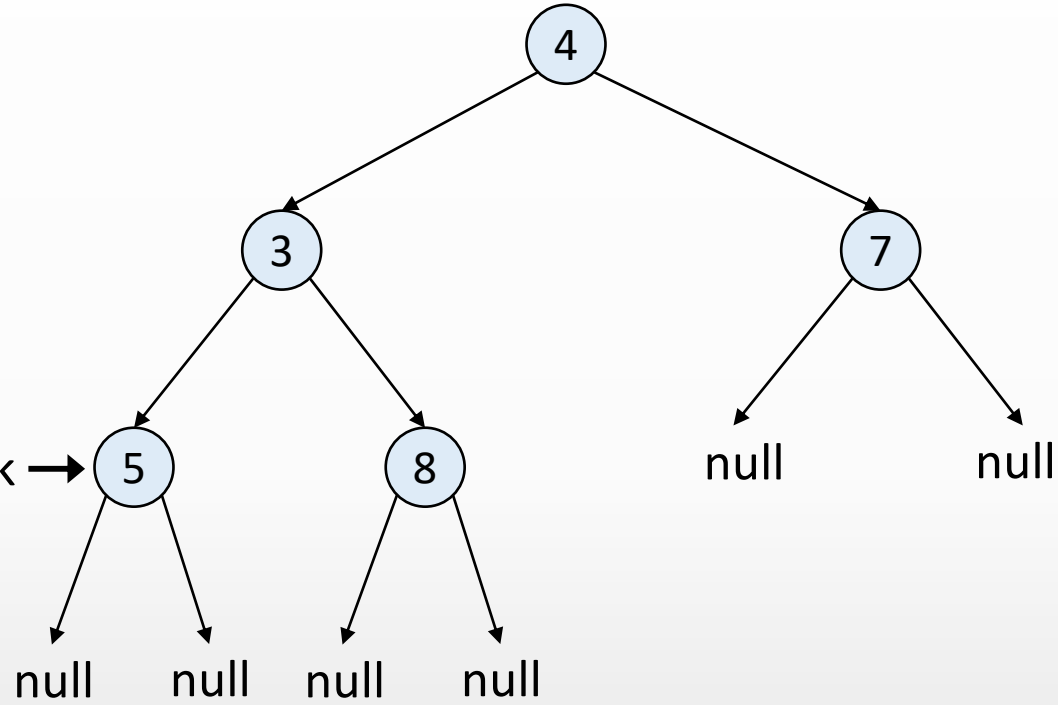


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5	IMV	



```
1 public int enBuyukBul(AgacDugumu kok) {
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8     if(sol > sonuc)
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10    if(sag > sonuc)
11        sonuc = sag;
12    return sonuc;
13 }
```

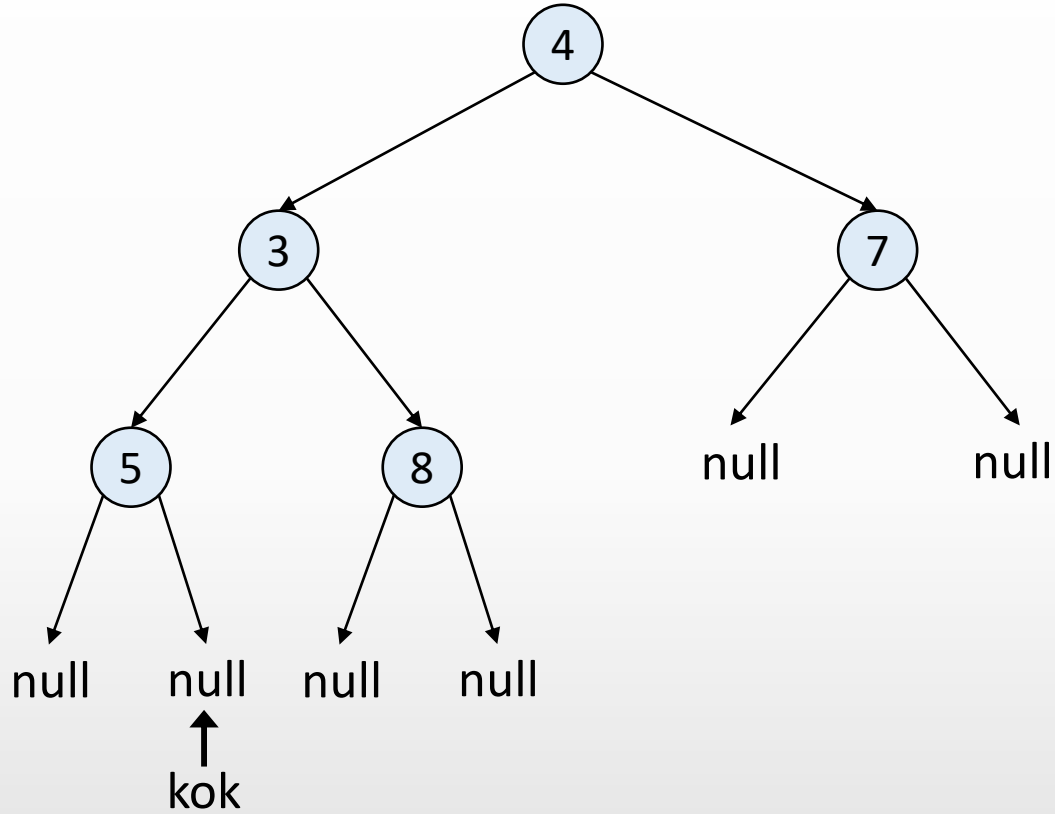


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	



```
1 public int enBuyukBul(AgacDugumu kok) {
2     if(kok == null) {
3         return Integer.MIN_VALUE;
4     }
5     int sonuc = kok.veri;
6     int sol = enBuyukBul(kok.sol);
7     int sag = enBuyukBul(kok.sag);
8     if(sol > sonuc)
9         sonuc = sol;
10    if(sag > sonuc)
11        sonuc = sag;
12    return sonuc;
13 }
```

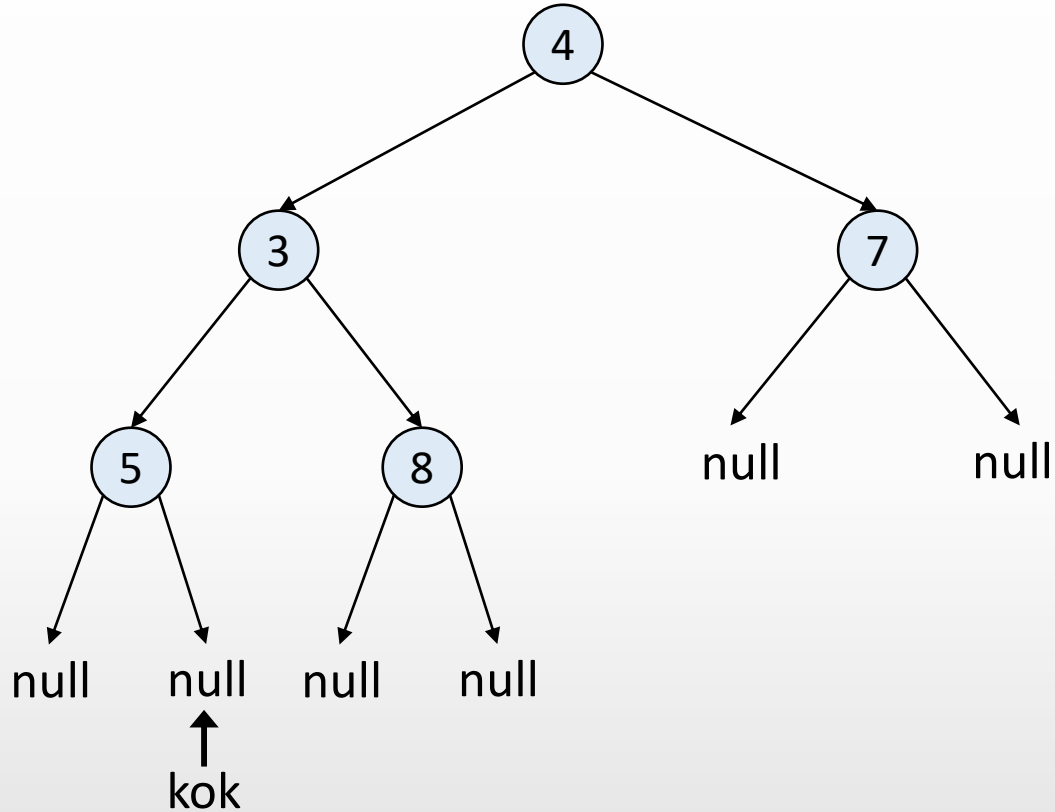


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	
enBuyukBul		null			



```
1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
3     return Integer.MIN_VALUE;
4   }
5   int sonuc = kok.veri;
6   int sol = enBuyukBul(kok.sol);
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8   if(sol > sonuc)
9     sonuc = sol;
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11    sonuc = sag;
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```

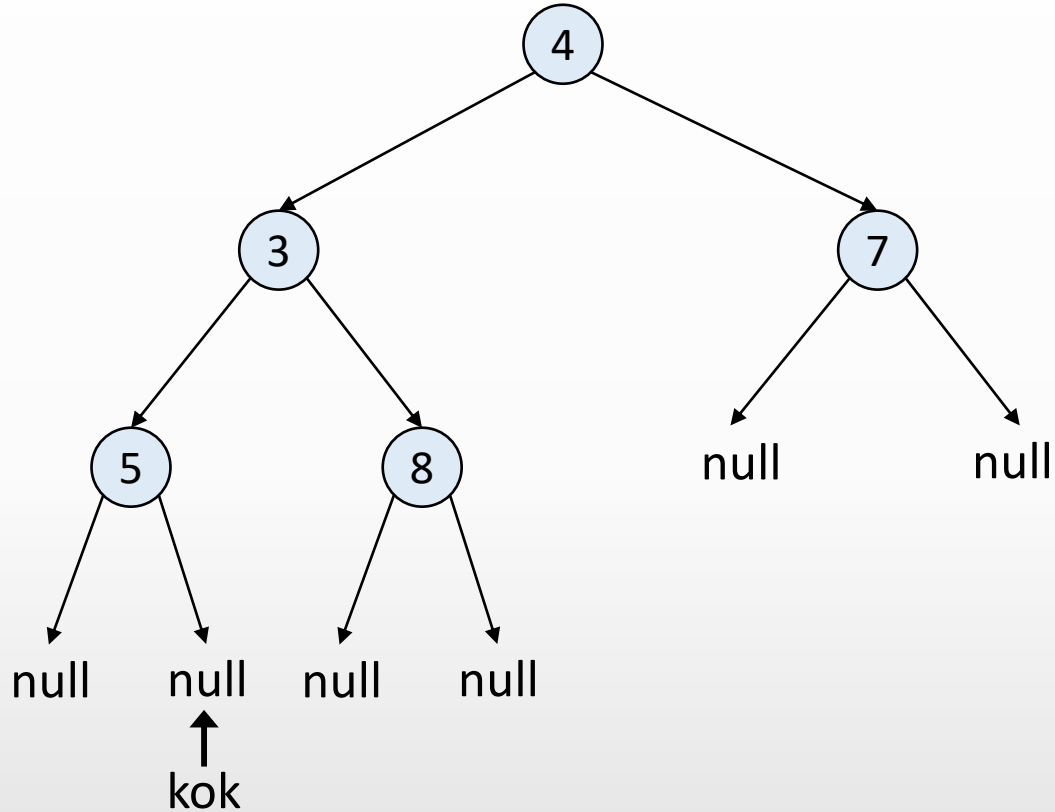


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	
enBuyukBul		null			



```
1 public int enBuyukBul(AgacDugumu kok) {
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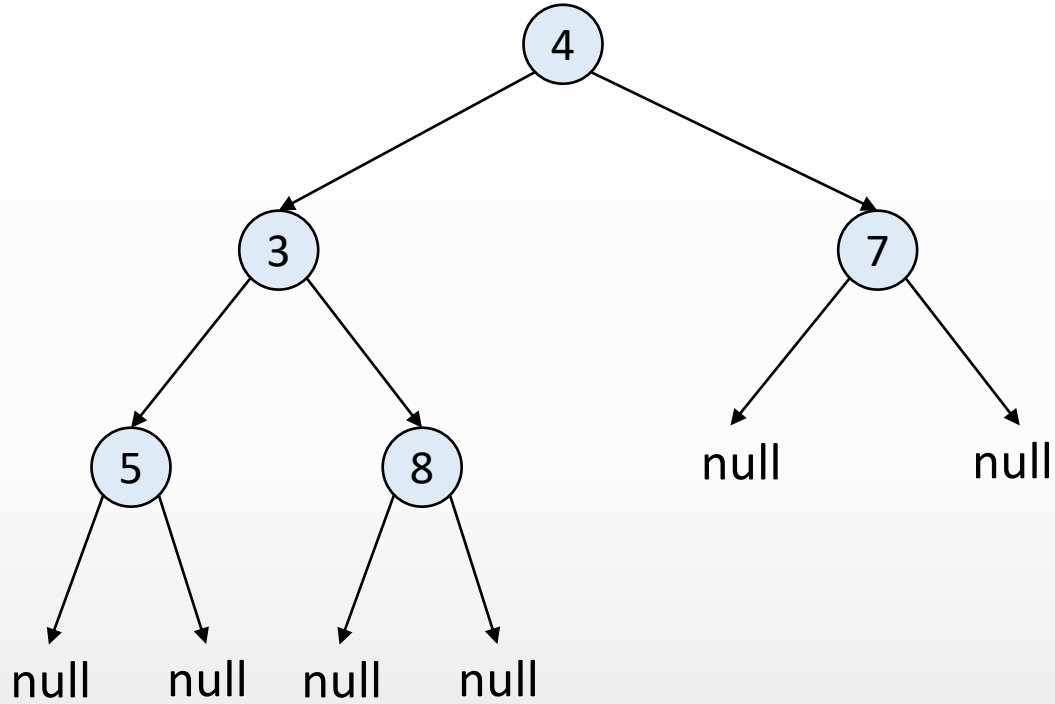


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	
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12  return sonuc;
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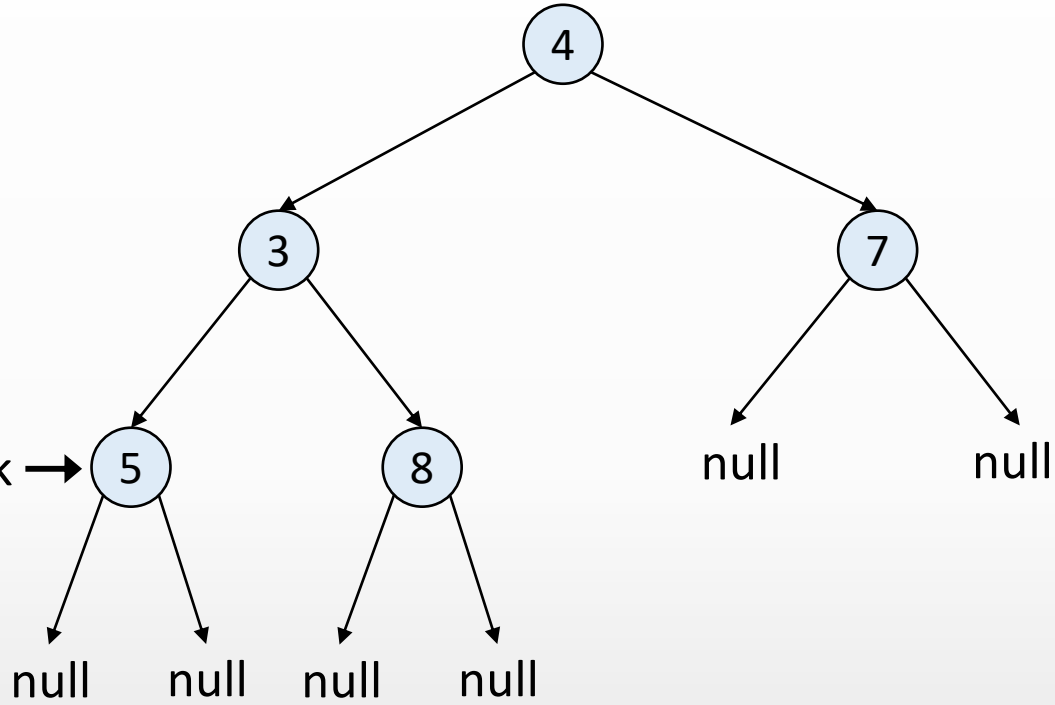


IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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```
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10  if(sag > sonuc)
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```

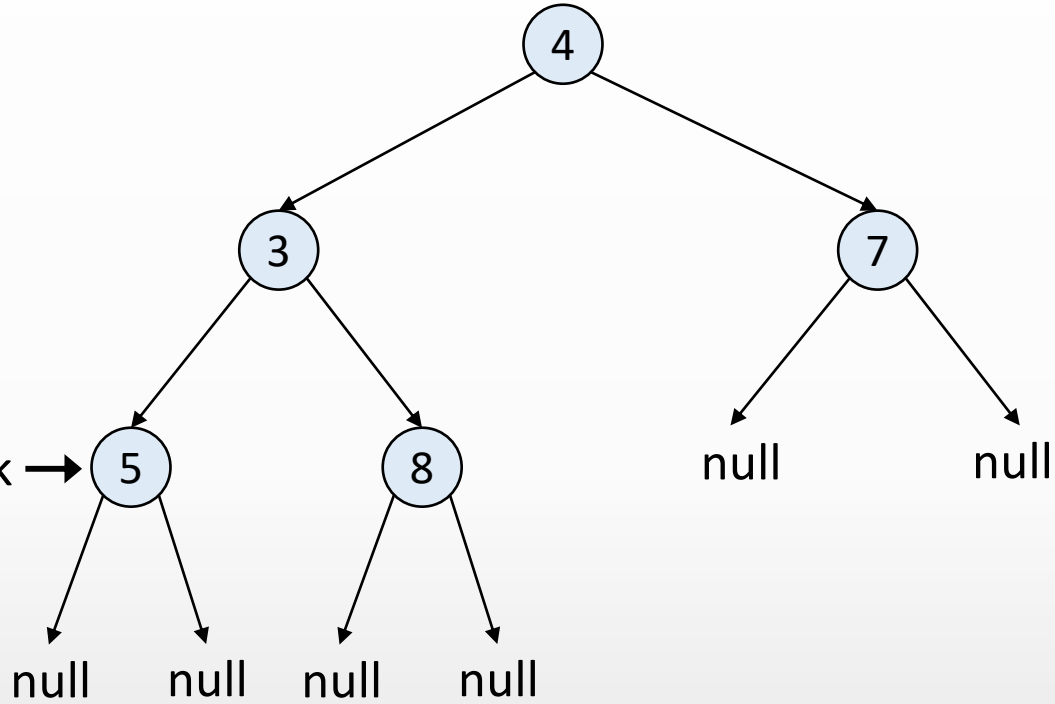
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metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	IMV



```
1 public int enBuyukBul(AgacDugumu kok) {
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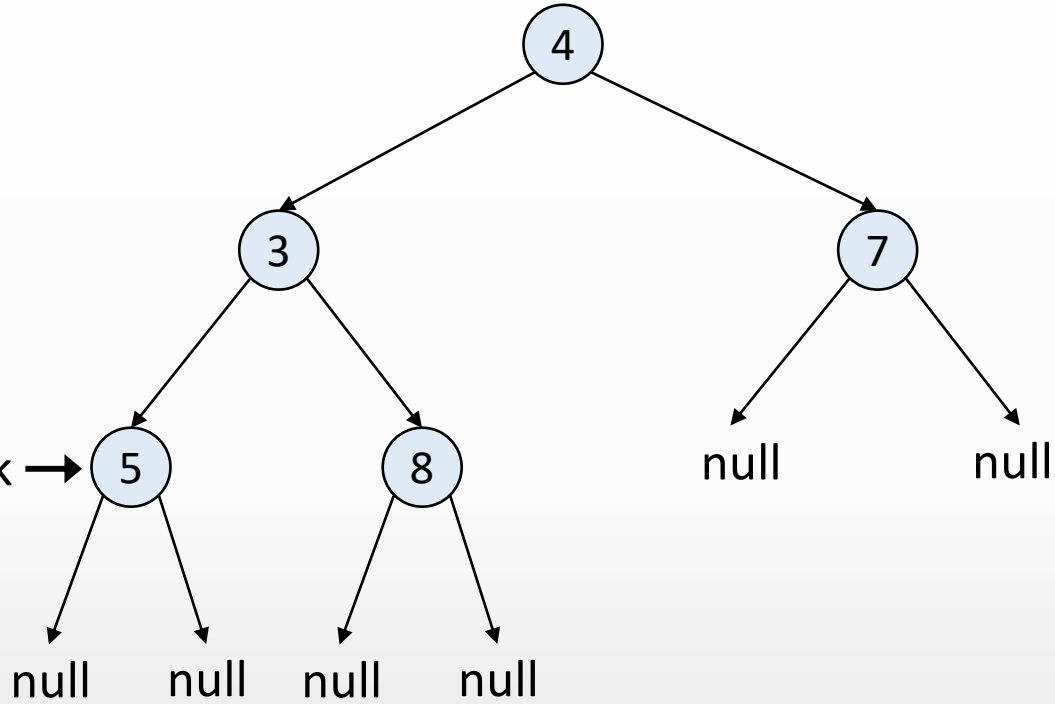
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metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	IMV



