



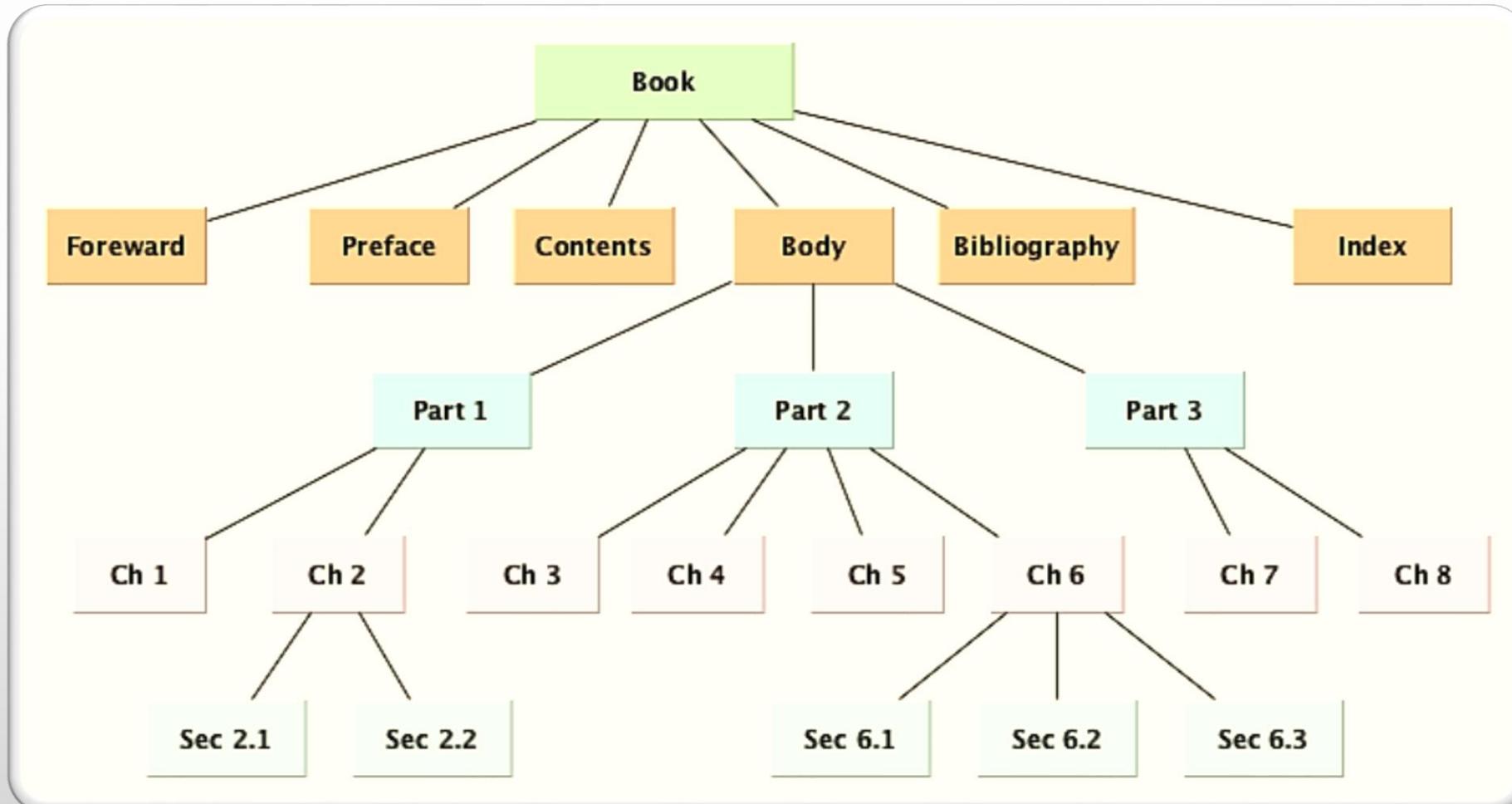
Bölüm 7: Ağaç Veri Yapıları

Ağaç



Sercan KÜLCÜ, Tüm hakları saklıdır.

Ağaç

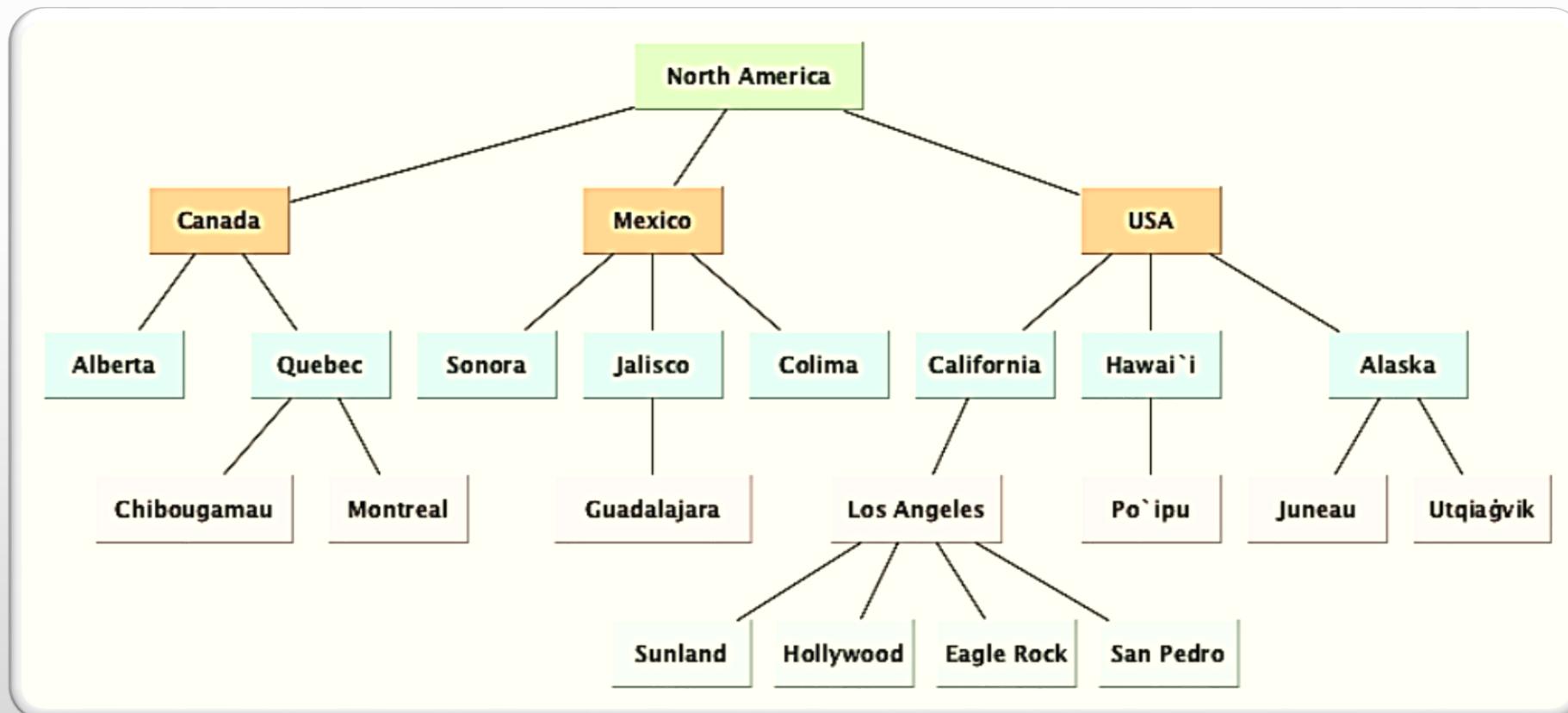


Ağaç

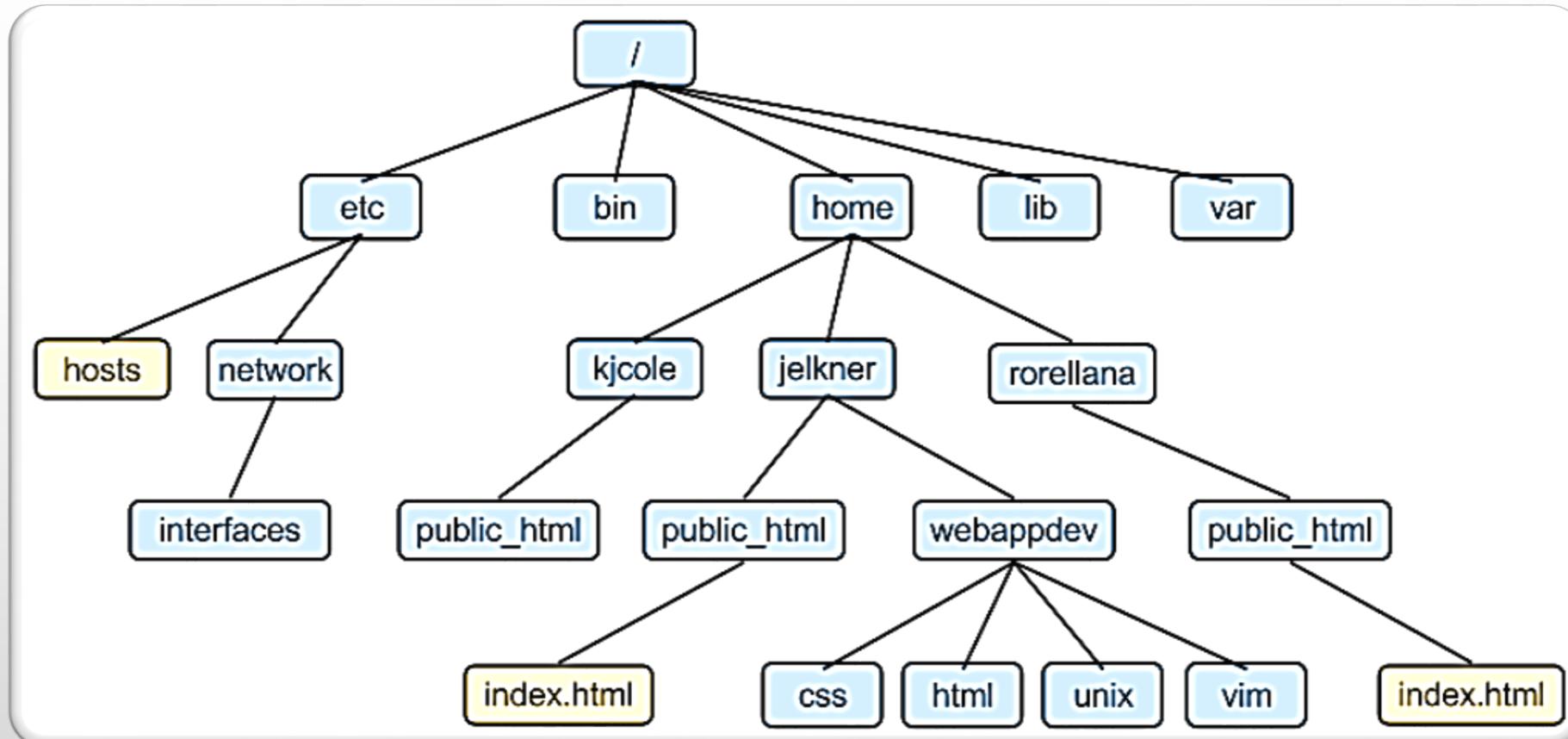


- Düğümler arasında döngüler bulunmaz.
 - Her düğüm, sadece bir tane üst düğüme sahiptir.
- Kök en üstte olacak şekilde ters çizilir.
 - Kök düğüm, ağaçın en üst düğümünü temsil eder.
- Hiyerarsik düzenlemeleri temsil eder.
 - Düğümlerin alt düğümlerinin sırası önemlidir.

Ağaç



Ağaç

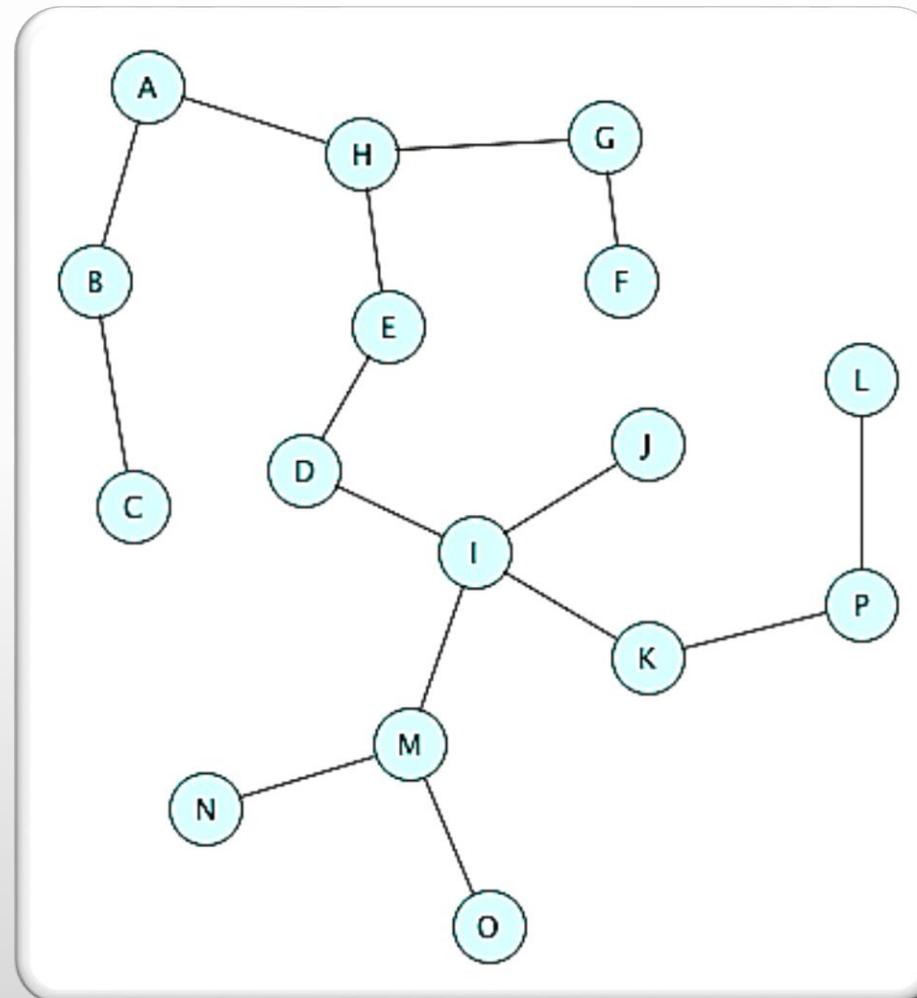


Ağaç



- **Doğrusal olmayan** bir veri yapısıdır.
- Verileri **hiyerarşik** ve düzenli bir şekilde saklar.
- **Düğümler** (nodes) ve **kenarlar** (edges) ‘dan oluşur.
- **Kök** düğüm, **yaprak** düğümler ve **İç** düğümler, 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.

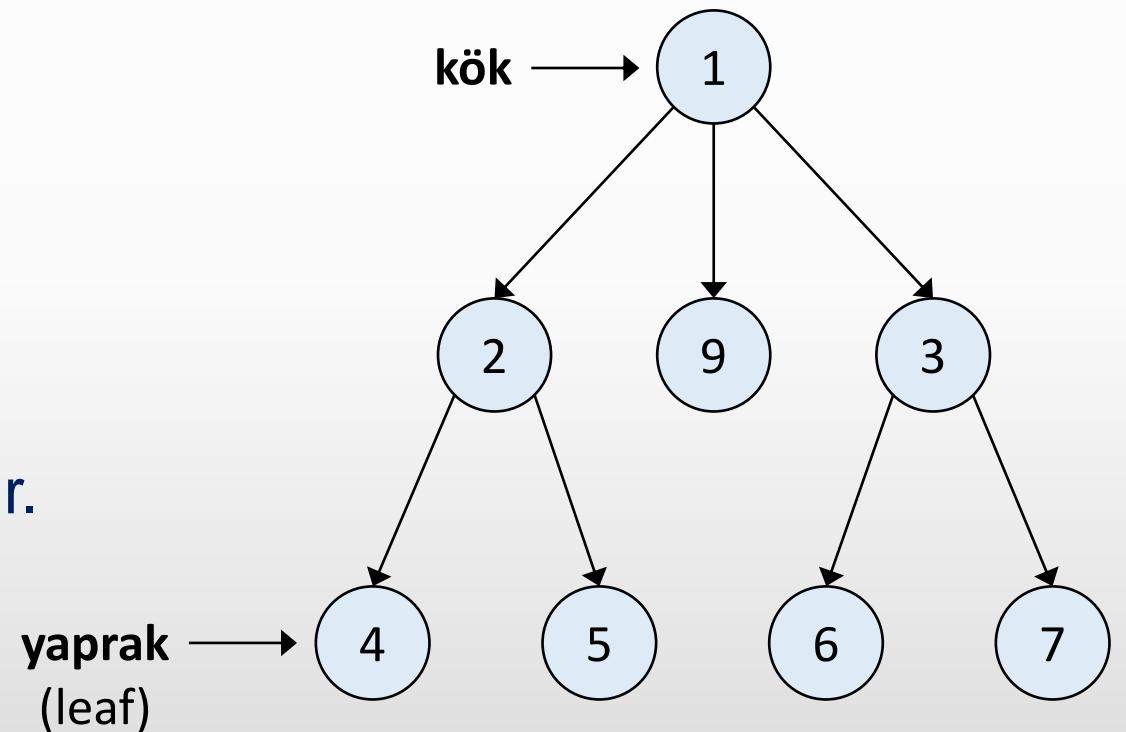
Ağaç mı?





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 düşüme 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 ağaçın yüksekliğini kullanarak dengeleme teknikleri uygular.
- **Splay Ağaç** Sık erişilen düğümleri kökte tutmayı amaçlar.
- **(a,b) Ağaç** , Her iç düğüm, a ile b arasında çocuk düşüme sahiptir.



Ağaç İlişkileri

- **Ata Düğüm** (Parent Node)

- Bir düğümün üzerinde bulunan düğümdür.
 - Her düğümün yalnızca bir atası vardır (kök düğüm hariç).

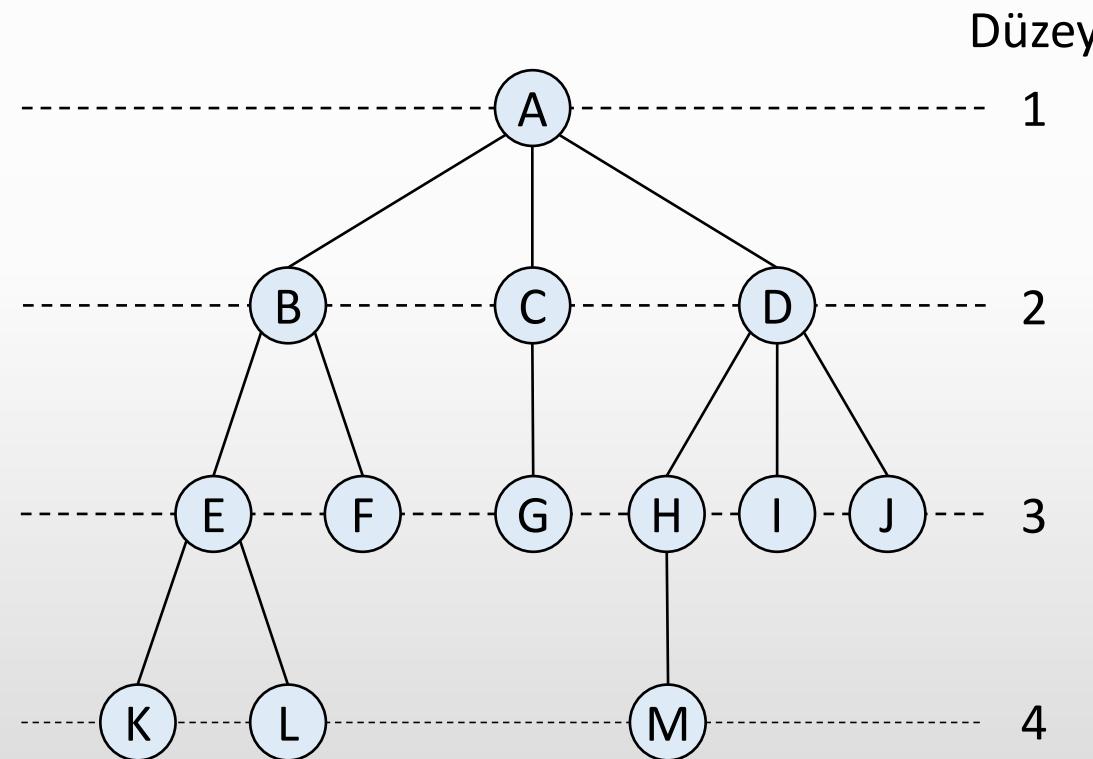
- **Çocuk Düğüm** (Child Node)

- Bir düğümün altında bulunan düğümlerdir.
 - Her düğümün birden fazla çocuğu olabilir.

- **Kardeş Düğüm** (Sibling Node)

- Ata düğümü aynı olan düğümler kardeşir.
 - Yani, aynı düzeydeki düğümler kardeşir.

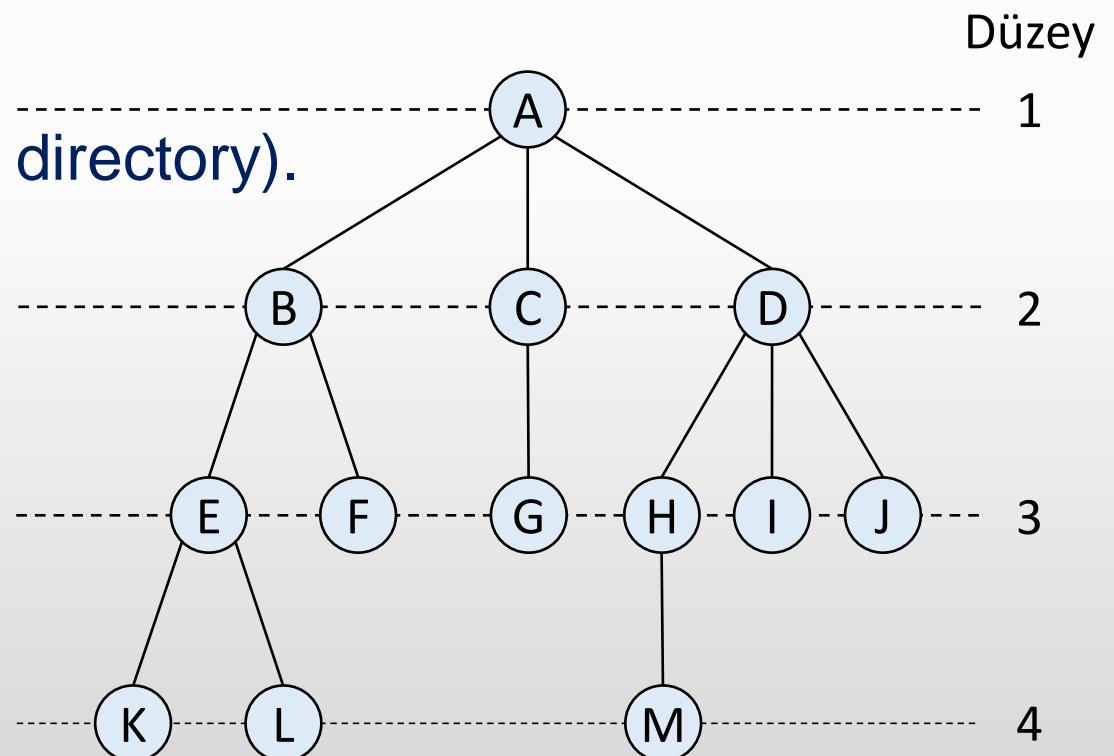
Ağaç İlişkileri





Kök Düğüm (Root Node)

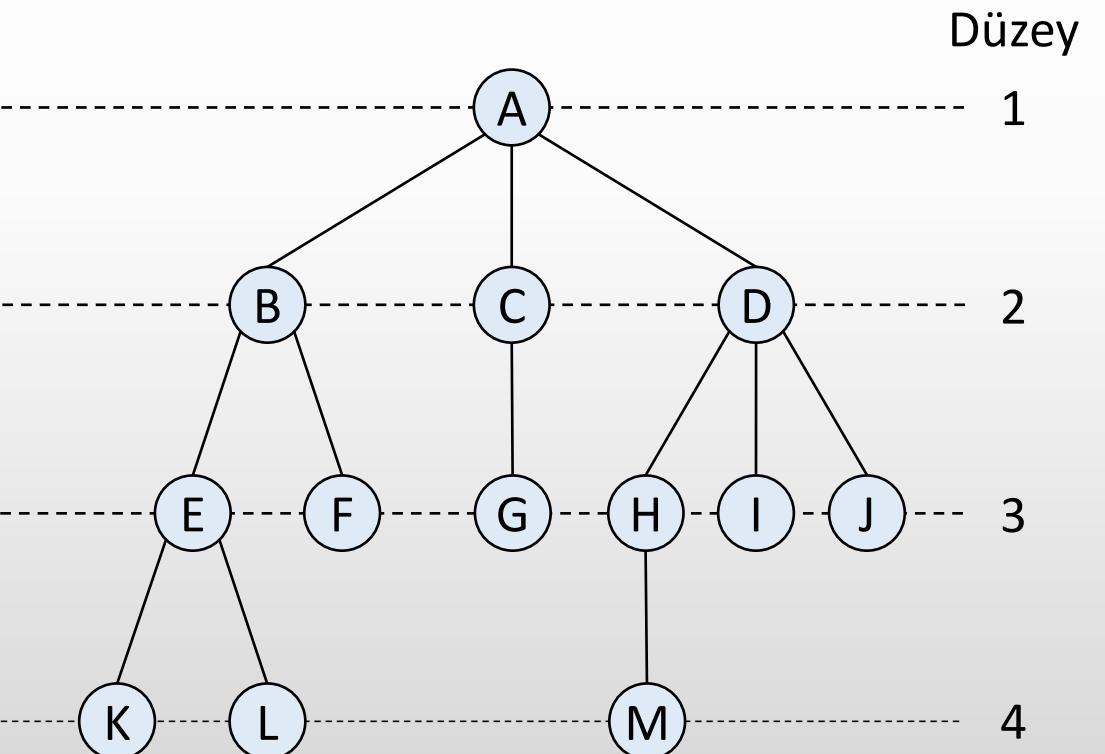
- Ağacın en üst düğümüdür.
- Hiçbir üst düğüme sahip değildir.
- **Örnek:**
 - Dosya sisteminin ana dizini (root directory).





Yaprak Düğüm (Leaf Node)

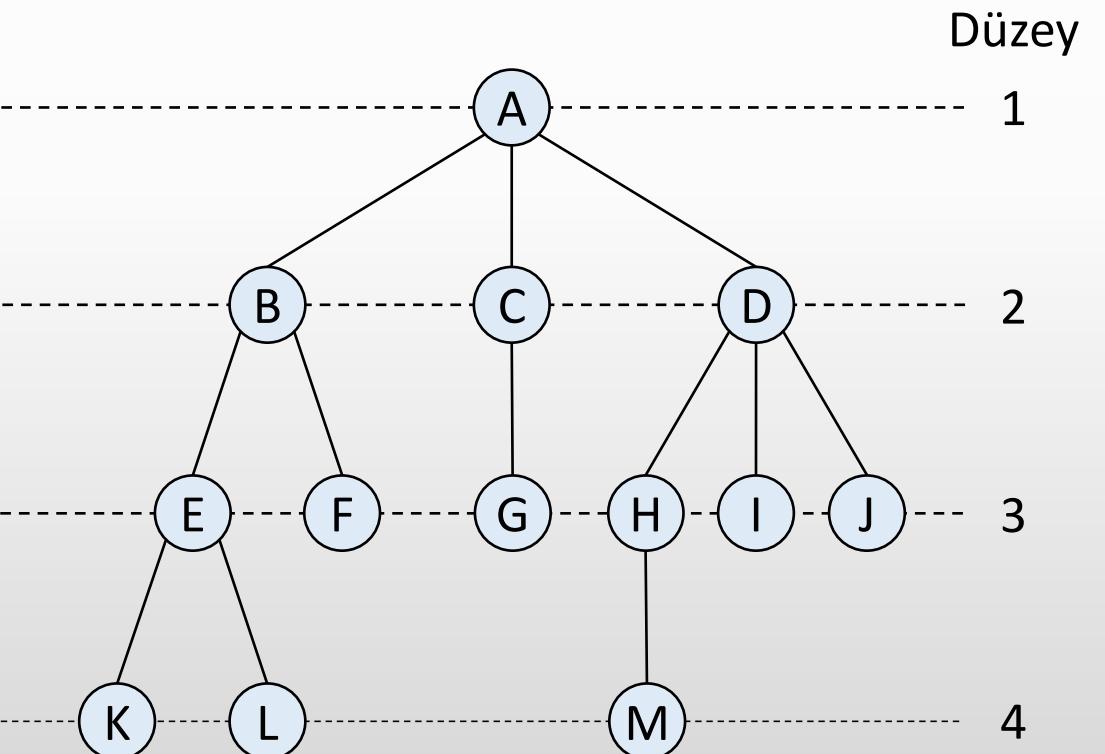
- Hiçbir alt düğüme sahip olmayan düğümlerdir.
- **Örnek:**
 - Bir dosya sistemindeki dosyalar.





İç Düğüm (Internal Node)

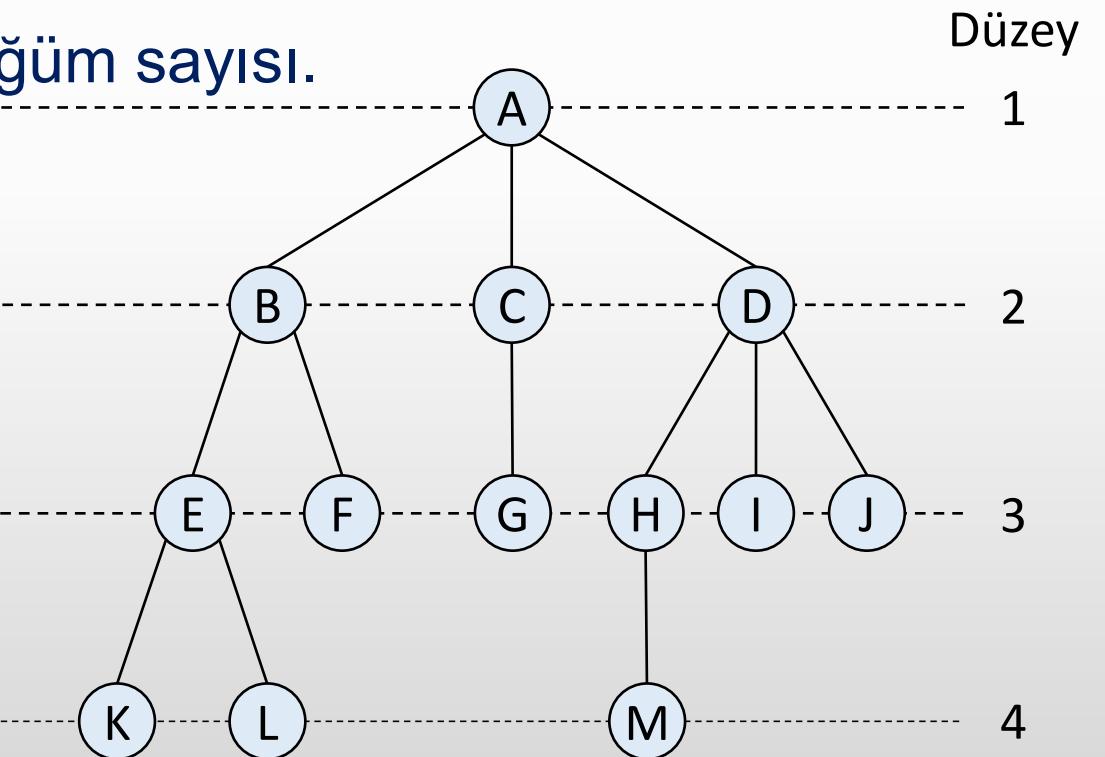
- Hem üst hem de alt düğümlere sahip olan düğümlerdir.
- **Örnek:**
 - Bir dosya sistemindeki klasörler.





Derece (Degree)

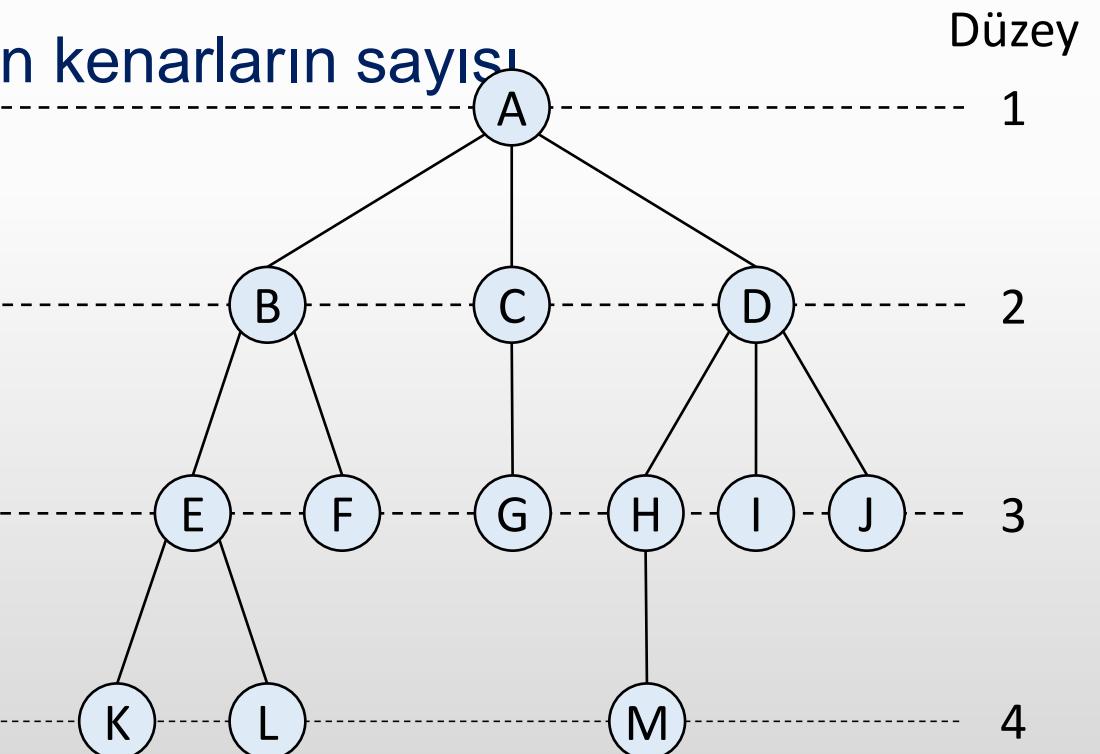
- Bir düğüme eklenen alt ağaçların toplam sayısına denir.
- **Örnek:**
 - Düğümün sahip olduğu çocuk düğüm sayısı.





Derinlik (Depth)

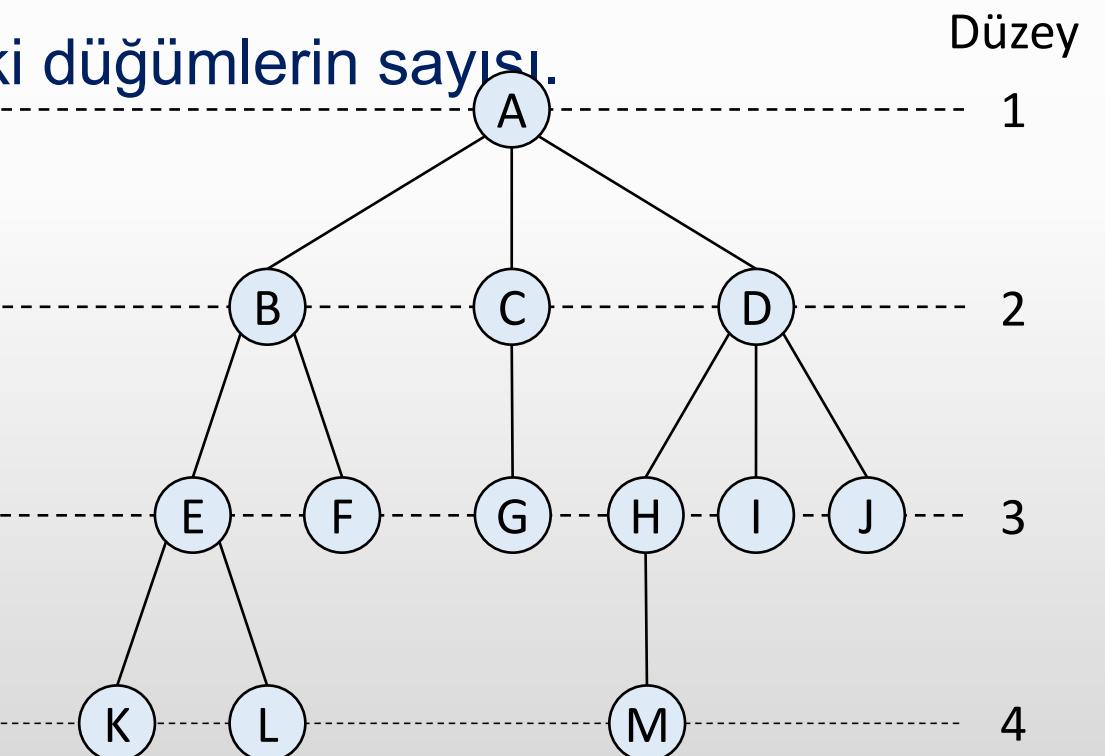
- Bir düğümün kök düğüme olan uzaklığını ifade eder.
- **Örnek:**
 - Kökten yaprak düğüme kadar olan kenarların sayısı





Yükseklik (Height)

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





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.

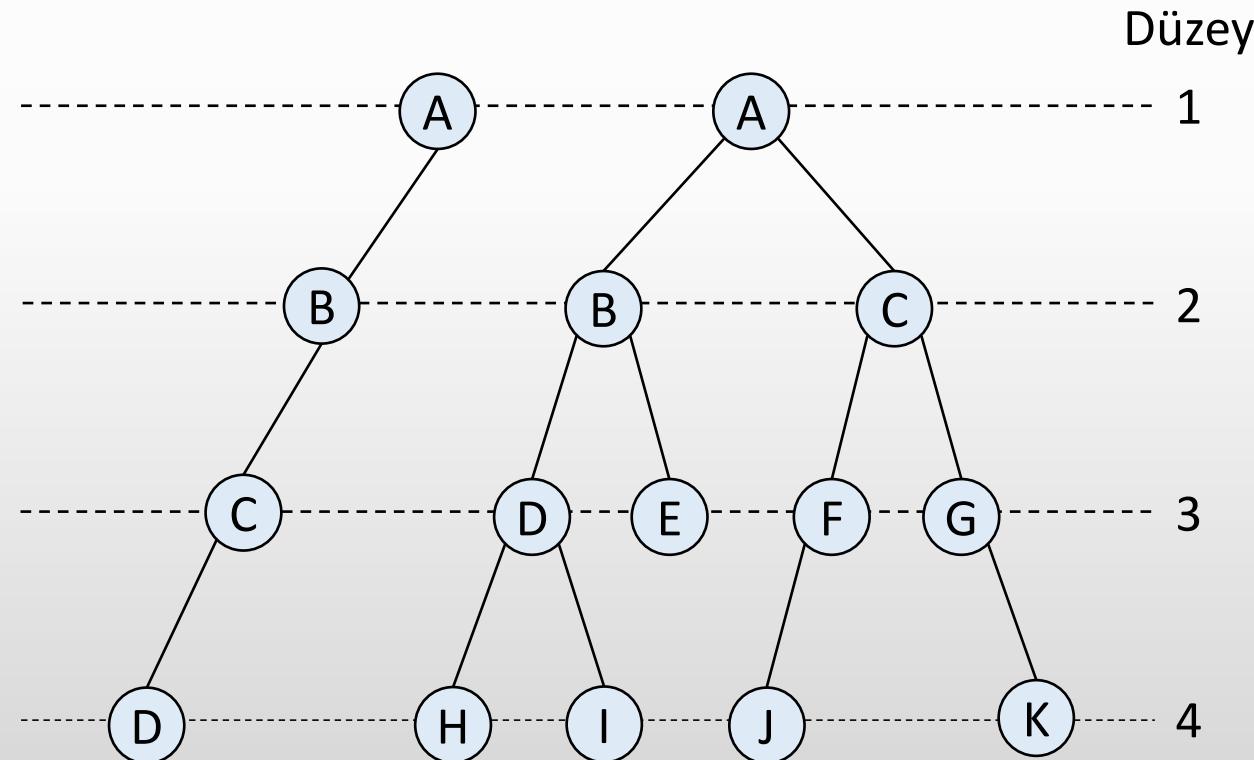
İkili Ağaç





İkili Ağaç

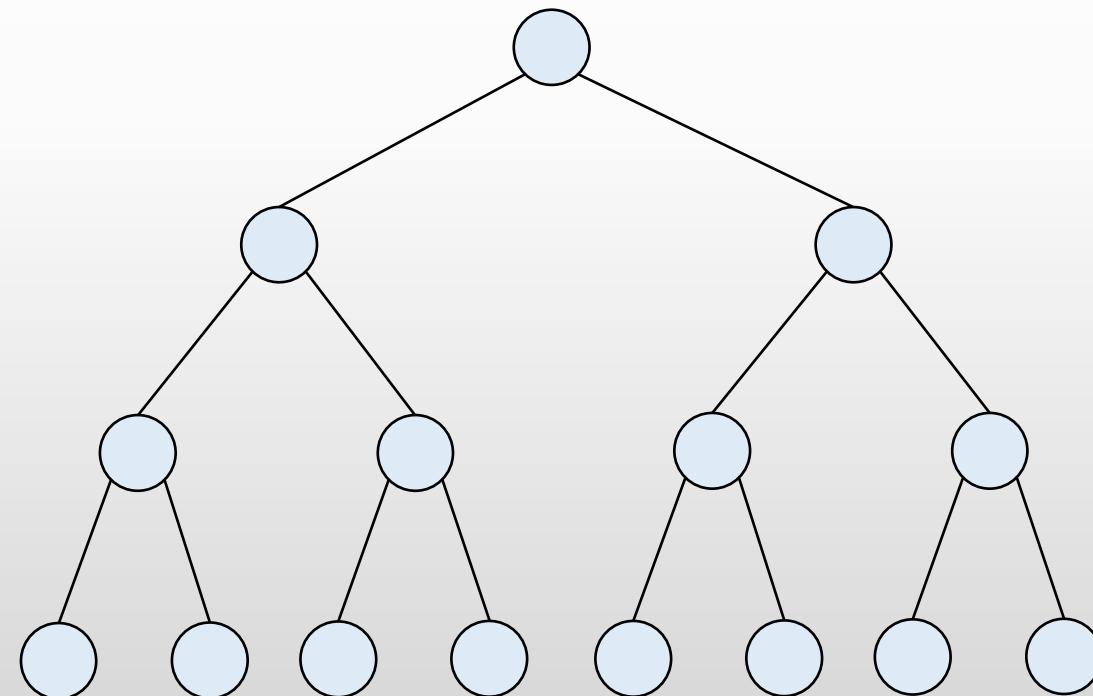
- Her düğüm en fazla iki çocuğa sahip olabilir. Düğümler rastgele dağılmış olabilir.





Dolu Ağaç (Full Tree)

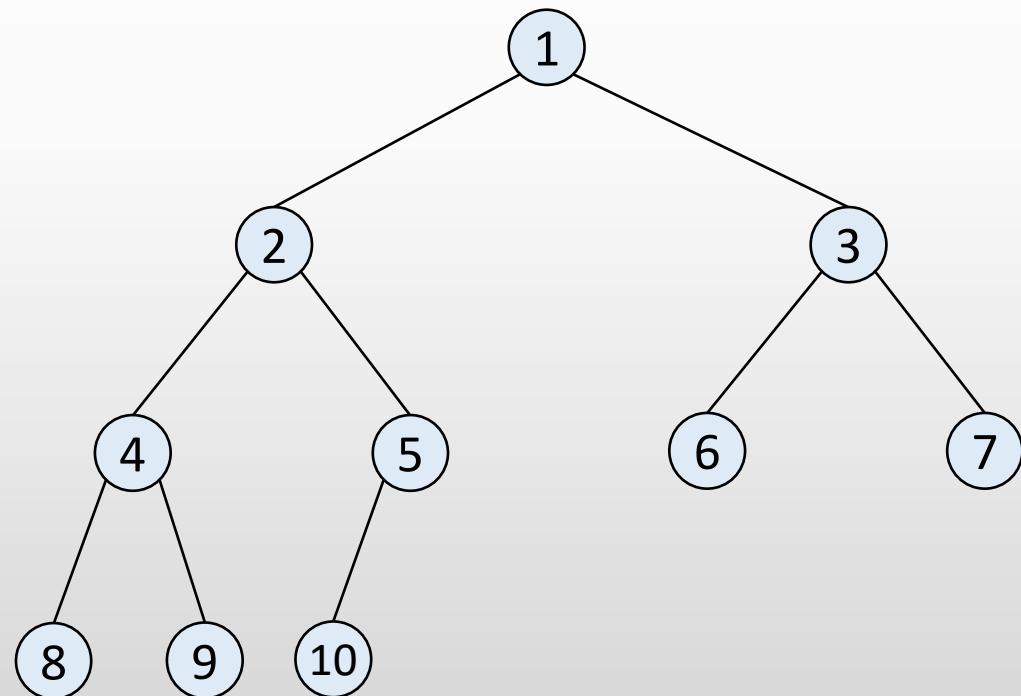
- Her düğümün ya hiç çocuğu yoktur ya da iki çocuğu vardır. Her seviyede maksimum düğüm sayısına sahiptir. Yaprak düğümlerin tamamı aynı seviyededir.





Tam Ağaç (Complete Tree)

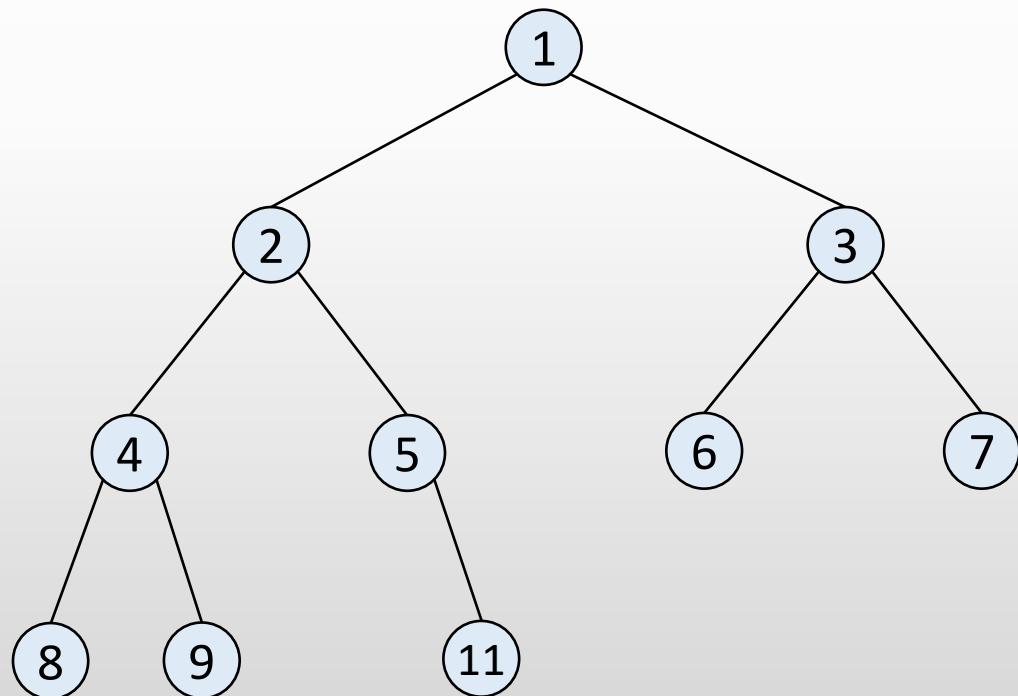
- Son seviyede bazı düğümler eksik olabilir. (1) Tüm seviyelerdeki düğümler soldan sağa doğru yerleştirilmiştir.





Tam Ağaç (Complete Tree)

- Son seviyede bazı düğümler eksik olabilir. (2) Tüm seviyelerdeki düğümler soldan sağa doğru yerleştirilmemiştir.





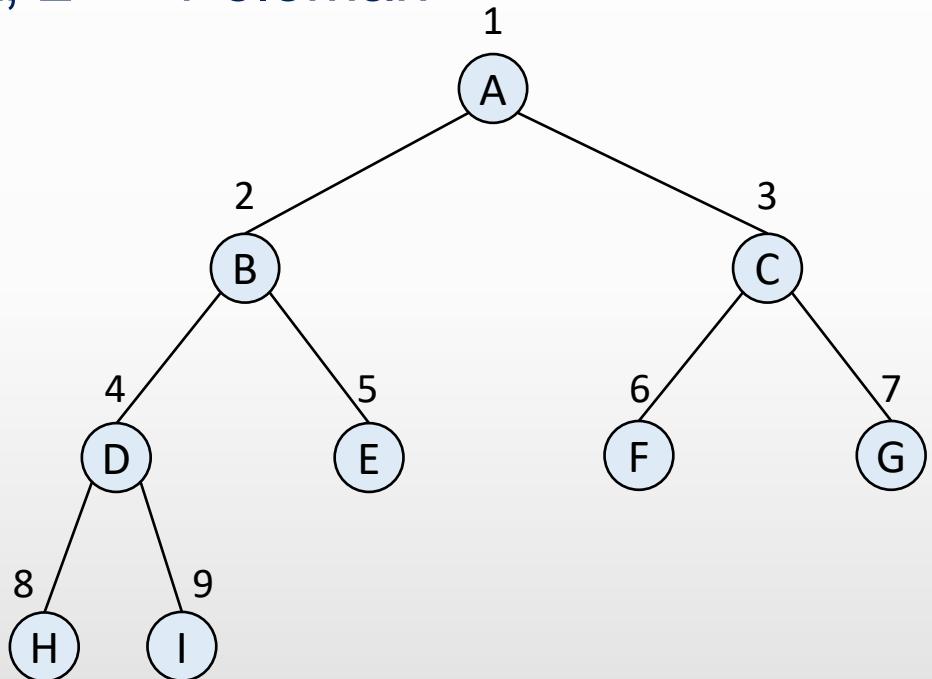
Dizi Temsili

- 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 düğümlerinin 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

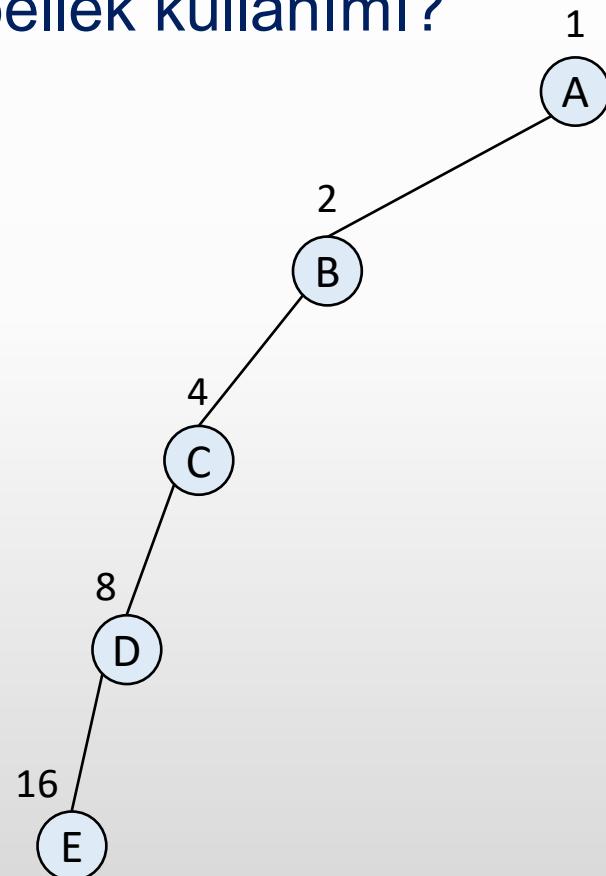


1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I



Dizi Temsili

- Verimsiz bellek kullanımı?

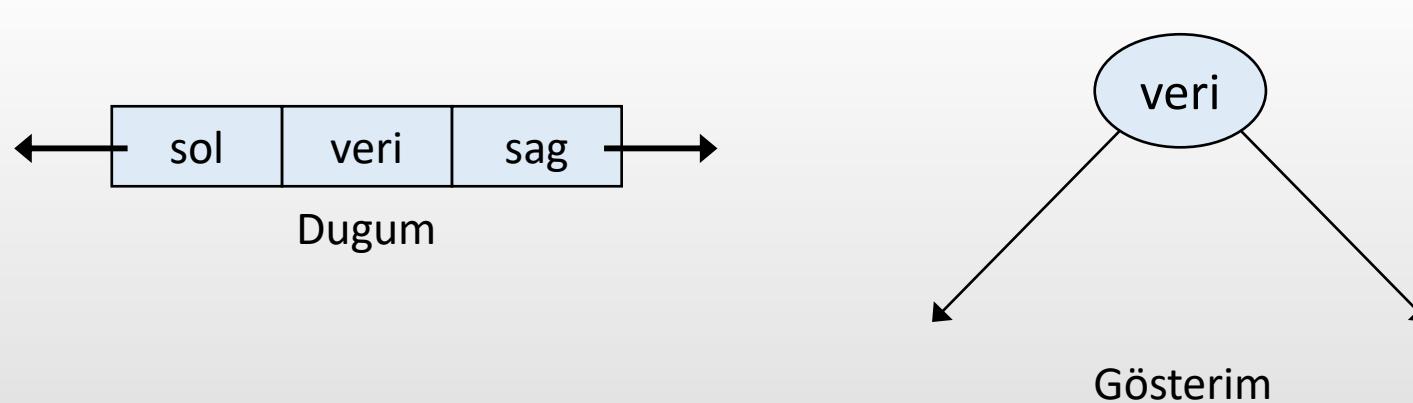


1	A
2	B
3	
4	C
...	
8	D
...	
16	E
...	
31	



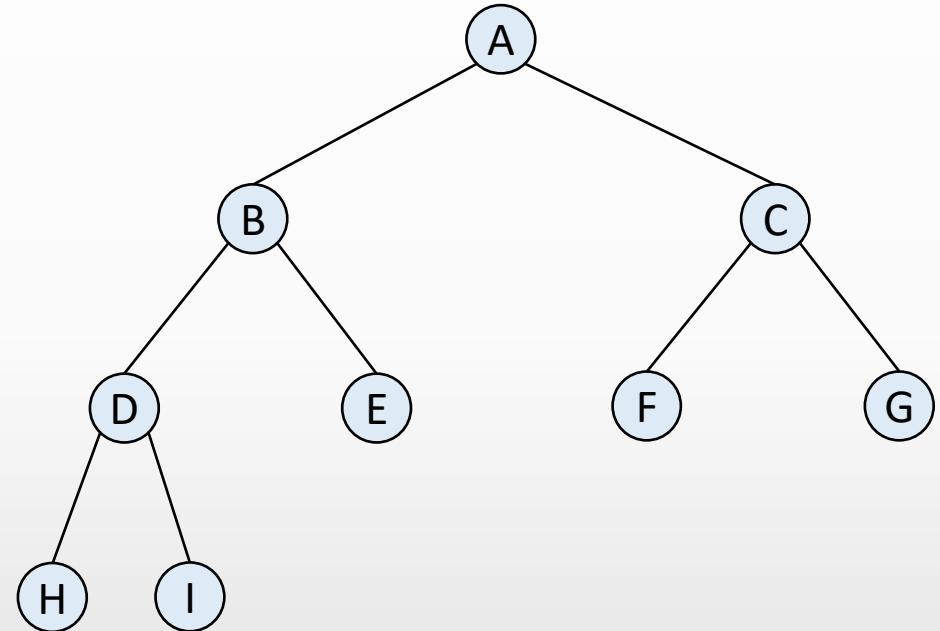
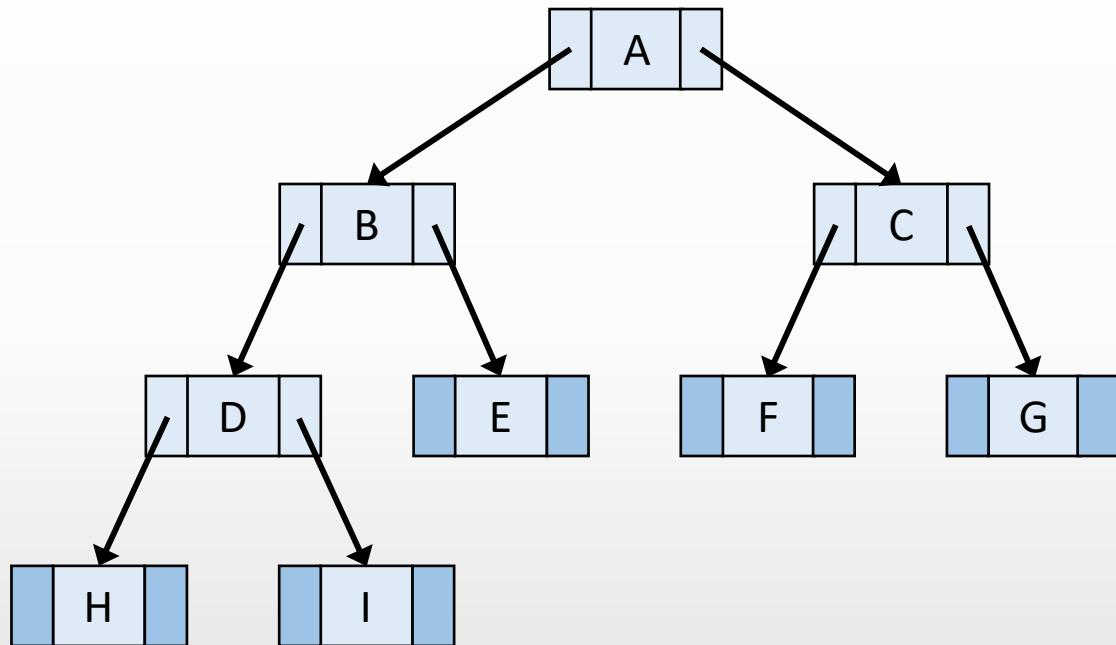
Bağlı Liste Temsili

- 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.



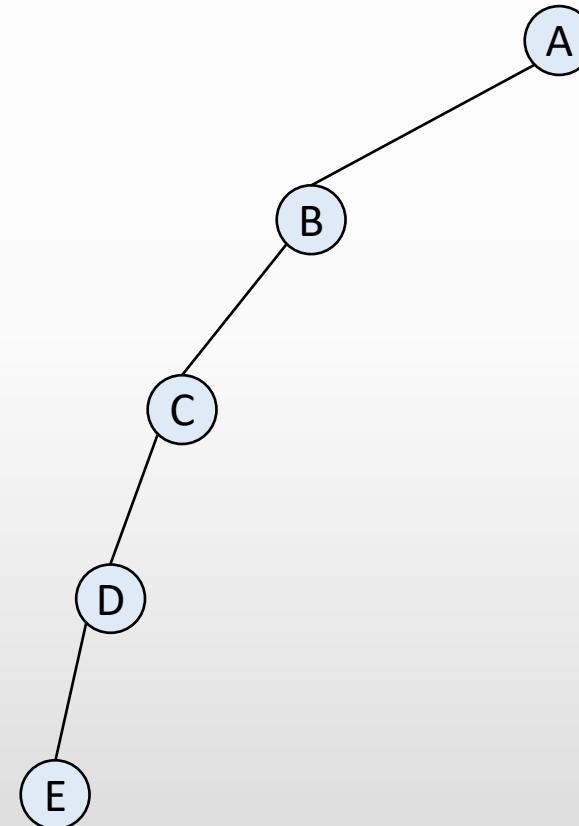
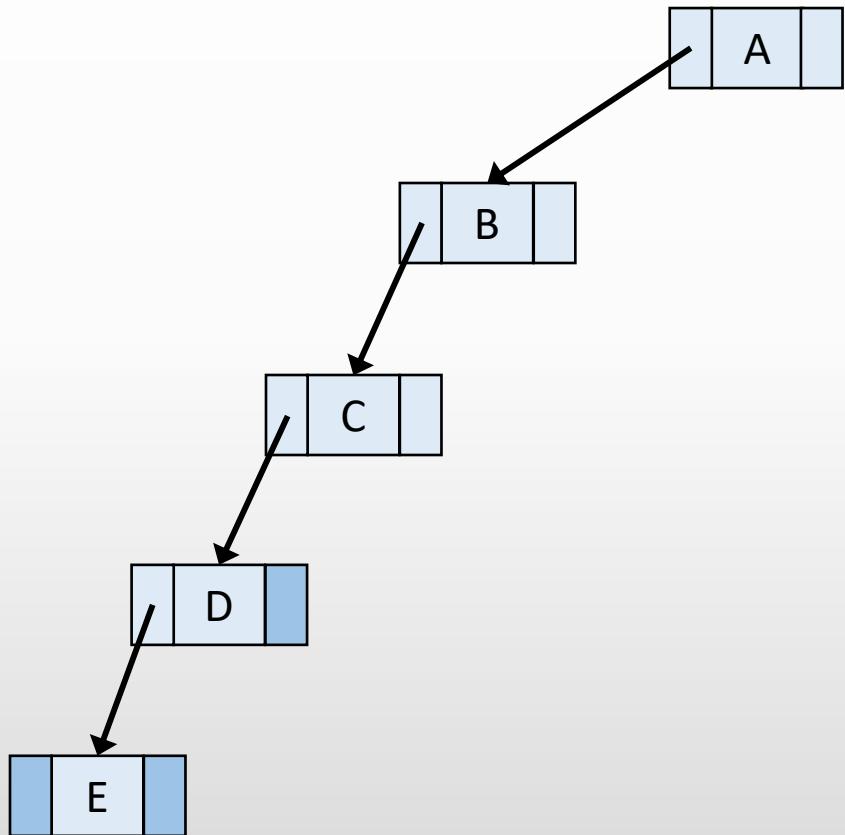


Bağılı Liste Temsili



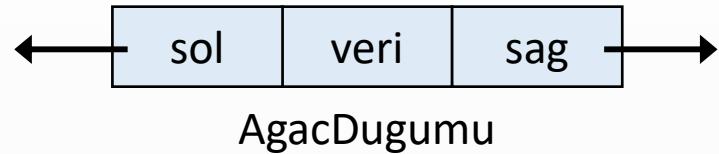


Bağılı Liste Temsili





Bağılı 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 Başta - Ön Sıra Gezintisi (Preorder)

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

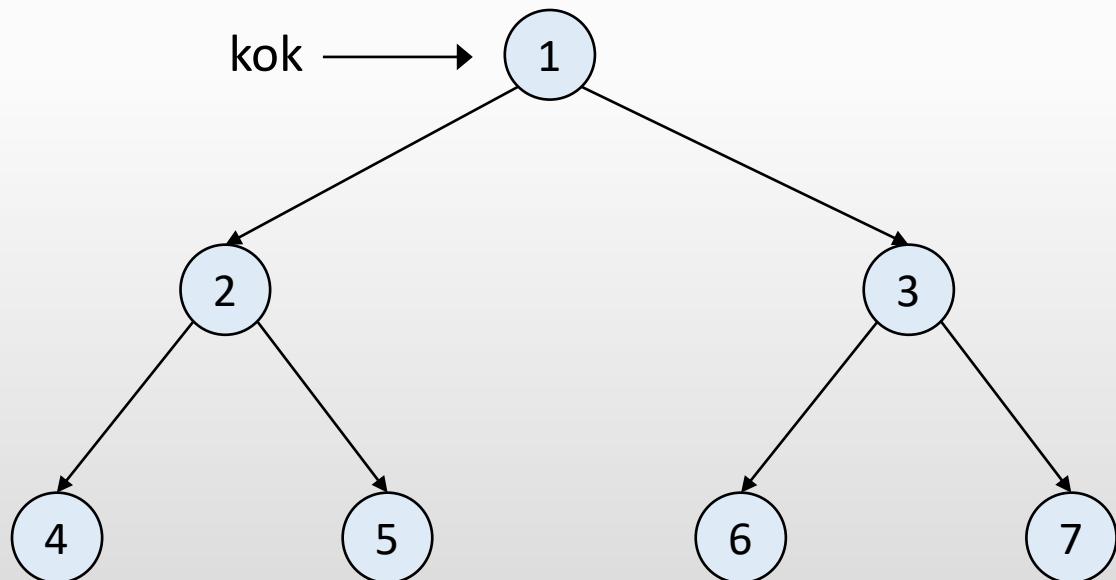
Kök Başta (Preorder) Dolaşımı





Kök Başta (Preorder) Dolaşımı

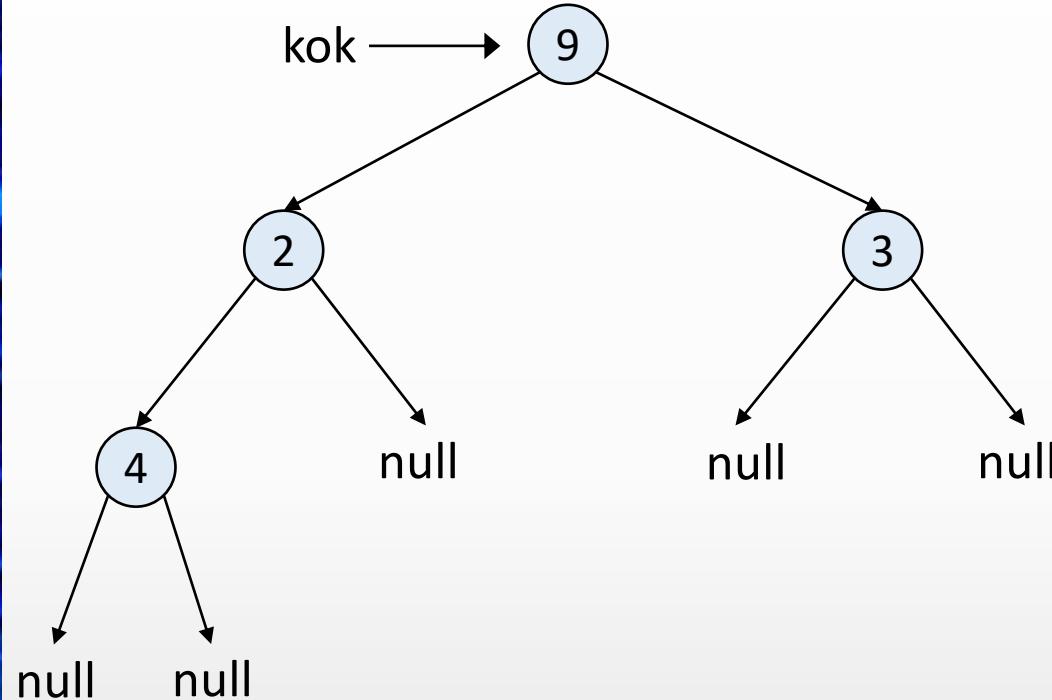
- Kök düğümü ziyaret et.
- Kök başta olacak şekilde sol alt ağacı dolaş.
- Kök başta olacak şekilde sağ alt ağacı dolaş.