```
1 public int enBuyukBul(AgacDugumu kok) {
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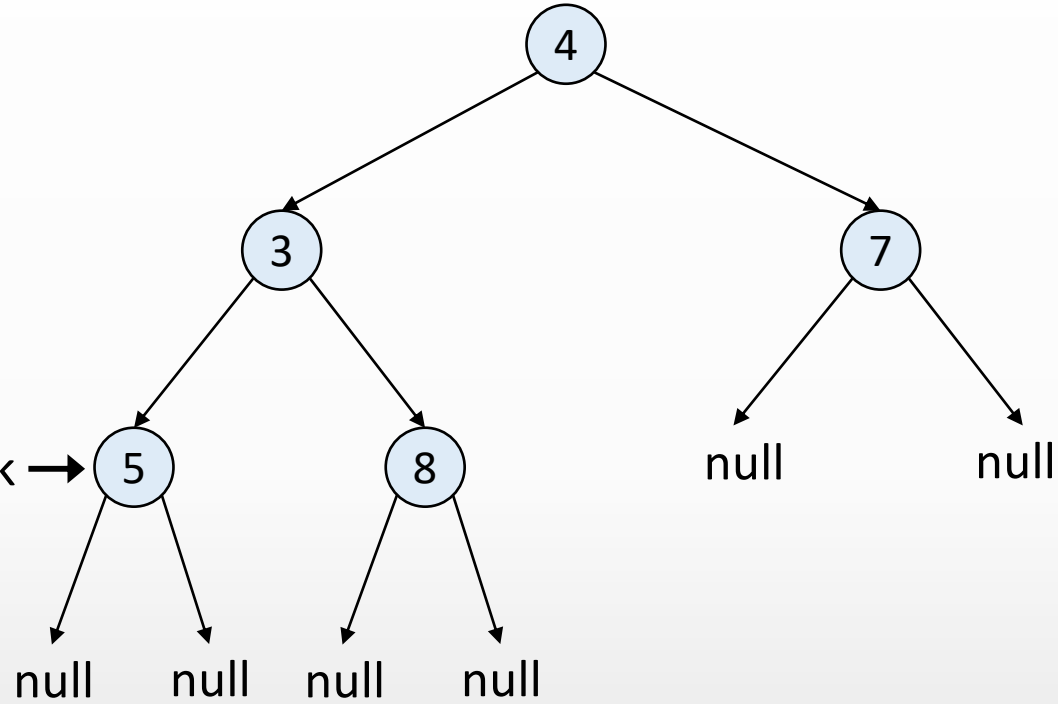
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metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	IMV



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1 public int enBuyukBul(AgacDugumu kok) {
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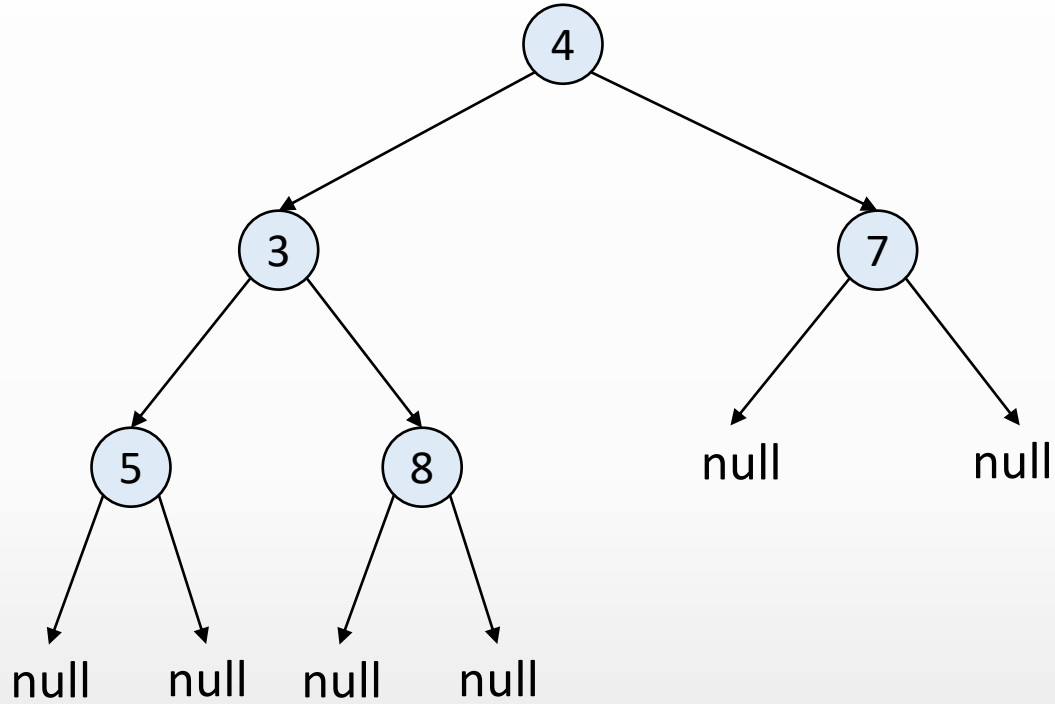
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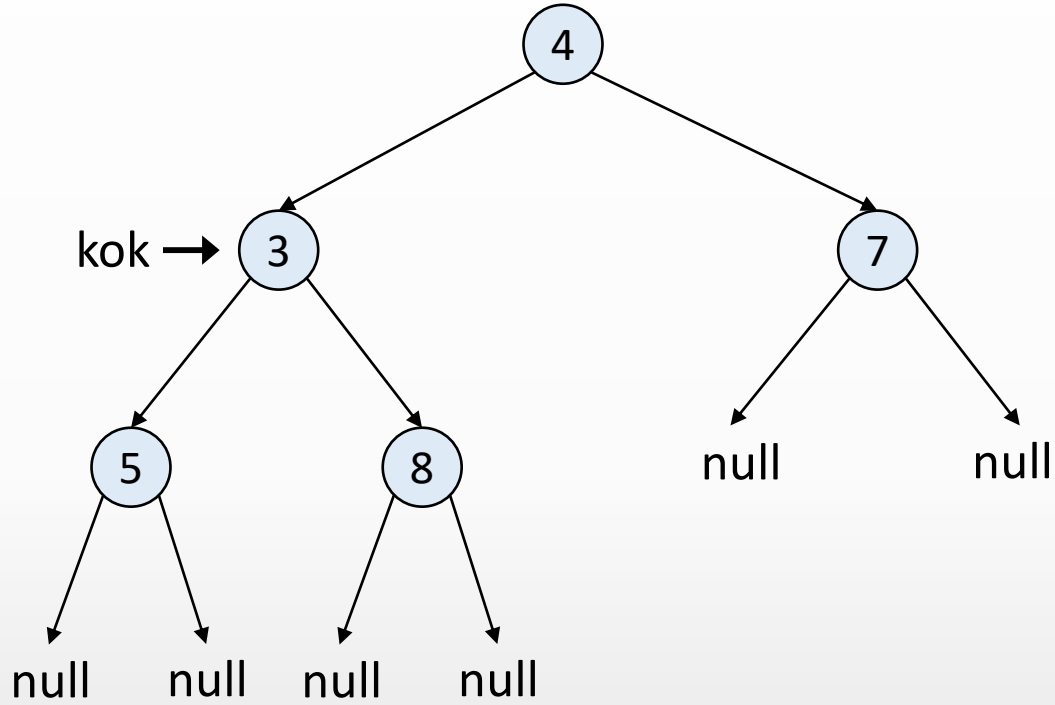


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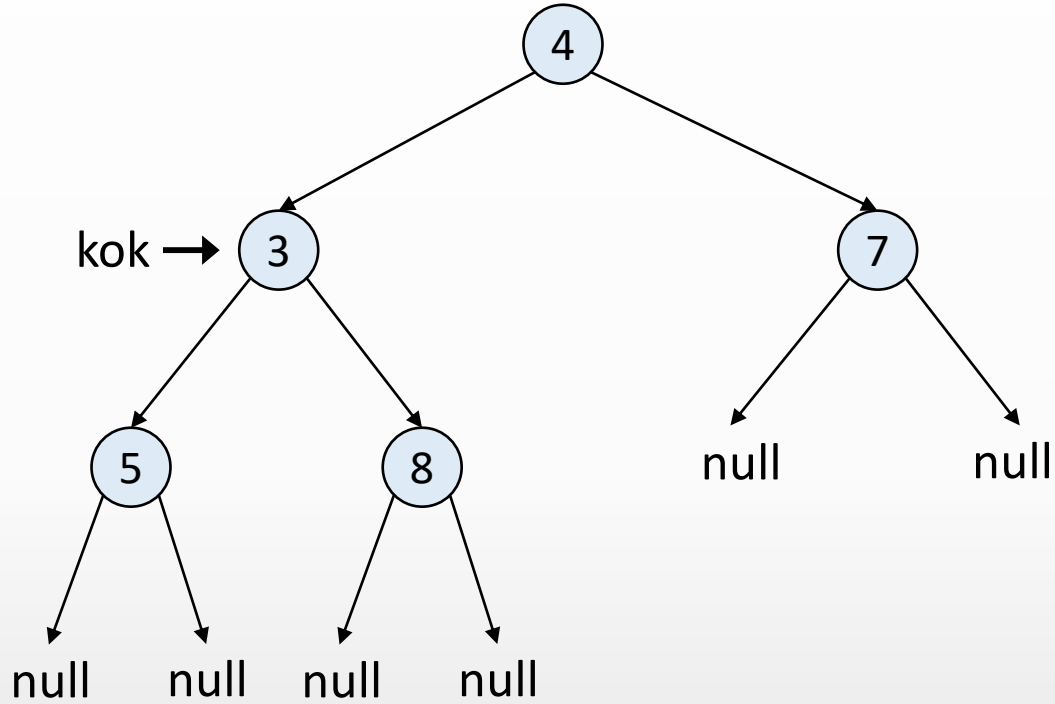
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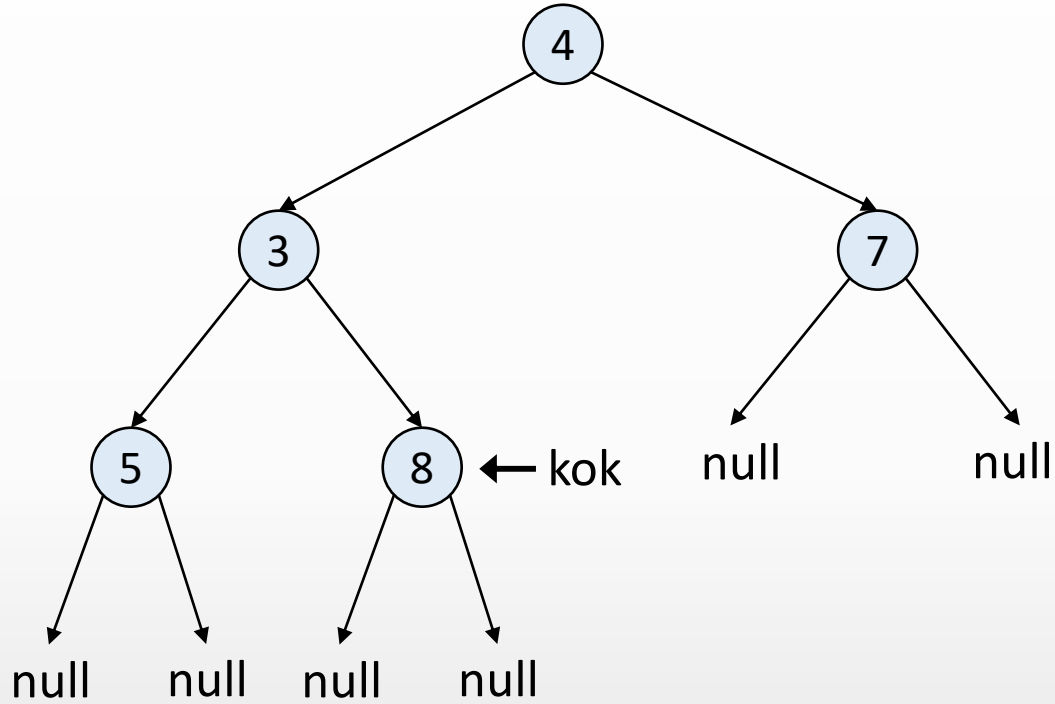
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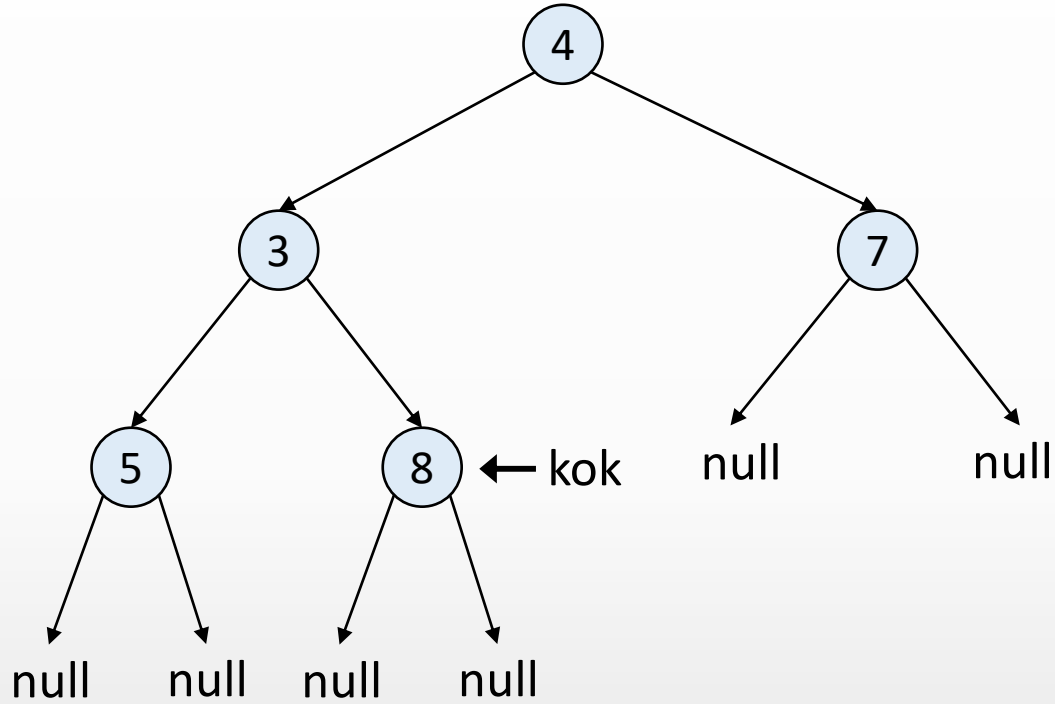
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metot çağırımı	satır no	kok	sonuc	sol	sag
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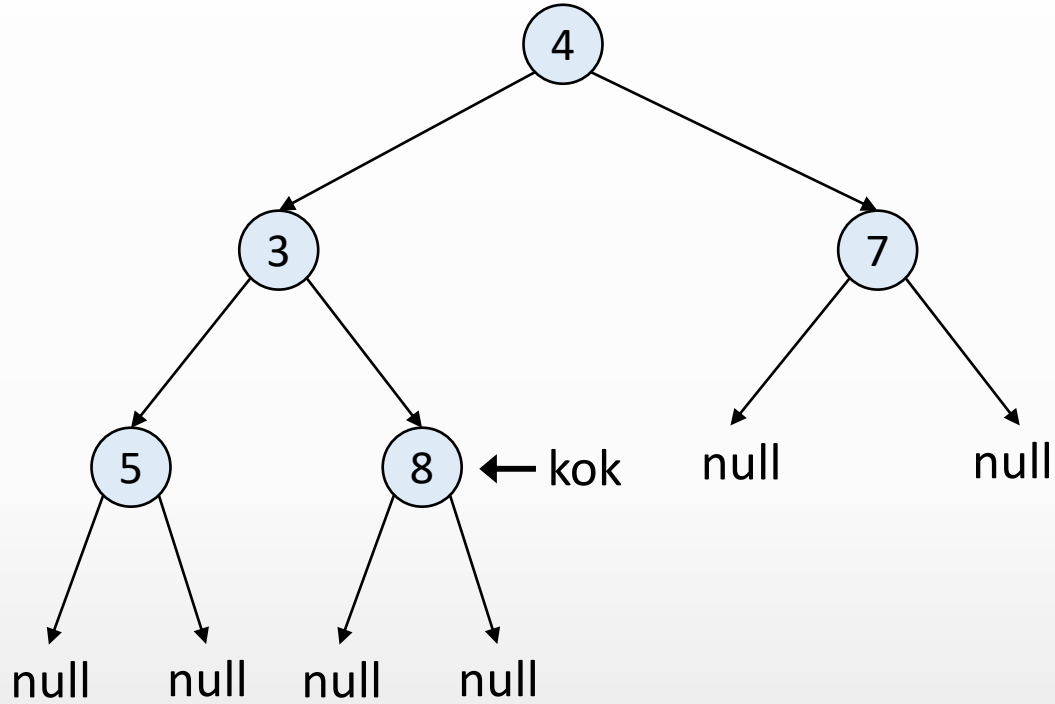



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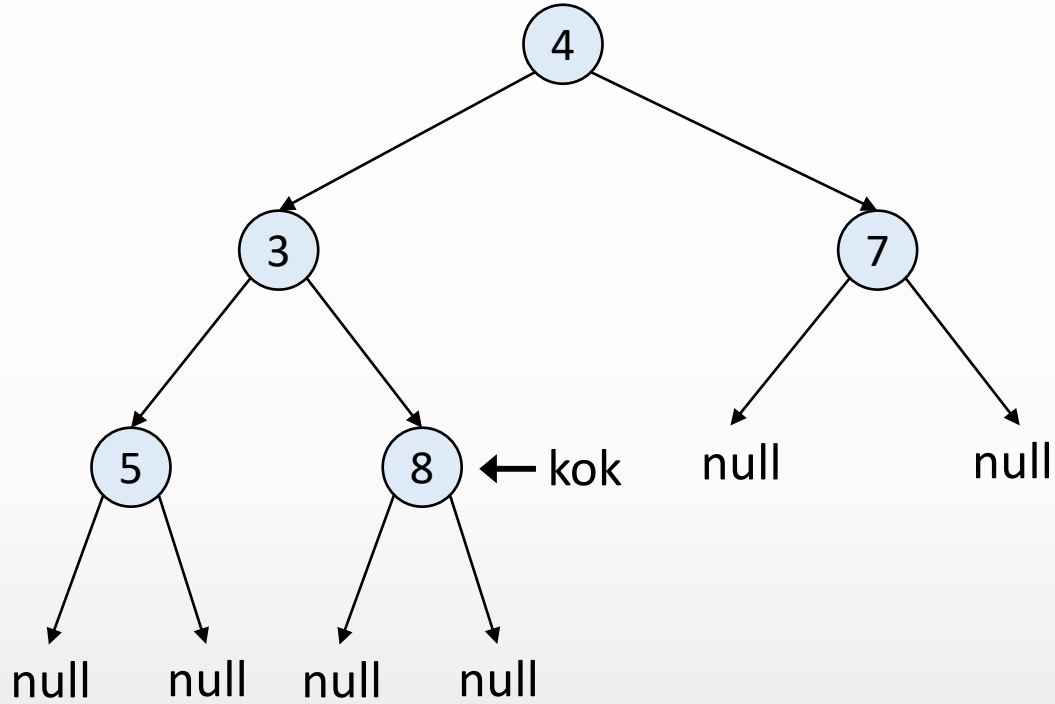
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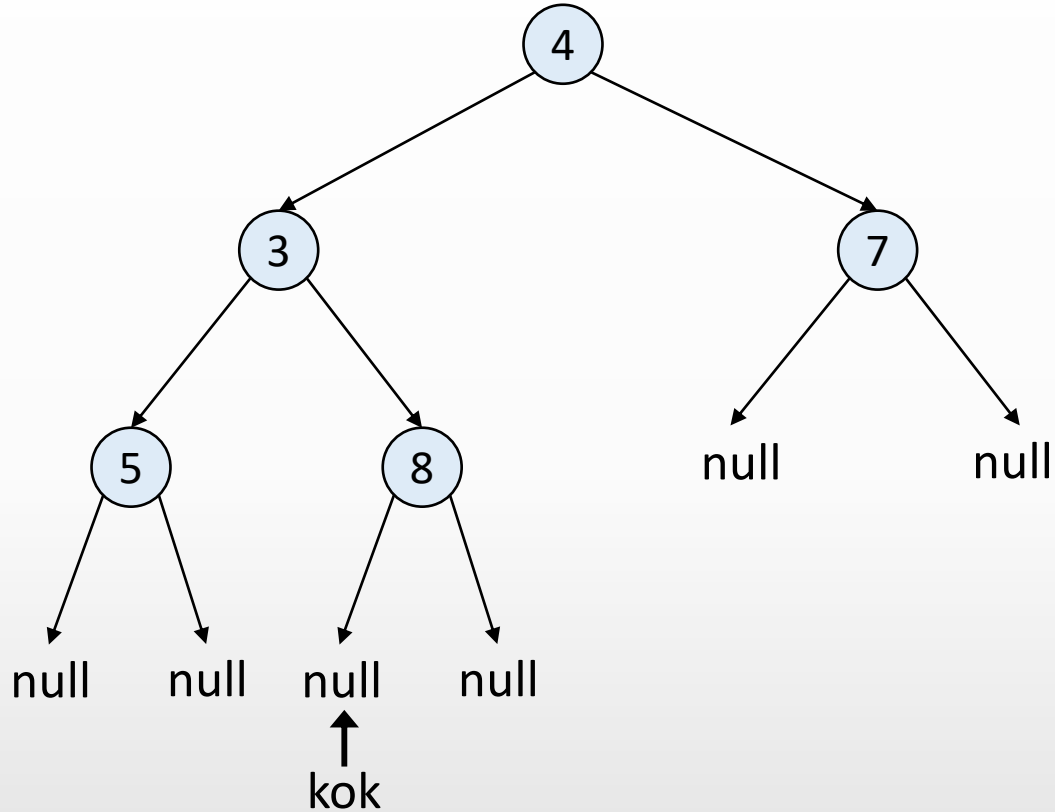
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metot çağırımı	satır no	kok	sonuc	sol	sag
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enBuyukBul	6	8	8		