Kök başta dolaşımı: 1 2 4 5 3 6 7



Çağrıma Yığıtı (Call Stack)



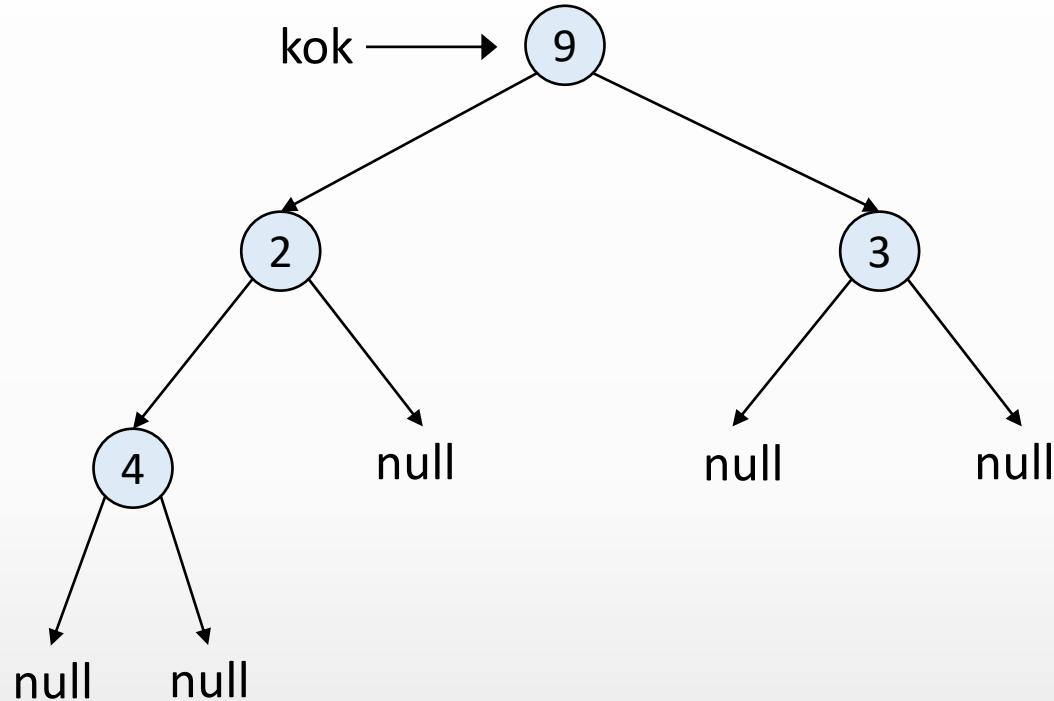
Çıktı:

Metot Çağrımı	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);  
7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
kokBasta()		9

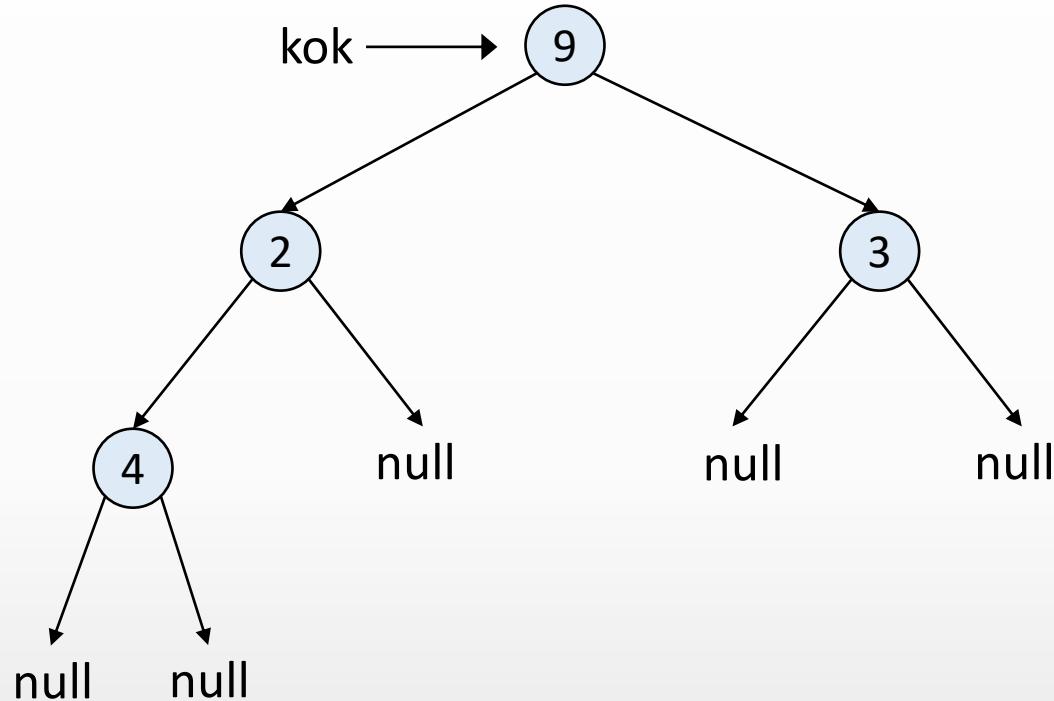
Çıktı:

→

```
1 public void kokBasta(AgacDugumu kok) {  
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4     }  
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```



Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
kokBasta()		9

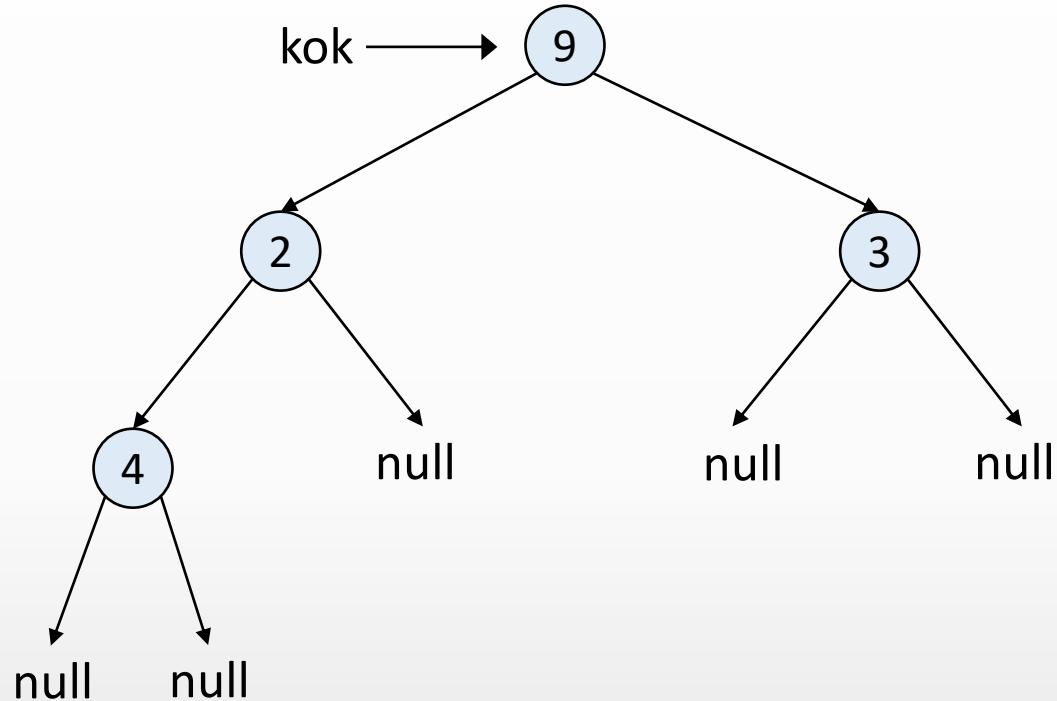


Çıktı:

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



Çağırma Yığıtı (Call Stack)



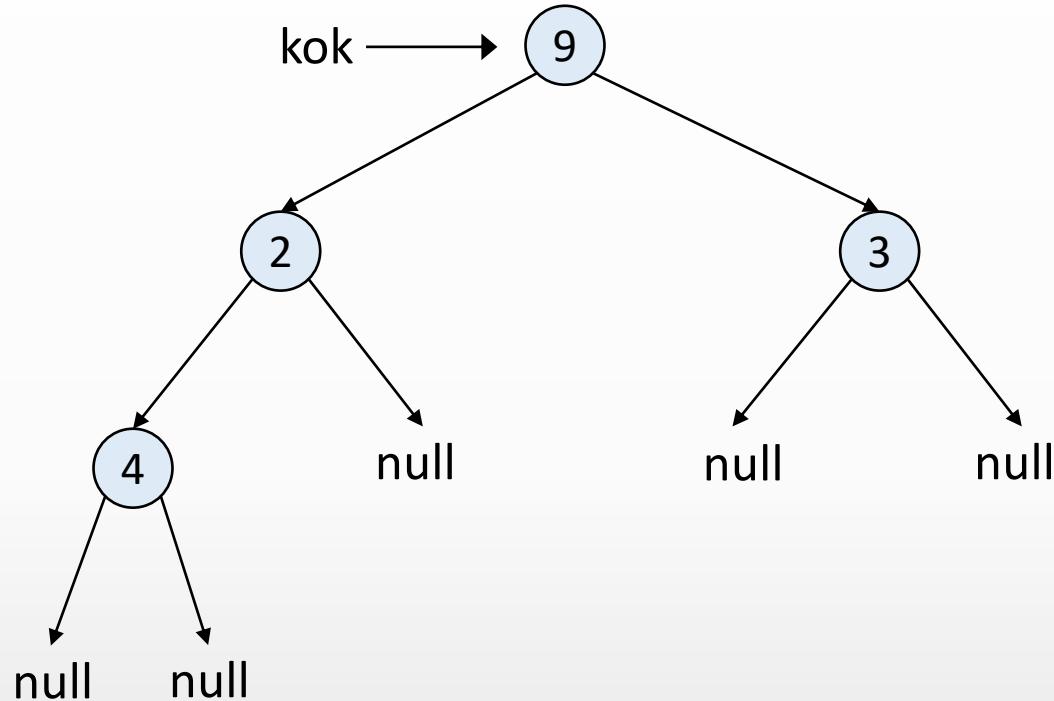
Metot Çağrımı	Satır Numarası	Kök
kokBasta()		9

Çıktı: 9

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1 public void kokBasta(AgacDugumu kok) {  
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7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



Çıktı: 9



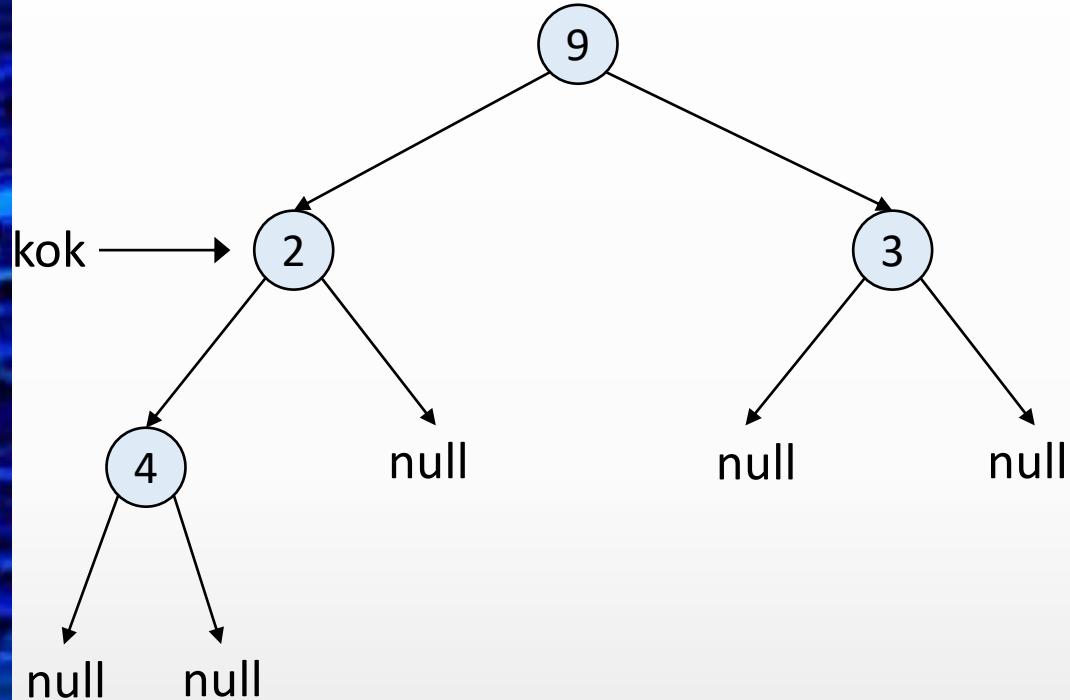
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9



```
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 Yığıtı (Call Stack)



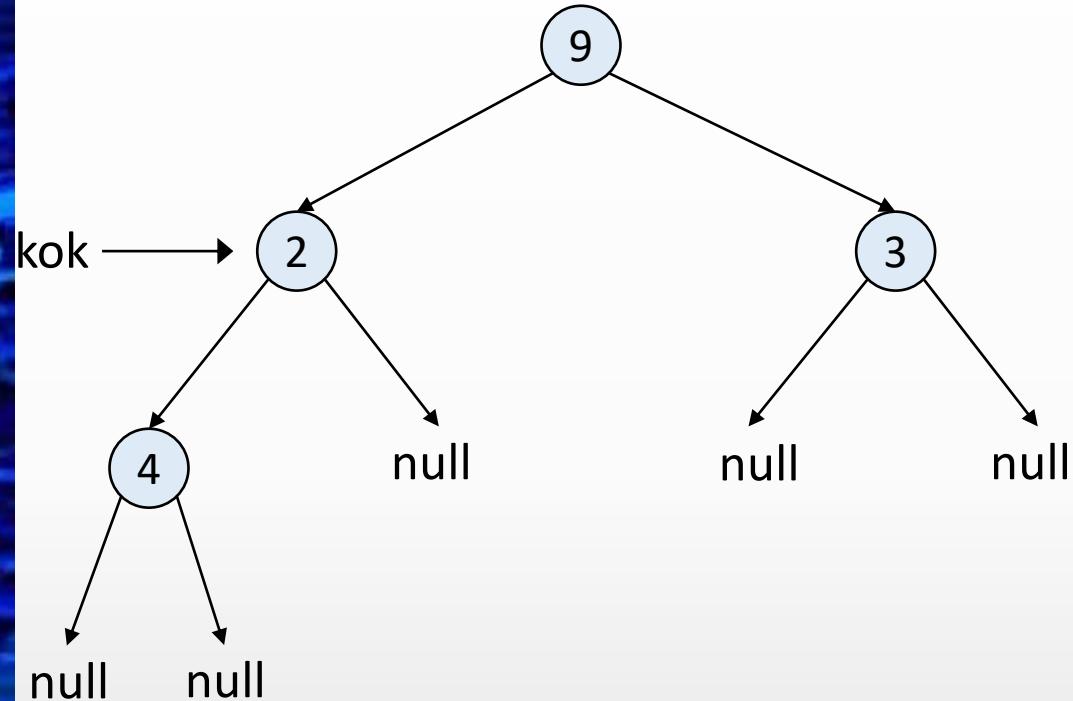
Çıktı: 9

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

```
→ 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 Yığıtı (Call Stack)



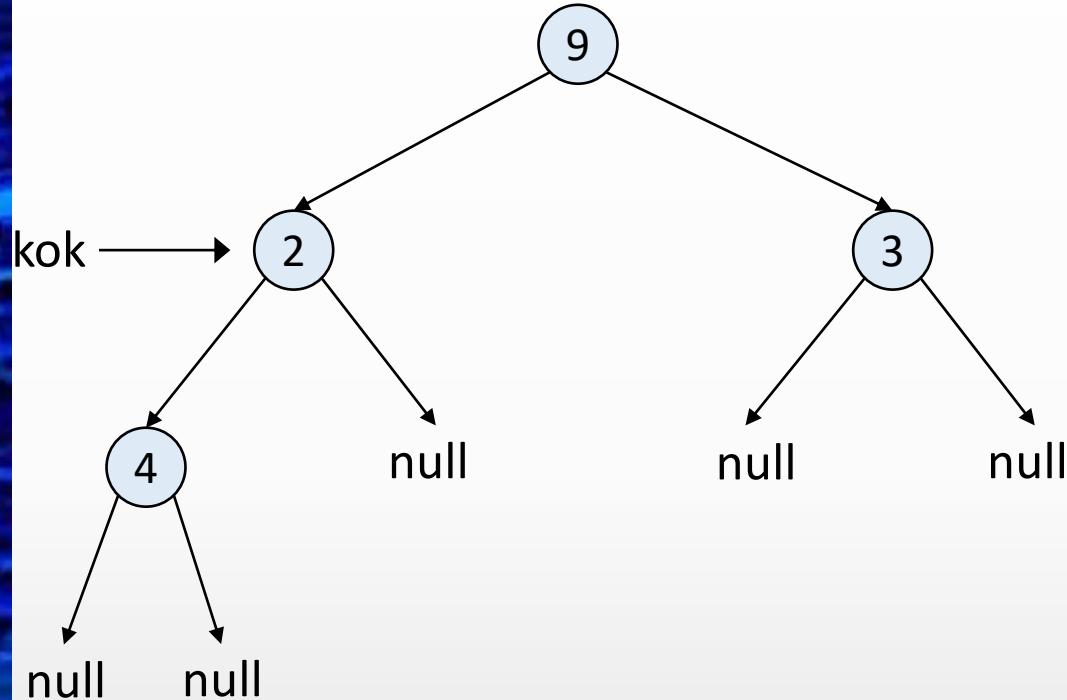
Çıktı: 9

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

```
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)



Cıktı: 9 2



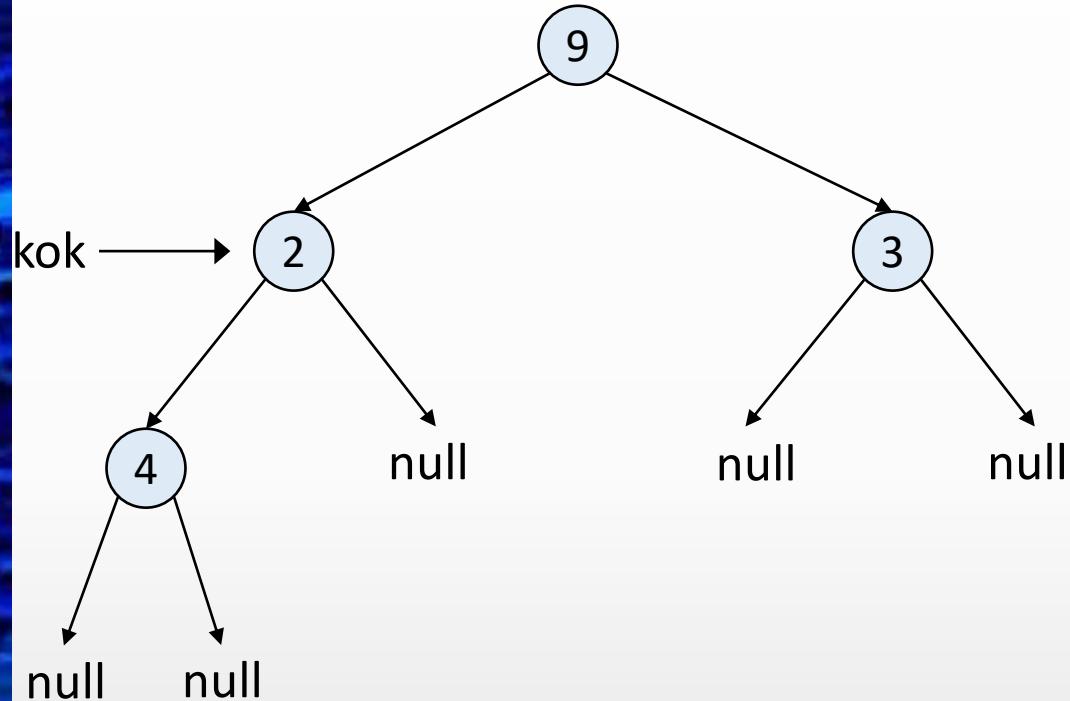
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()		2



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



Çağırma Yığıtı (Call Stack)



Çıktı: 9 2



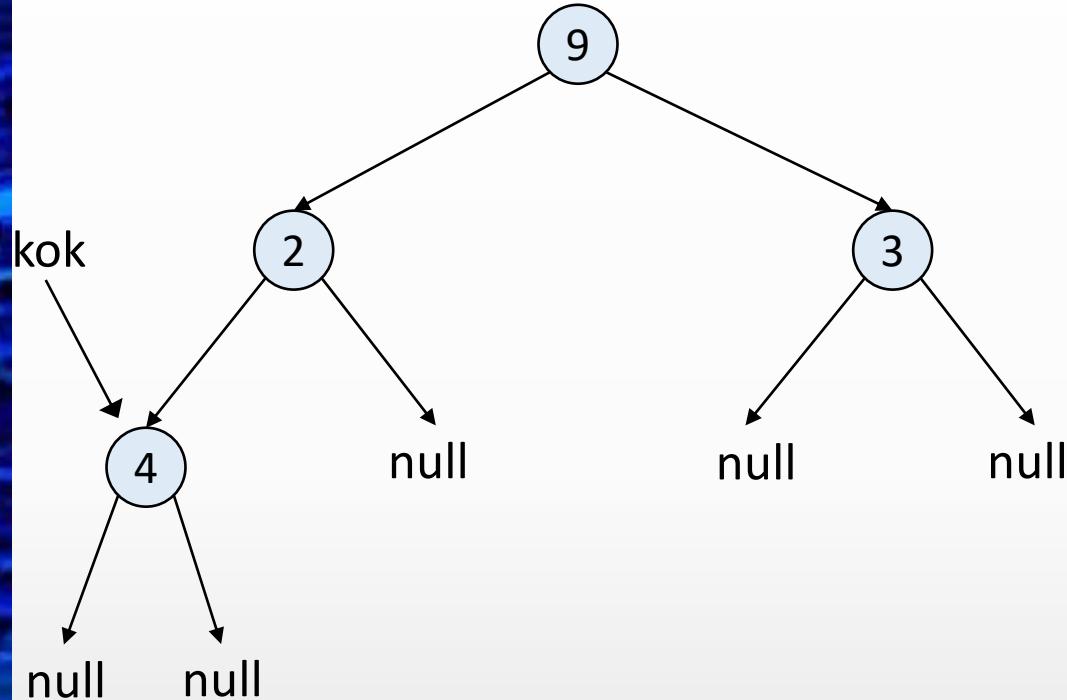
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



```
1 public void kokBasta(AgacDugumu kok) {  
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4     }  
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7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



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

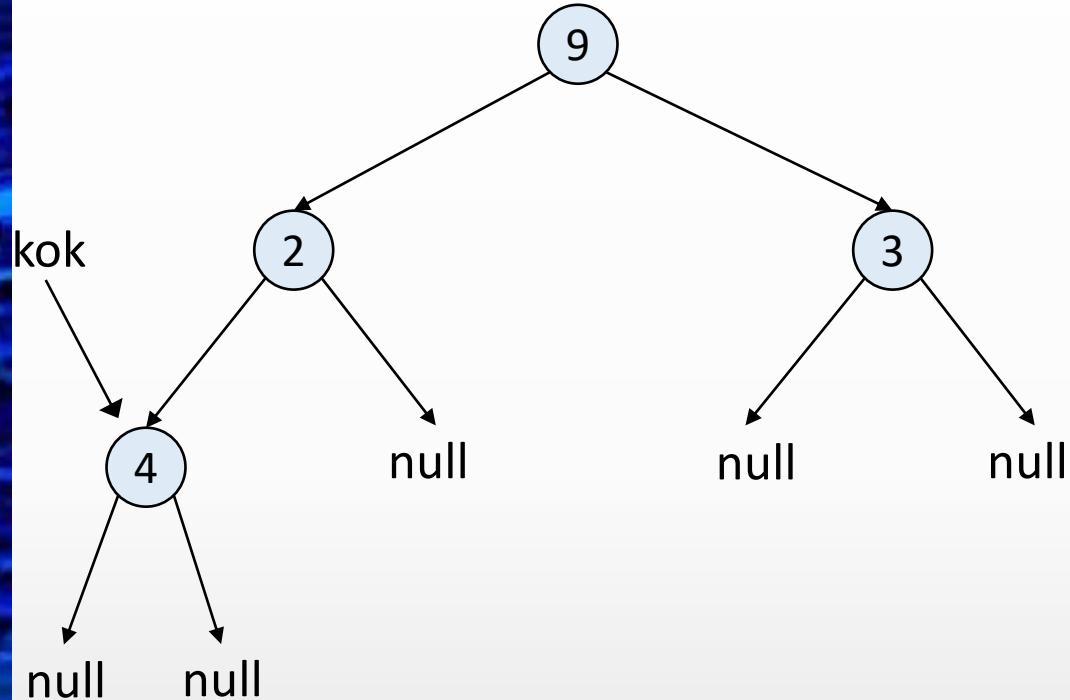


Cıktı: 9 2

```
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 Yığıtı (Call Stack)



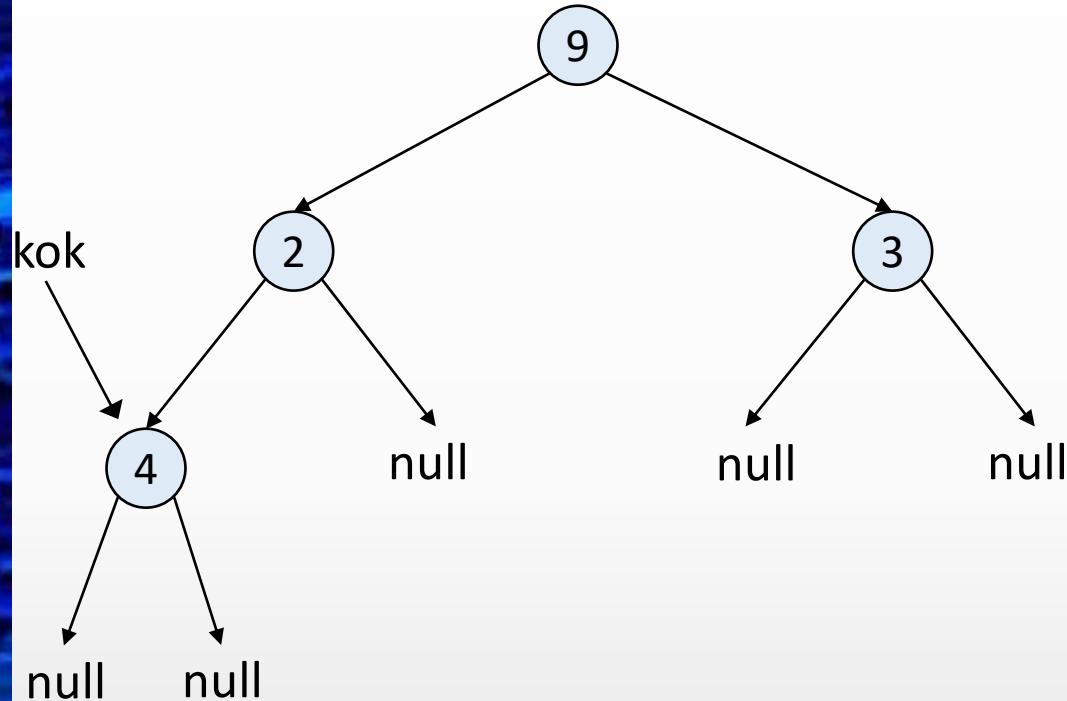
Cıktı: 9 2

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

```
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 Yığıtı (Call Stack)



Cıktı: 9 2 4



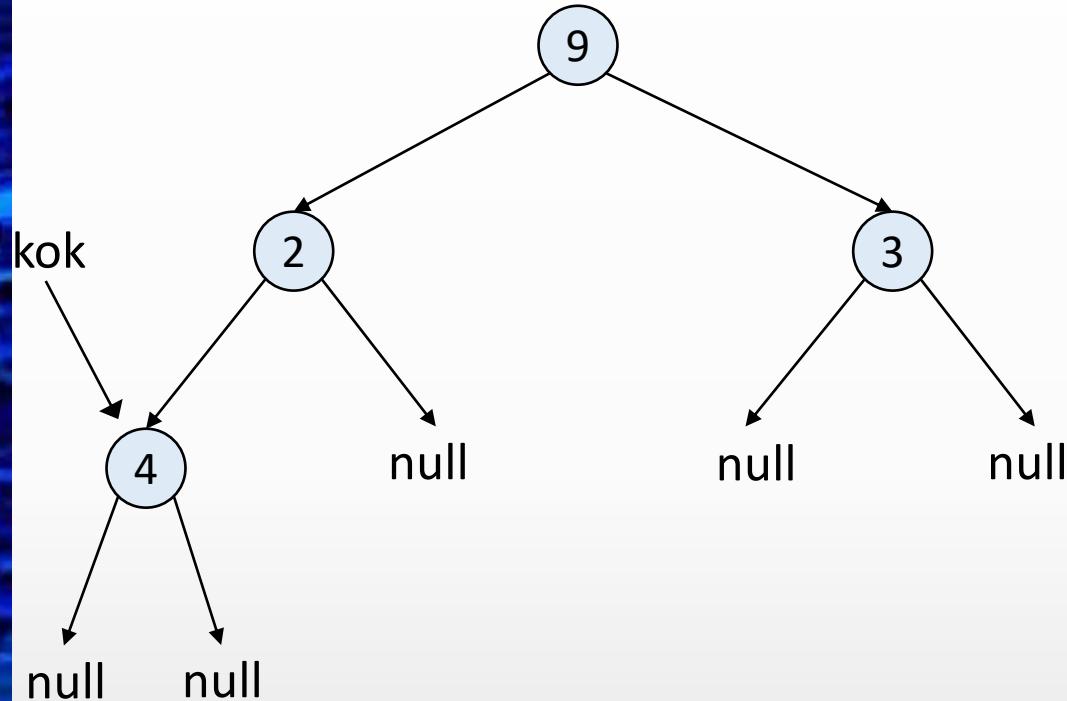
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()		4



```
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 Yığıtı (Call Stack)



Cıktı: 9 2 4



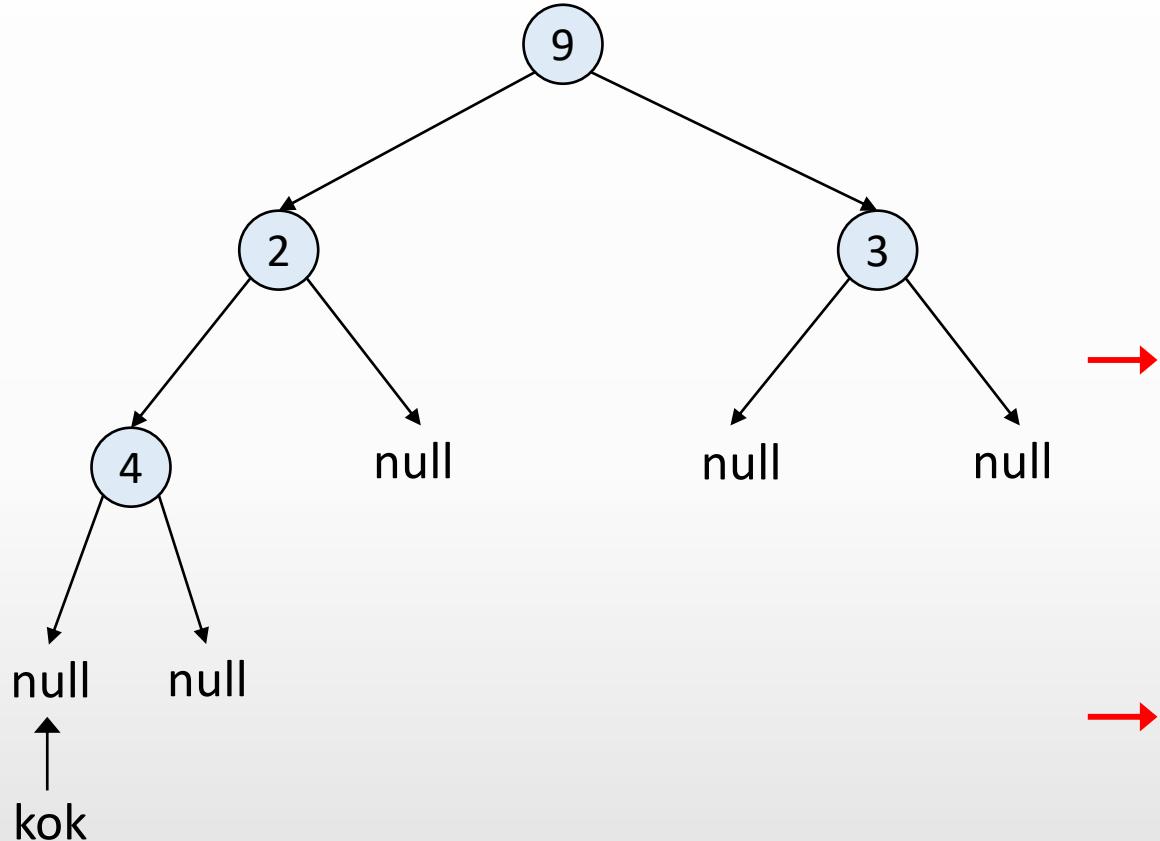
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4



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



Çağırma Yığıtı (Call Stack)

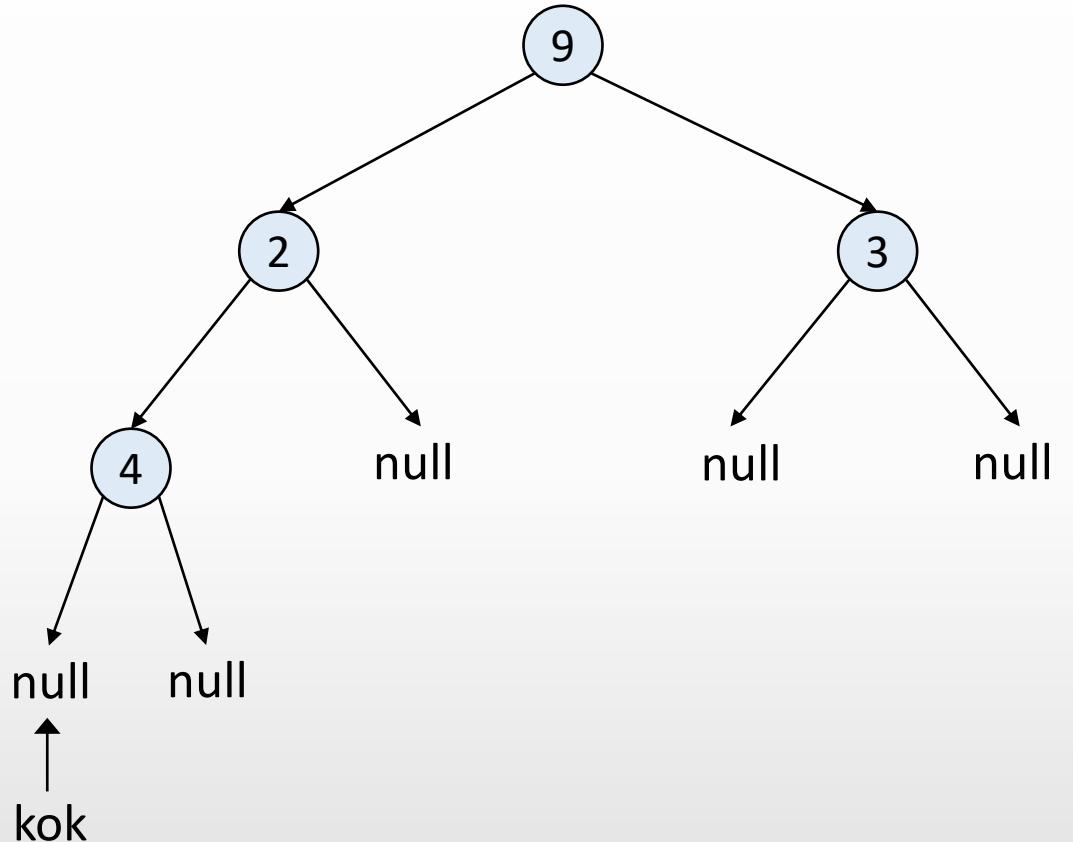


Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4
kokBasta()		null

```
→ 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 Yığıtı (Call Stack)



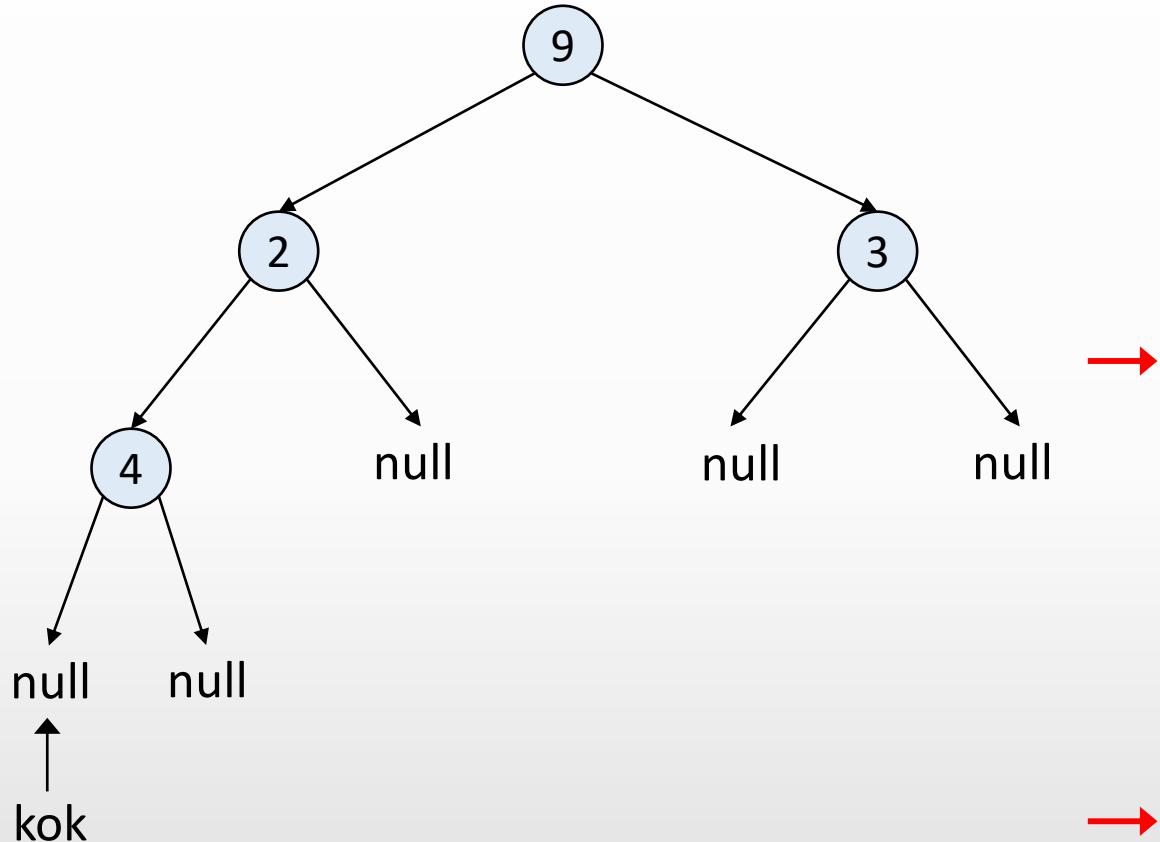
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4
kokBasta()		null

```
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 Yığıtı (Call Stack)



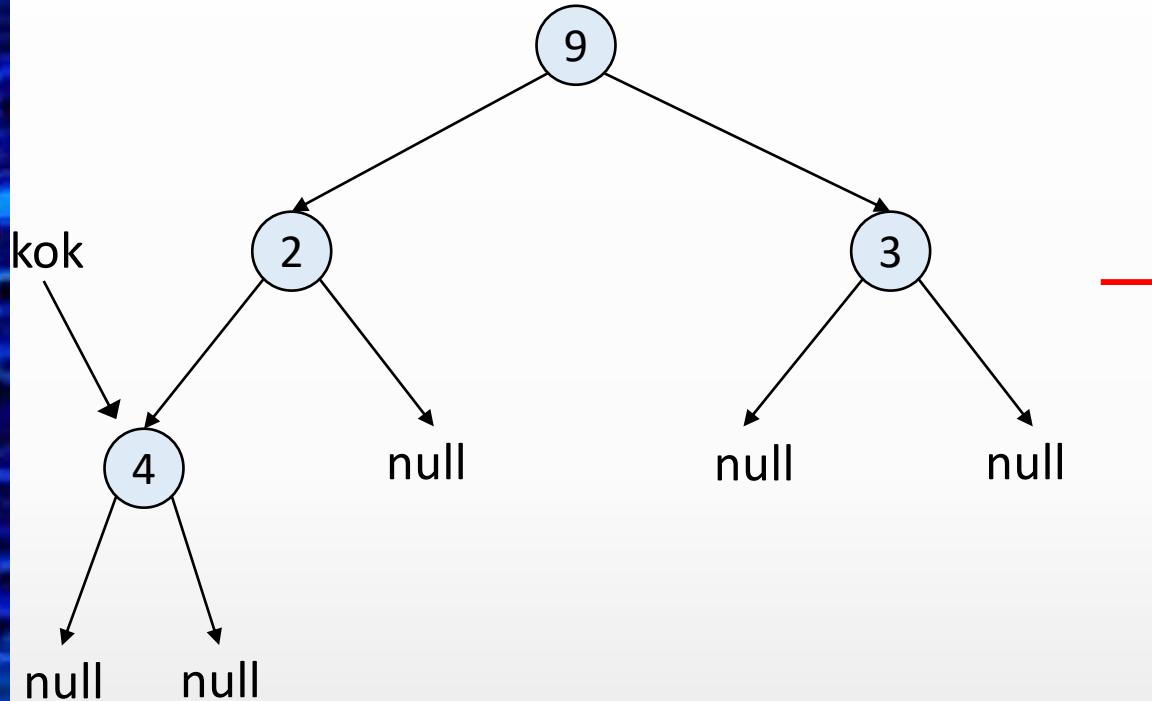
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4
kokBasta()		null

```
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 Yığıtı (Call Stack)



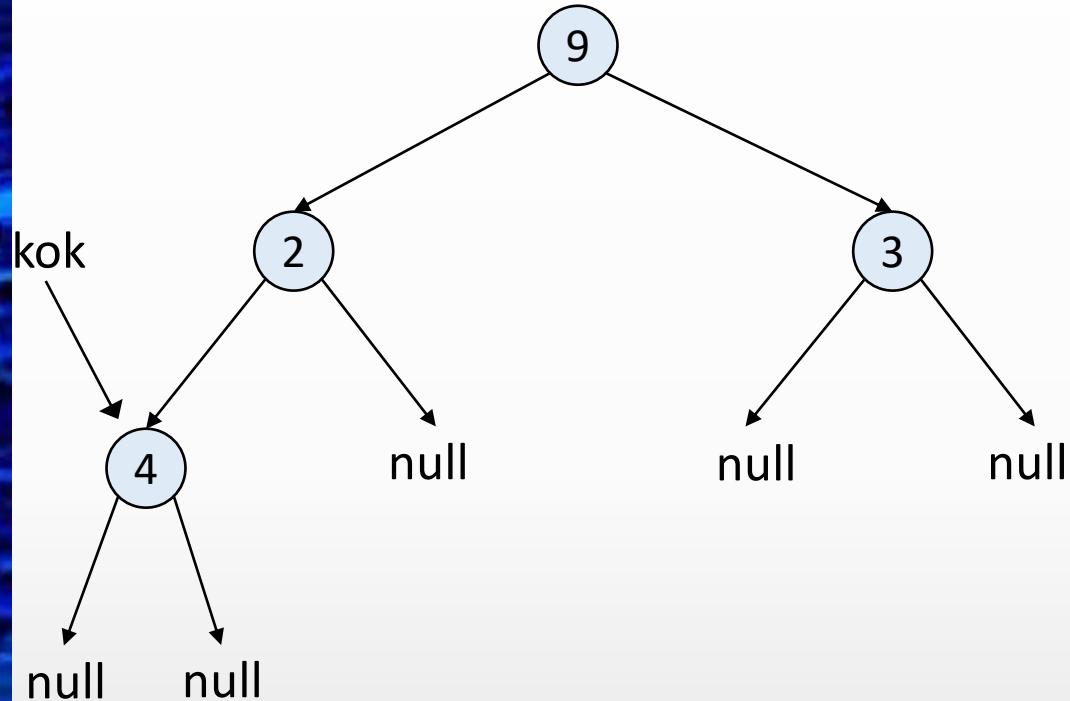
Cıktı: 9 2 4

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

```
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 Yığıtı (Call Stack)

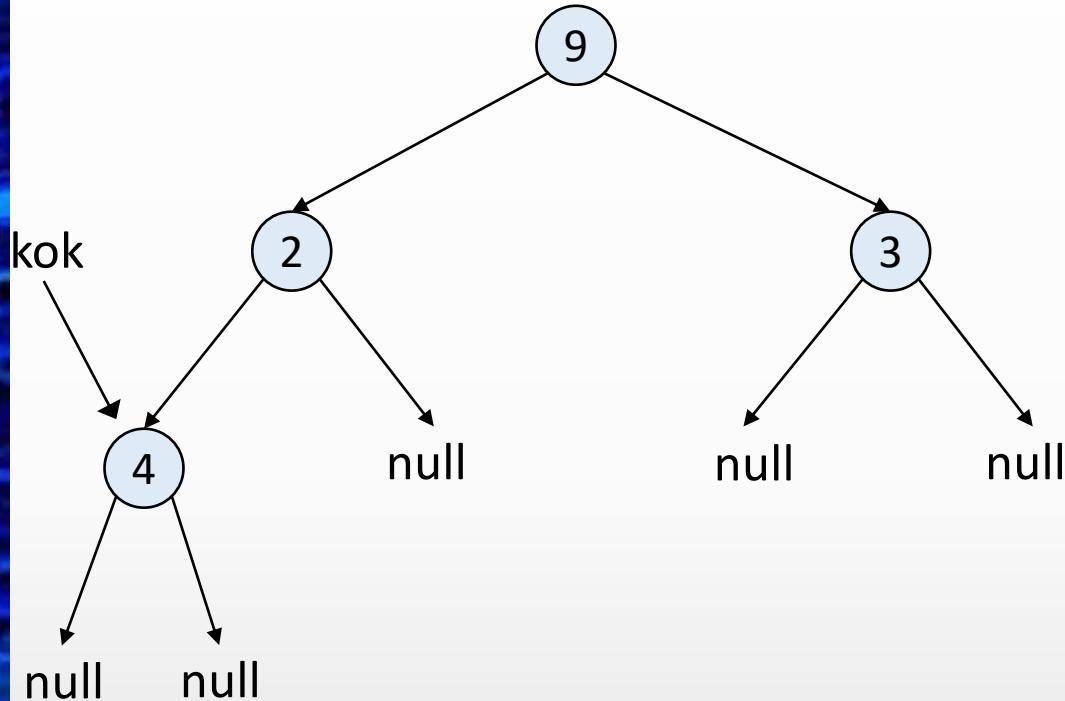


Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4

```
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 Yığıtı (Call Stack)



Cıktı: 9 2 4



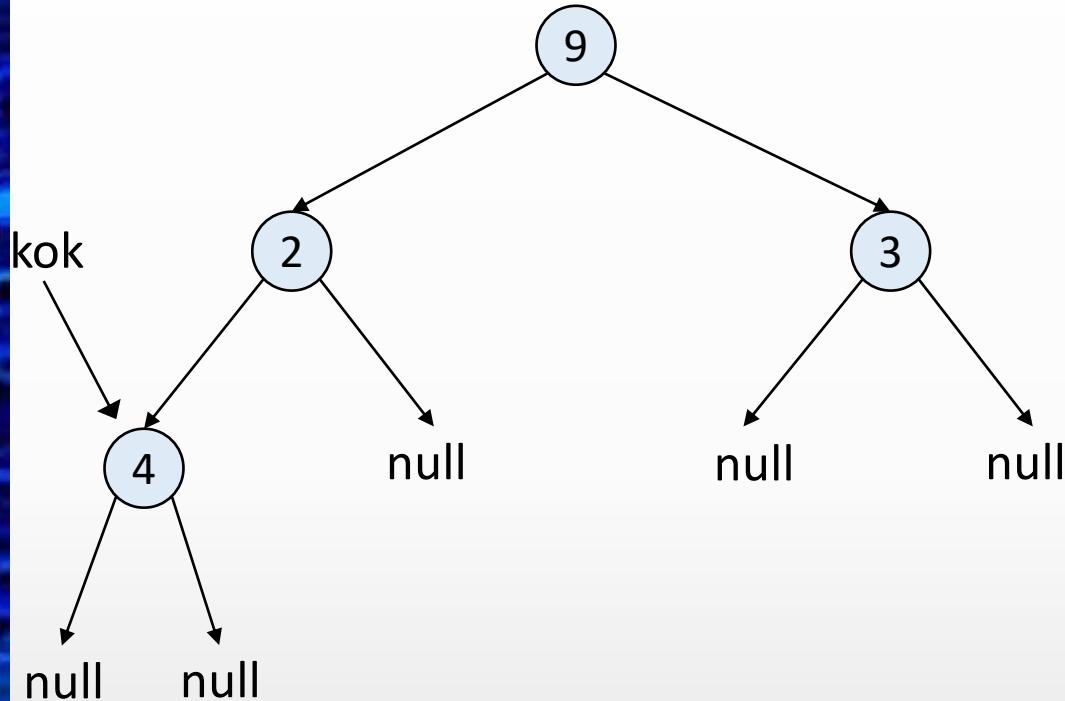
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4



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



Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4



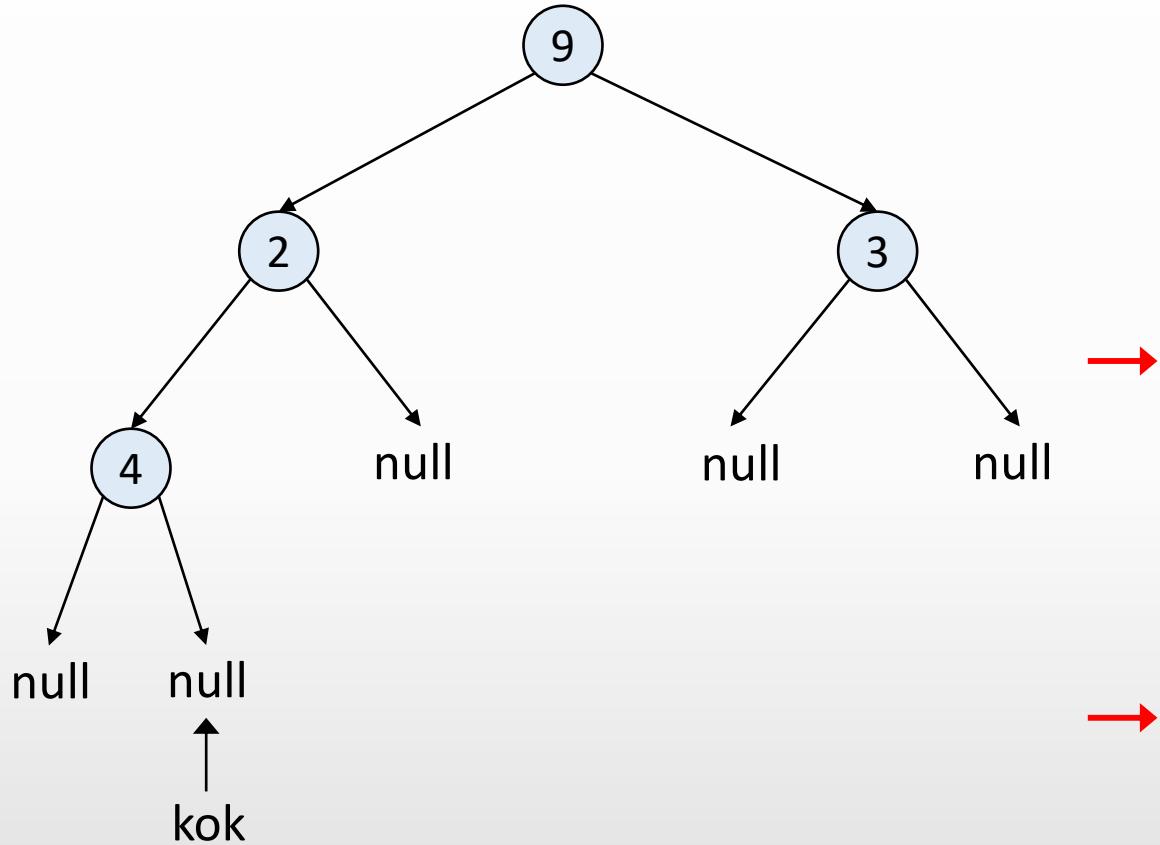
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4



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



Çağırma Yığıtı (Call Stack)

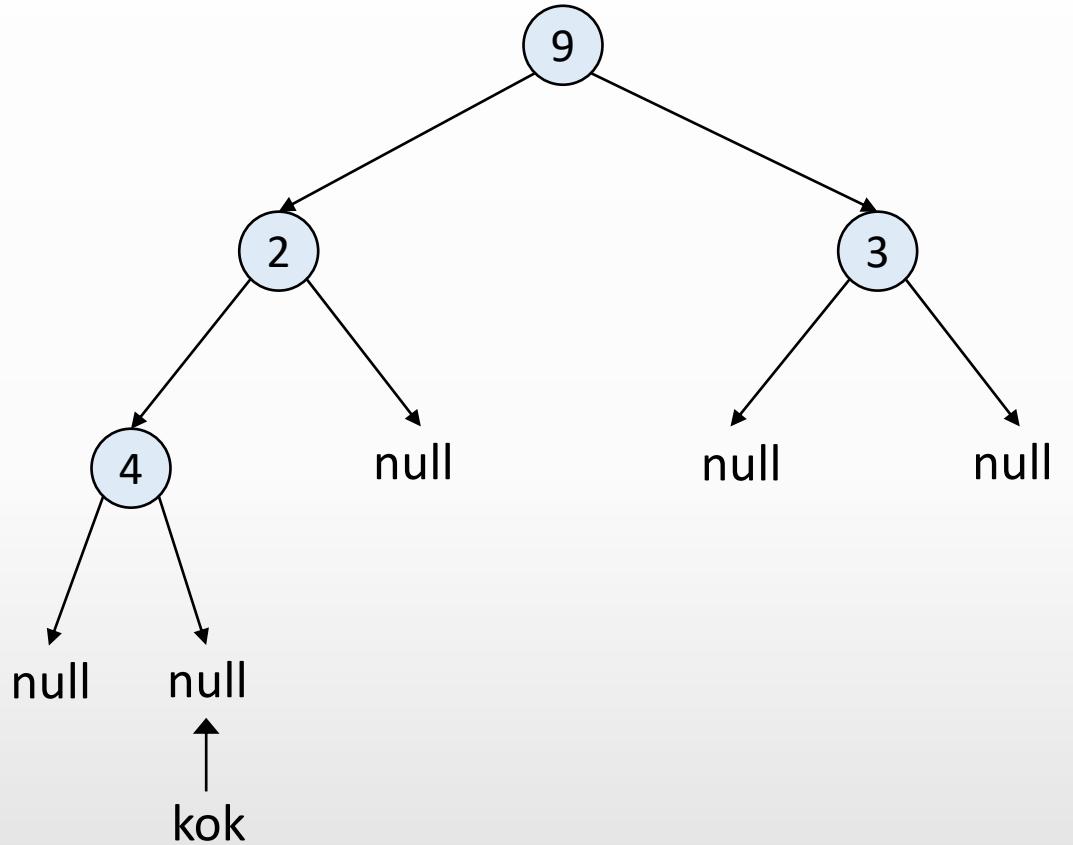


Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4
		null

```
→ 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 Yığıtı (Call Stack)



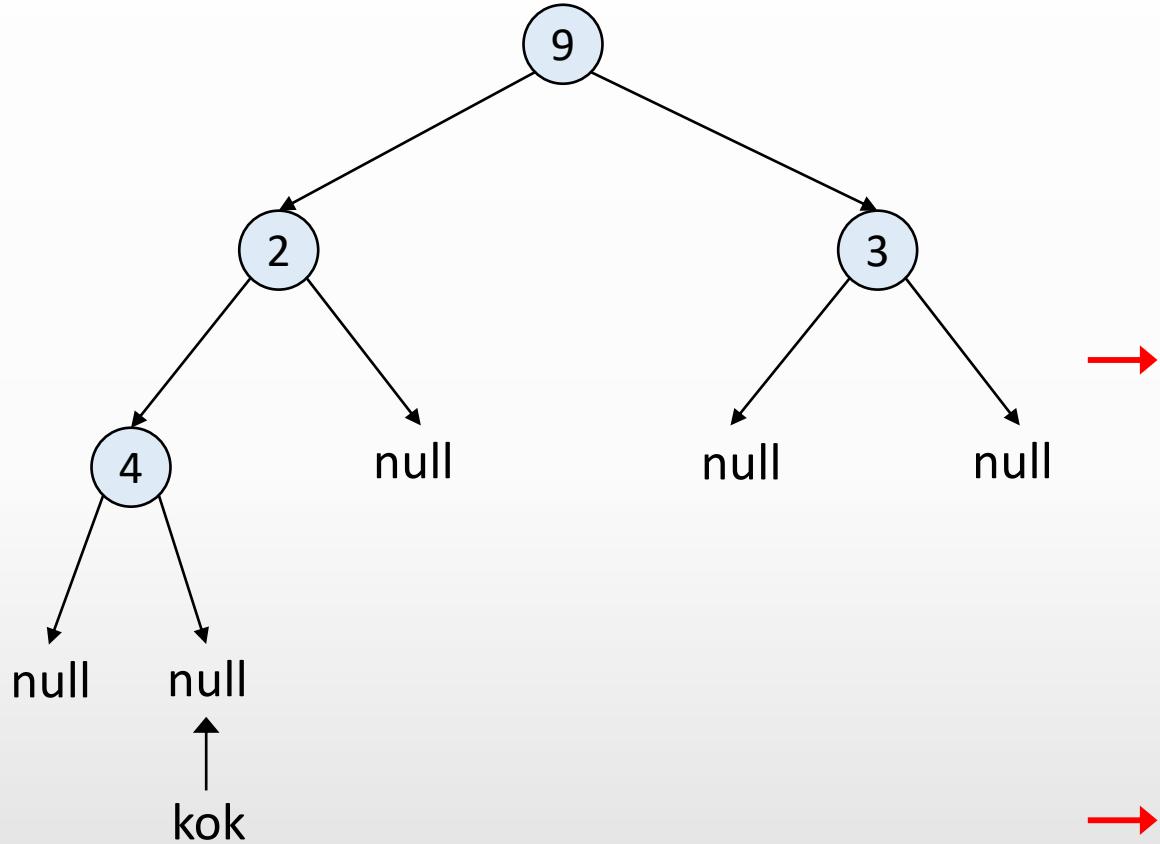
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4
		null

```
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 }
```



Çağırma Yığıtı (Call Stack)



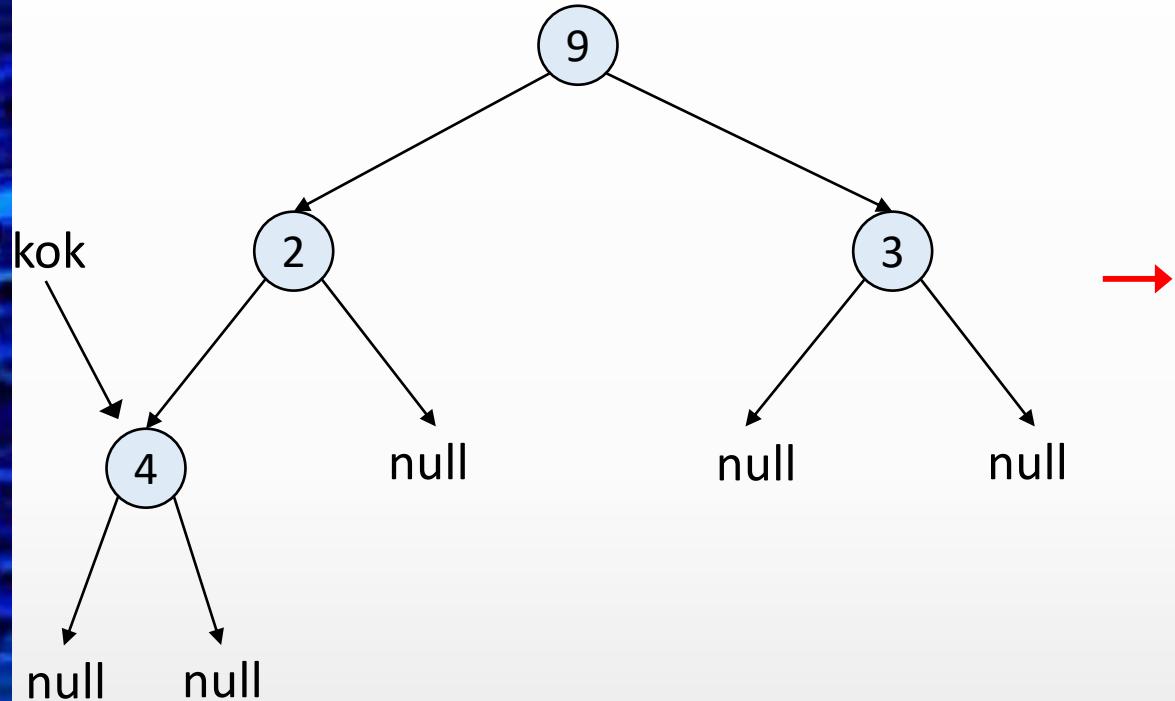
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4
		null

```
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 Yığıtı (Call Stack)



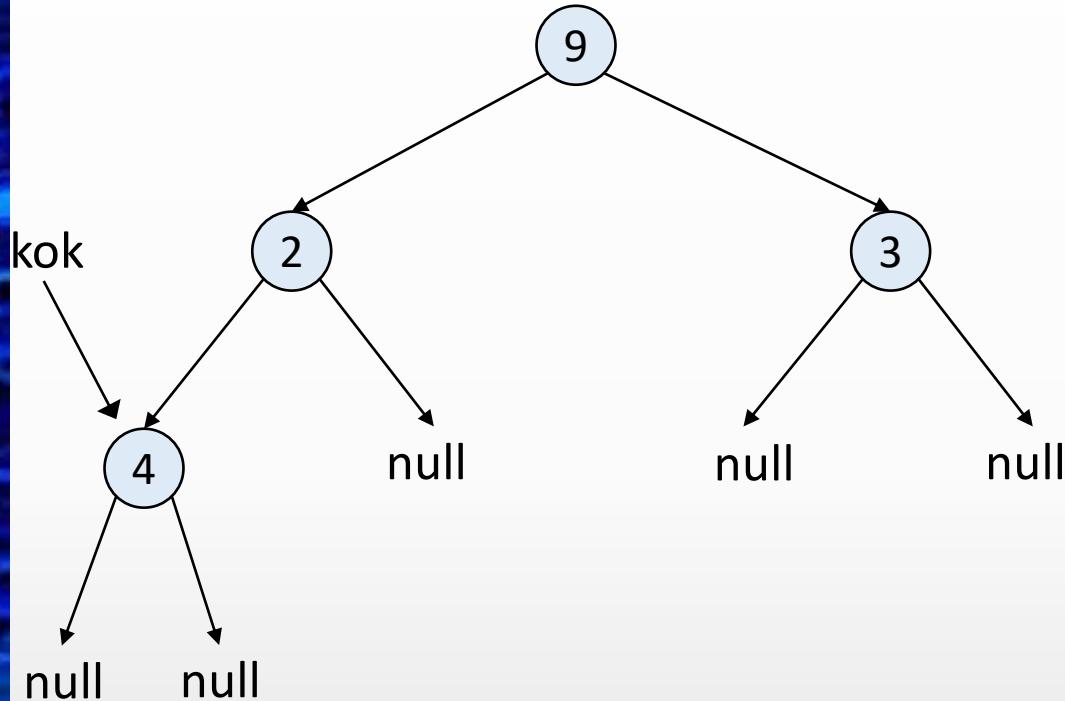
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4

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



Çağırma Yığıtı (Call Stack)



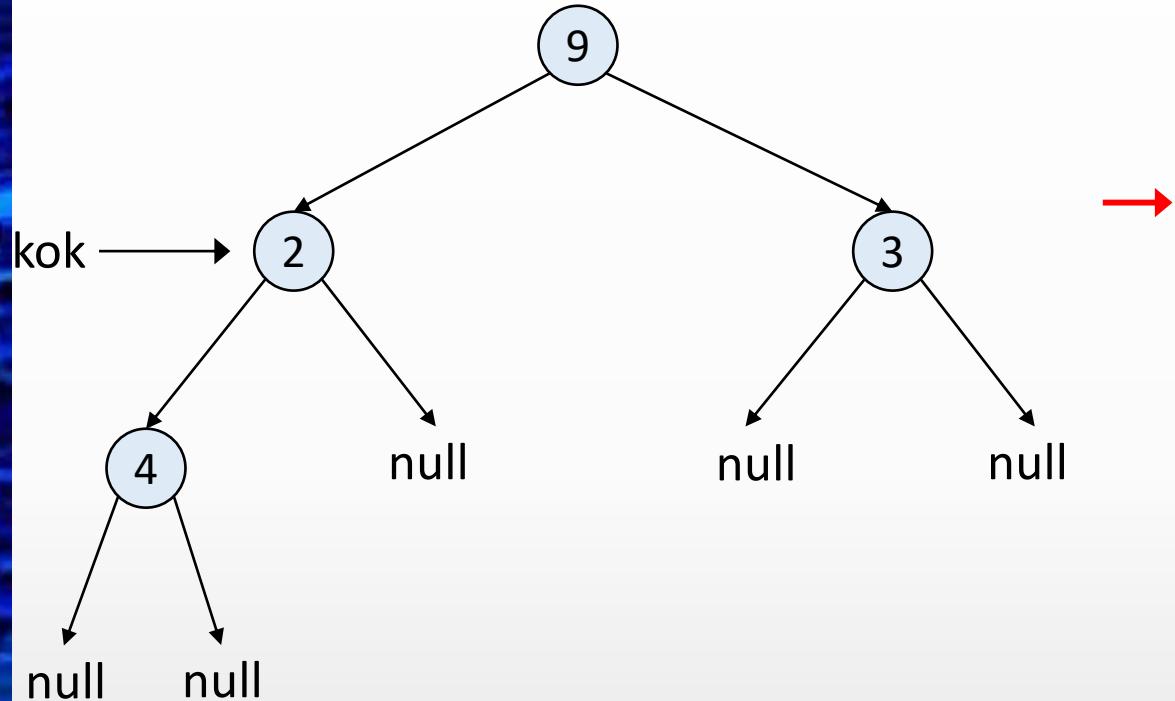
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4