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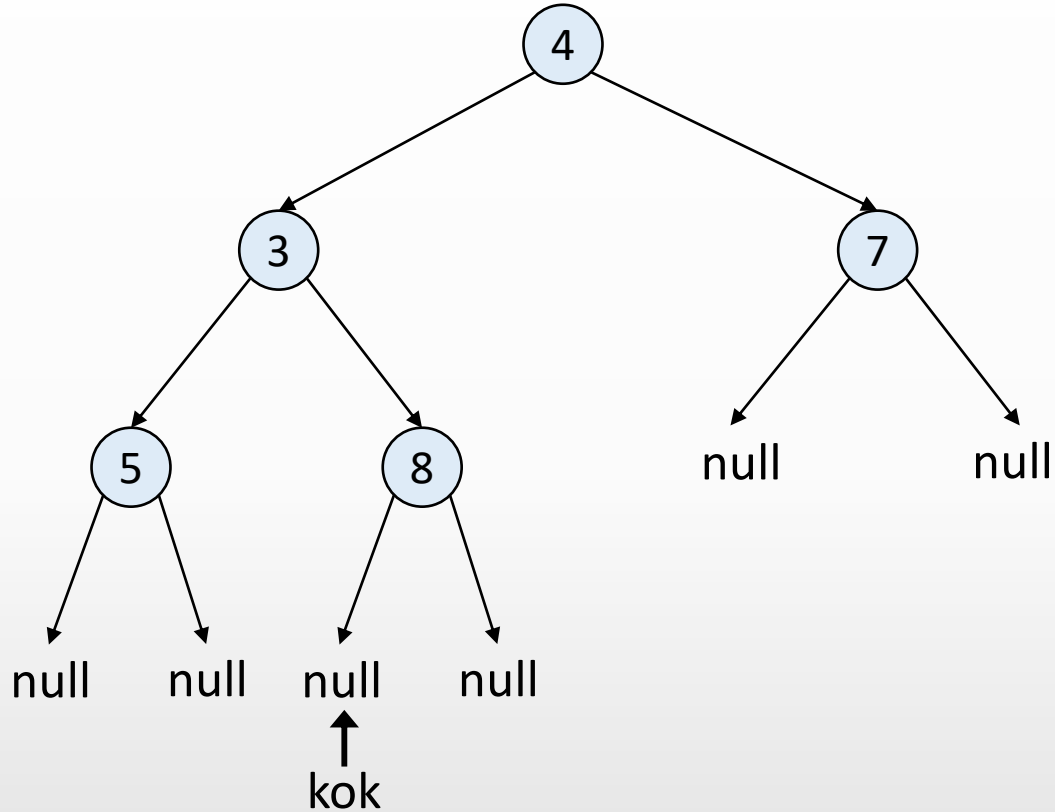


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
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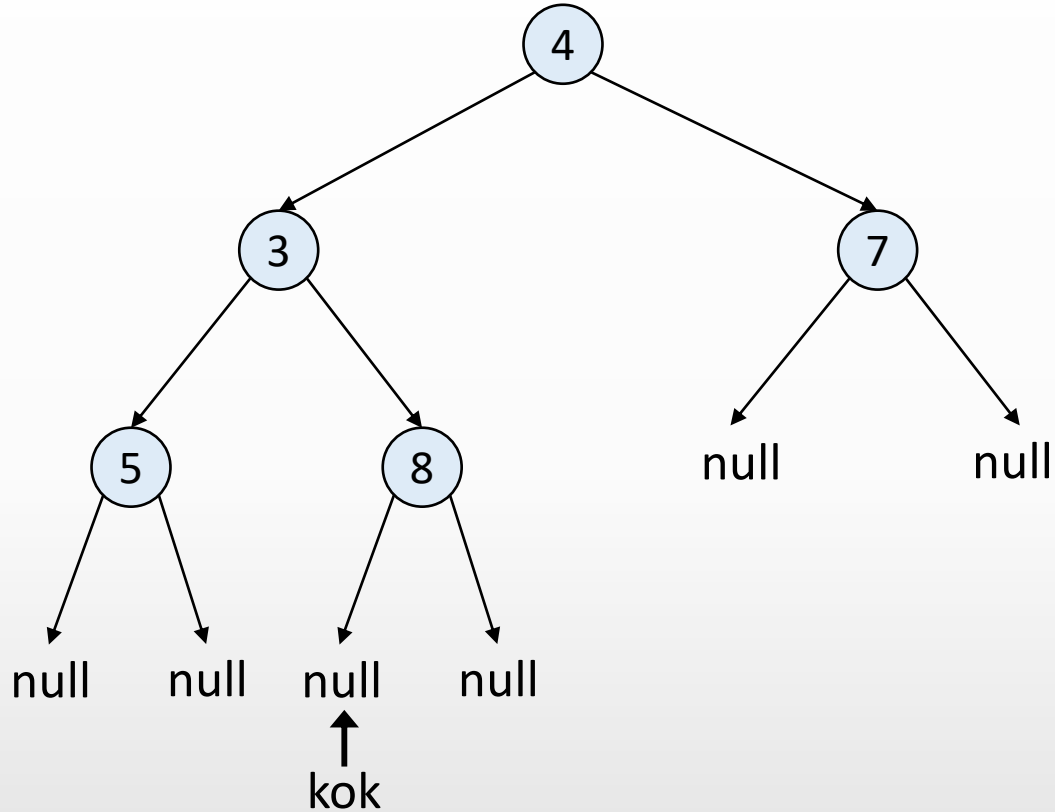


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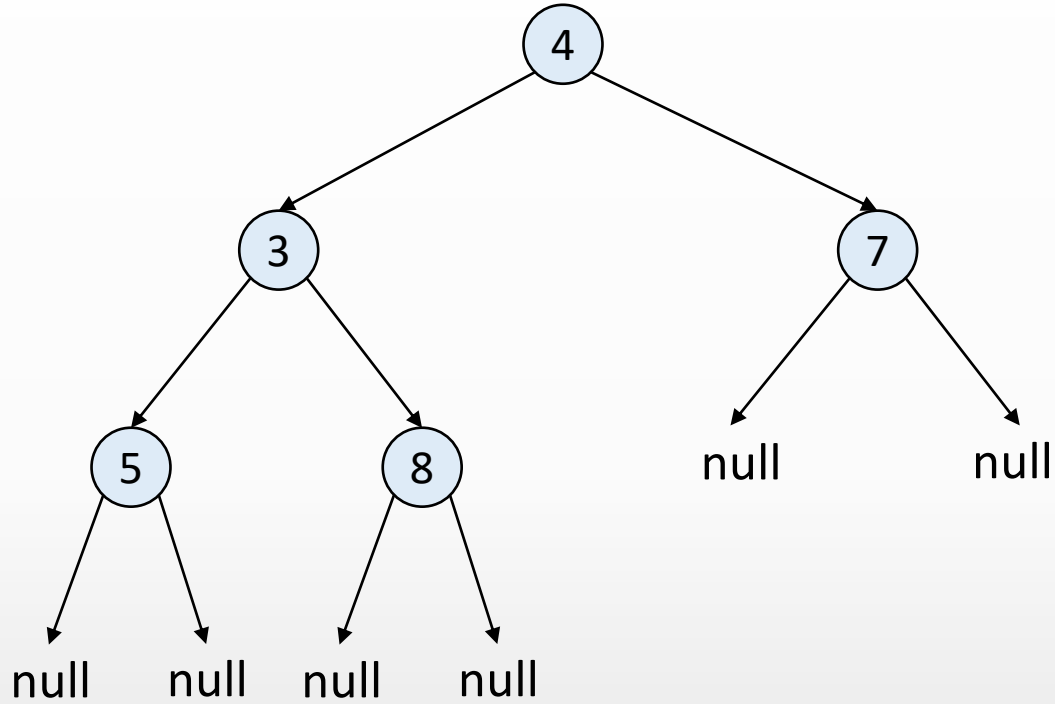
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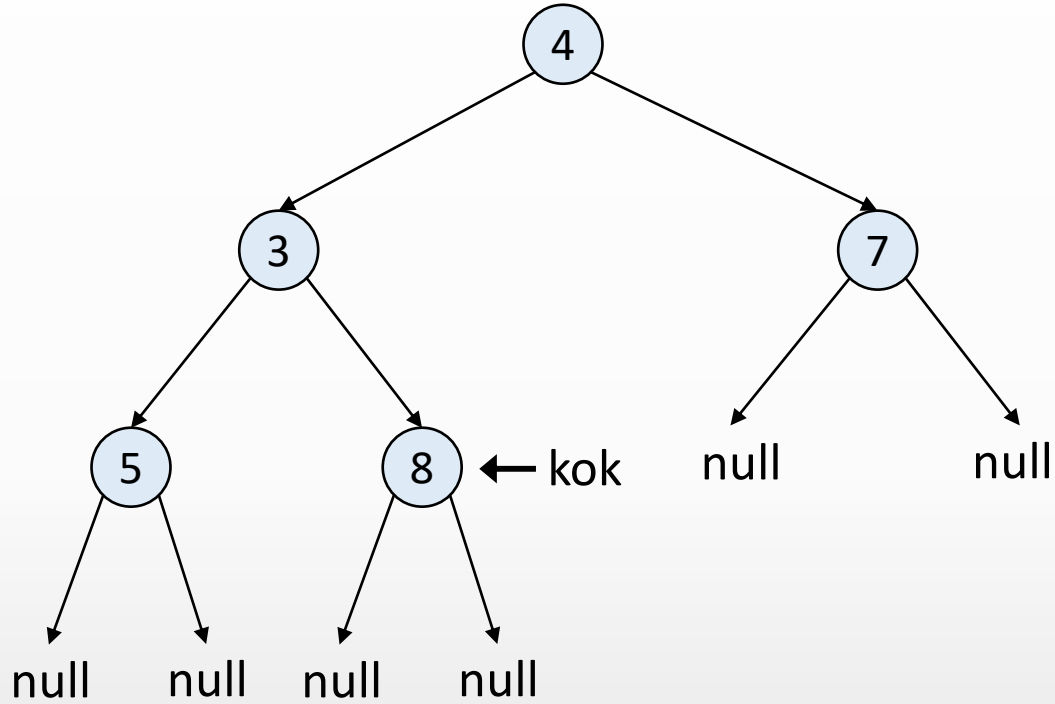


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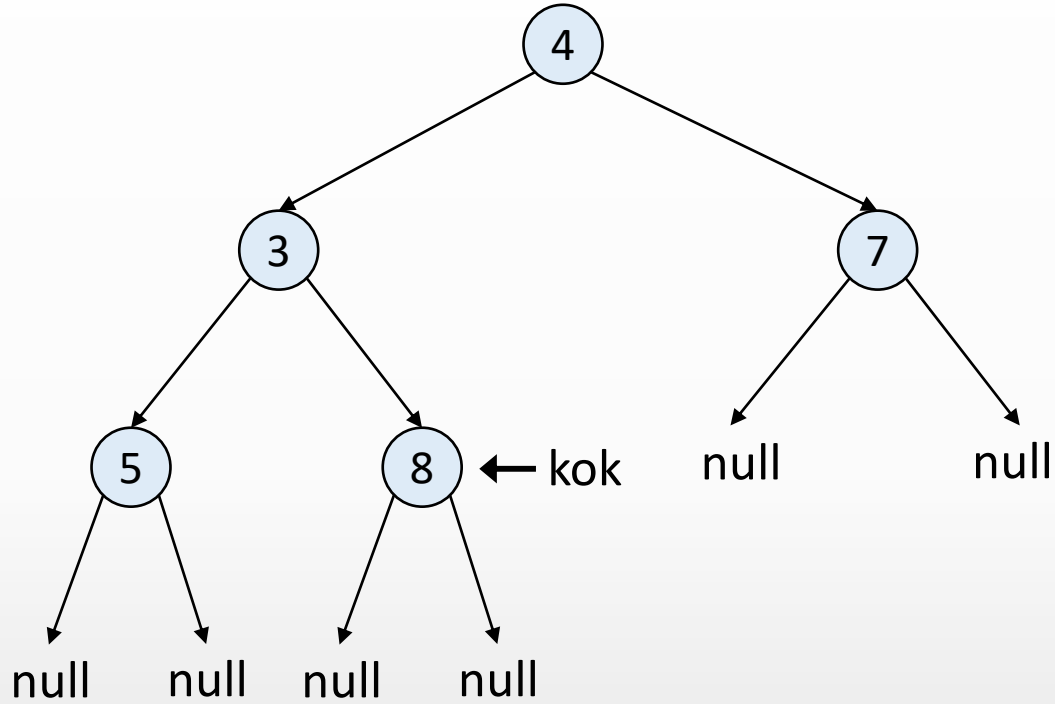
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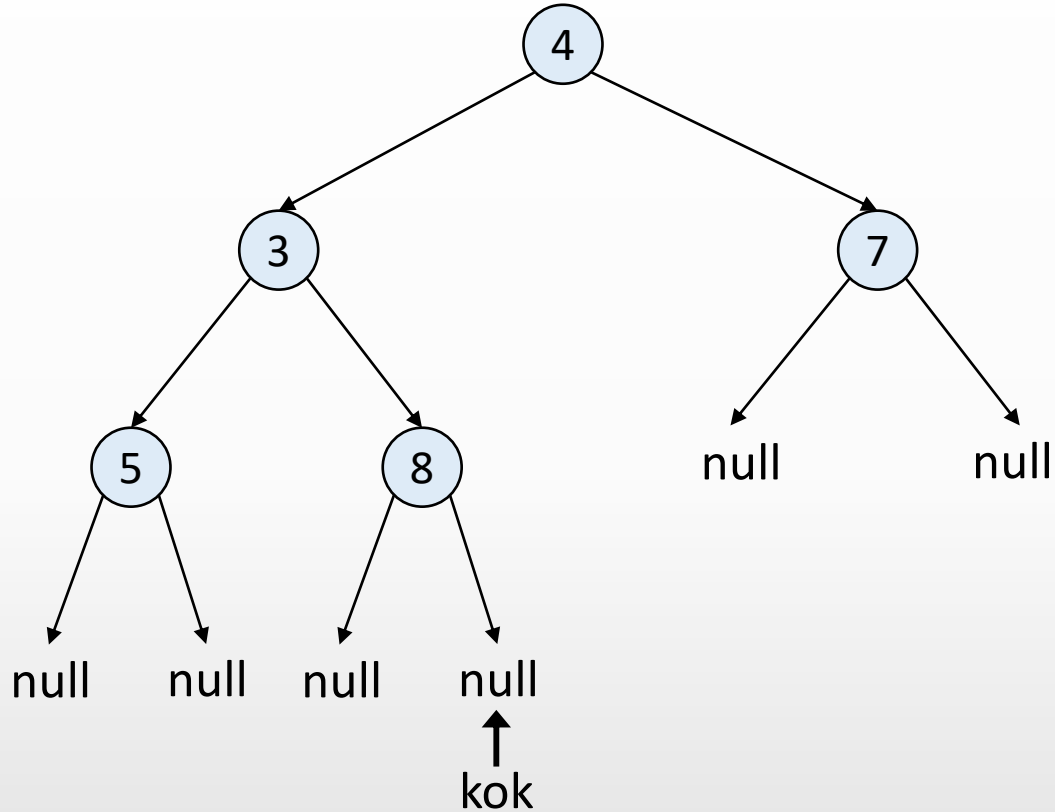
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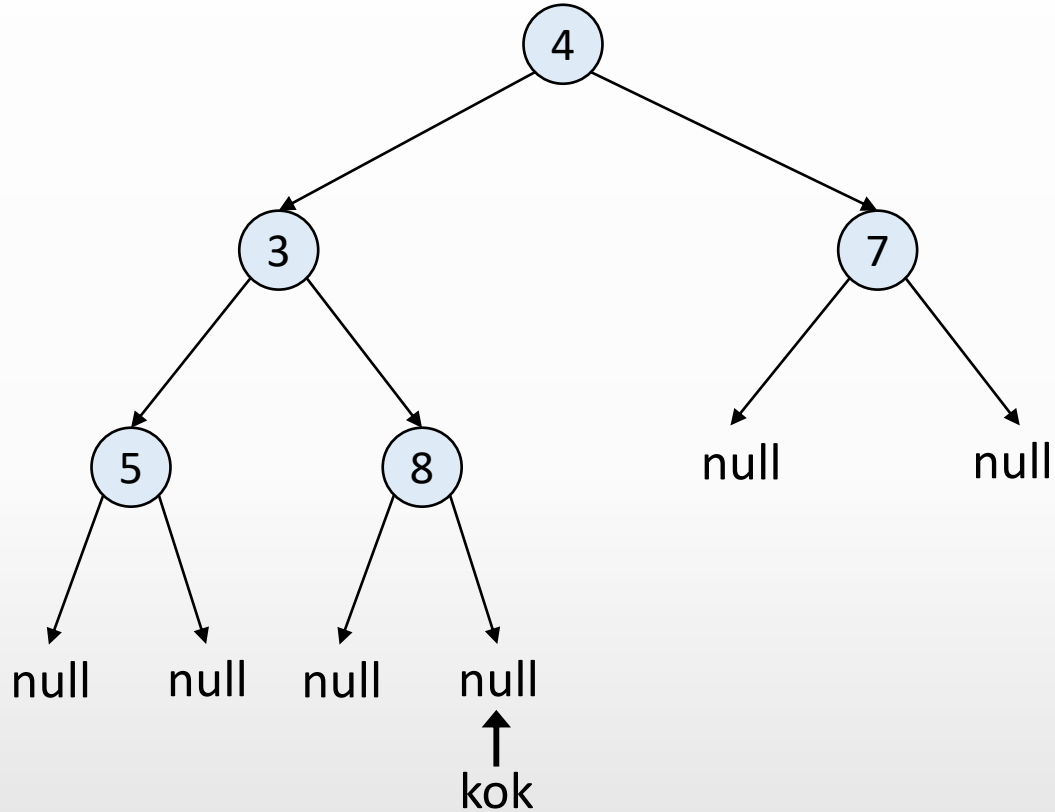