```
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)



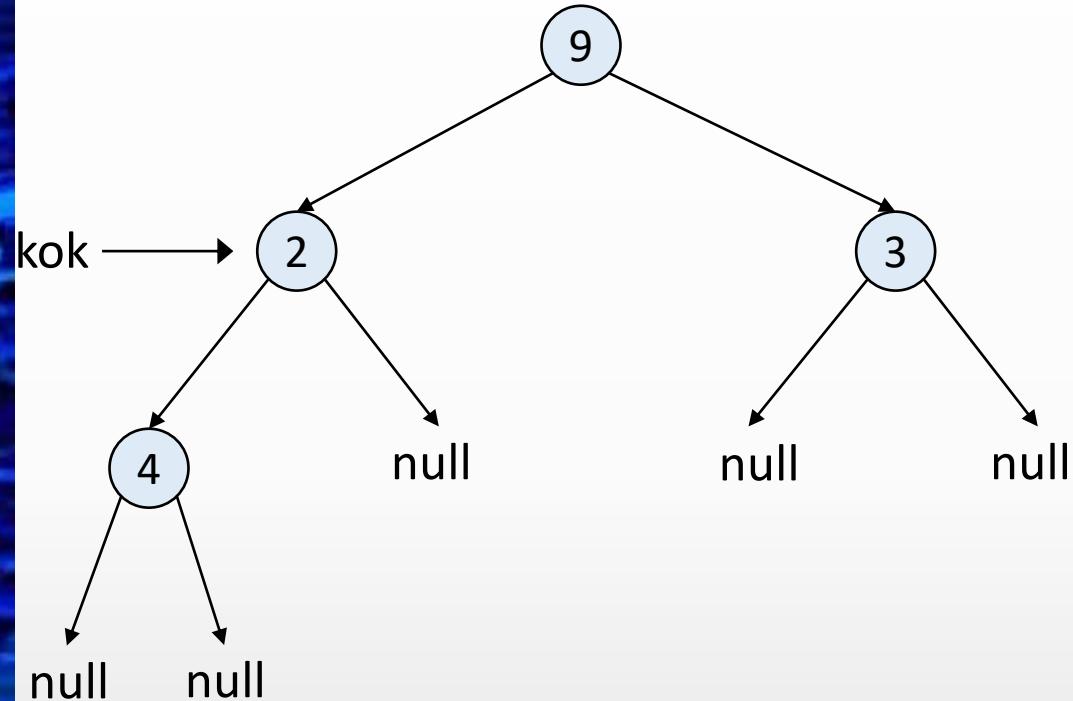
Cıktı: 9 2 4

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

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



Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4



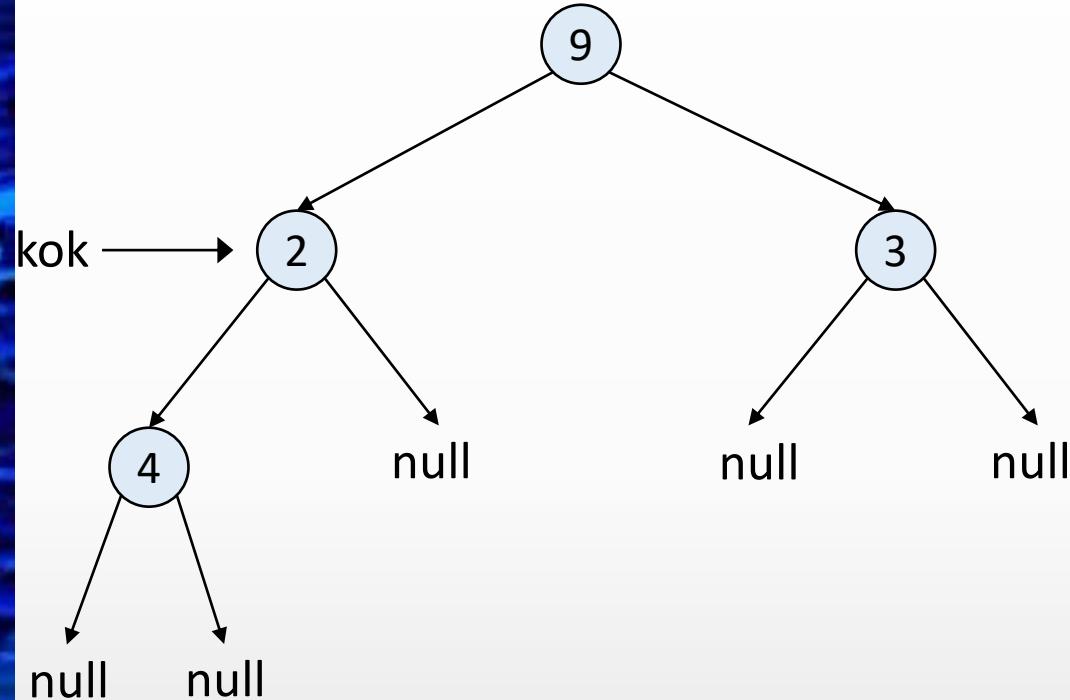
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



```
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 }
```



Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4



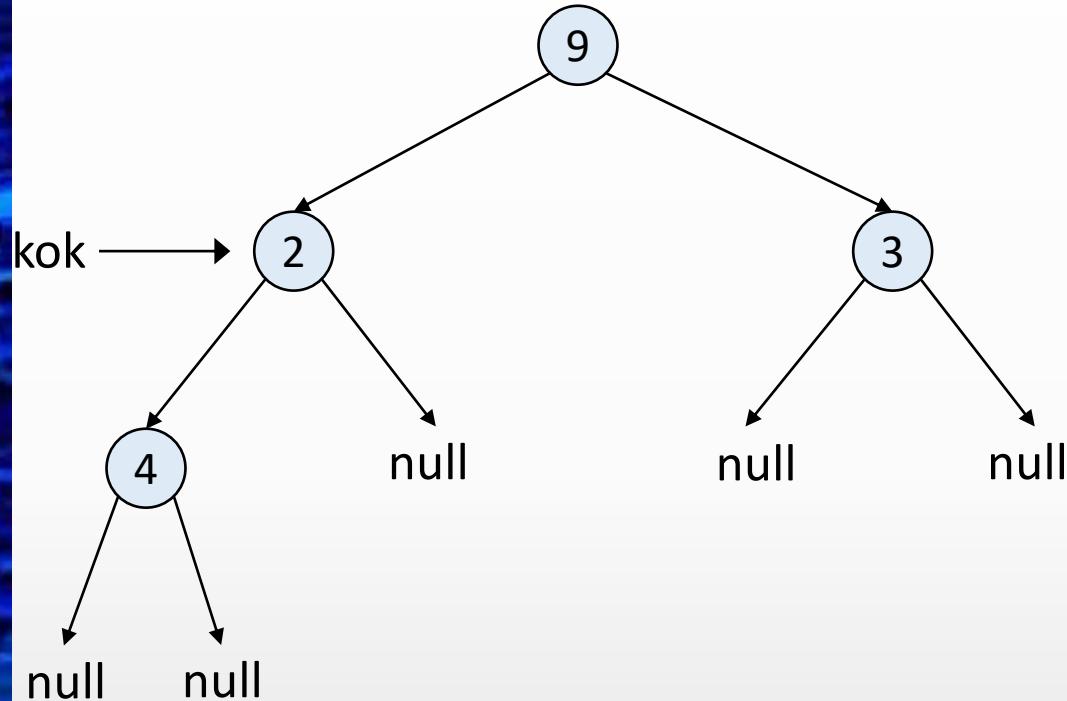
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



```
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 Yığıtı (Call Stack)



Cıktı: 9 2 4



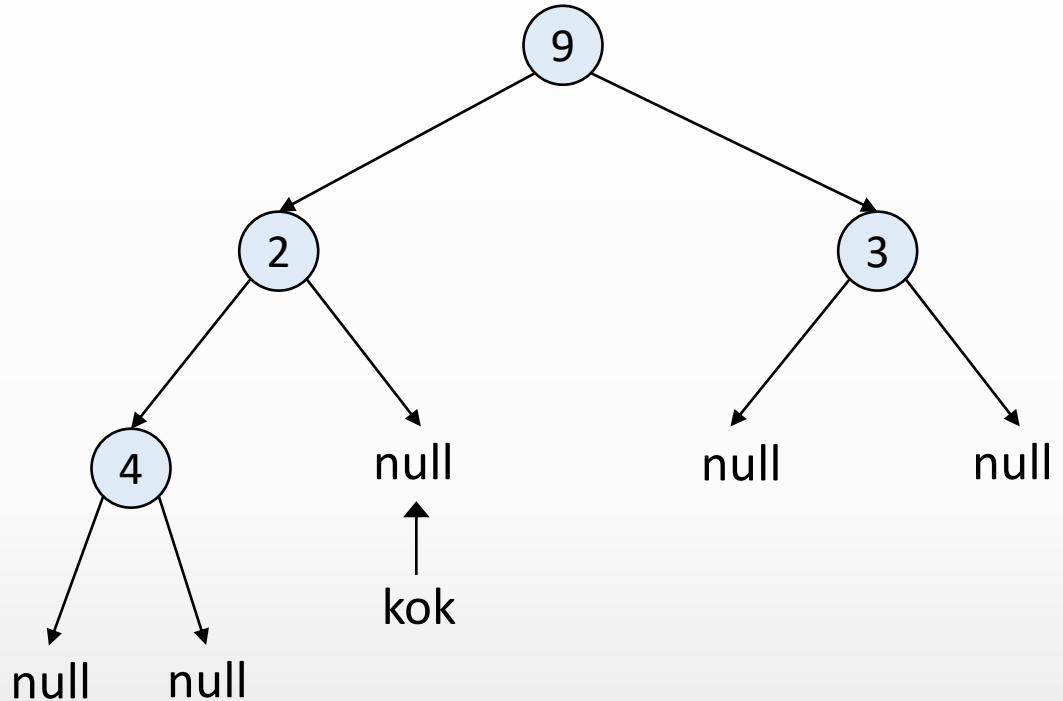
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2



```
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 Yığıtı (Call Stack)



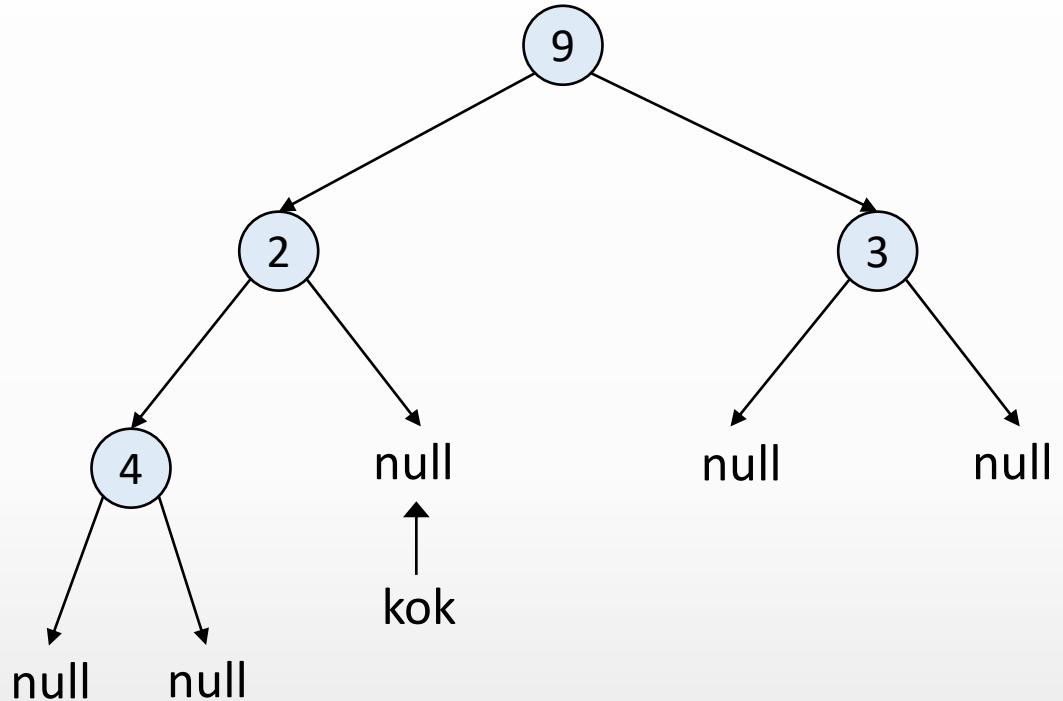
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2
kokBasta()		null

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



Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4



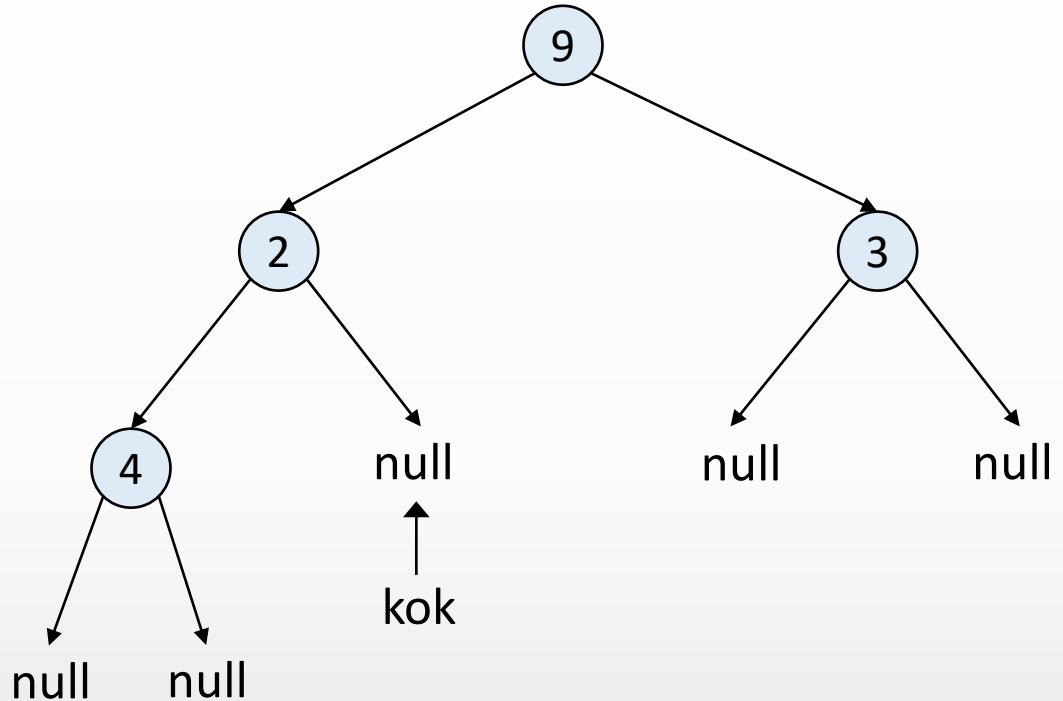
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2
kokBasta()		null



```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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6     kokBasta(kok.sol);  
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8 }
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Çağırma Yığıtı (Call Stack)



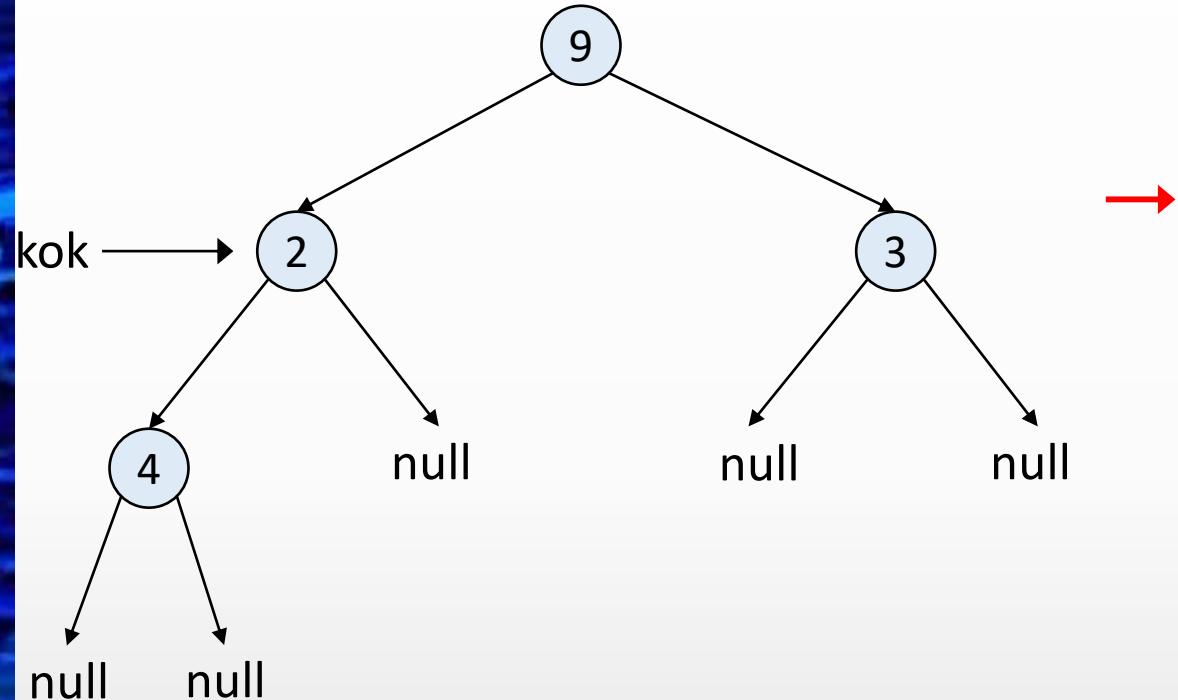
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2
kokBasta()		null

```
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 }
```



Çağırma Yığıtı (Call Stack)



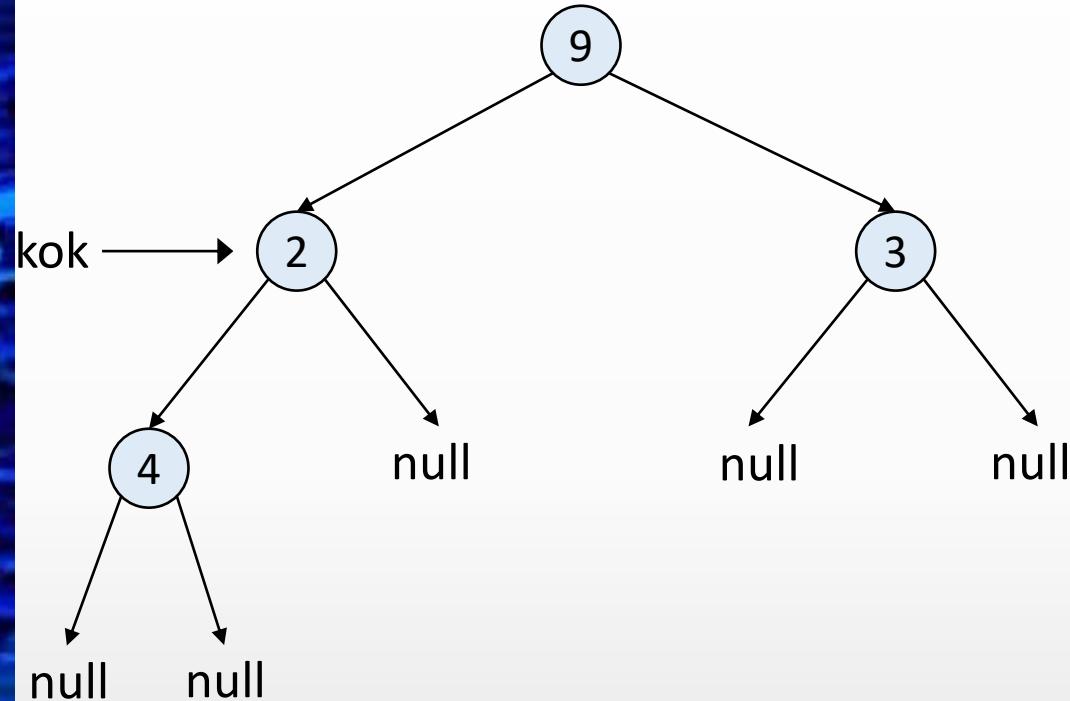
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2

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



Çağırma Yığıtı (Call Stack)



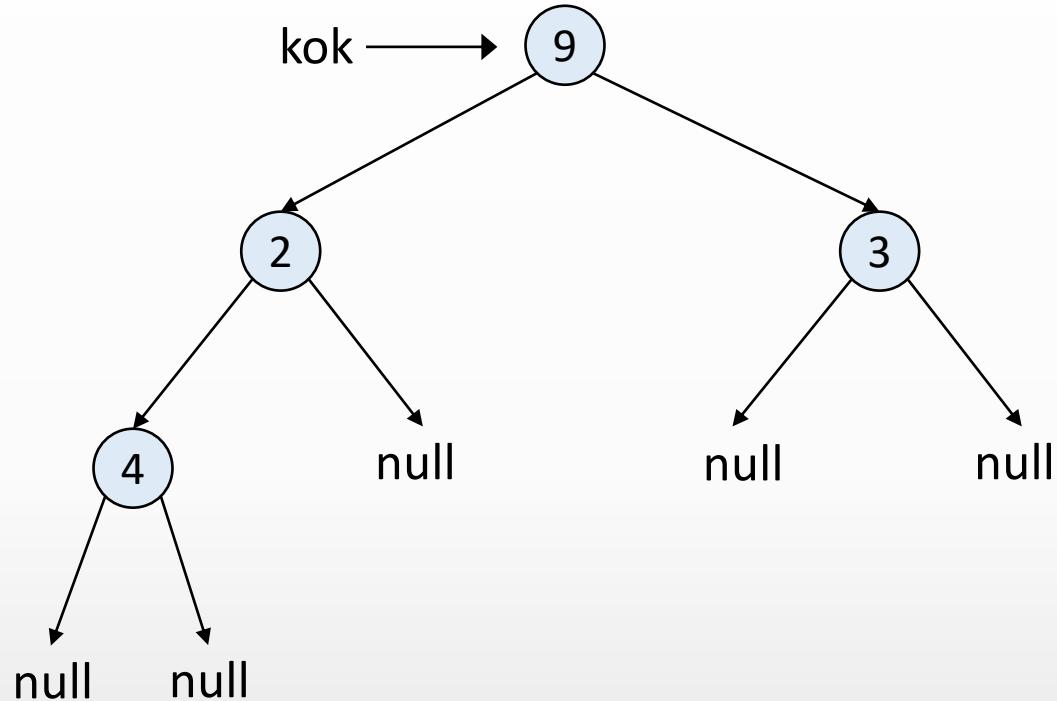
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2

```
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 }
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Çağırma Yığıtı (Call Stack)



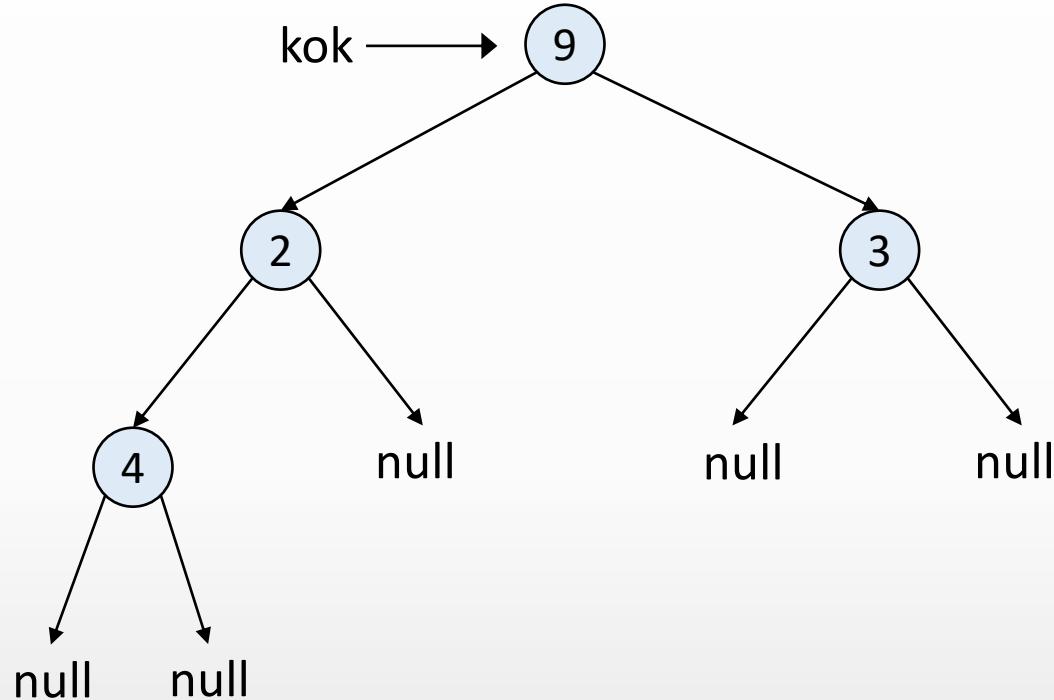
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

Çıktı: 9 2 4

```
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 }
```



Çağırma Yığıtı (Call Stack)



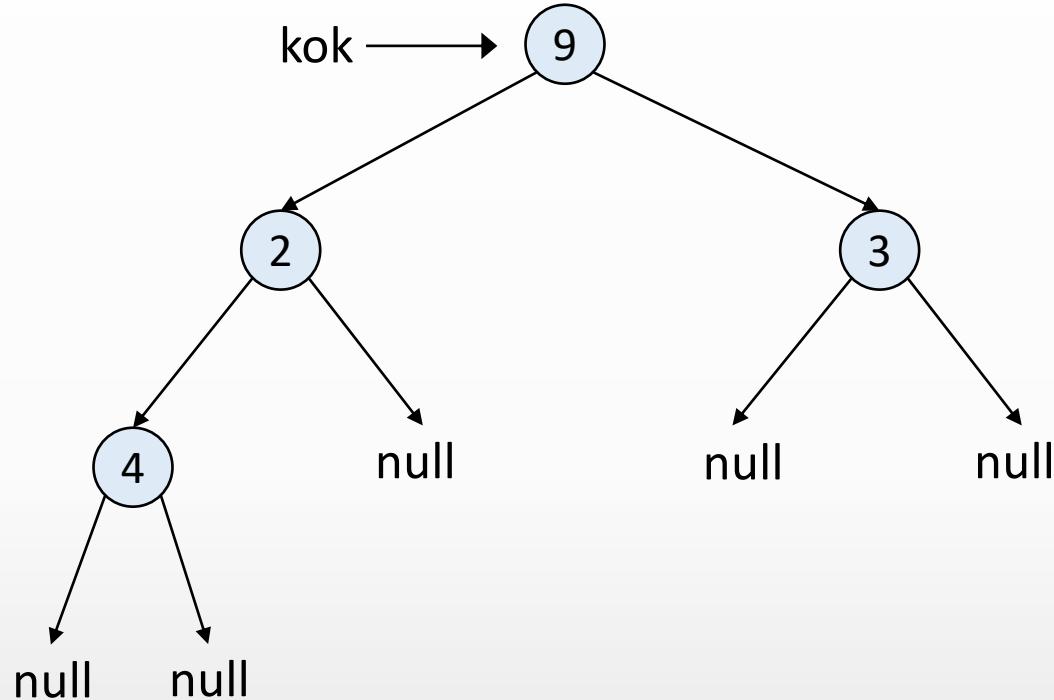
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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6     kokBasta(kok.sol);  
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8 }
```



Çağırma Yığıtı (Call Stack)



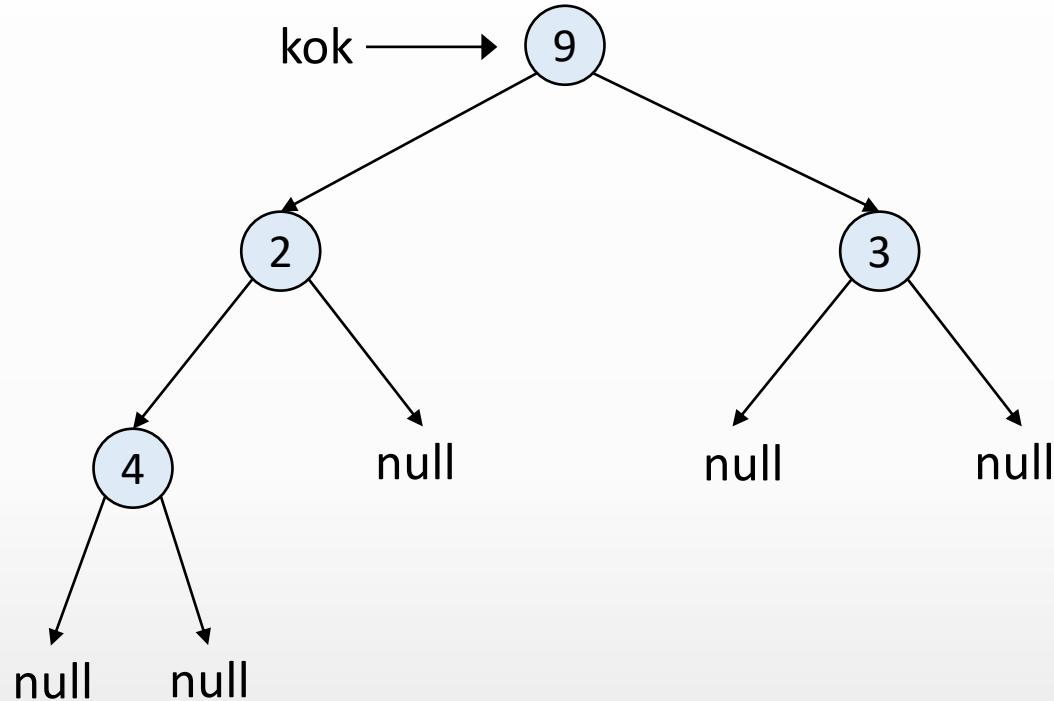
Çıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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5     System.out.print(kok.veri + " ");  
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8 }
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Çağırma Yığıtı (Call Stack)



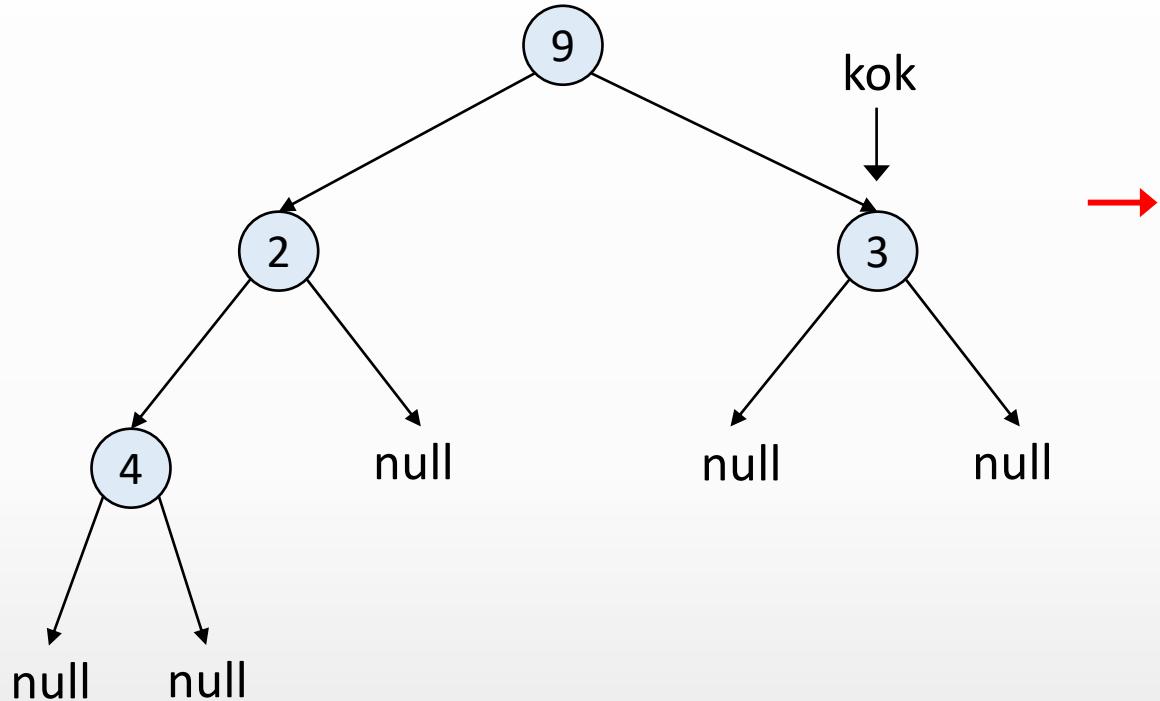
Çıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9