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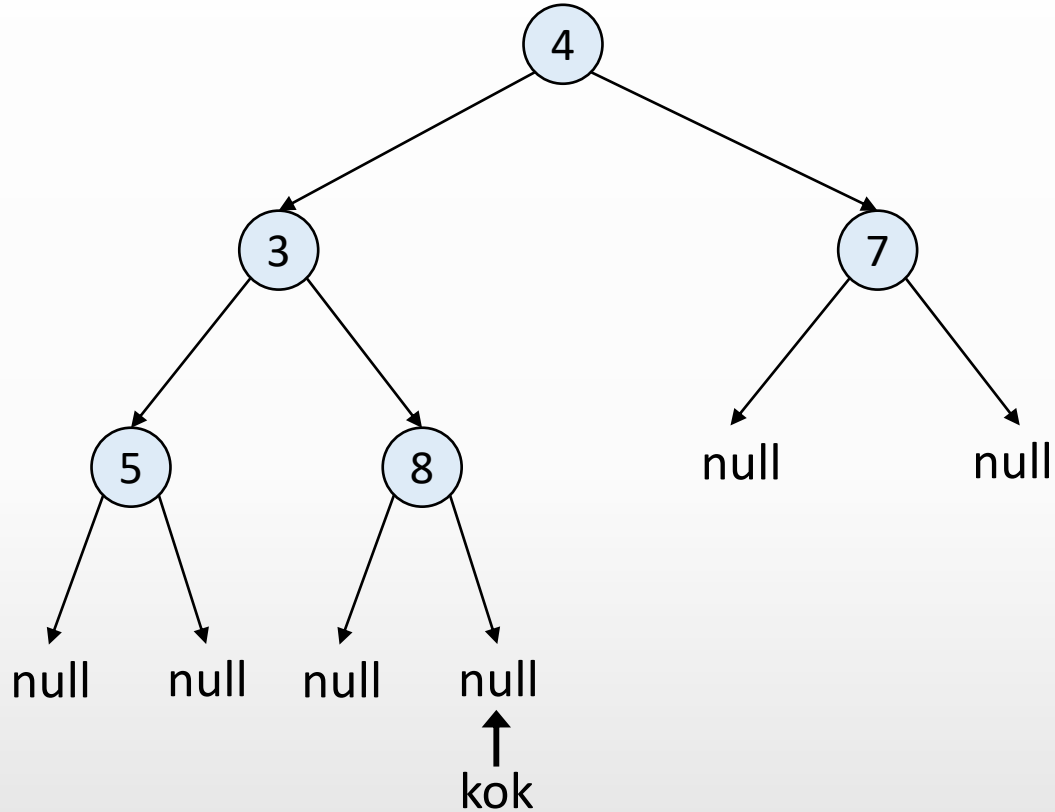
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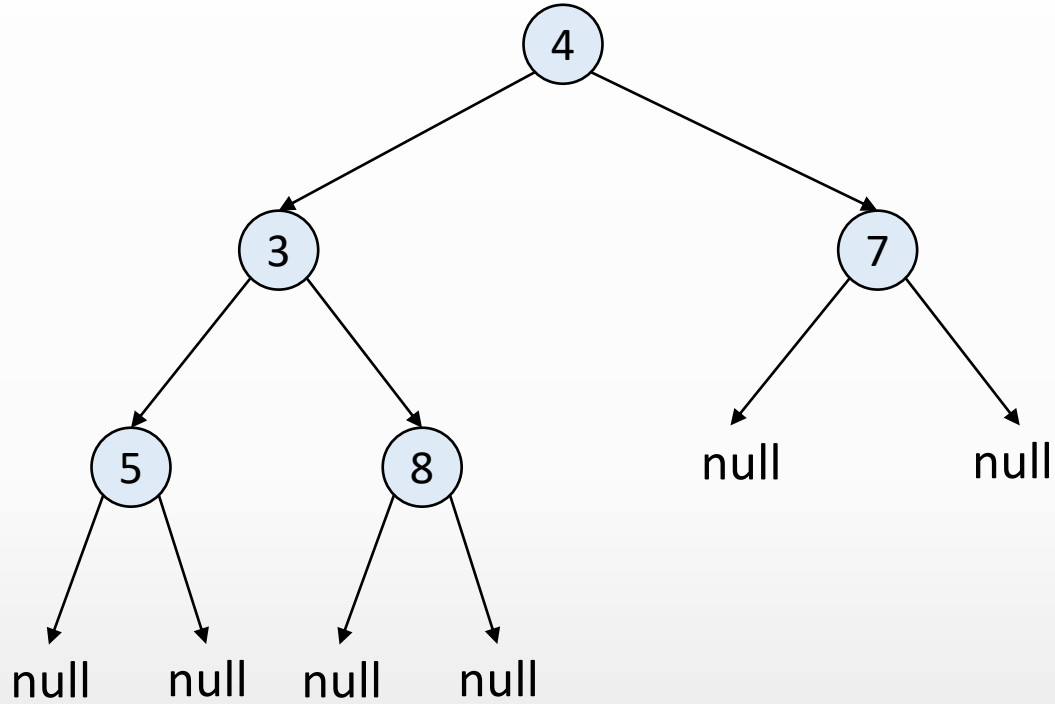
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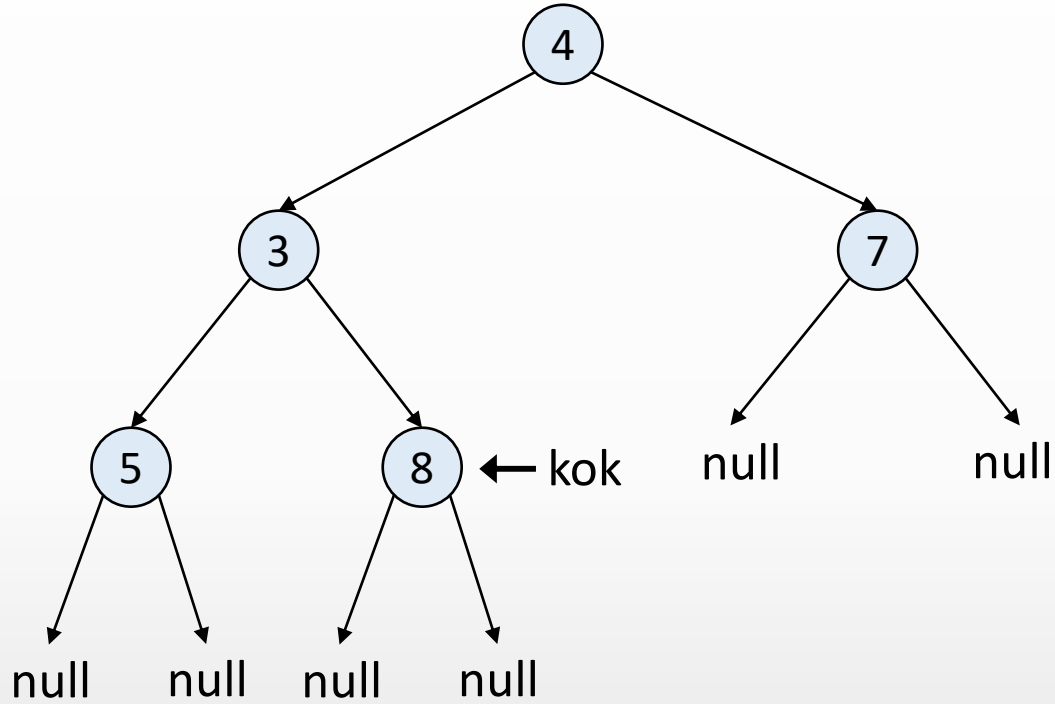


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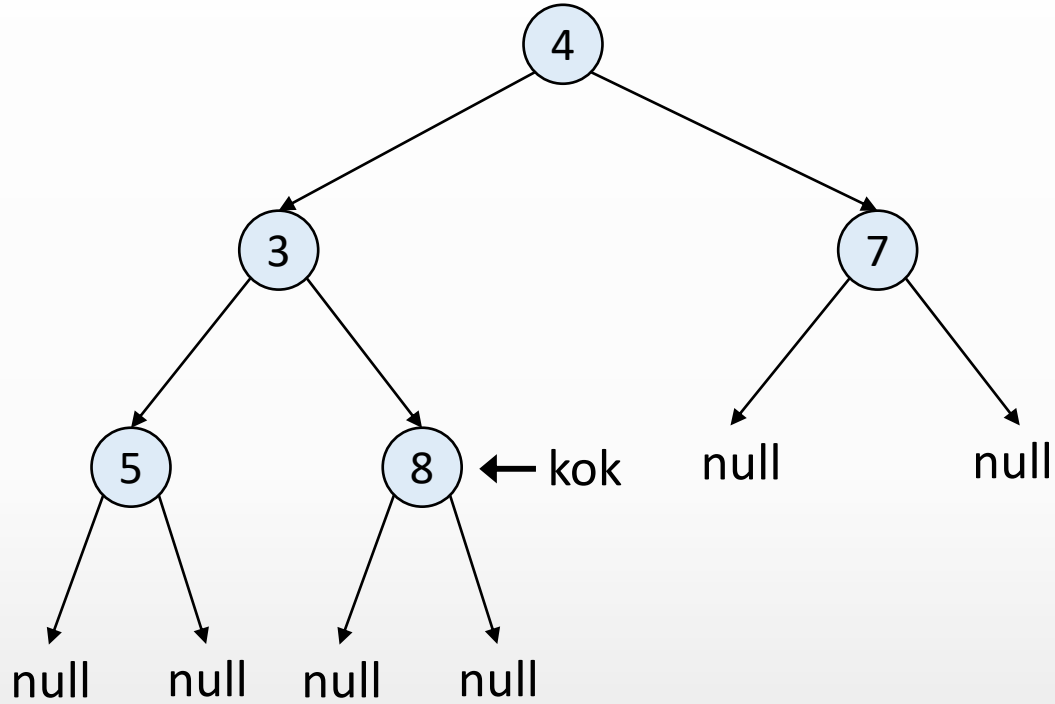
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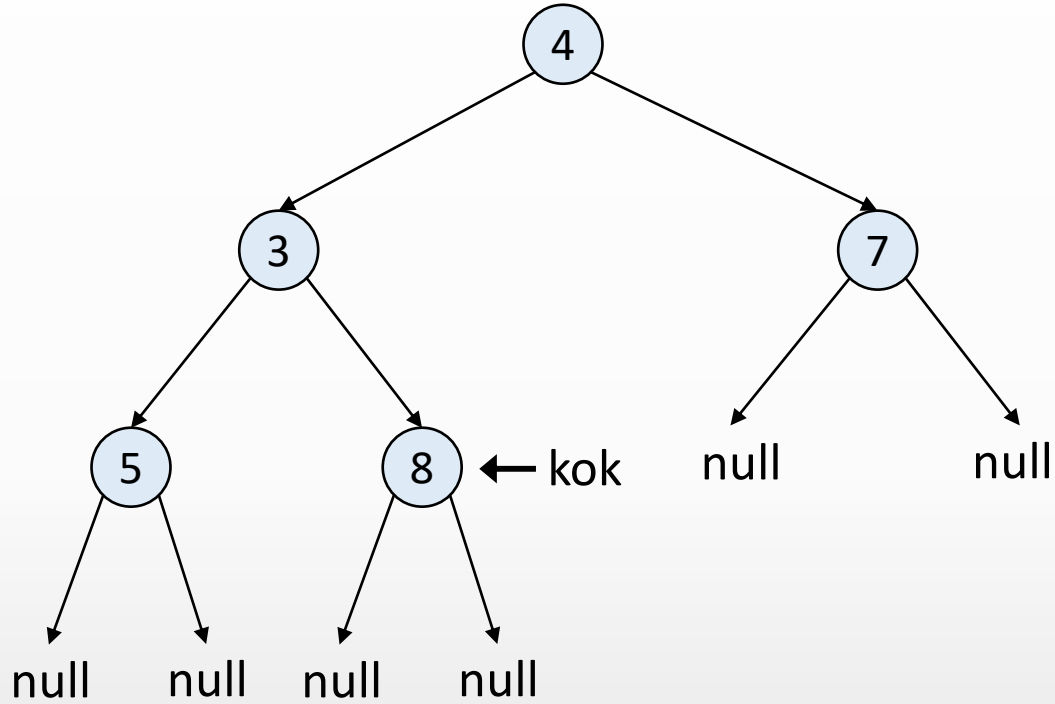
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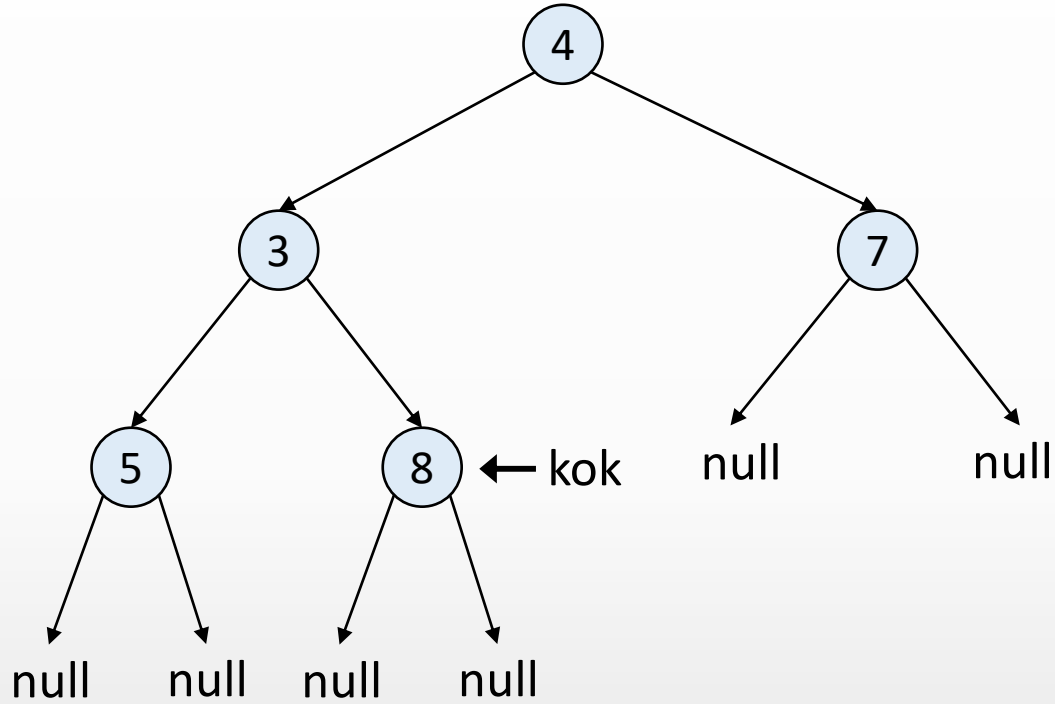
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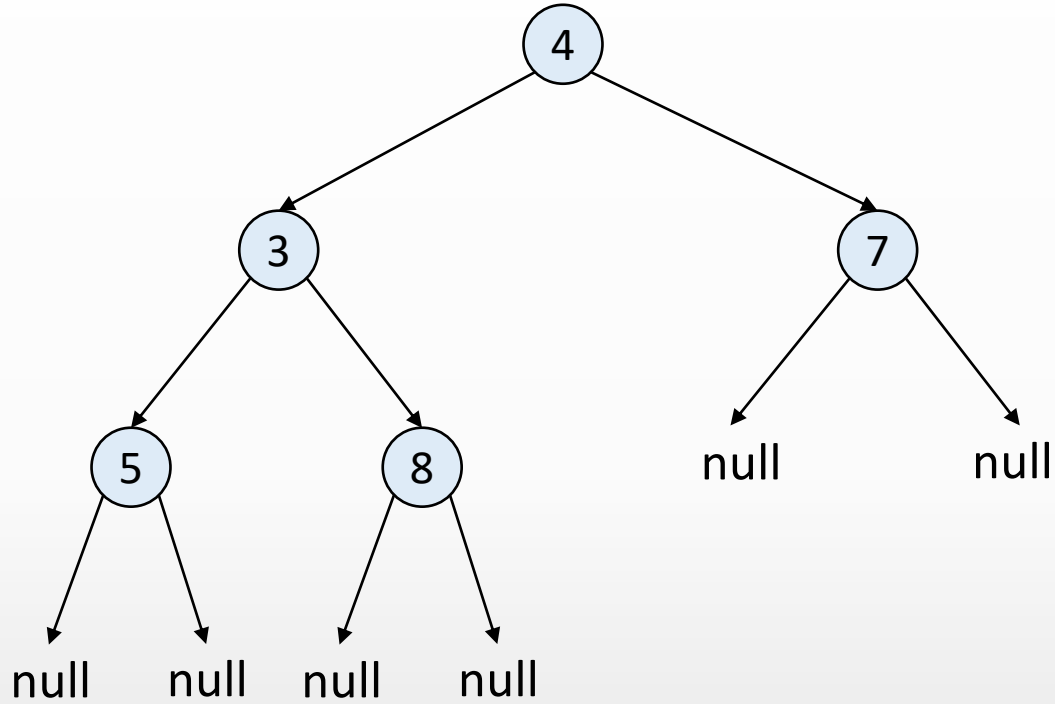
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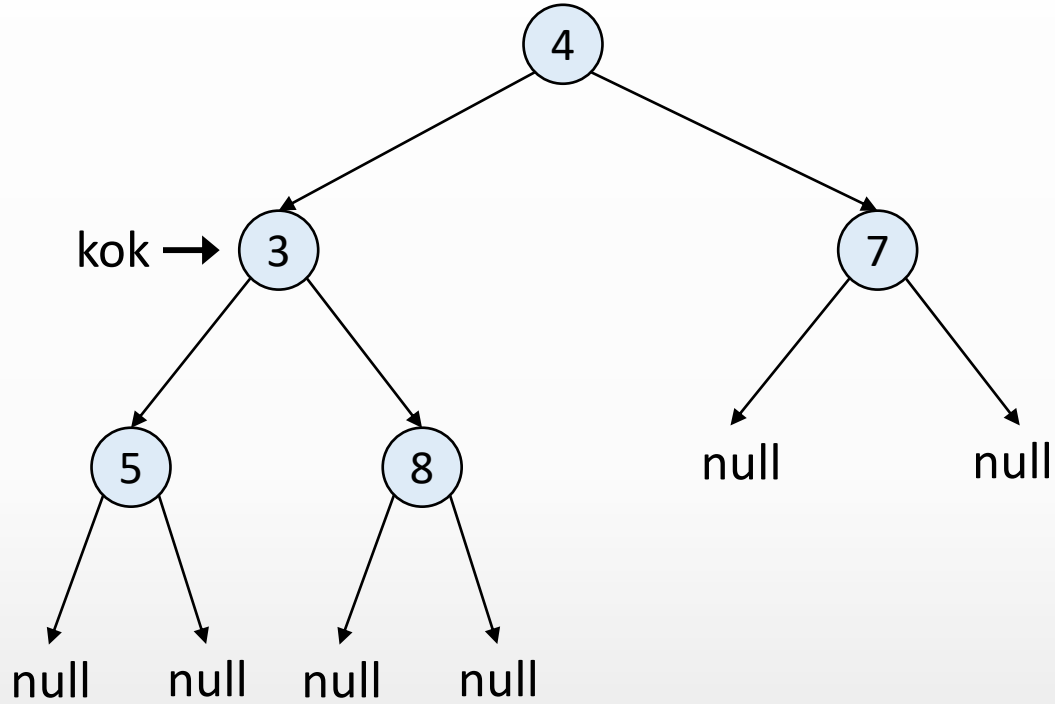