```
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 Yığıtı (Call Stack)



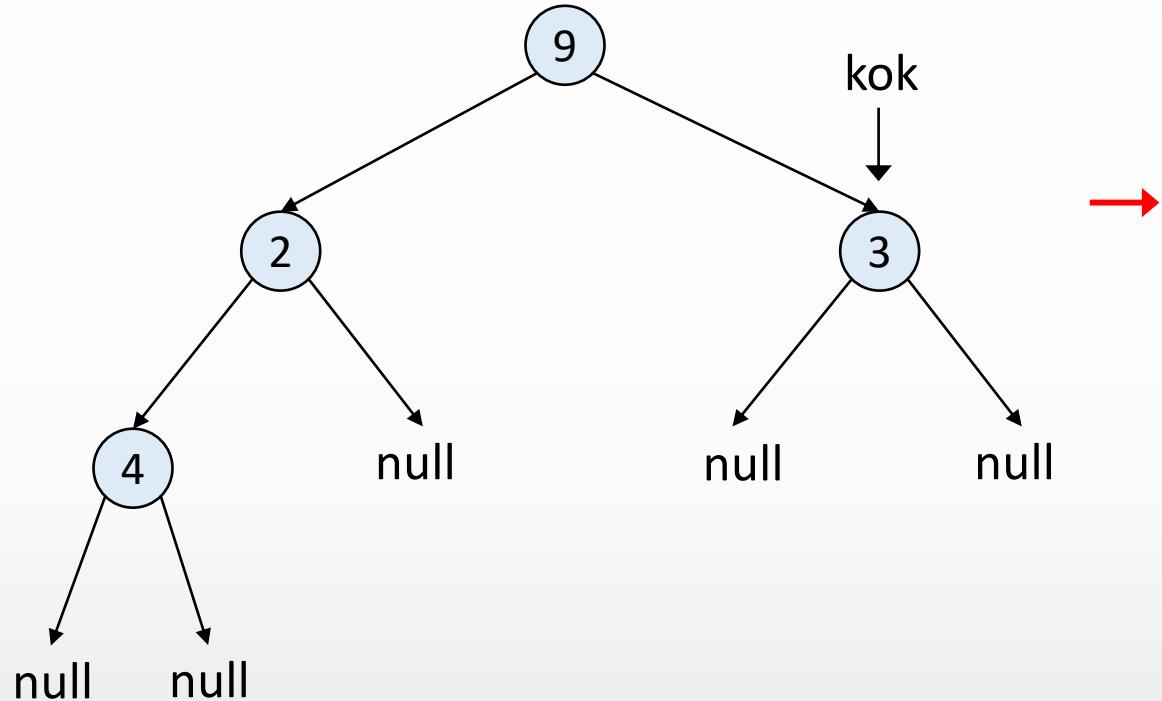
Çıktı: 9 2 4

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

```
→ 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 Yığıtı (Call Stack)



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

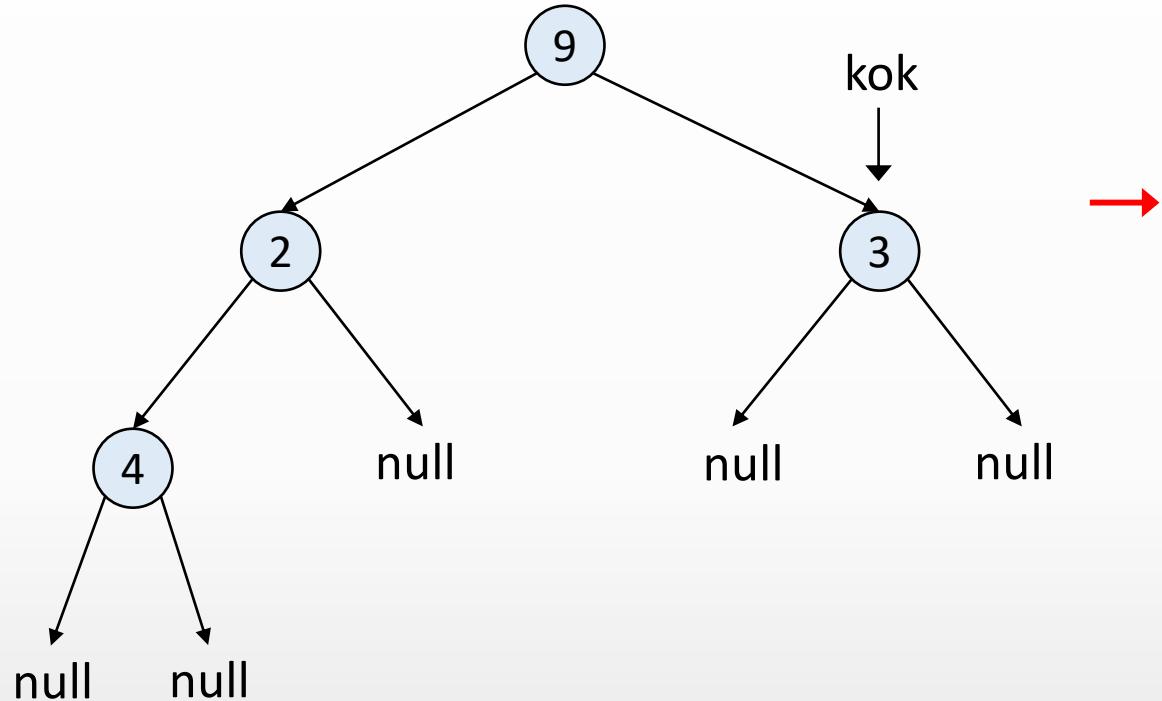
→

```
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 }
```

Cıktı: 9 2 4



Çağırma Yığıtı (Call Stack)



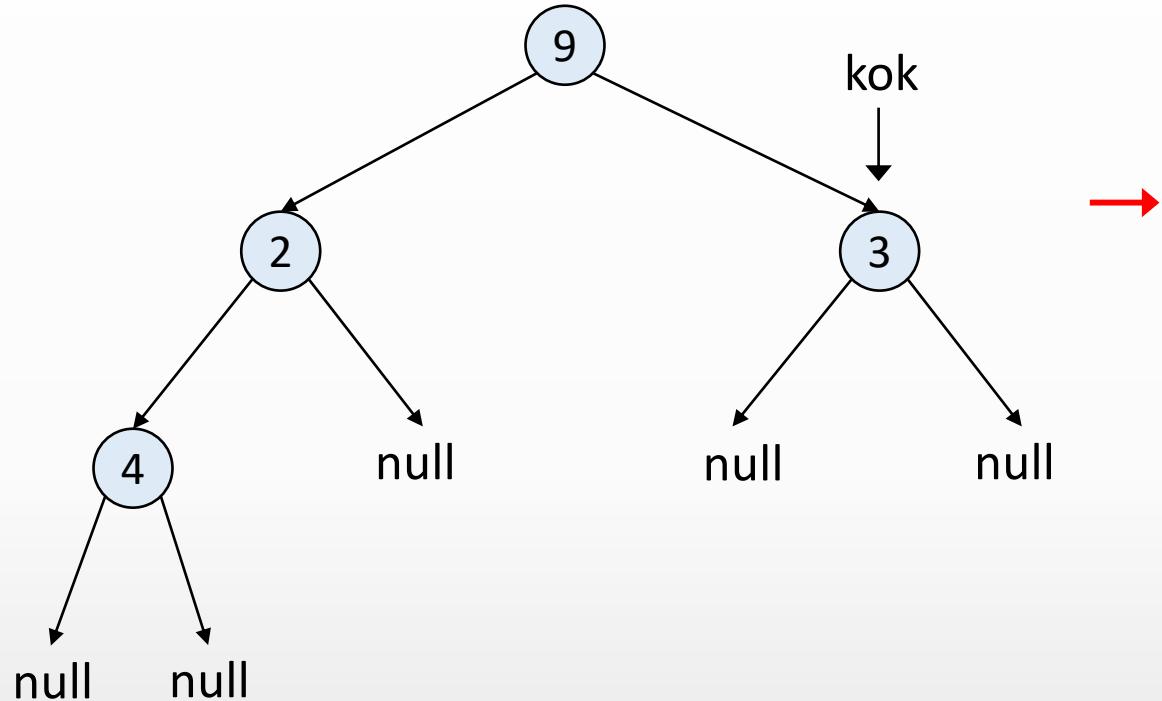
Cıktı: 9 2 4

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

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



Çağırma Yığıtı (Call Stack)



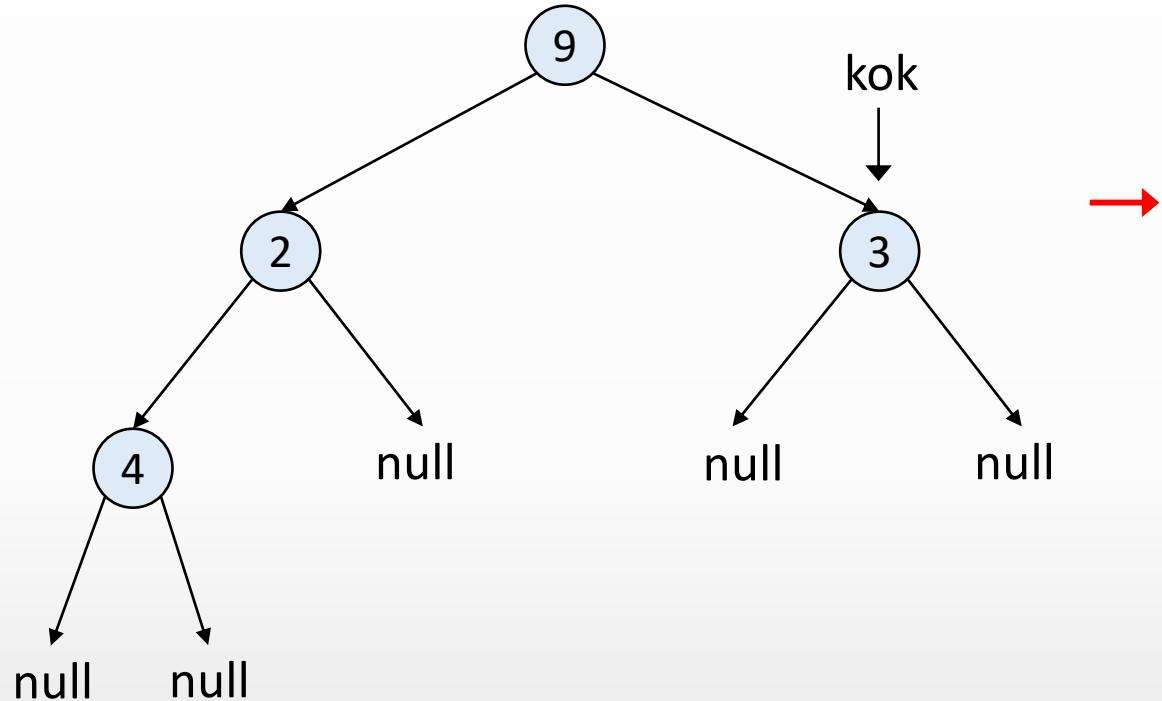
Cıktı: 9 2 4 3

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

```
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 Yığıtı (Call Stack)



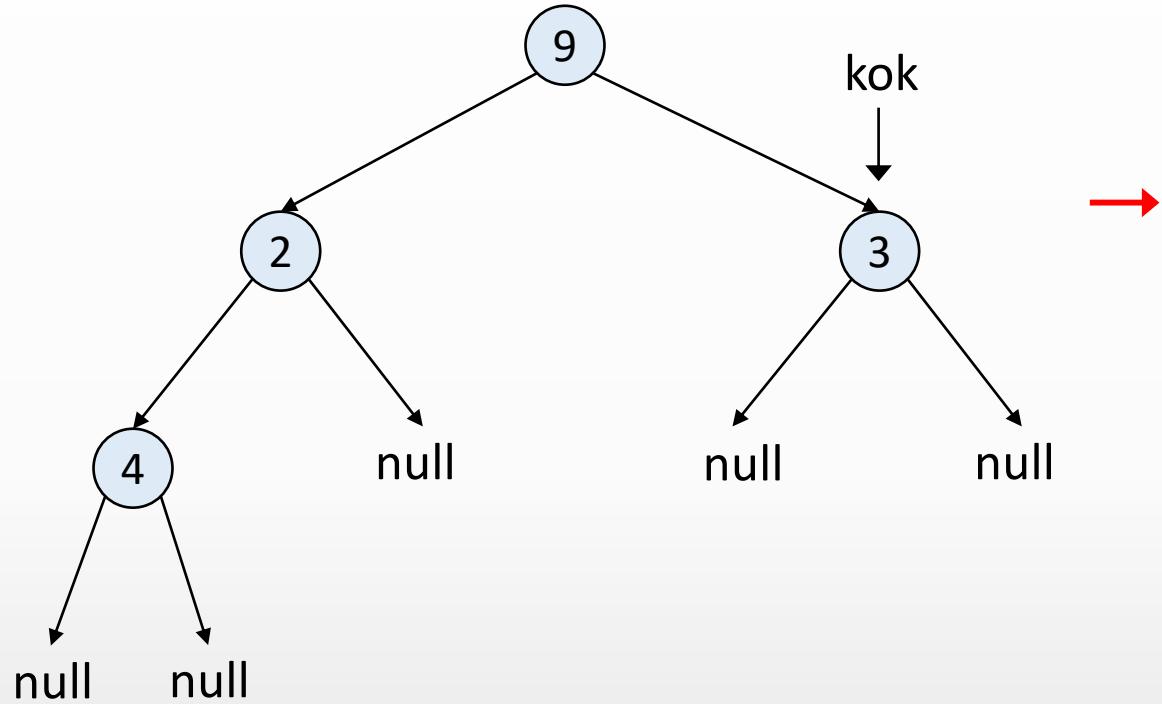
Cıktı: 9 2 4 3

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

```
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 Yığıtı (Call Stack)



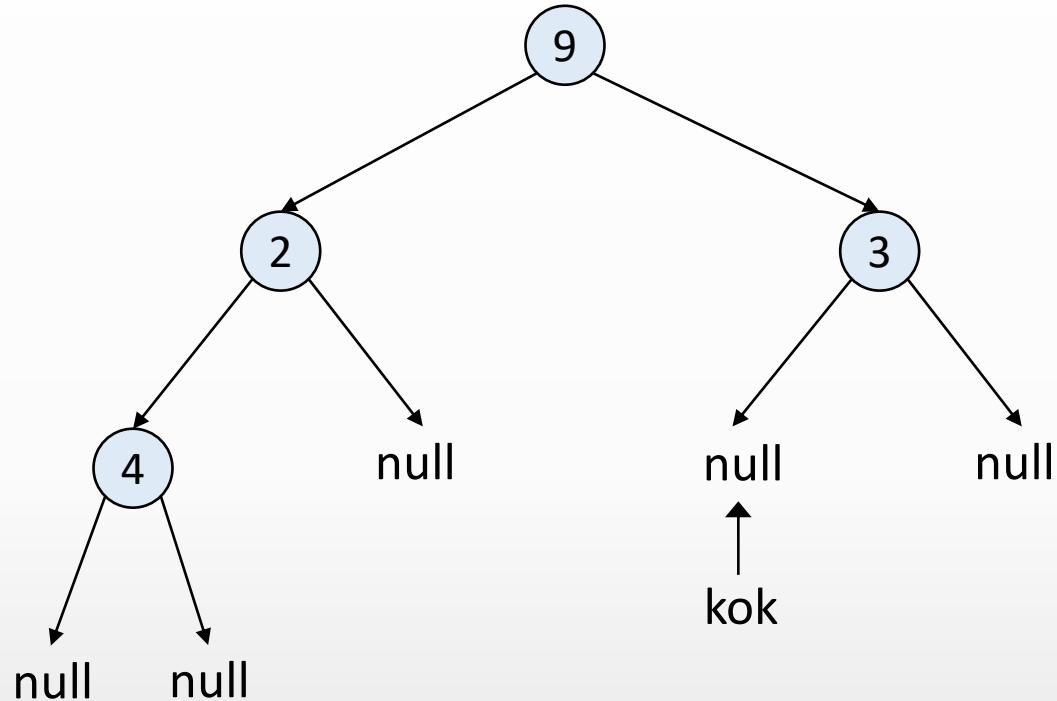
Çıktı: 9 2 4 3

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3

```
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 Yığıtı (Call Stack)



Çıktı: 9 2 4 3



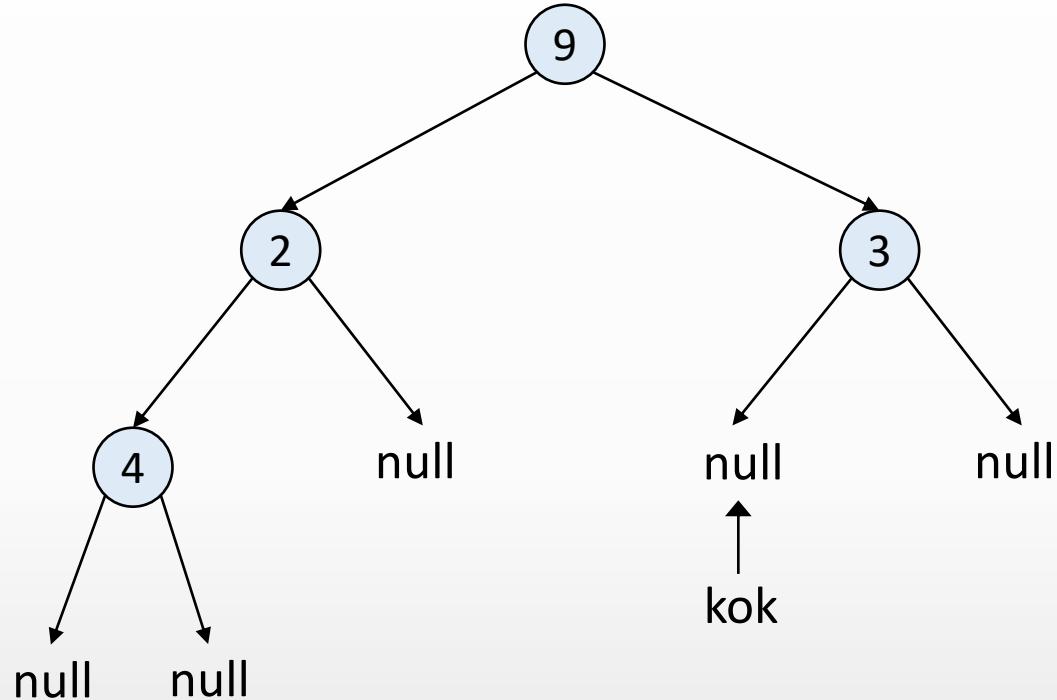
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null



```
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 Yığıtı (Call Stack)



Çıktı: 9 2 4 3



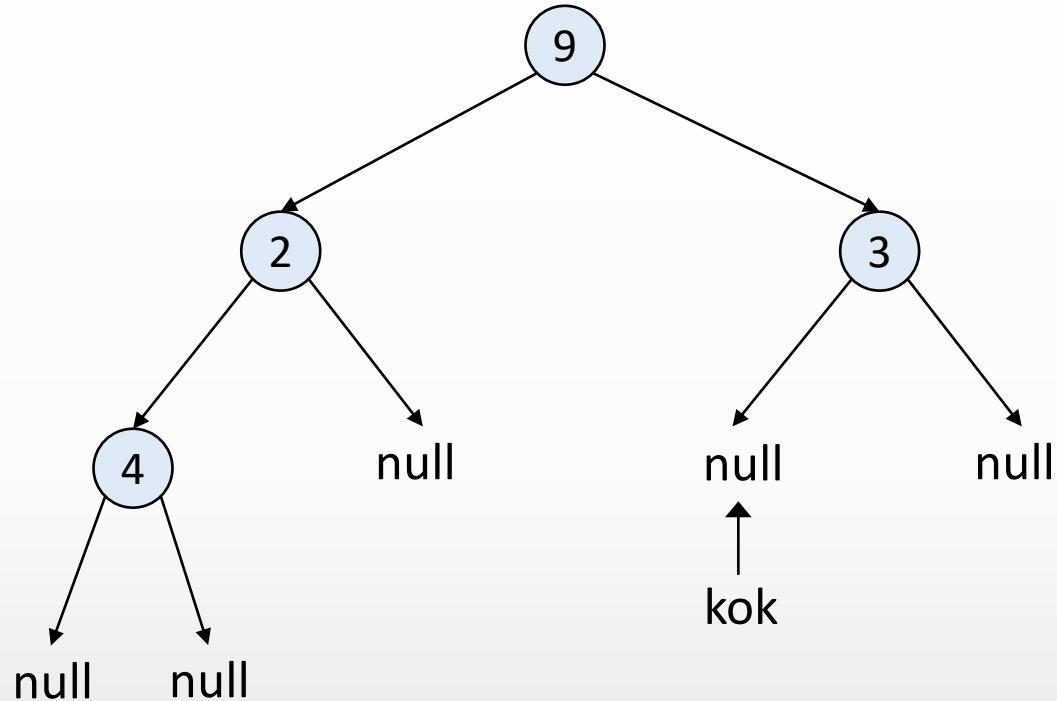
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null



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



Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4 3

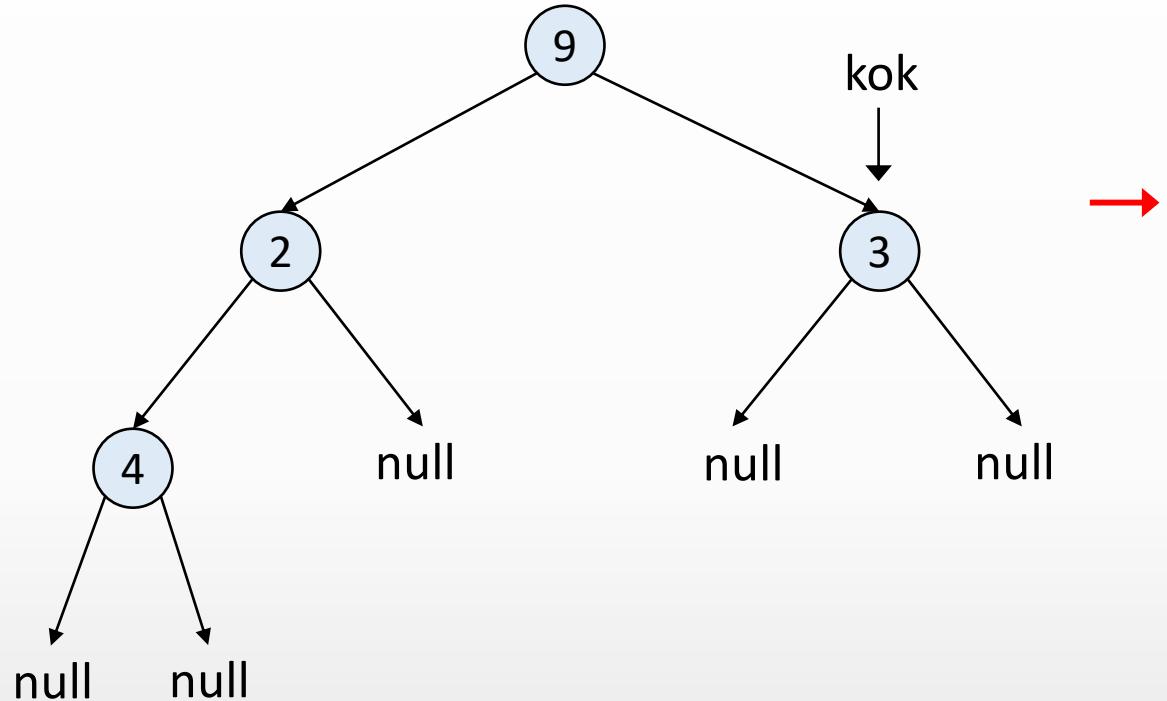
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null



```
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 Yığıtı (Call Stack)



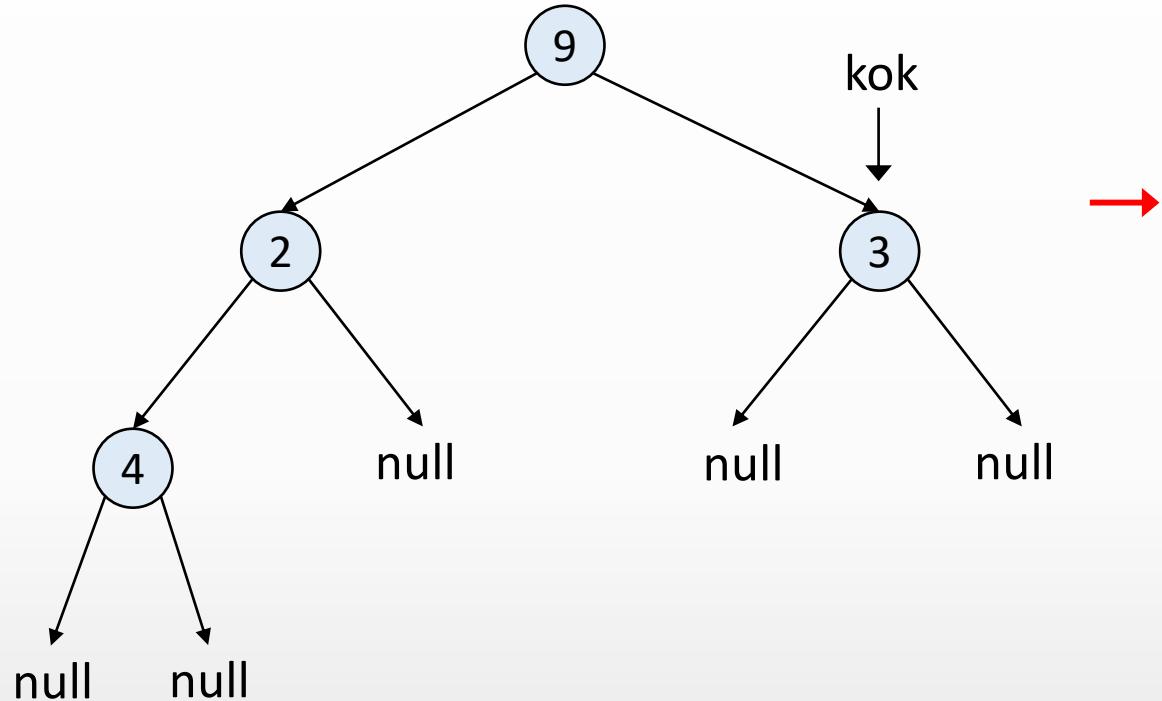
Çıktı: 9 2 4 3

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3

```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
4     }  
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7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



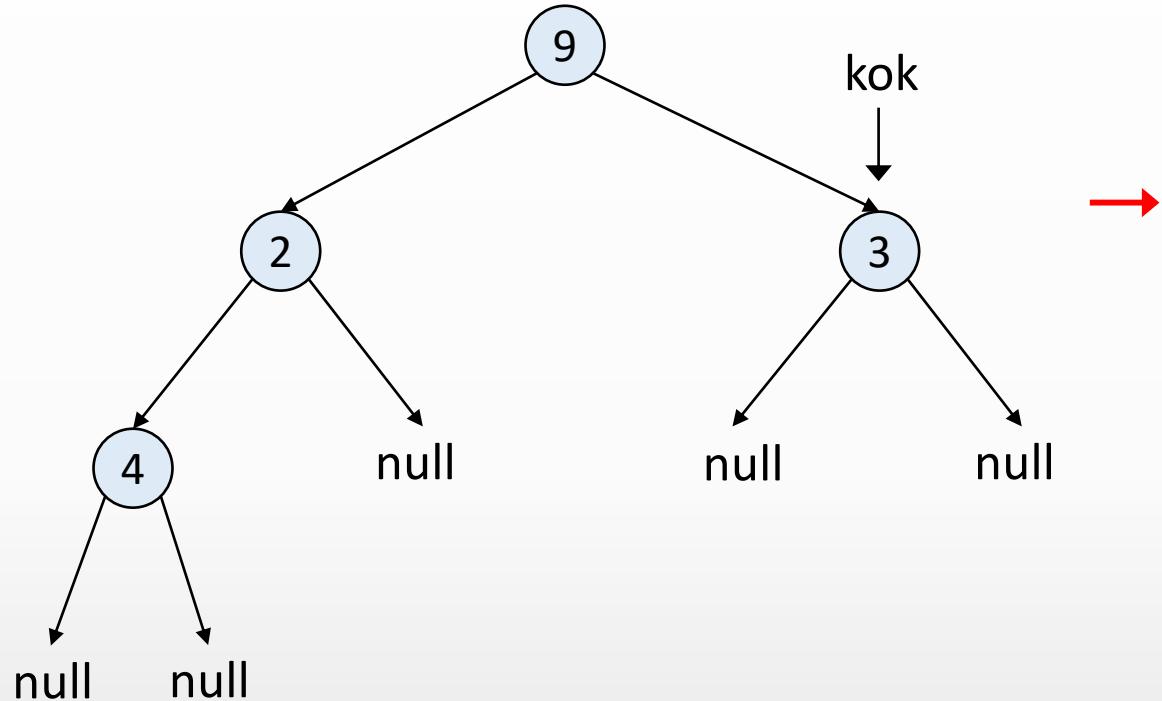
Cıktı: 9 2 4 3

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
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```
1 public void kokBasta(AgacDugumu kok) {  
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6     kokBasta(kok.sol);  
7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



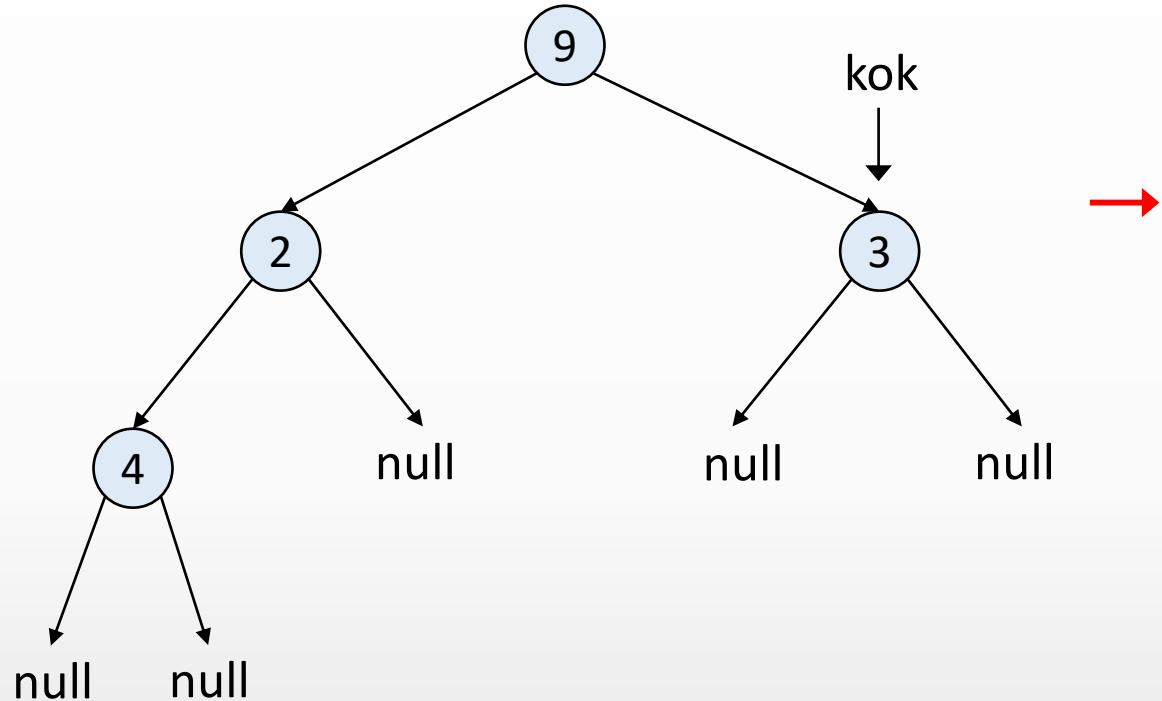
Cıktı: 9 2 4 3

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
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```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
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5     System.out.print(kok.veri + " ");  
6     kokBasta(kok.sol);  
7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



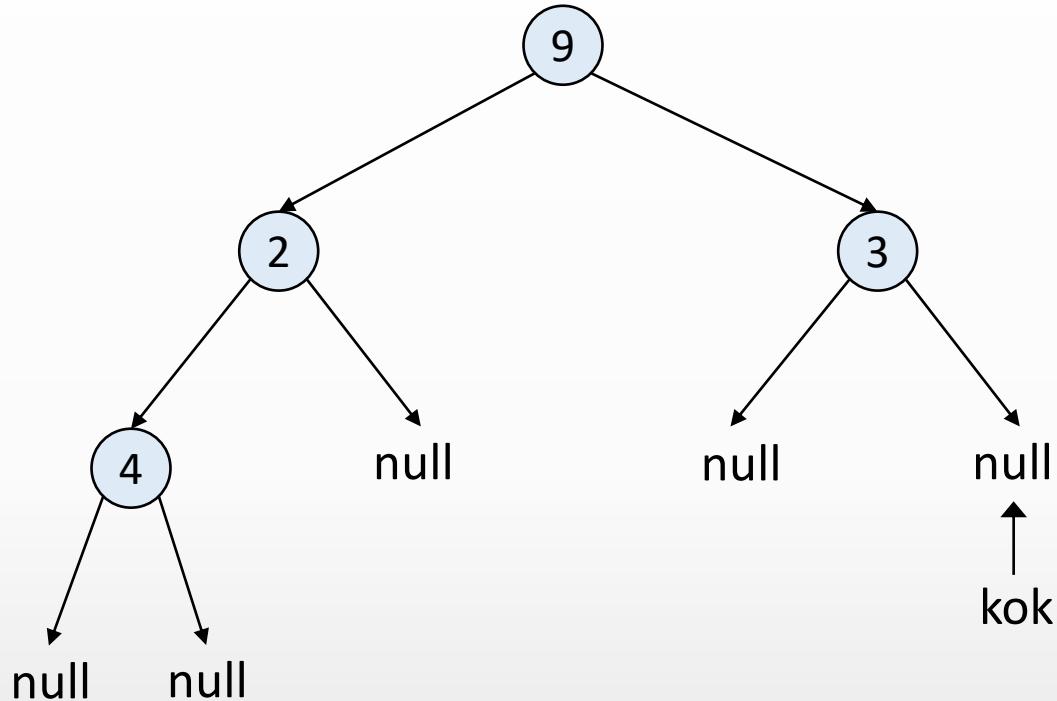
Çıktı: 9 2 4 3

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

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



Çağırma Yığıtı (Call Stack)



Çıktı: 9 2 4 3

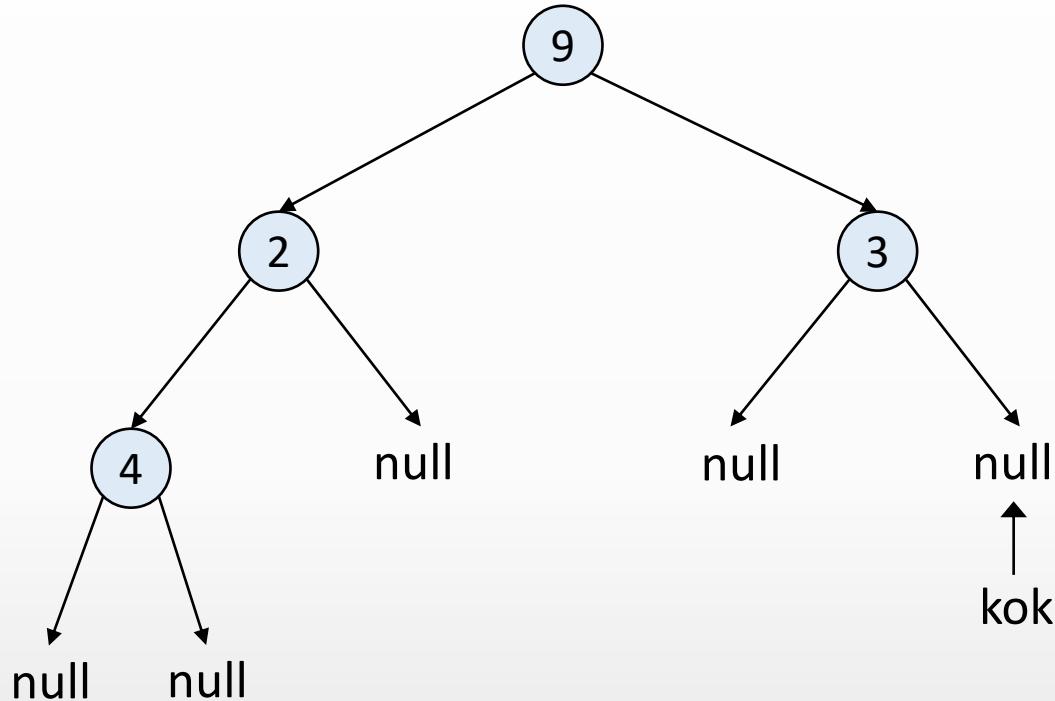
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	7	3
kokBasta()		null

→