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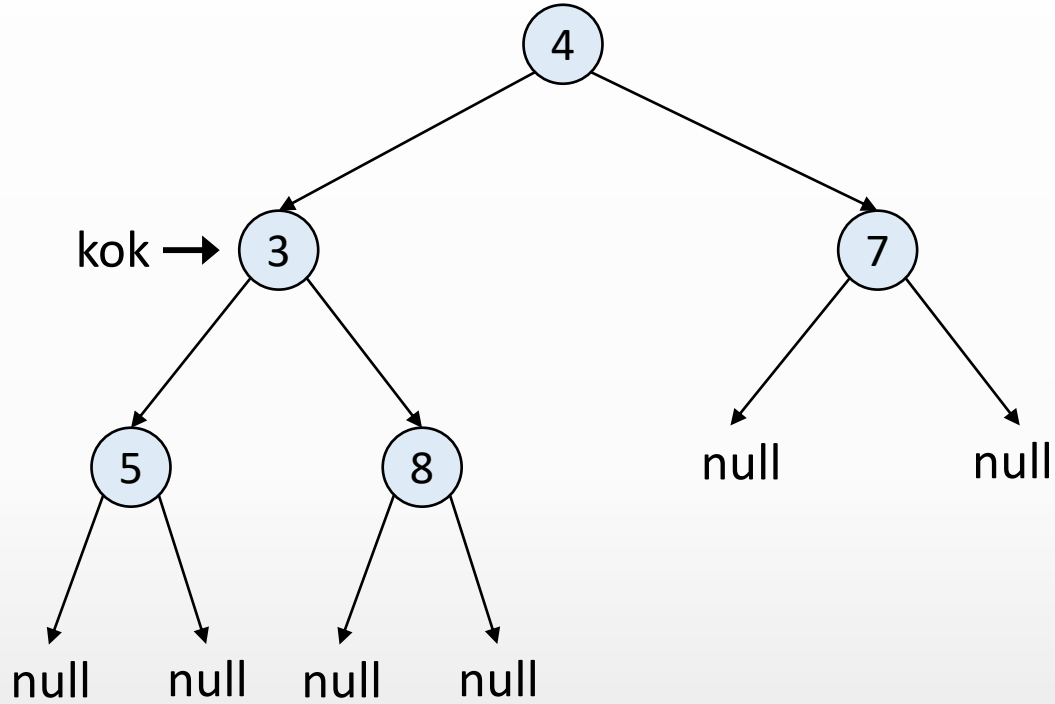
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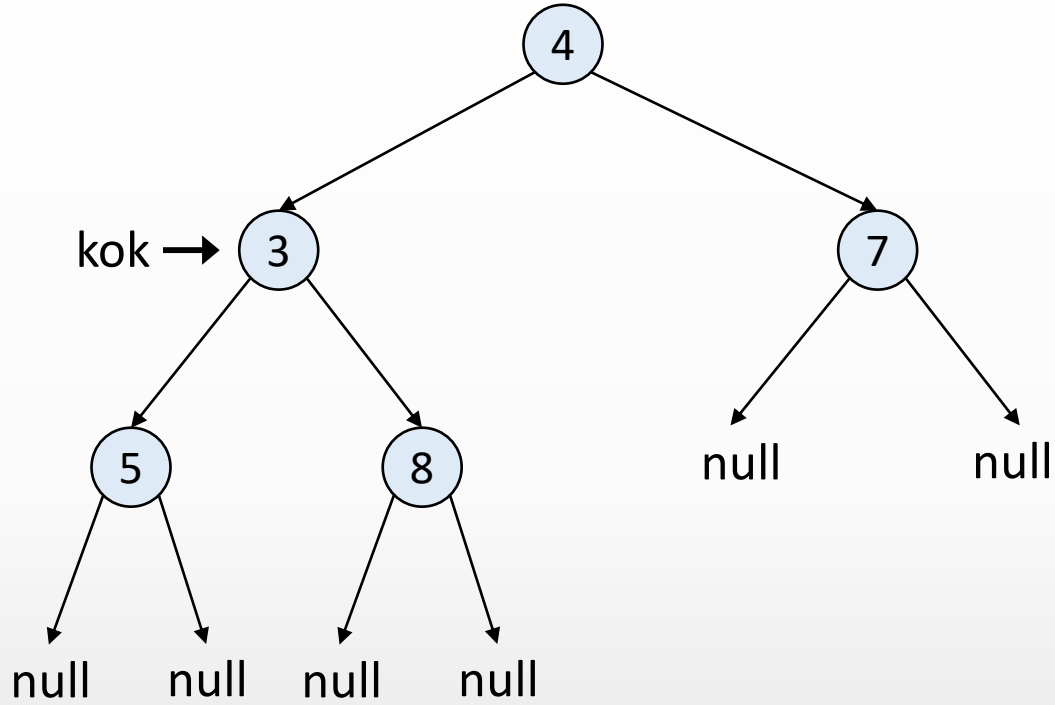
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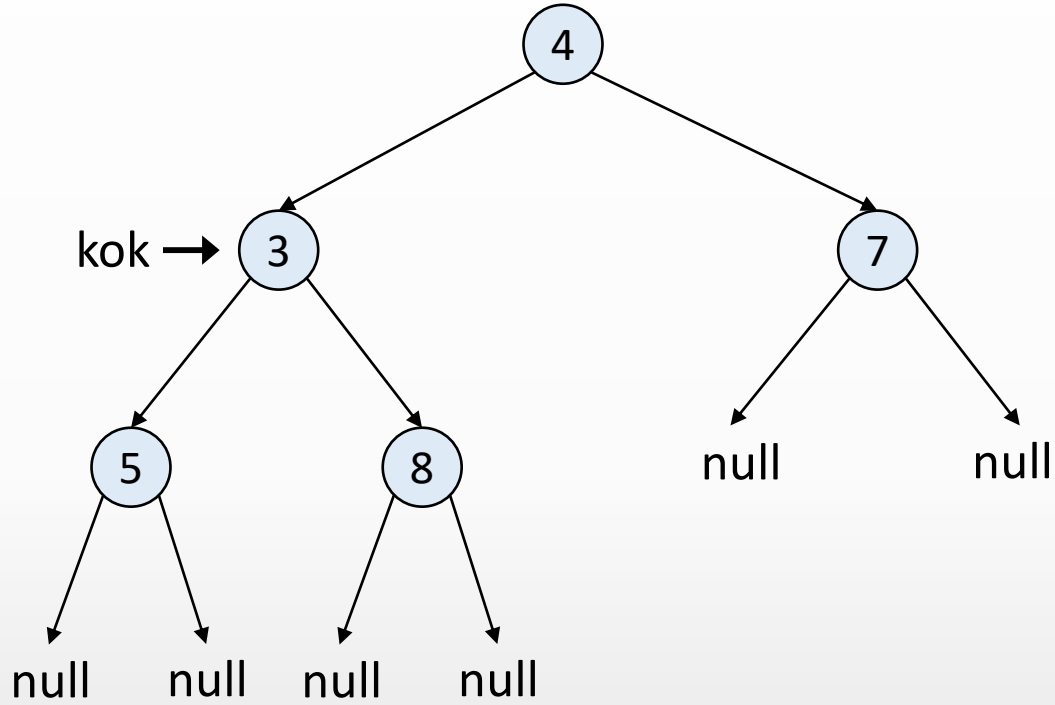
IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	5	5	8



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1 public int enBuyukBul(AgacDugumu kok) {
2   if(kok == null) {
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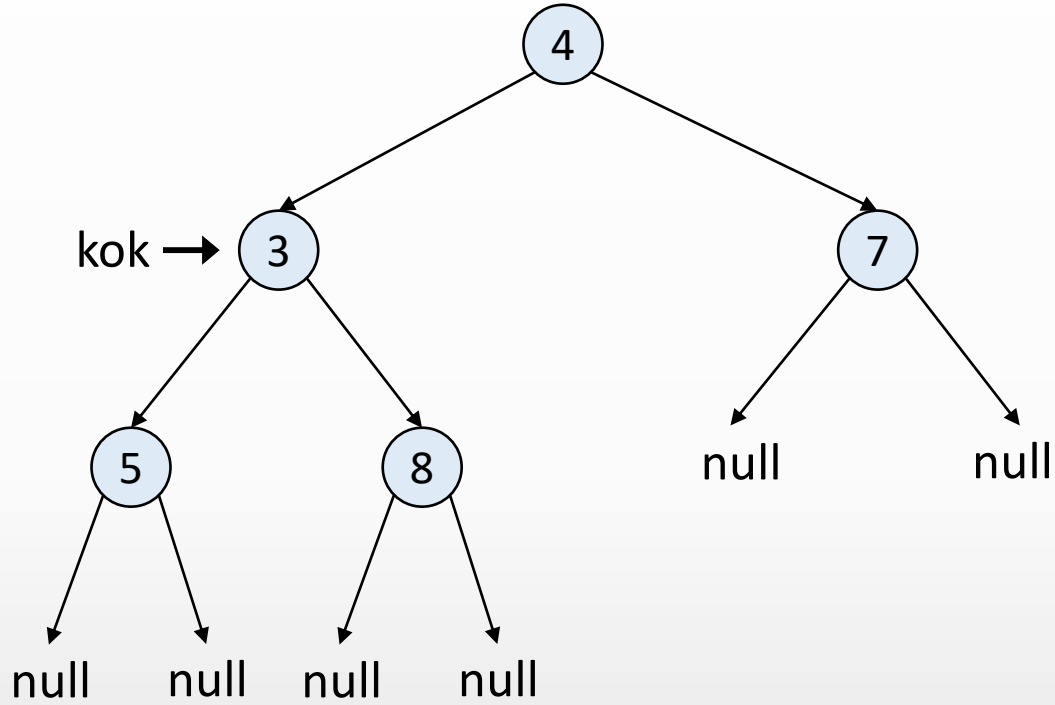
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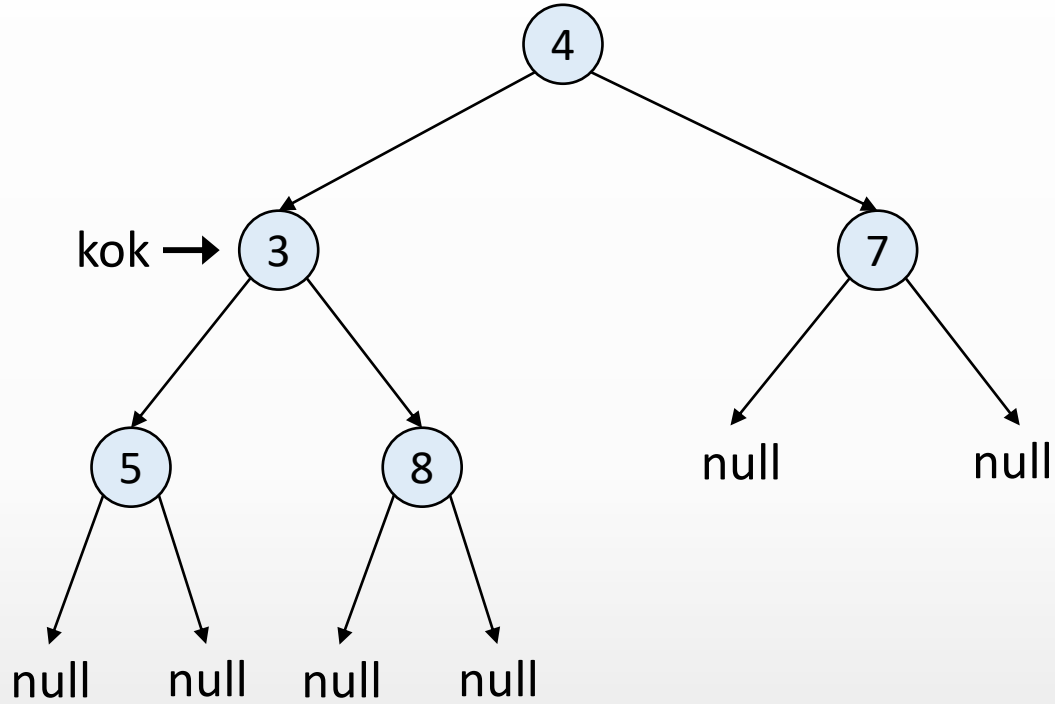
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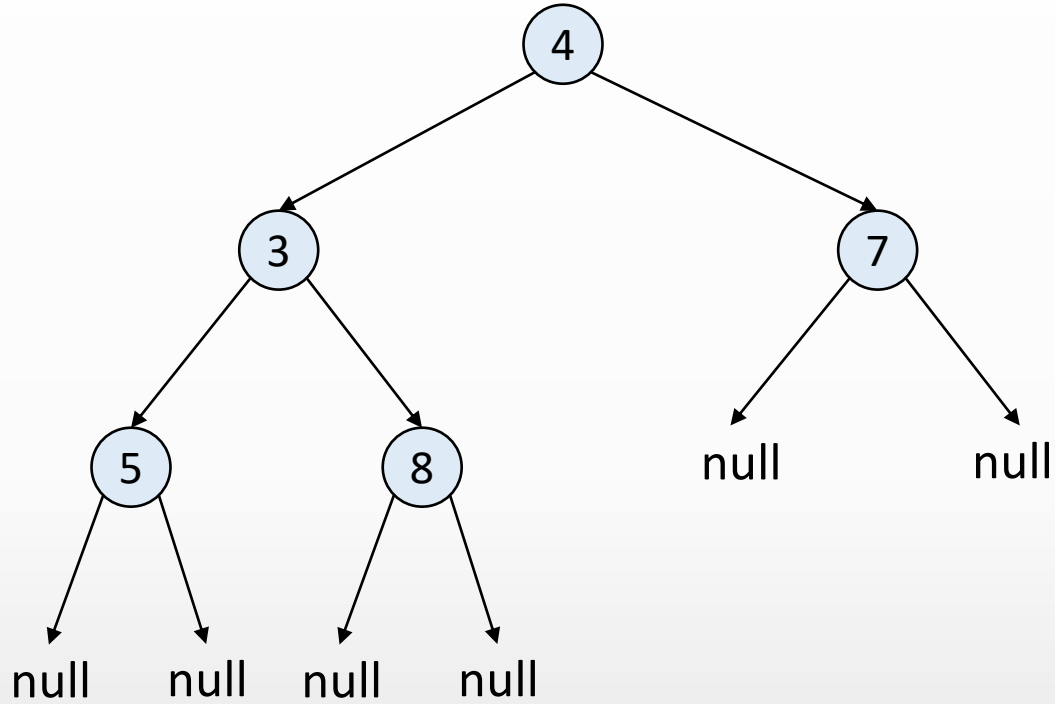
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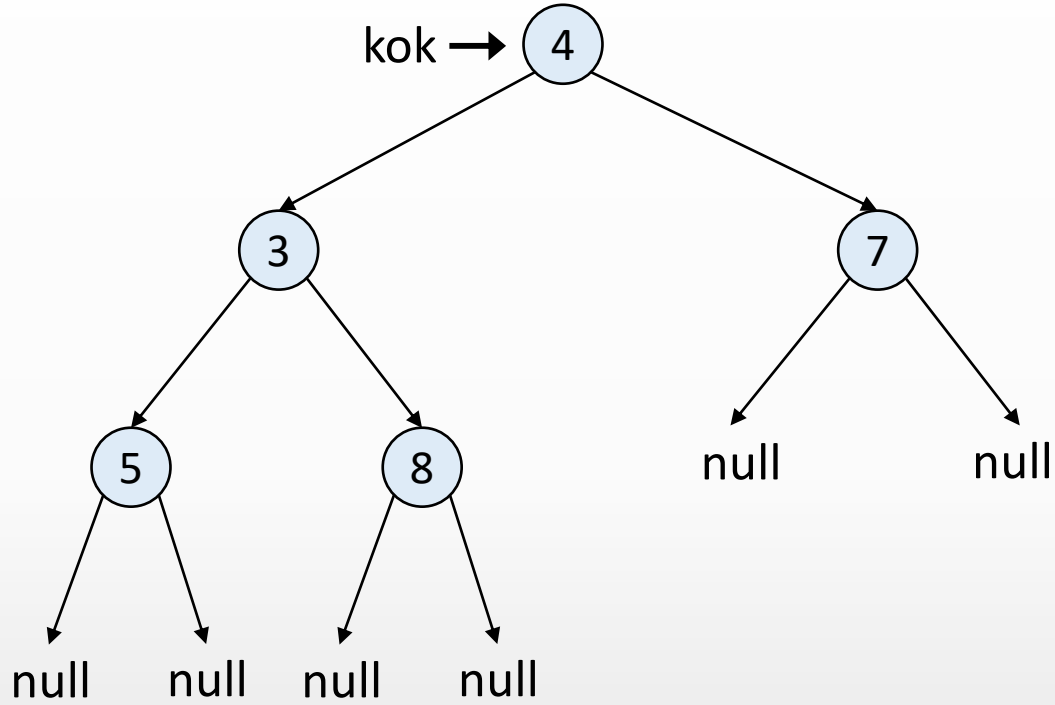



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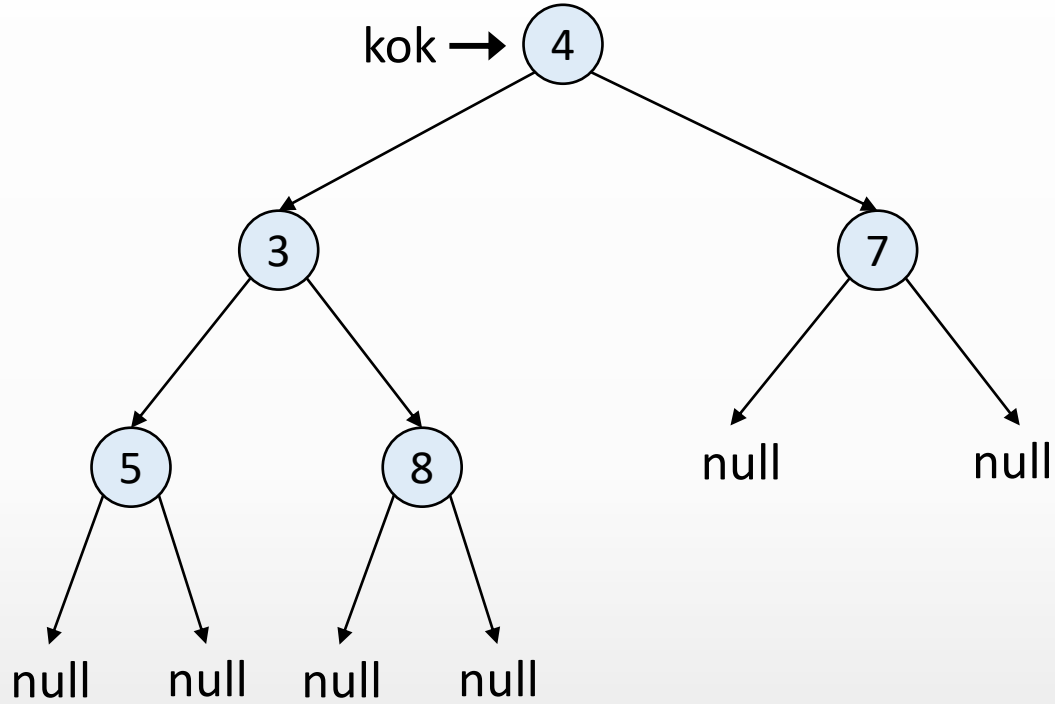
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→