```
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 Yığıtı (Call Stack)



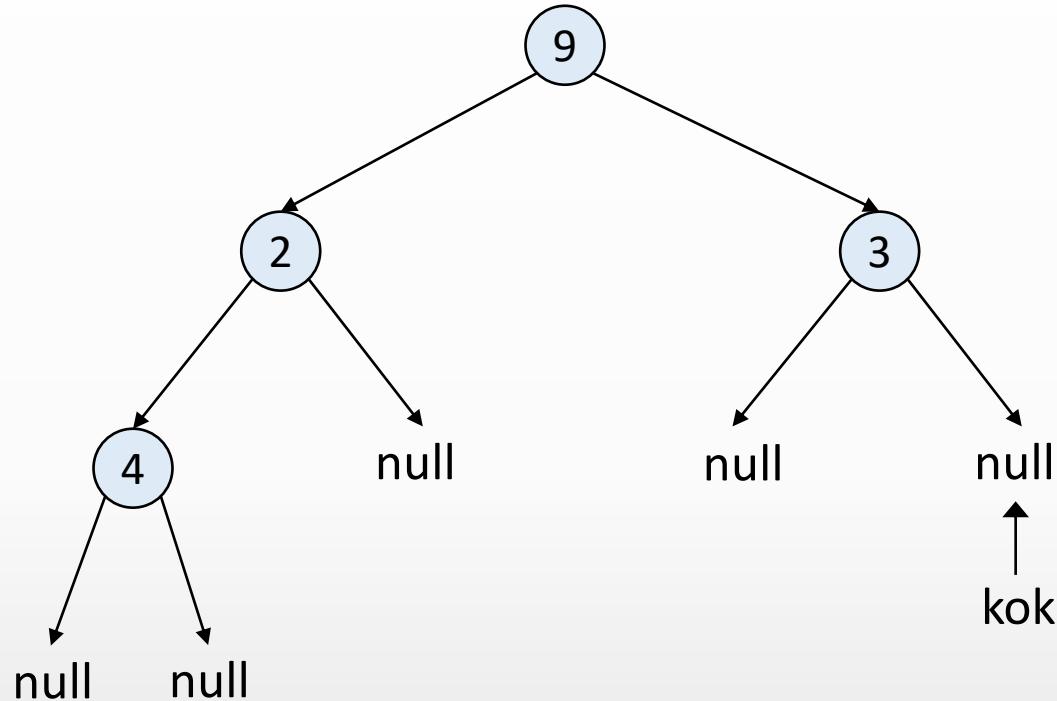
Cıktı: 9 2 4 3

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

```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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7     kokBasta(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



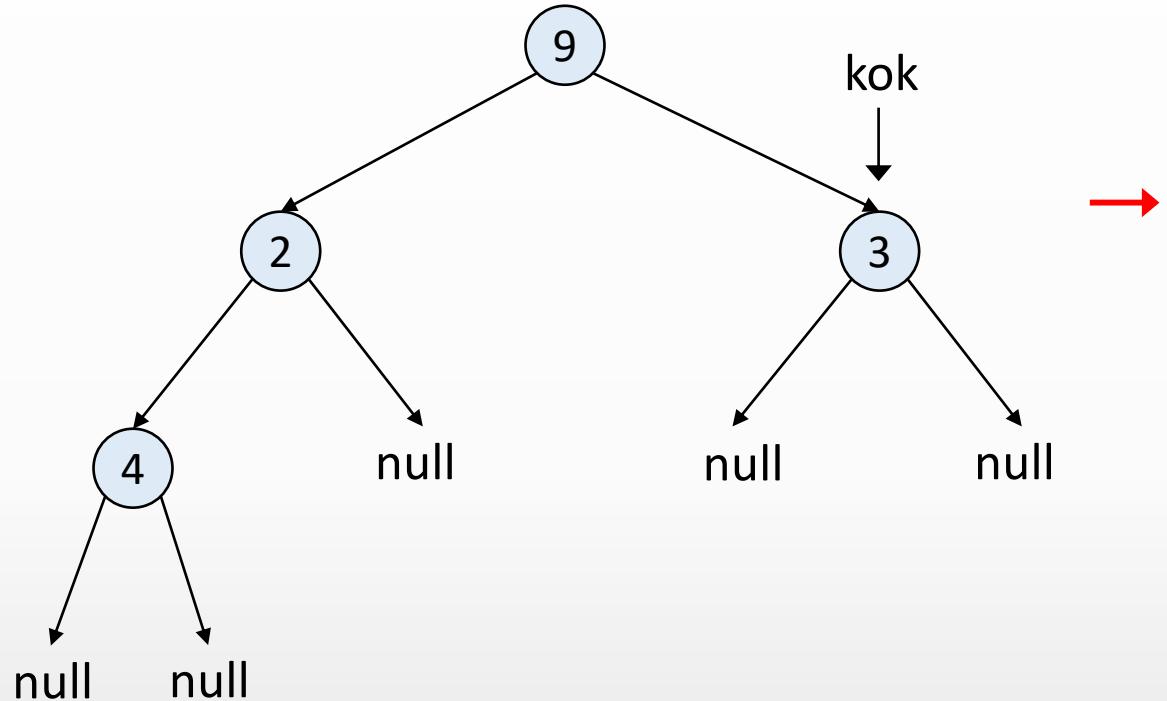
Cıktı: 9 2 4 3

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
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kokBasta()		null

```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
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8 }
```



Çağırma Yığıtı (Call Stack)



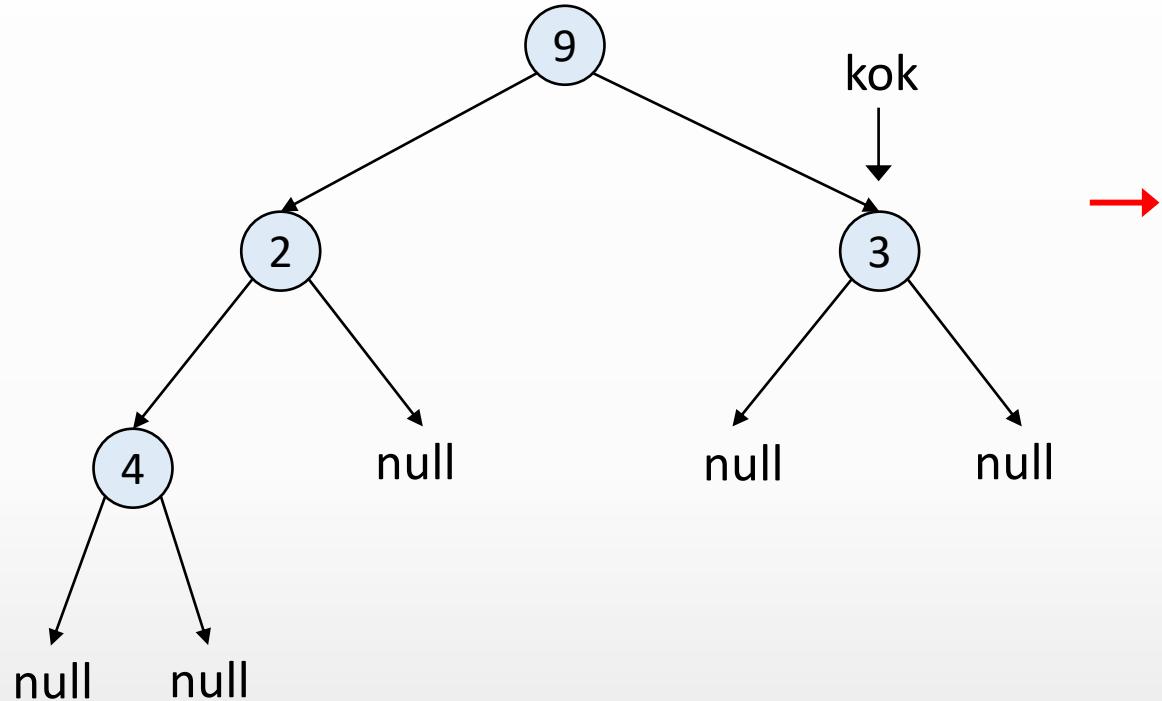
Çıktı: 9 2 4 3

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

```
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 Yığıtı (Call Stack)



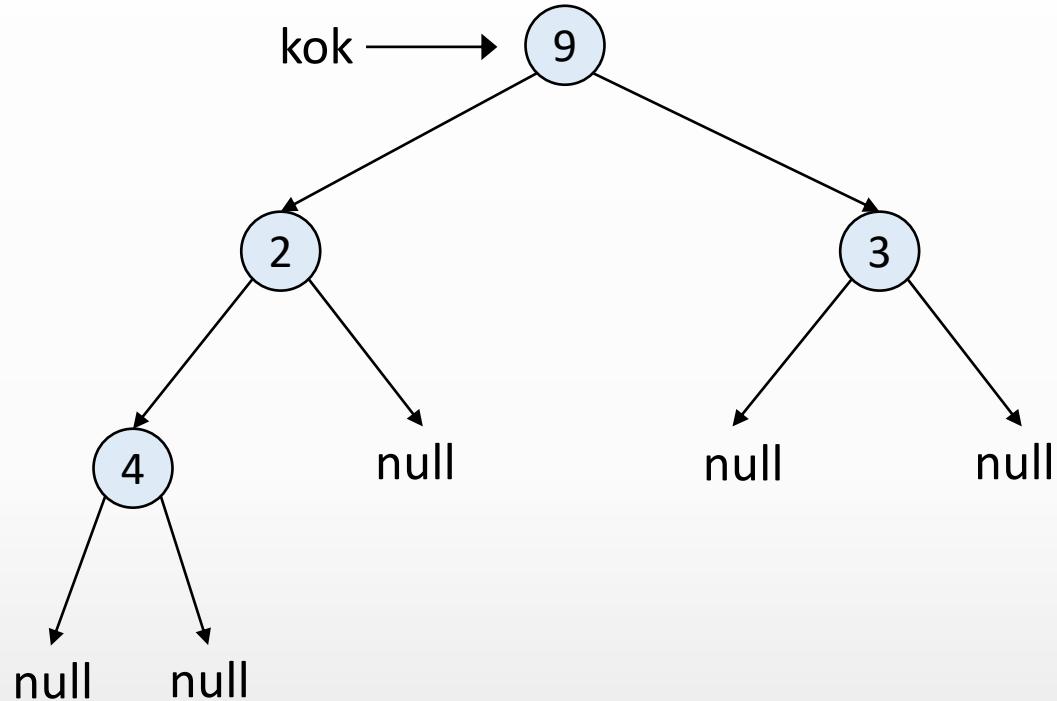
Cıktı: 9 2 4 3

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

```
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 Yığıtı (Call Stack)



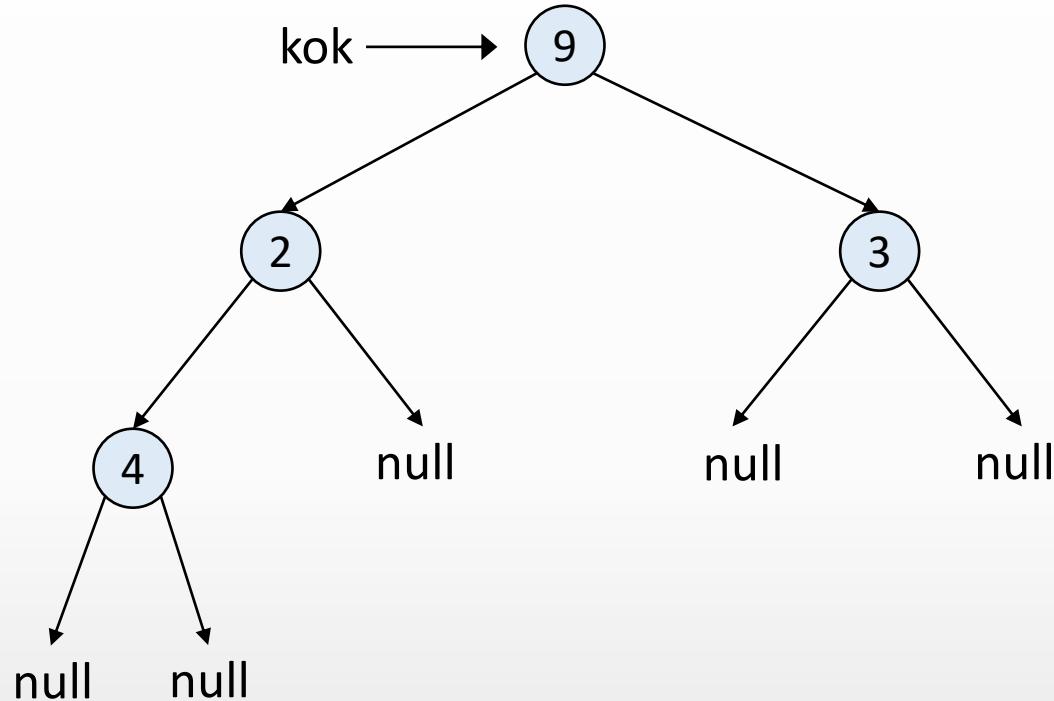
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9

Çıktı: 9 2 4 3

```
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 Yığıtı (Call Stack)



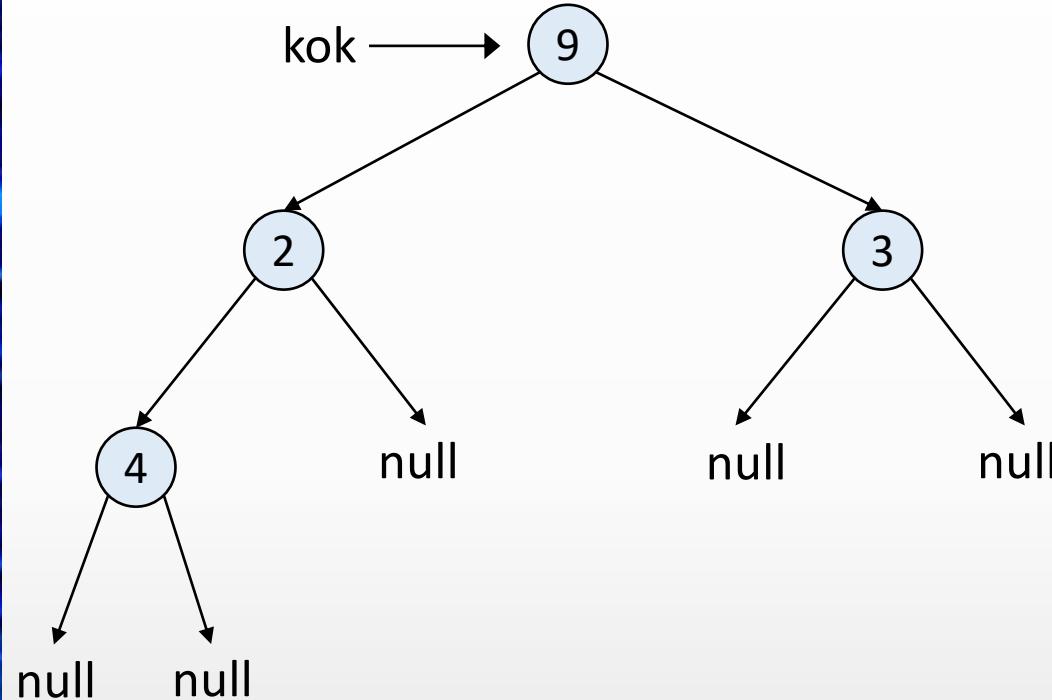
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9

Çıktı: 9 2 4 3

```
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 }
```



Çağrıma Yığıtı (Call Stack)



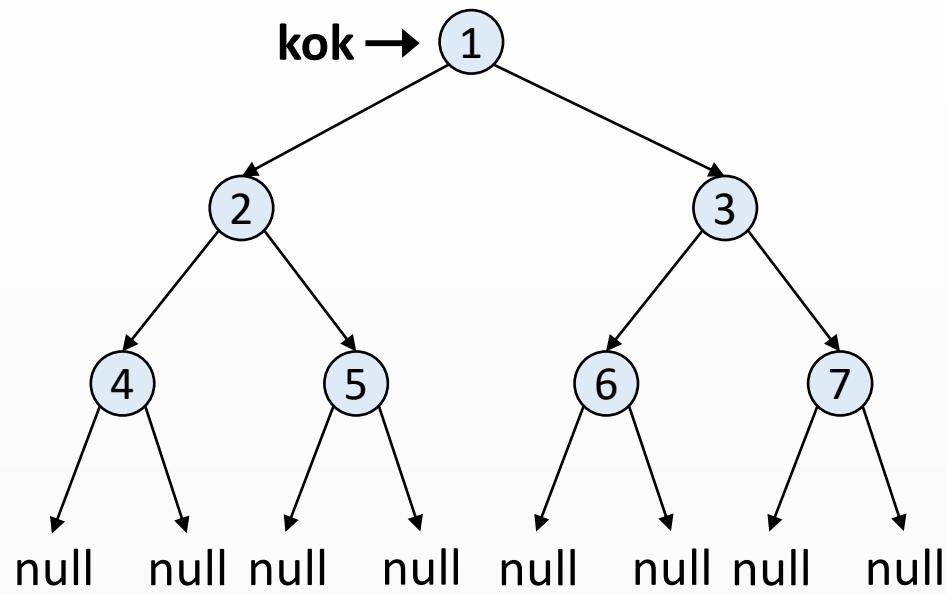
Çıktı: 9 2 4 3

Metot Çağrımı	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);  
7     kokBasta(kok.sag);  
8 }
```

Yığın ile Kök Başta (Preorder) Dolaşımı





Çıktı:

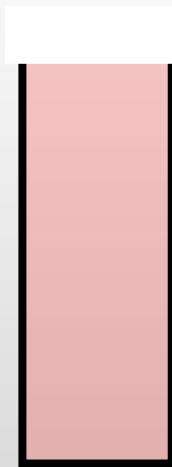
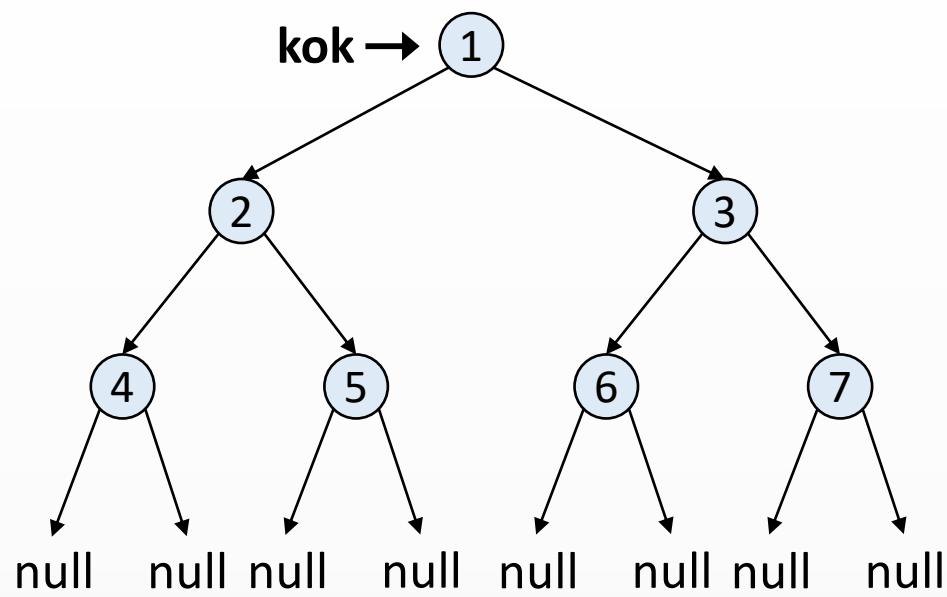
→

```

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);
    }
}

```

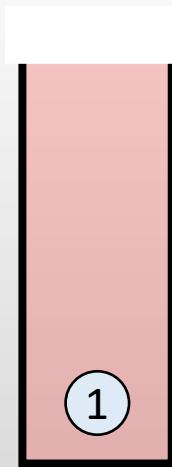
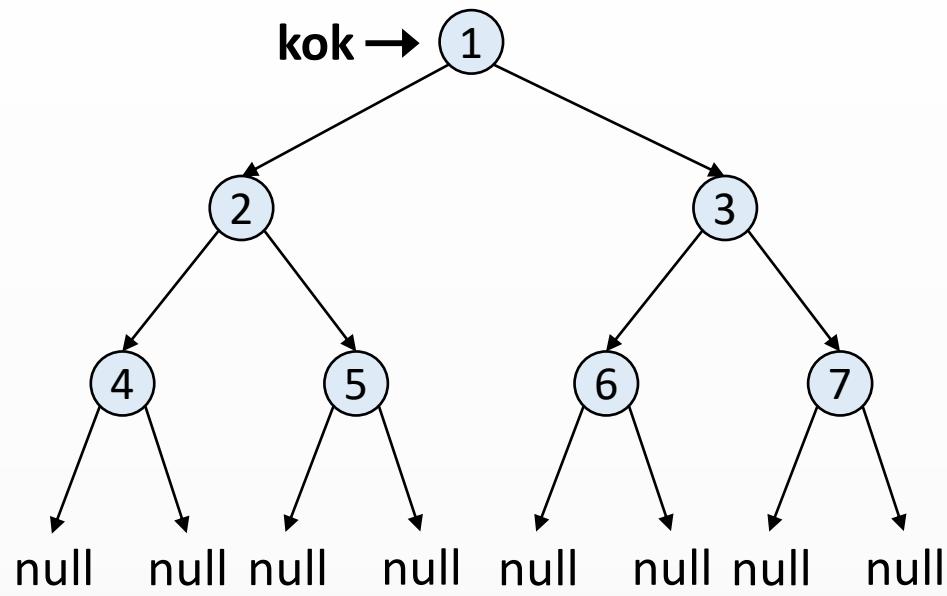




Yığıt

Çıktı:

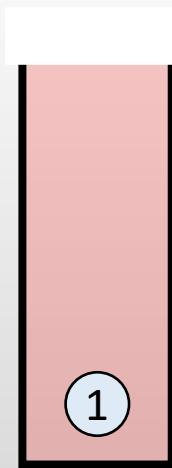
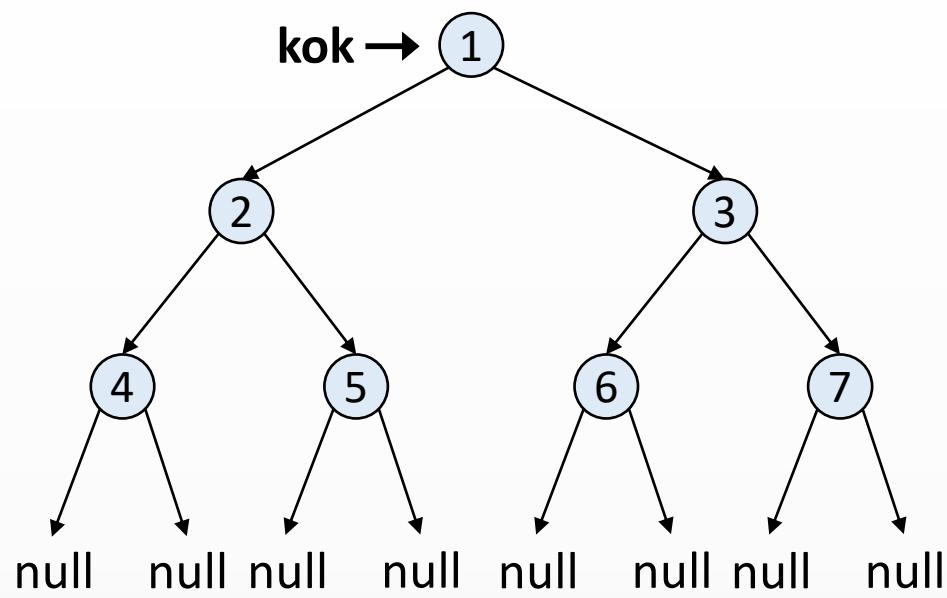
```
if(kok == null) {  
    return;  
}  
→ Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

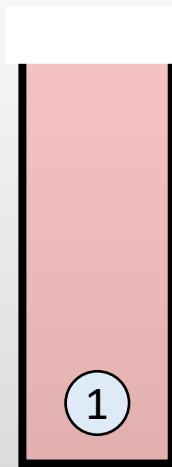
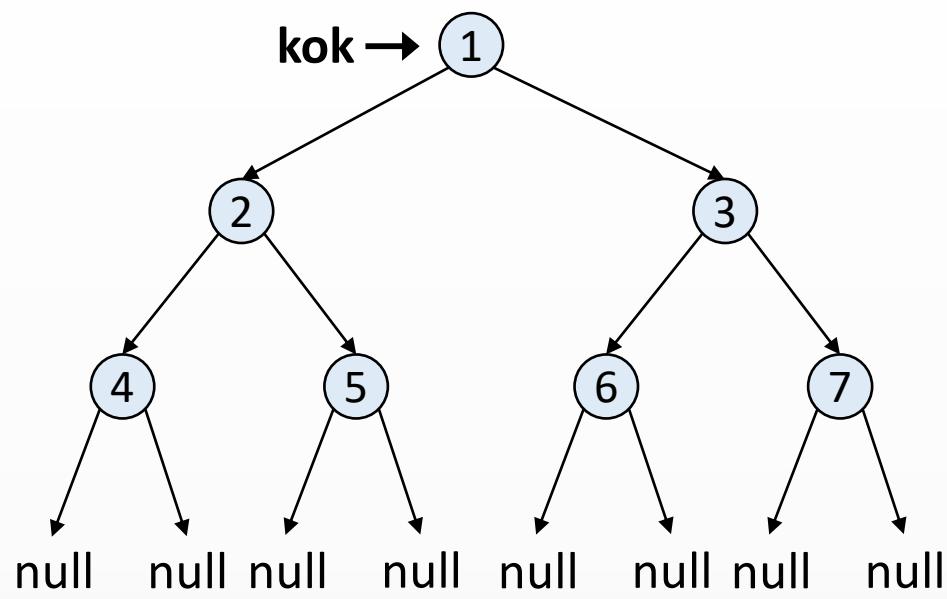
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

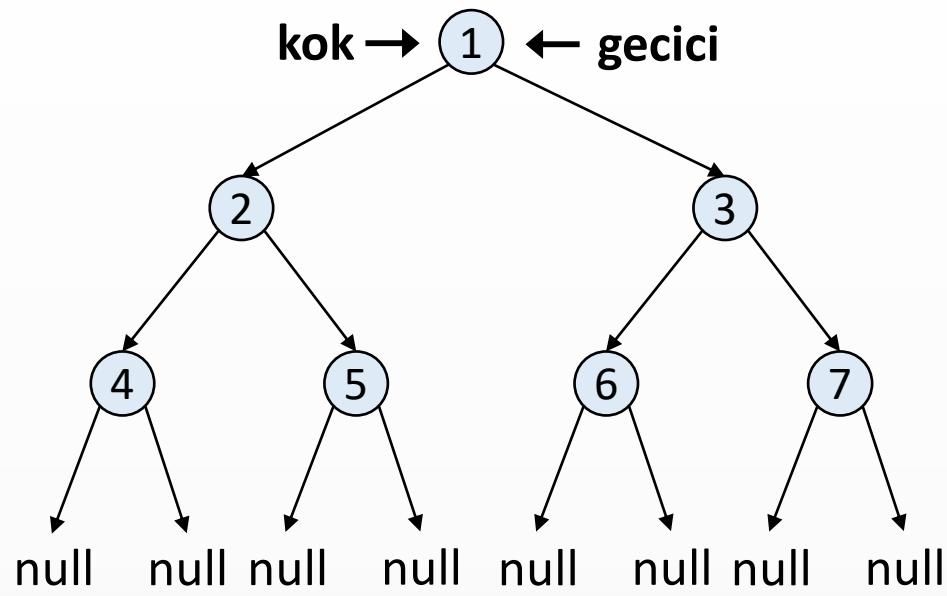
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