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4	8	

→

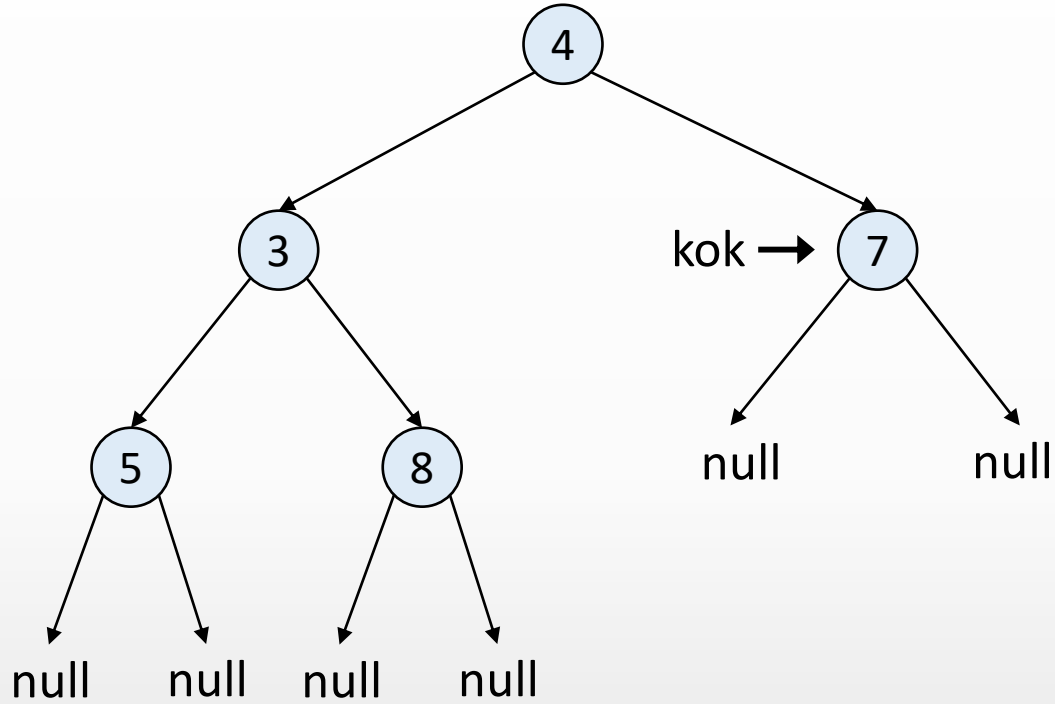
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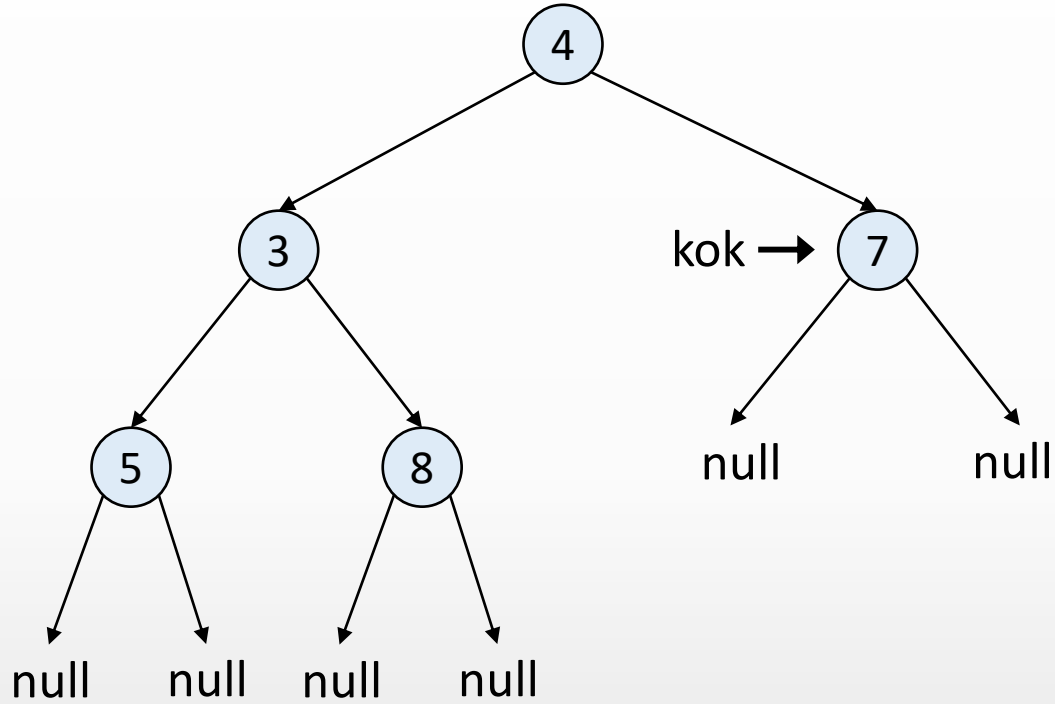
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metot çağırımı	satır no	kok	sonuc	sol	sag
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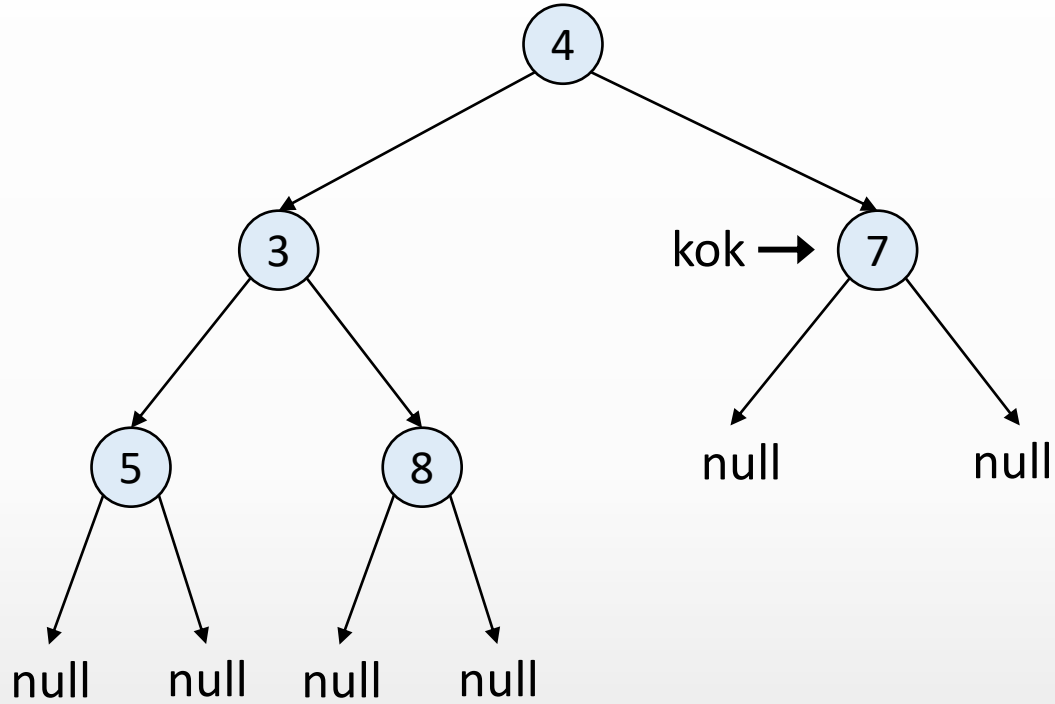
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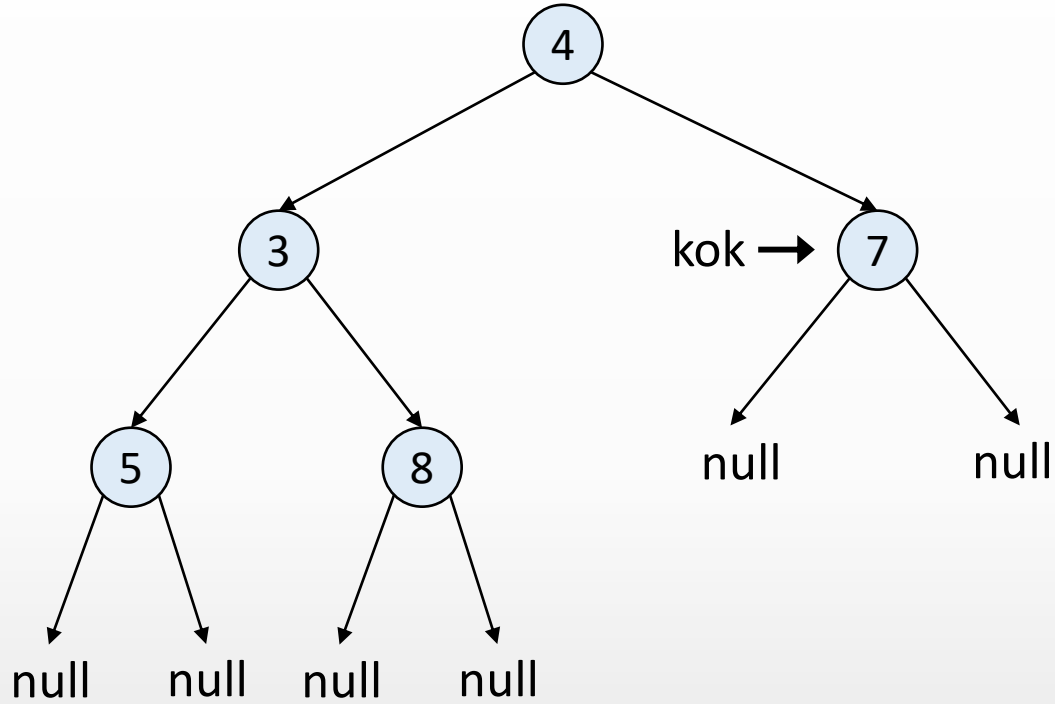
IMV = -2147483648



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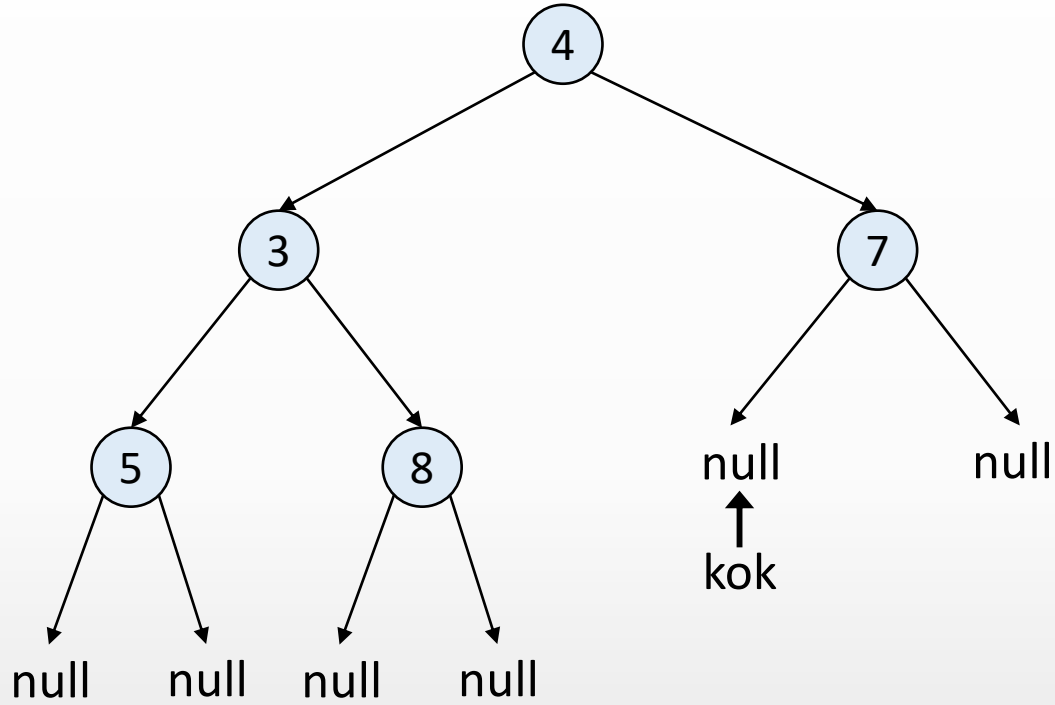
IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7		



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1 public int enBuyukBul(AgacDugumu kok) {
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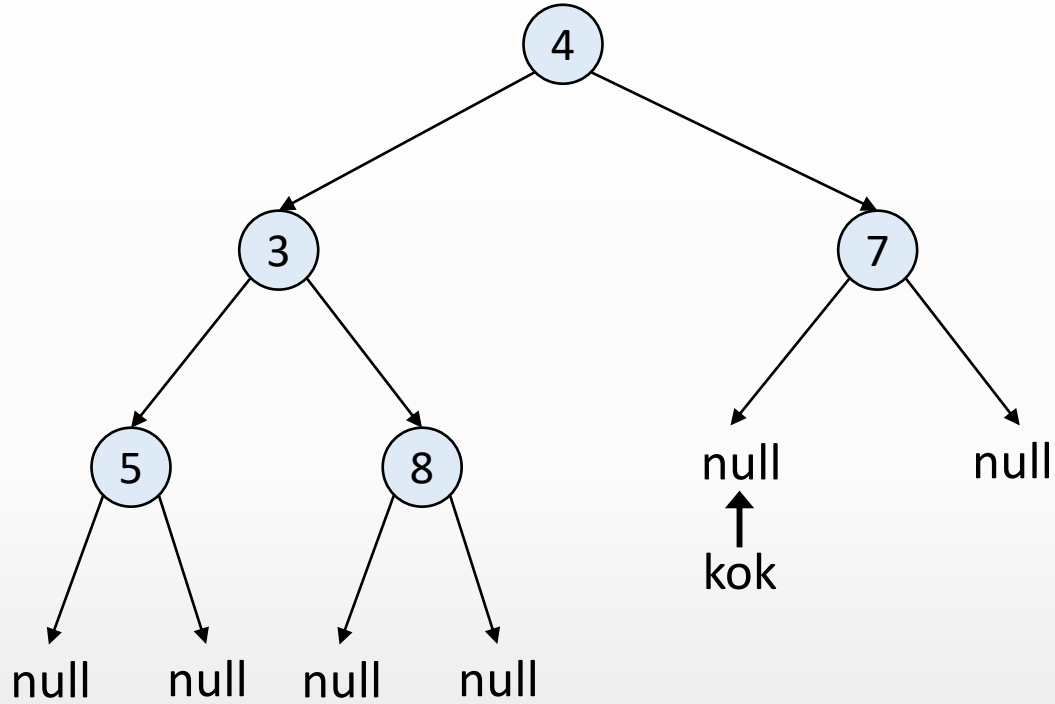


IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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enBuyukBul		null			



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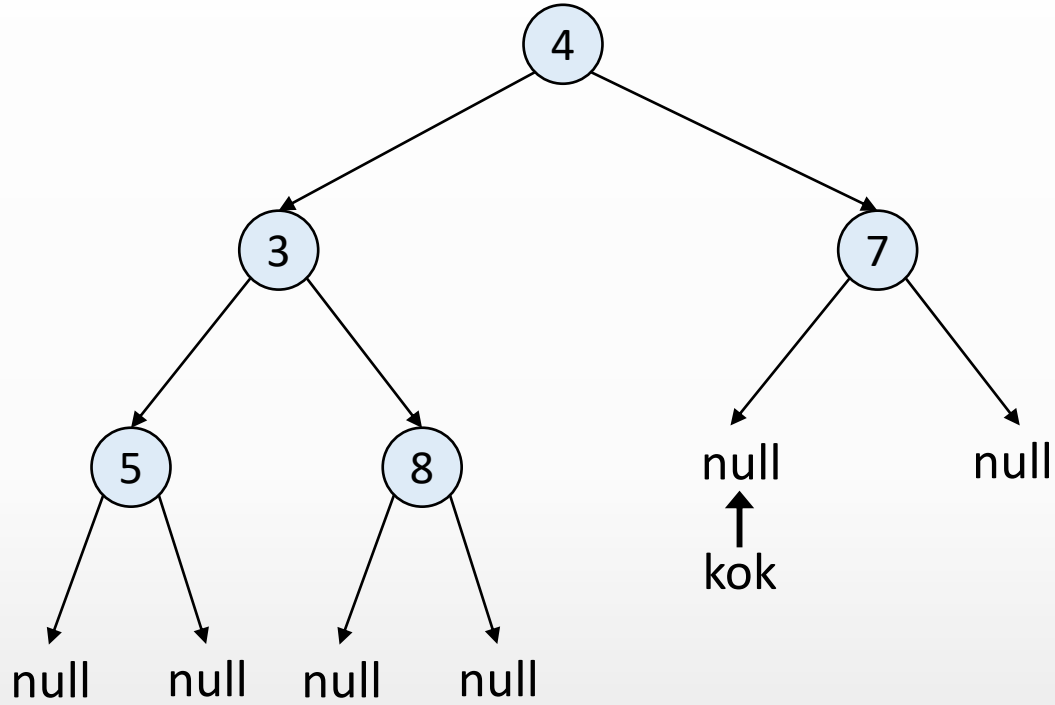



IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
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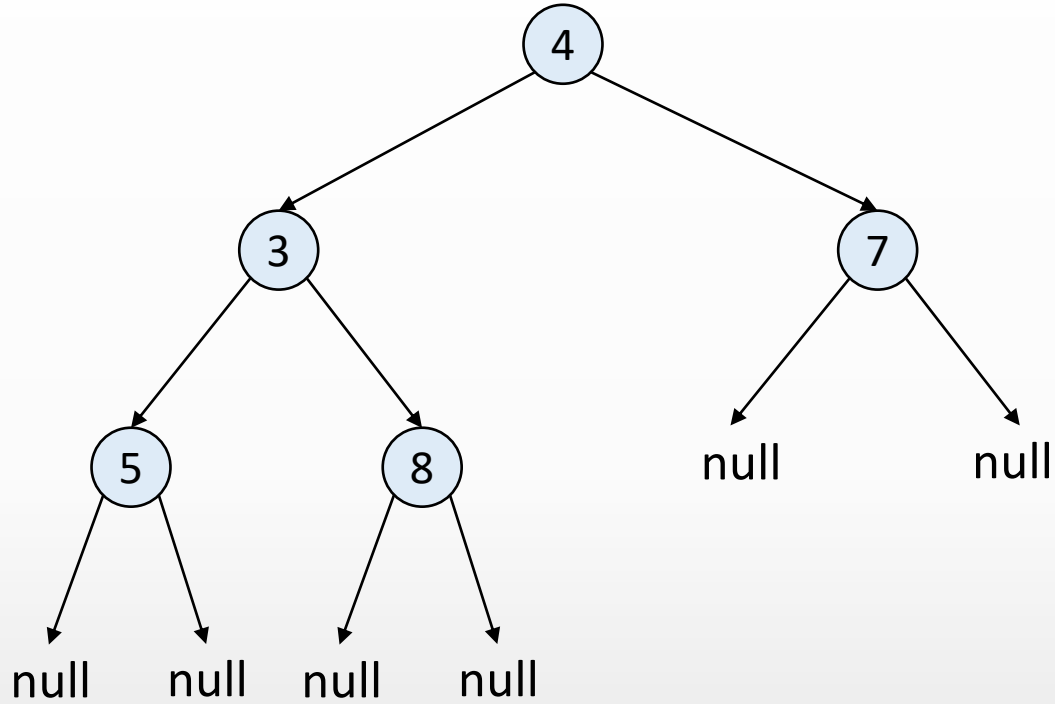


IMV = -2147483648

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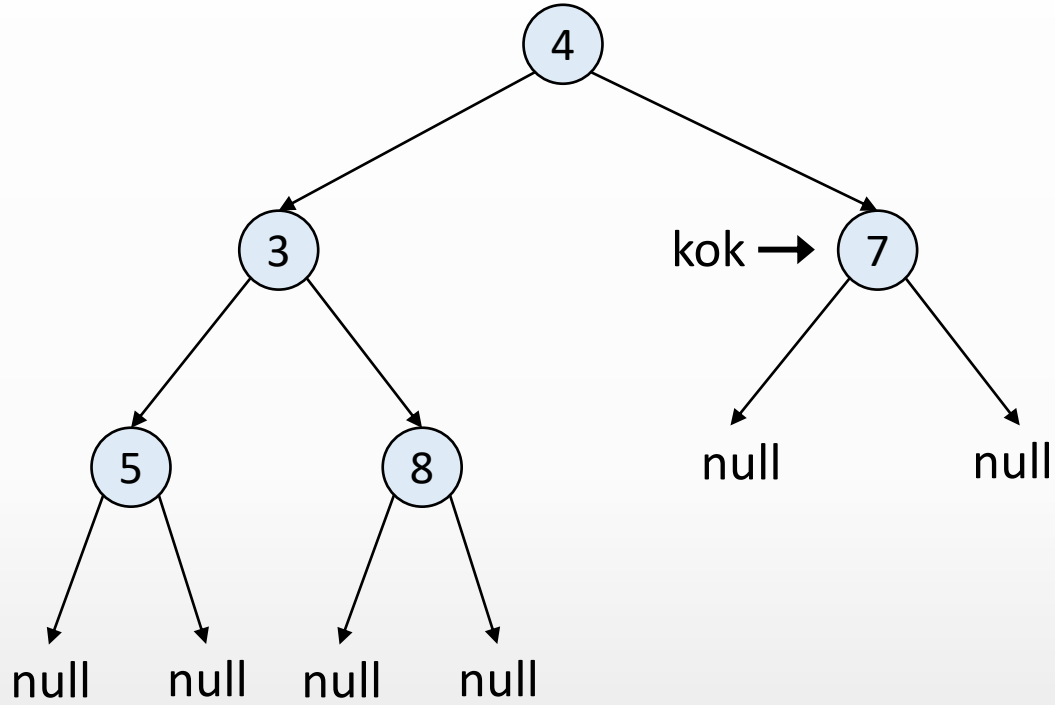


IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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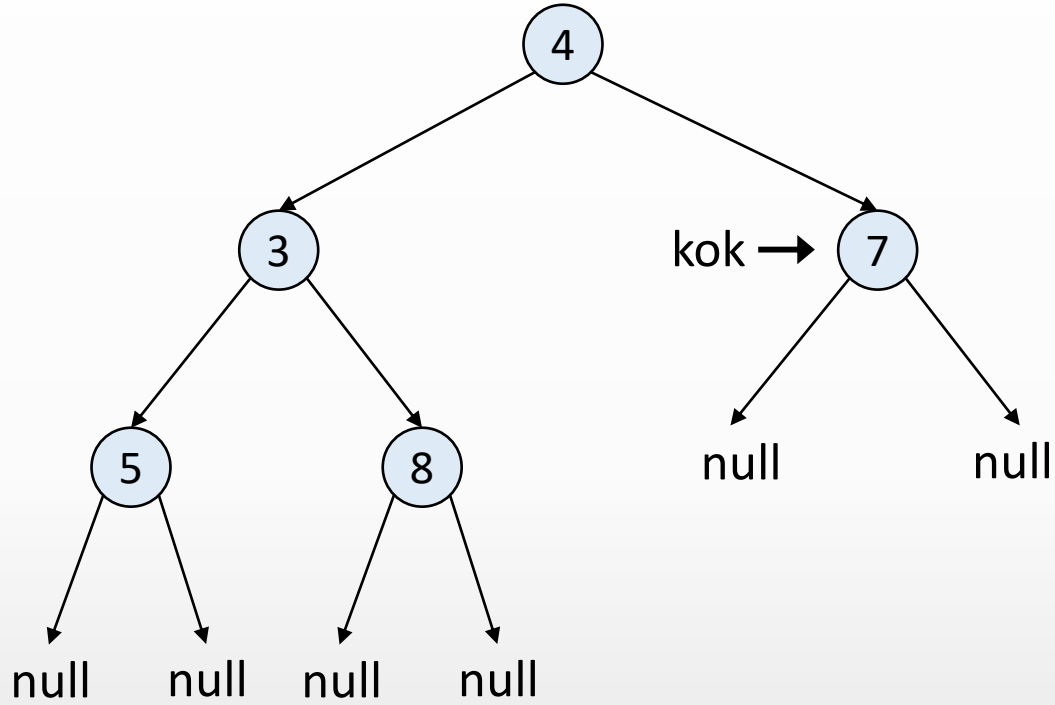
IMV = -2147483648



metot çağırımı	satır no	kok	sonuc	sol	sag
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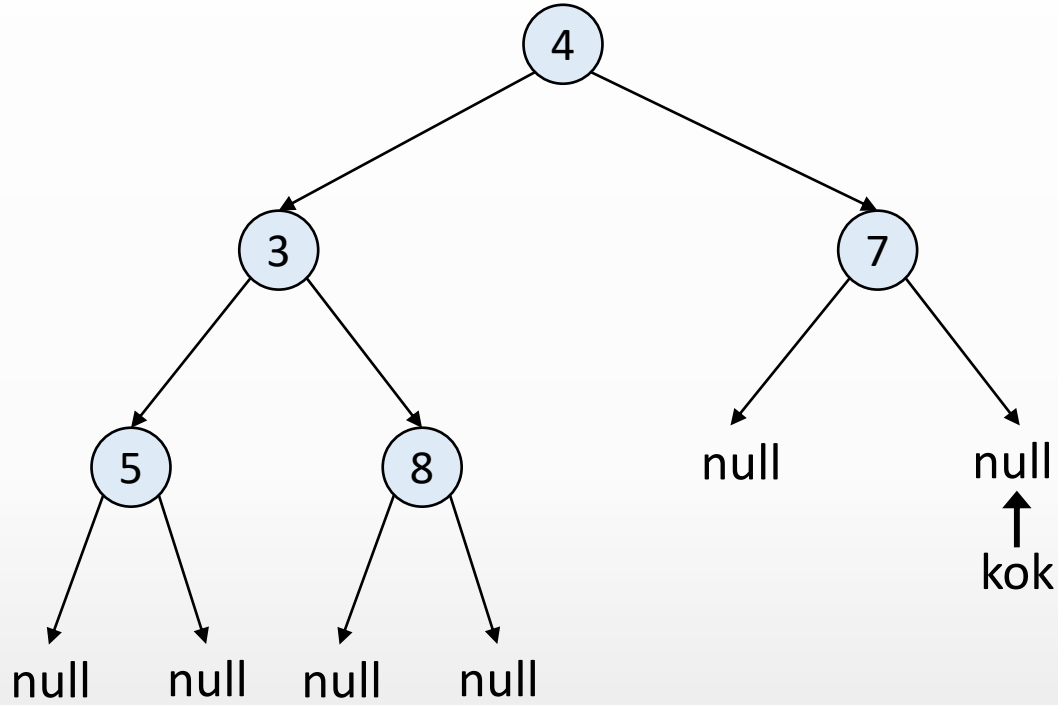
IMV = -2147483648



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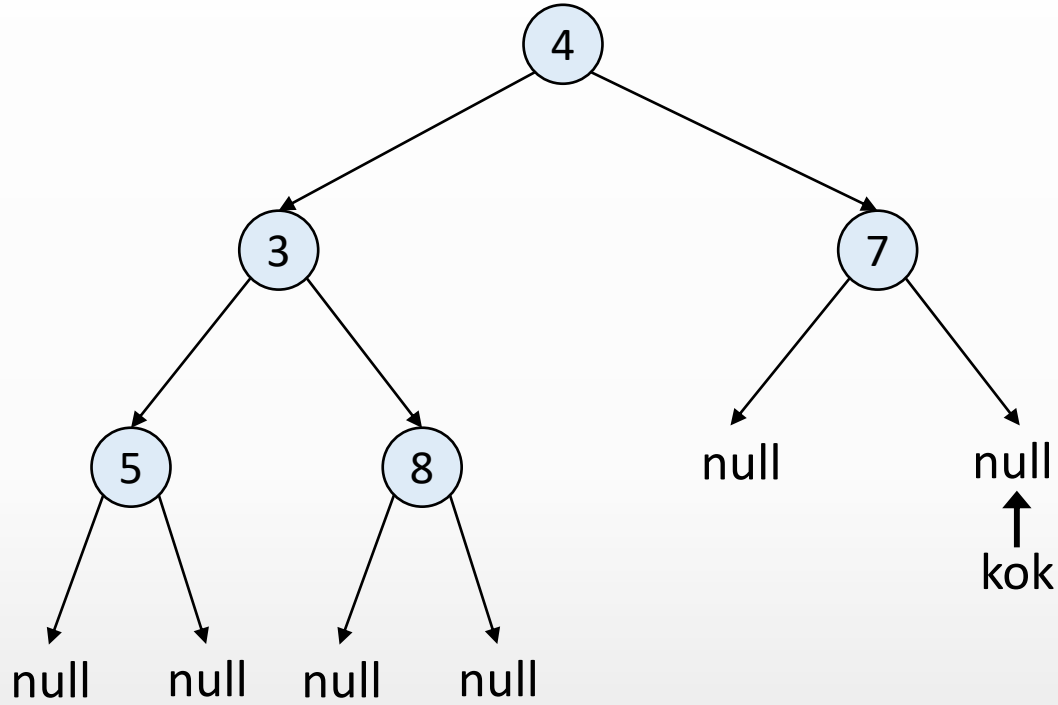
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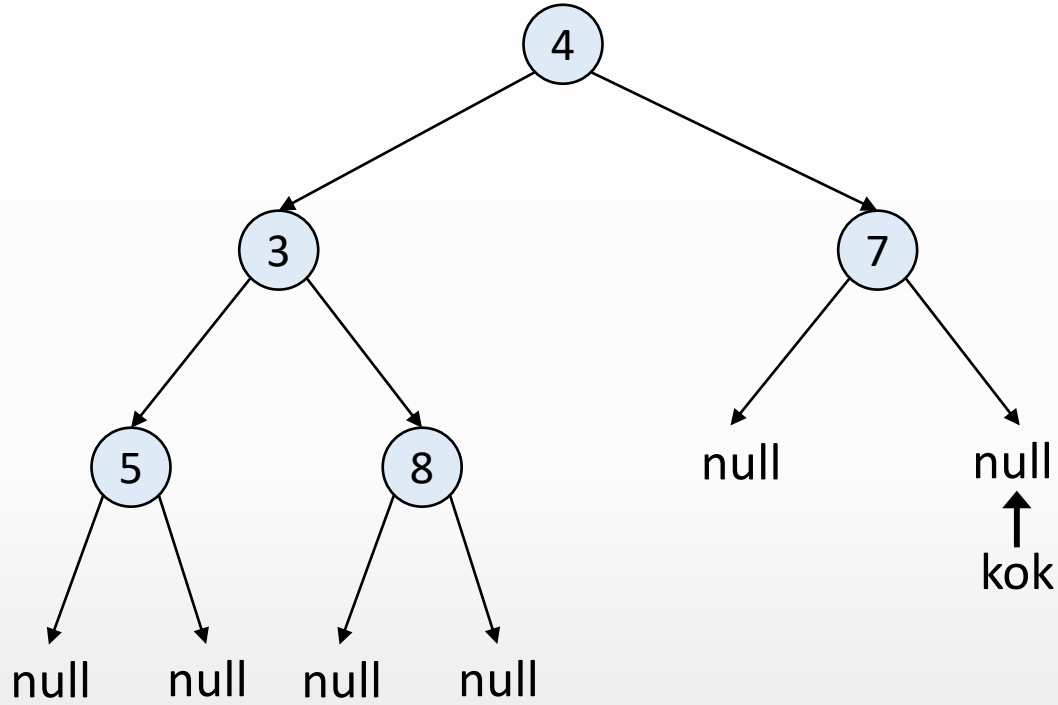
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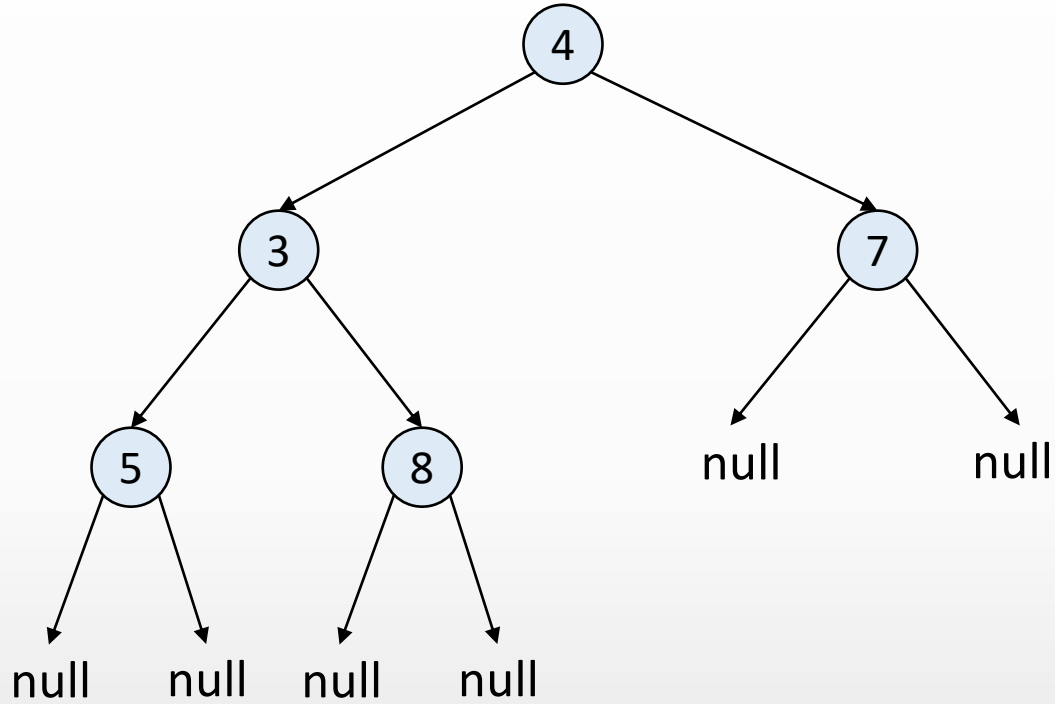


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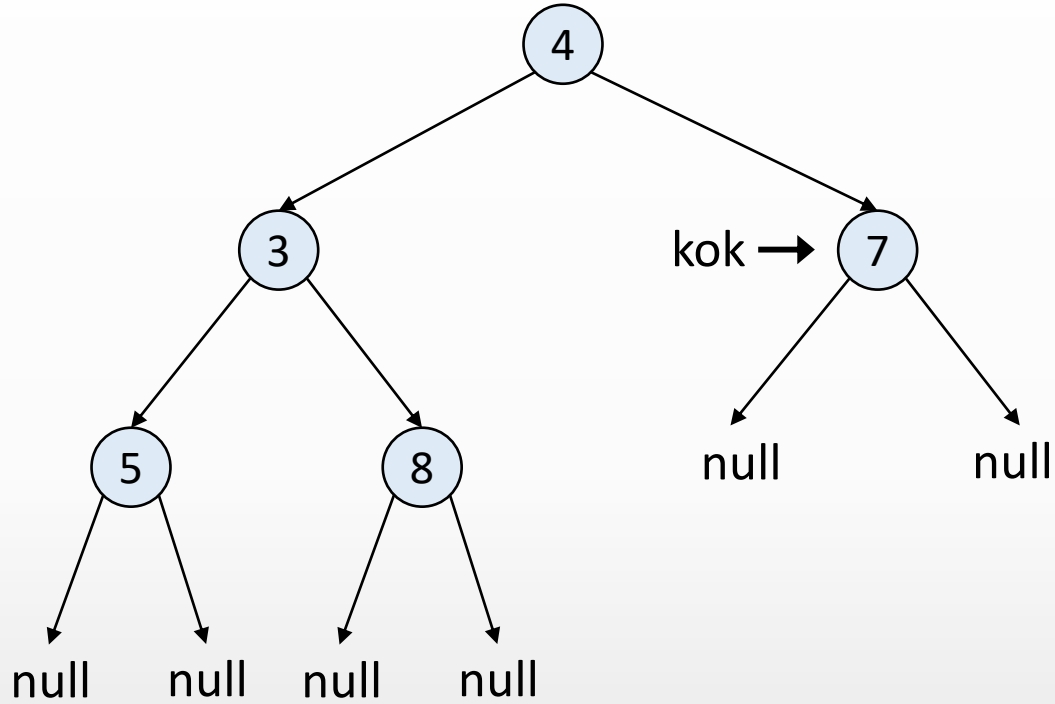



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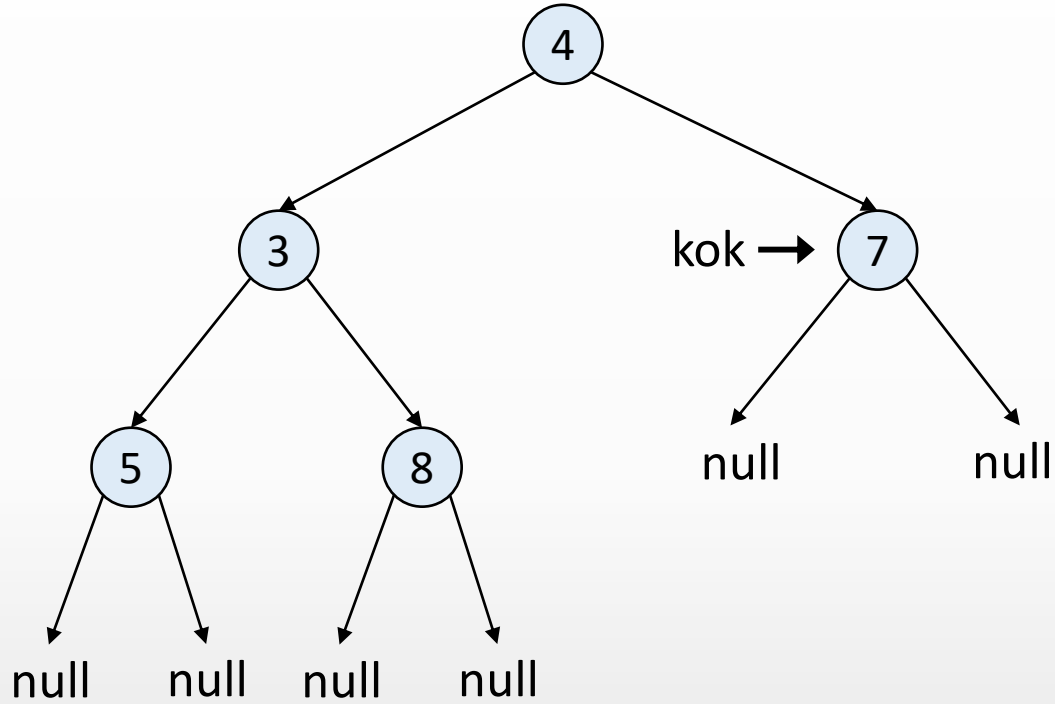
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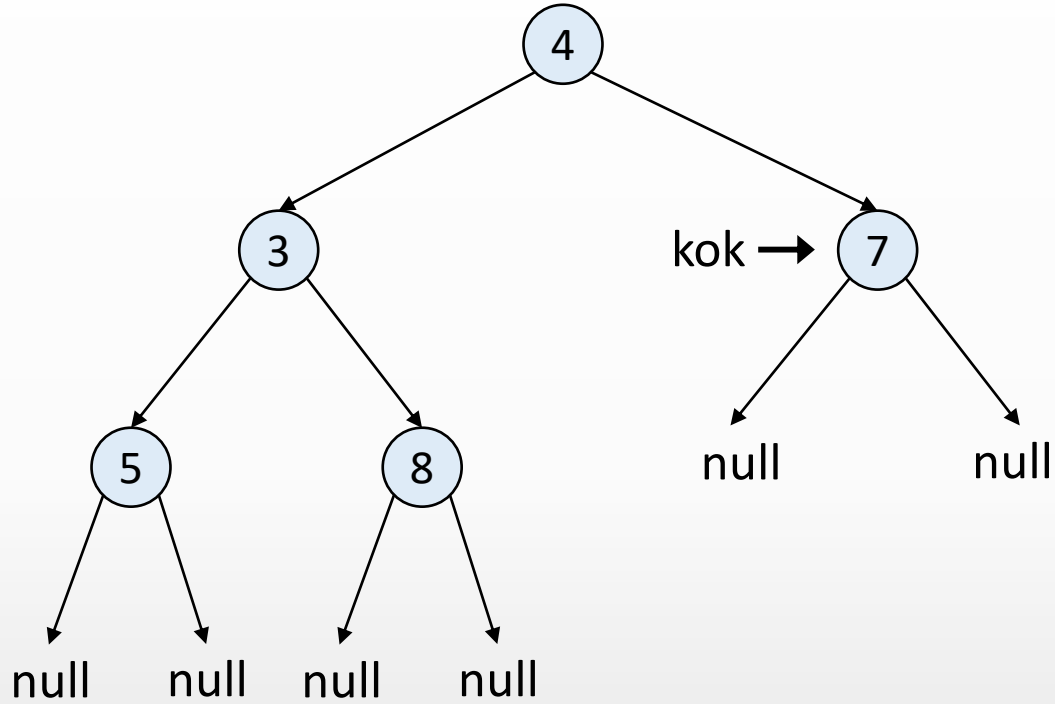
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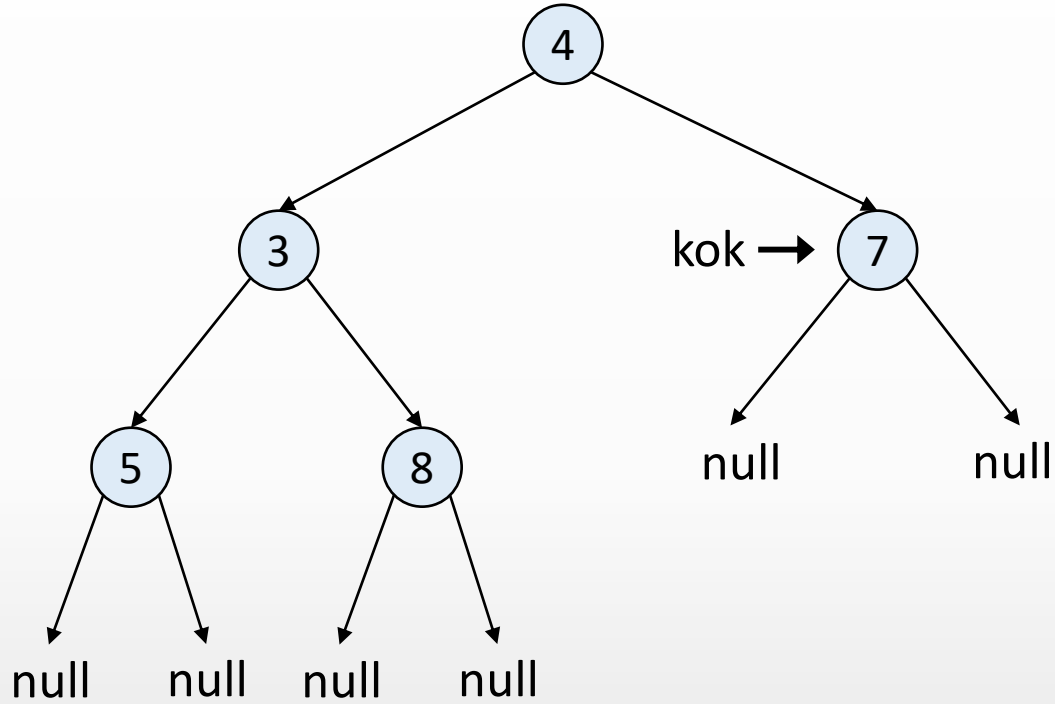
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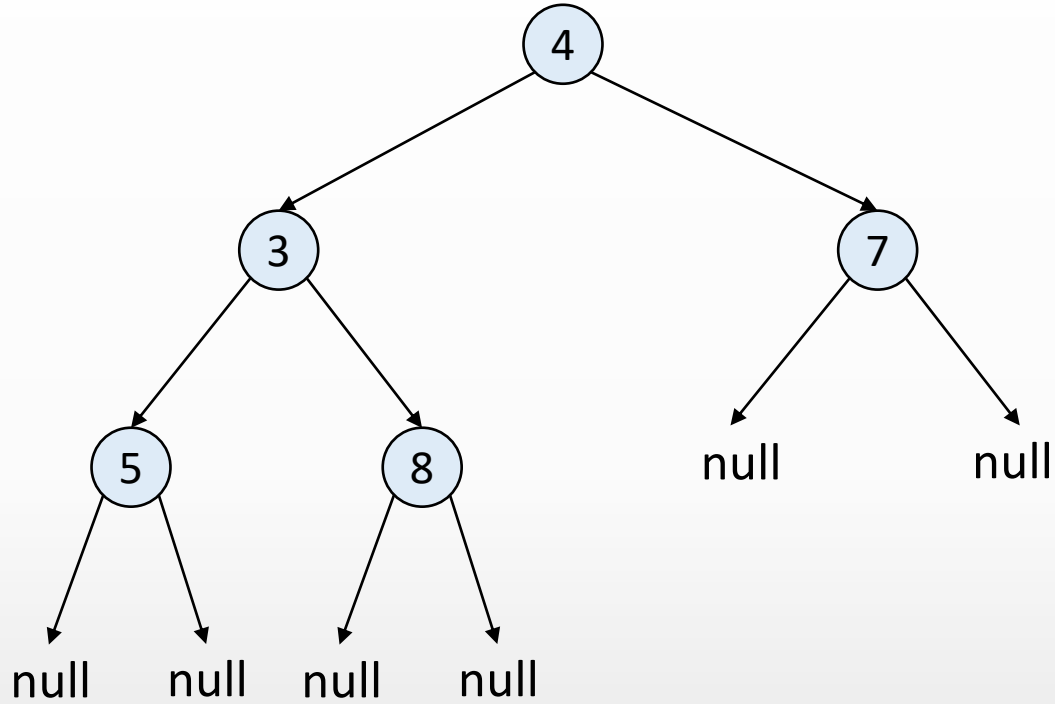
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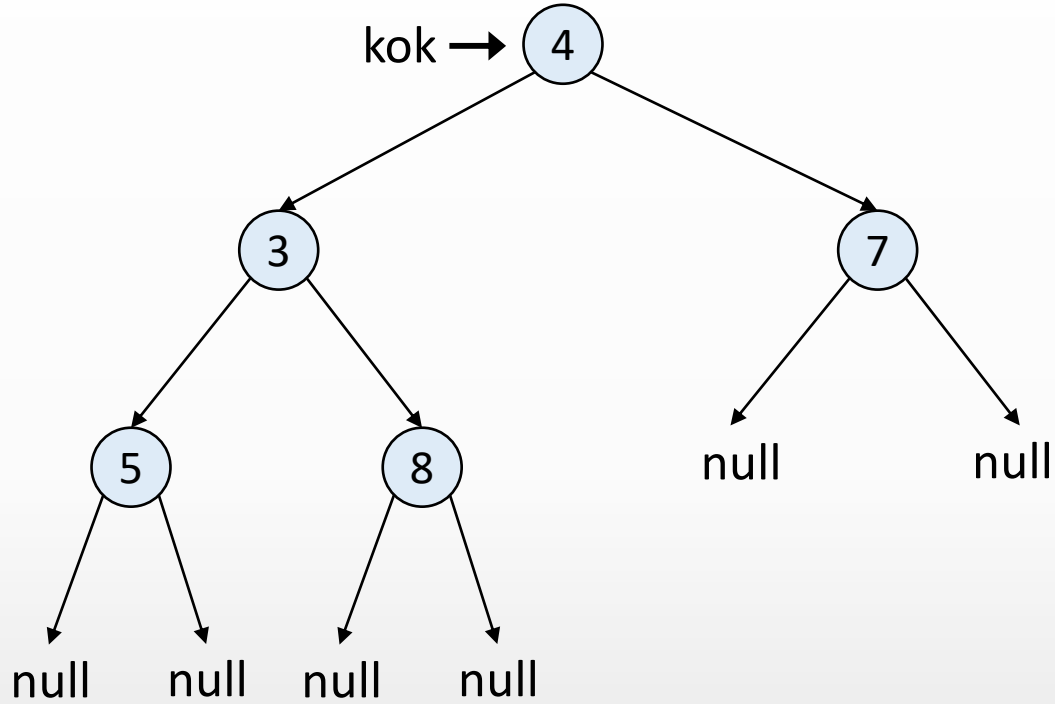


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metot çağırımı	satır no	kok	sonuc	sol	sag
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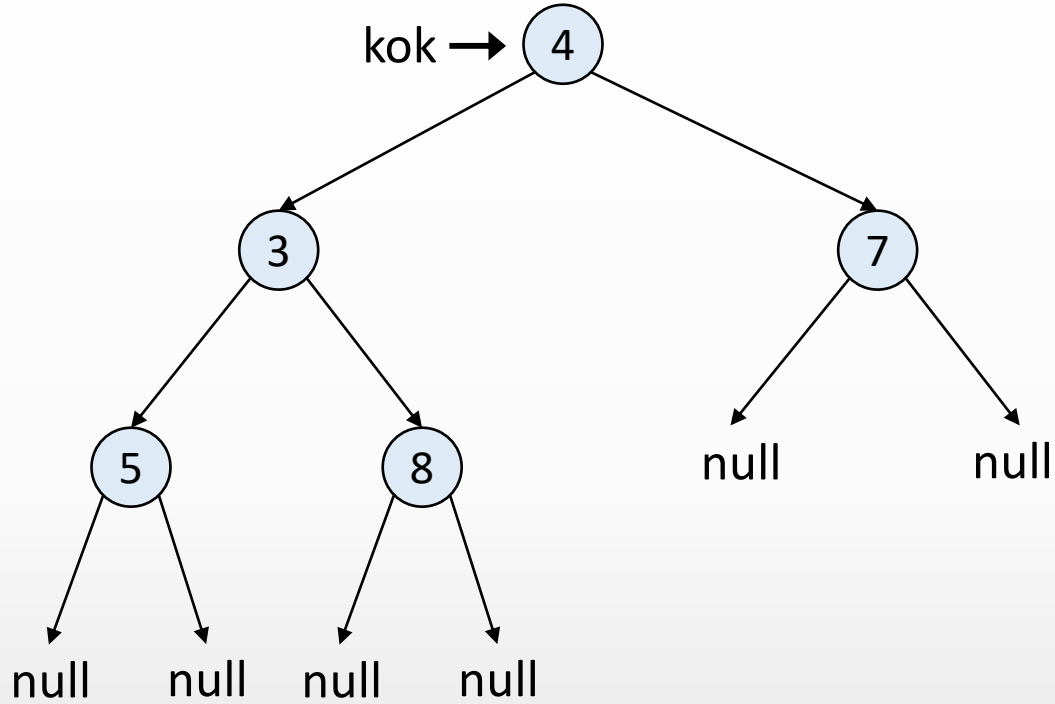
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metot çağırımı	satır no	kok	sonuc	sol	sag
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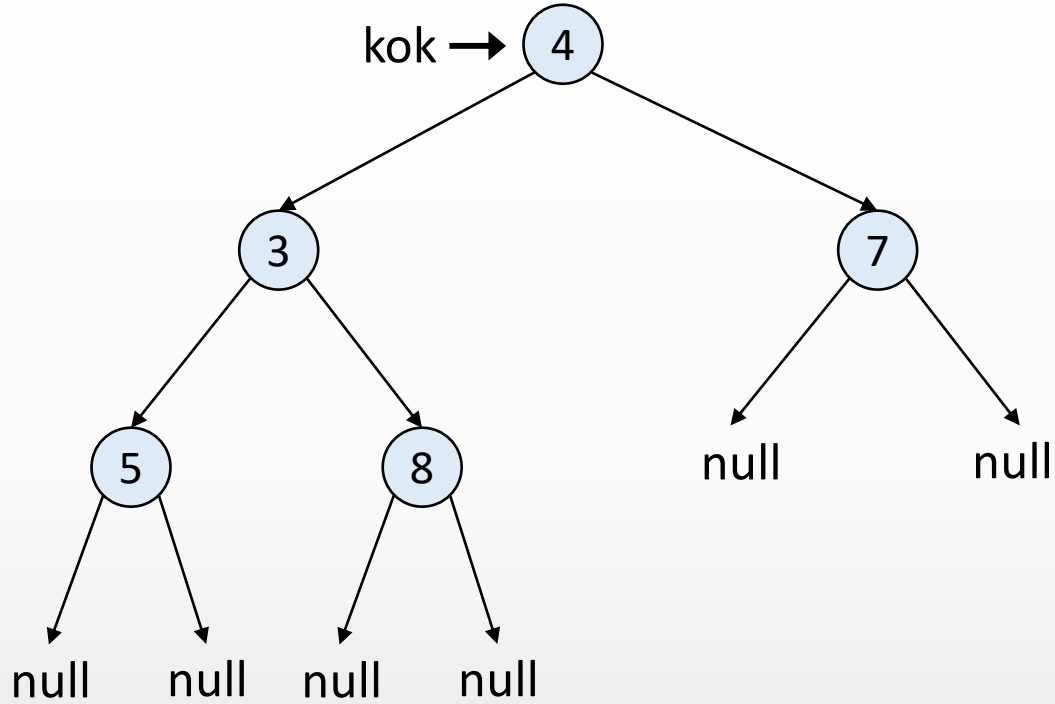
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8     if(sol > sonuc)
9         sonuc = sol;
10    if(sag > sonuc)
11        sonuc = sag;
12    return sonuc;
13 }
```



IMV = -2147483648

metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	7

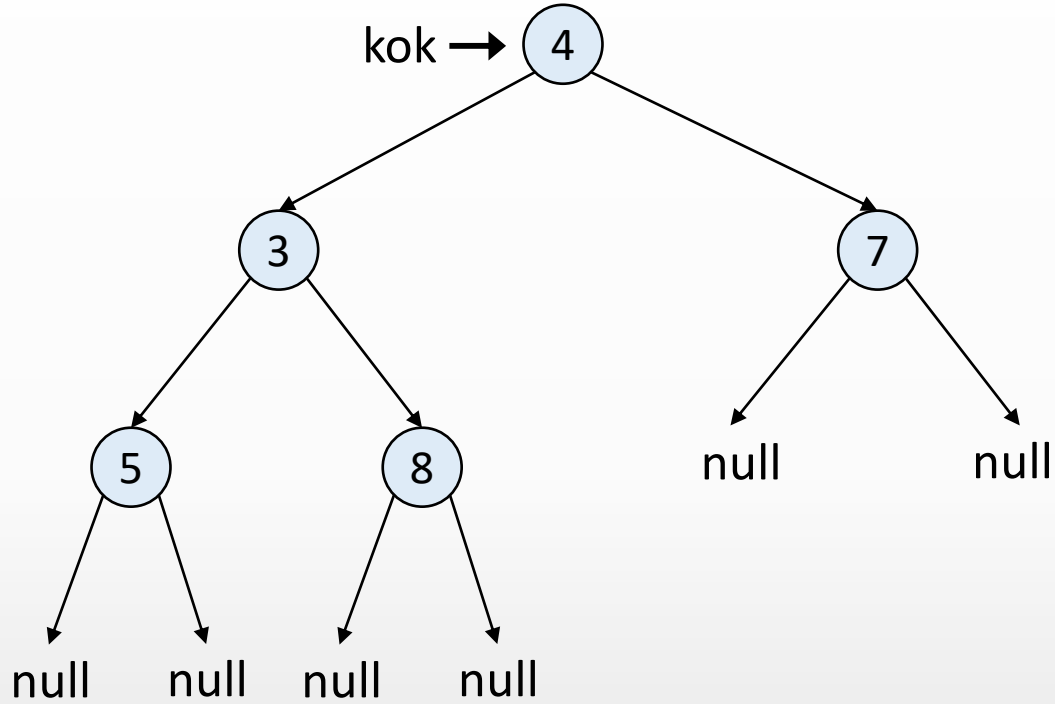
```
1 public int enBuyukBul(AgacDugumu kok) {
2     if(kok == null) {
3         return Integer.MIN_VALUE;
4     }
5     int sonuc = kok.veri;
6     int sol = enBuyukBul(kok.sol);
7     int sag = enBuyukBul(kok.sag);
8     if(sol > sonuc)
9         sonuc = sol;
10    if(sag > sonuc)
11        sonuc = sag;
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13 }
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metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	8	7

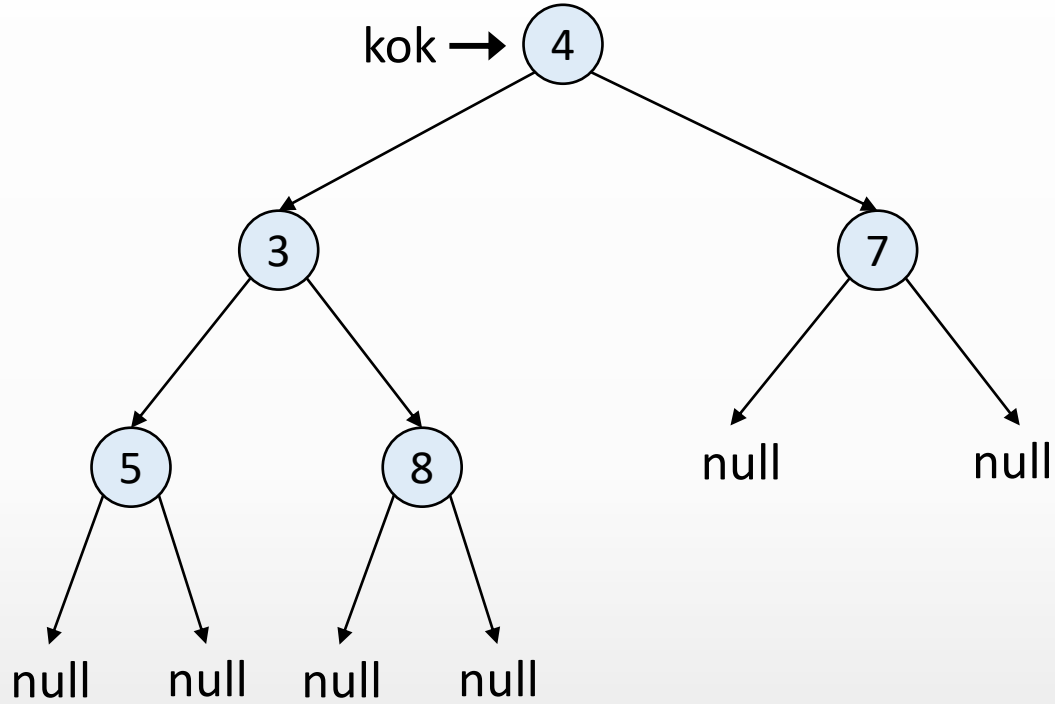
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metot çağırımı	satır no	kok	sonuc	sol	sag
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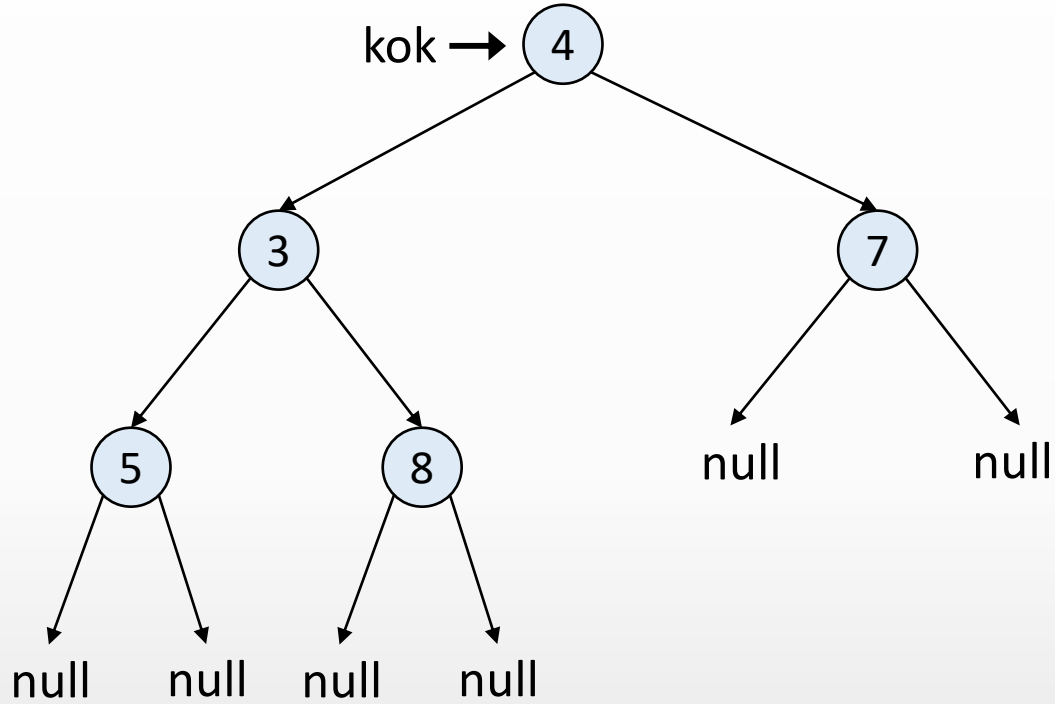
```
1 public int enBuyukBul(AgacDugumu kok) {
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8     if(sol > sonuc)
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IMV = -2147483648

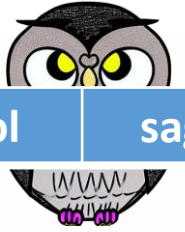
metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	8	7

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metot çağırımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	8	7

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11        sonuc = sag;
12    return sonuc;
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```



metot çağırımı

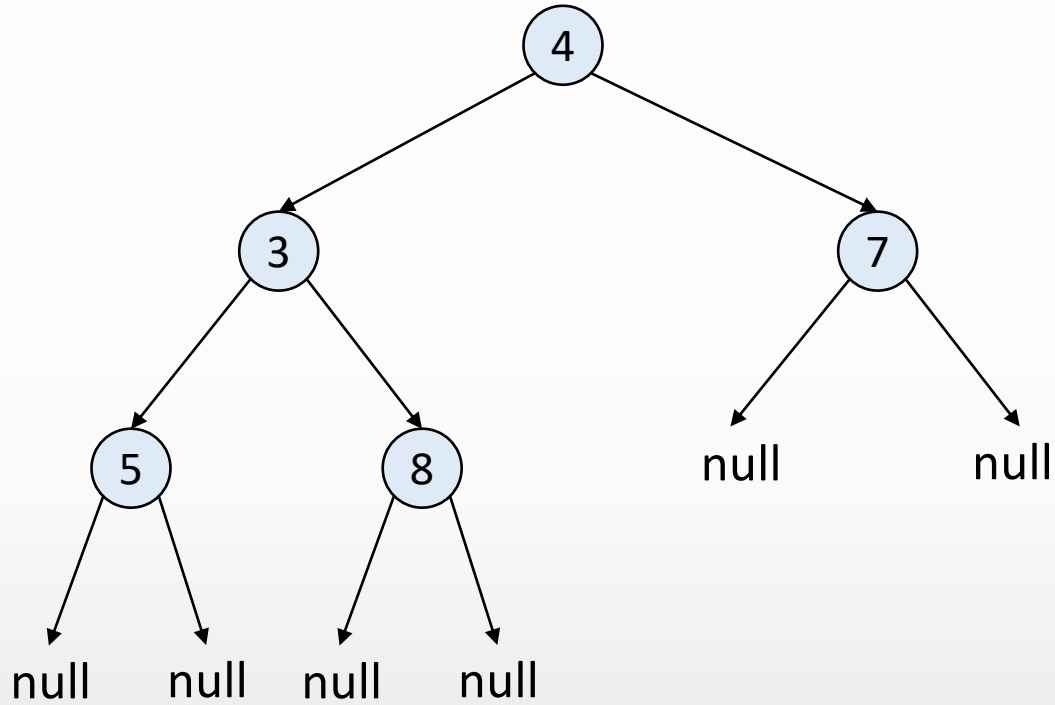
satır no

kok

sonuc

sol

sag



En büyük değer → **8**

```
1 public int enBuyukBul(AgacDugumu kok) {
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4   }
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6   int sol = enBuyukBul(kok.sol);
7   int sag = enBuyukBul(kok.sag);
8   if(sol > sonuc)
9     sonuc = sol;
10  if(sag > sonuc)
11    sonuc = sag;
12  return sonuc;
13 }
```



SON