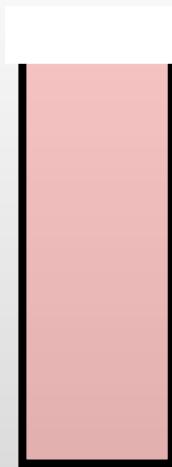
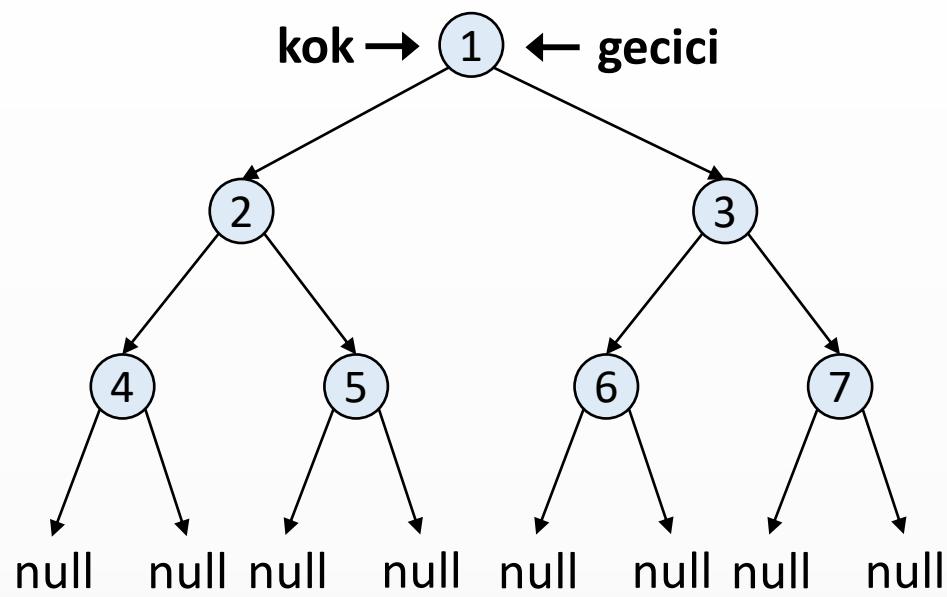
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

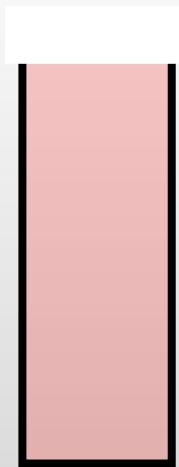
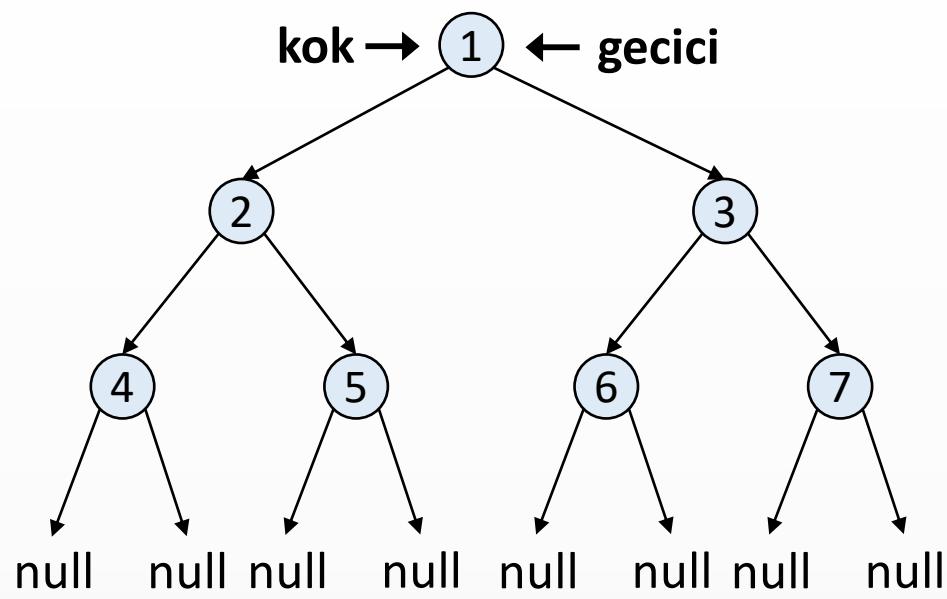
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

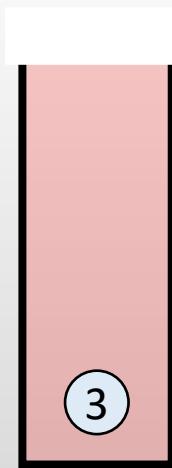
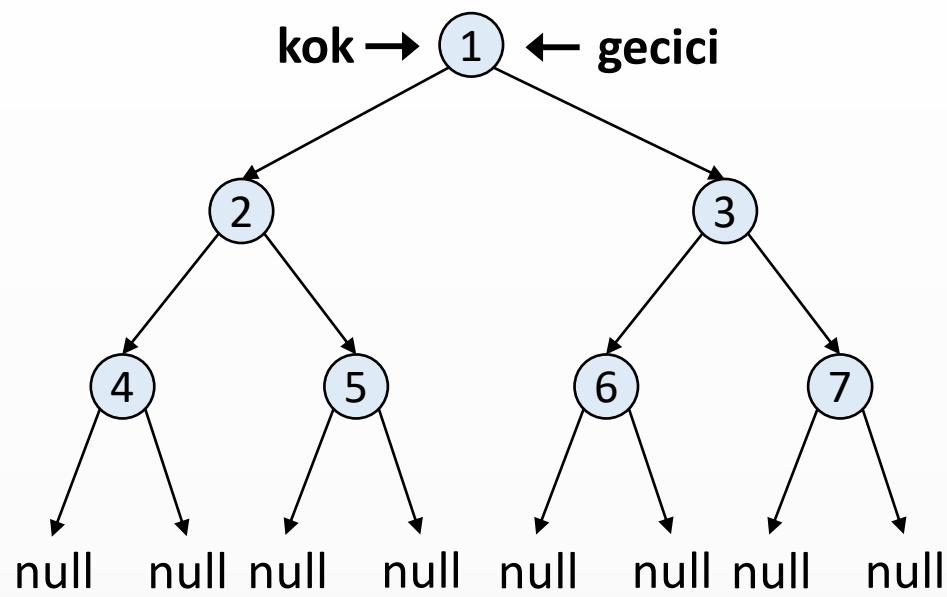
Cıktı: 1

```
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);  
    }  
}
```



Çıktı: 1

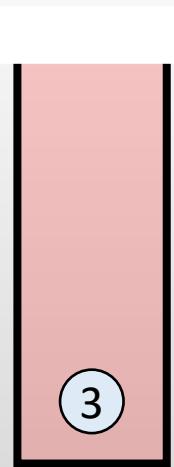
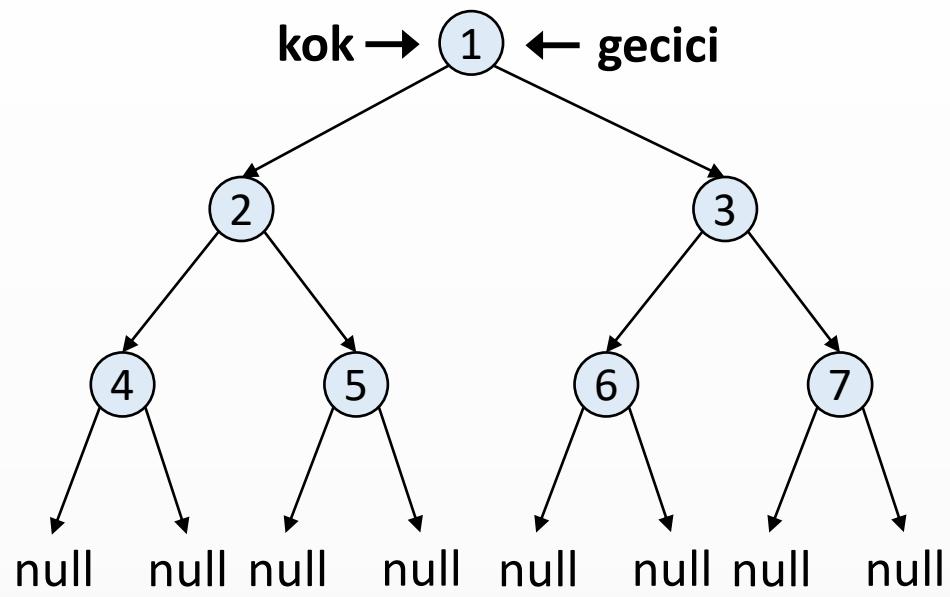
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

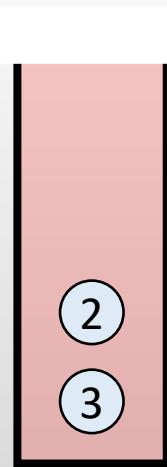
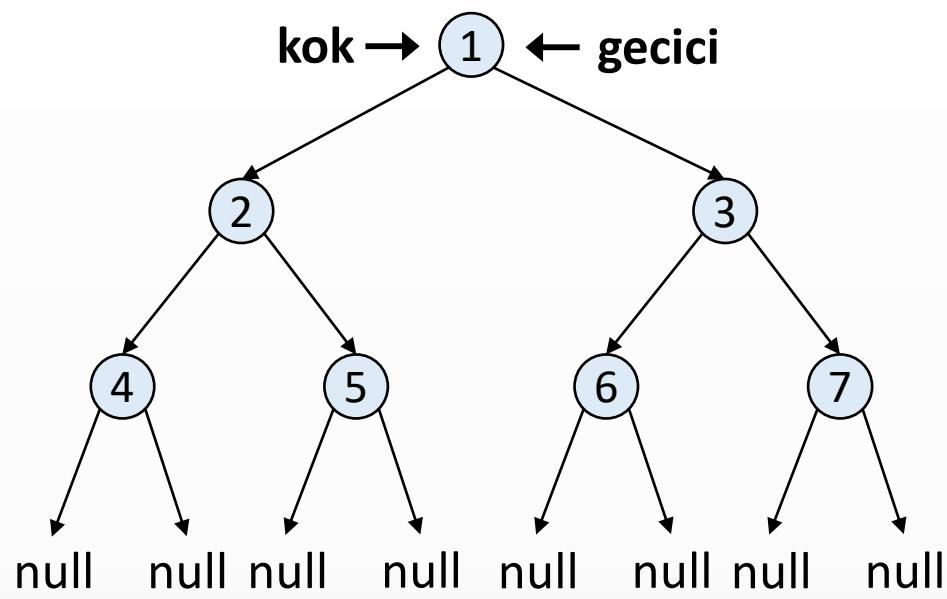
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

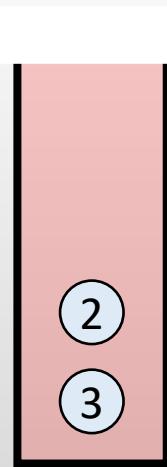
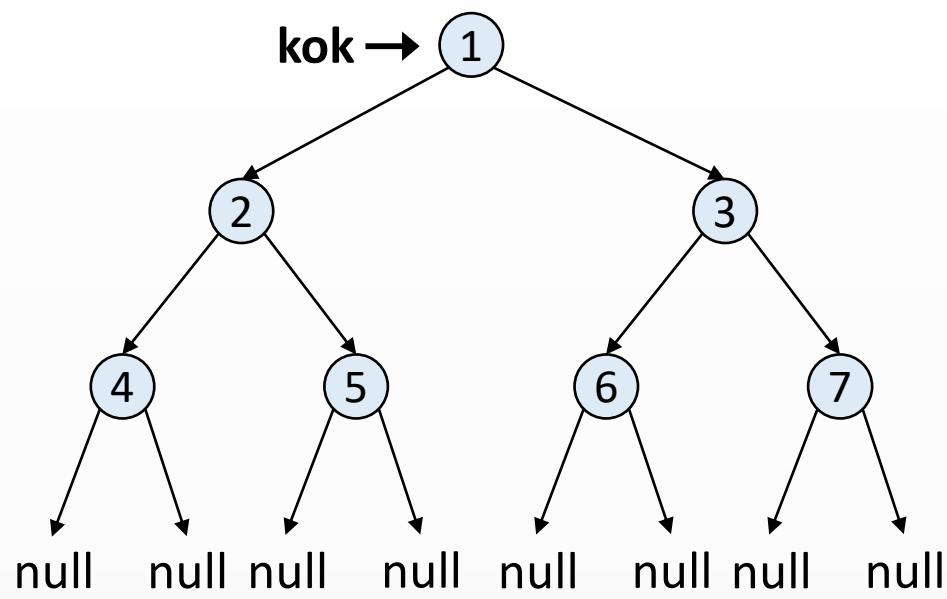
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

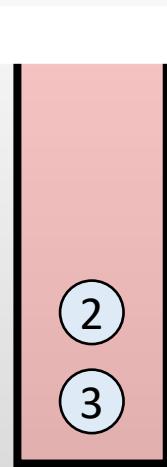
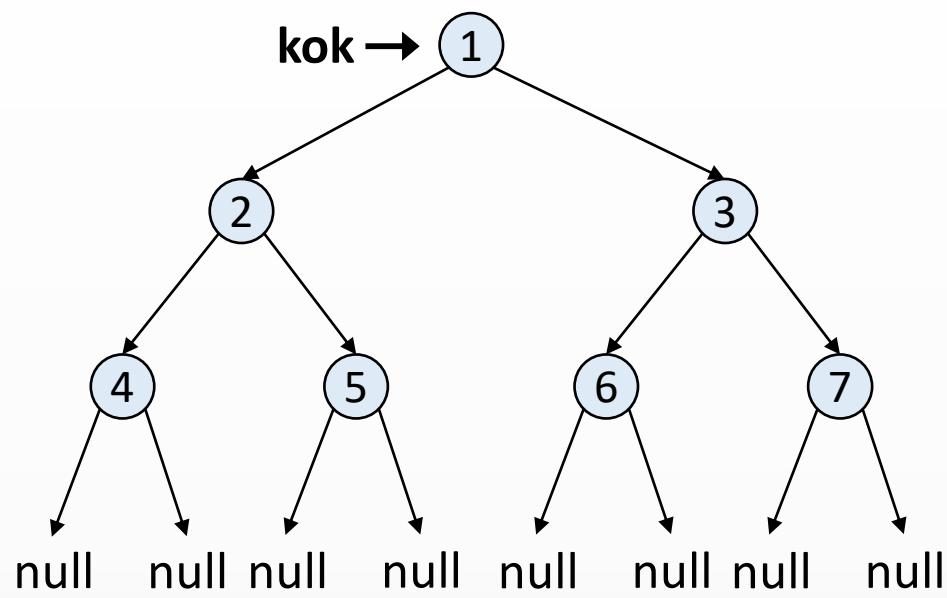
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

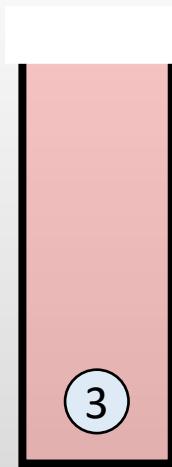
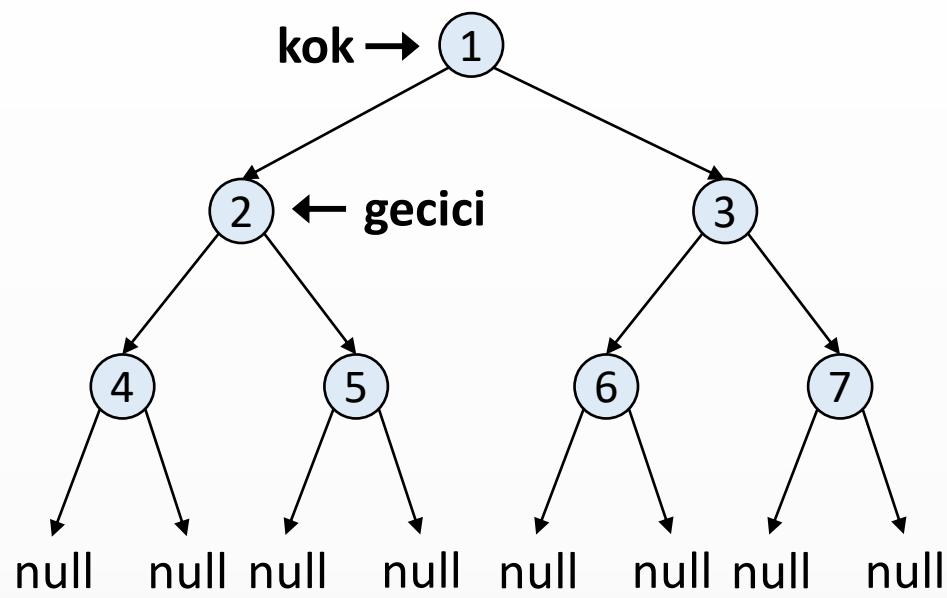
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

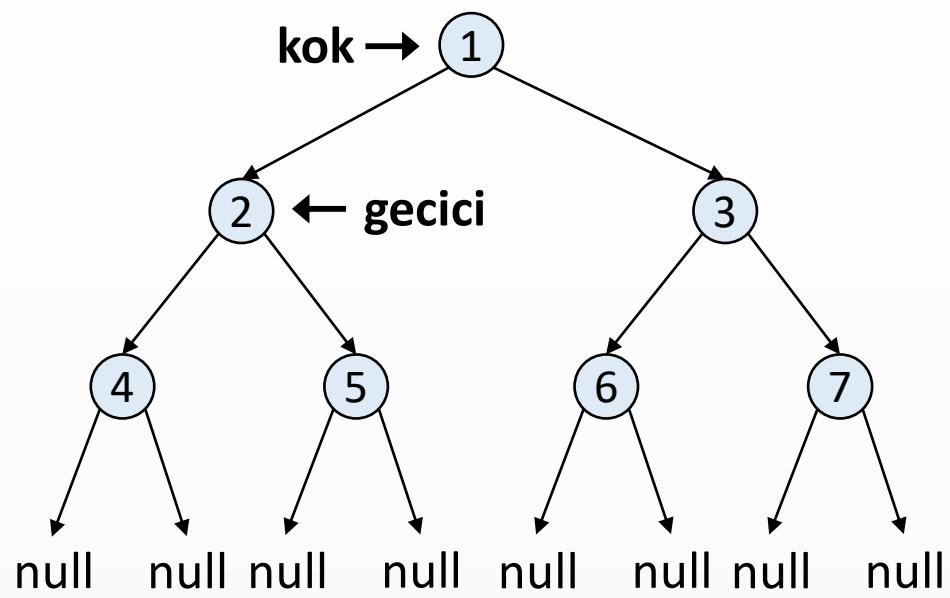
Cıktı: 1

```
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);  
    }  
}
```



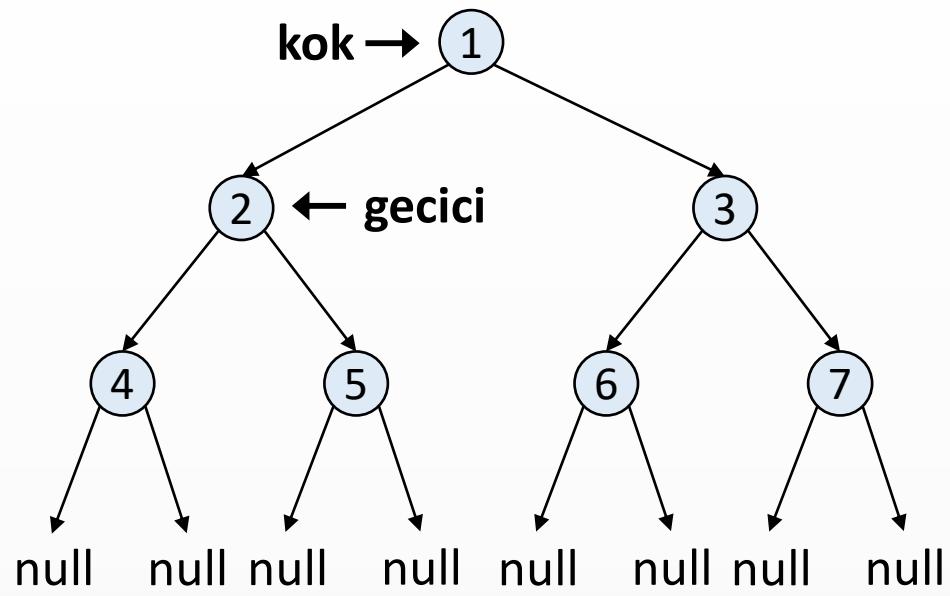
Cıktı: 1

```
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);  
    }  
}
```



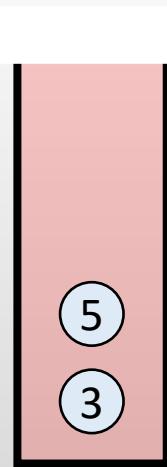
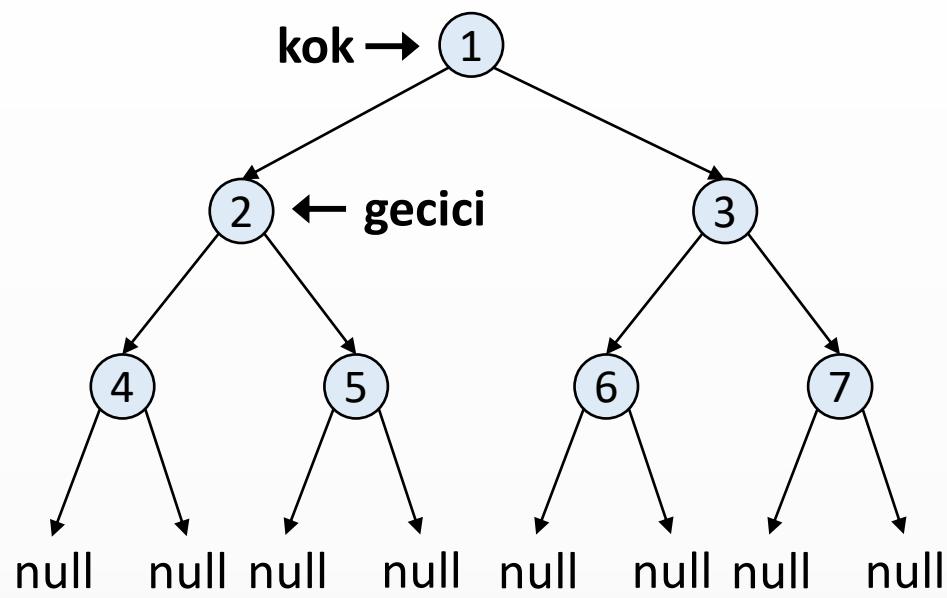
Cıktı: 1 2

```
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);  
    }  
}
```



Cıktı: 1 2

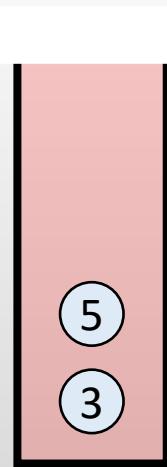
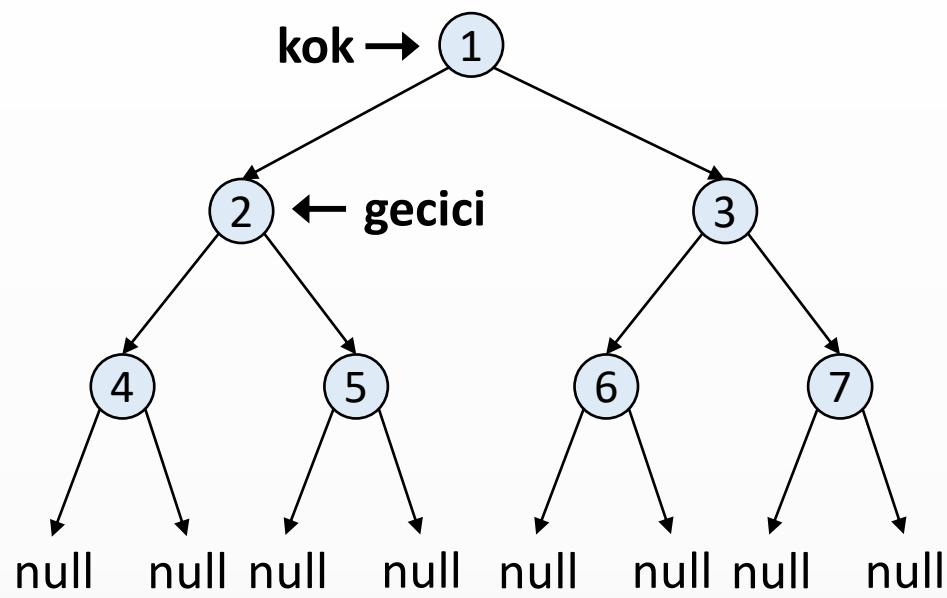
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2

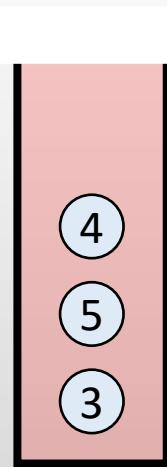
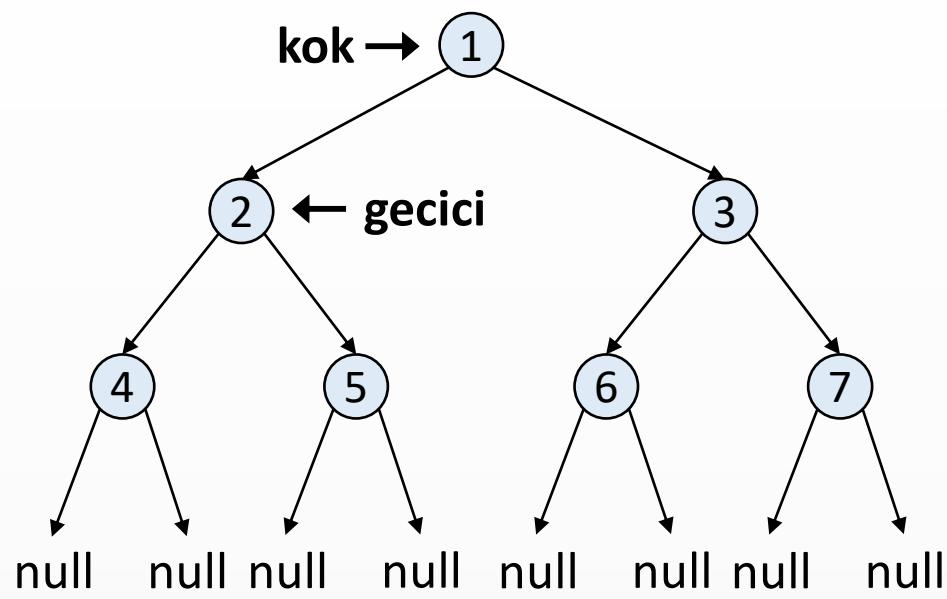
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

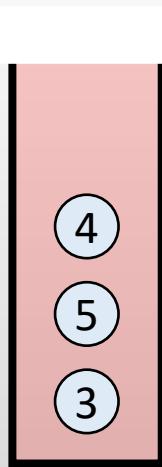
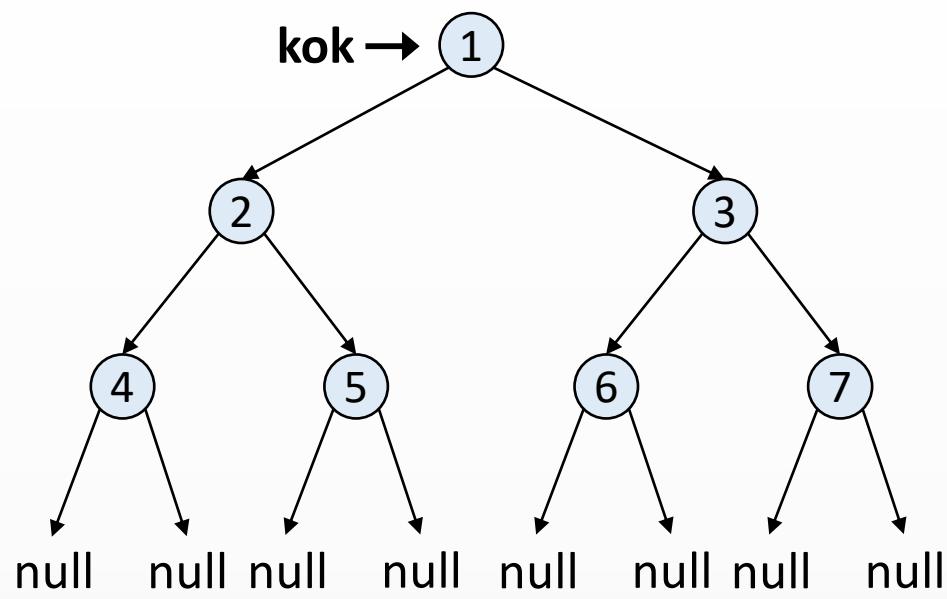
Cıktı: 1 2

```
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);  
    }  
}
```



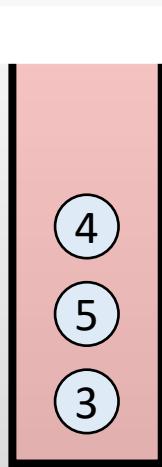
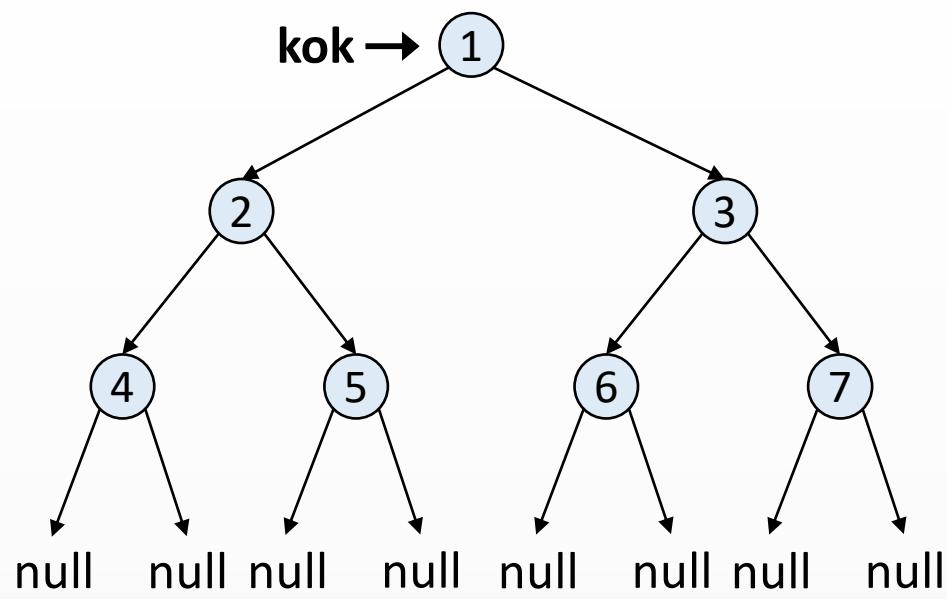
Cıktı: 1 2

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



Cıktı: 1 2

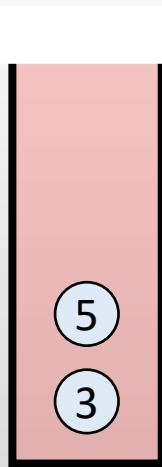
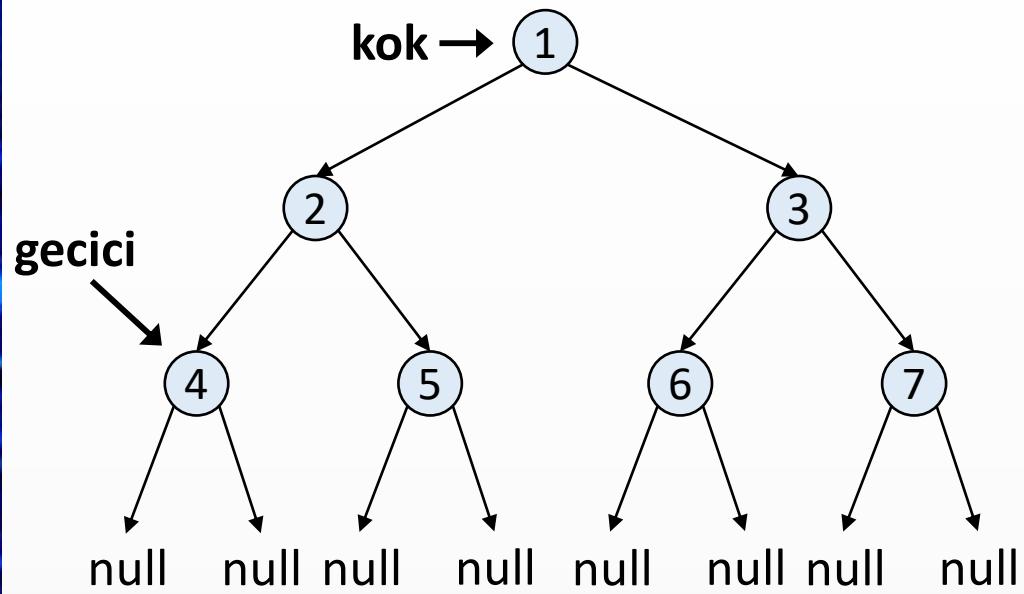
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2

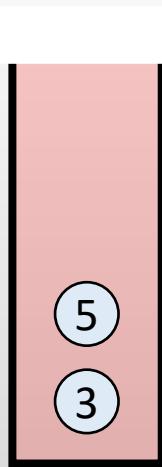
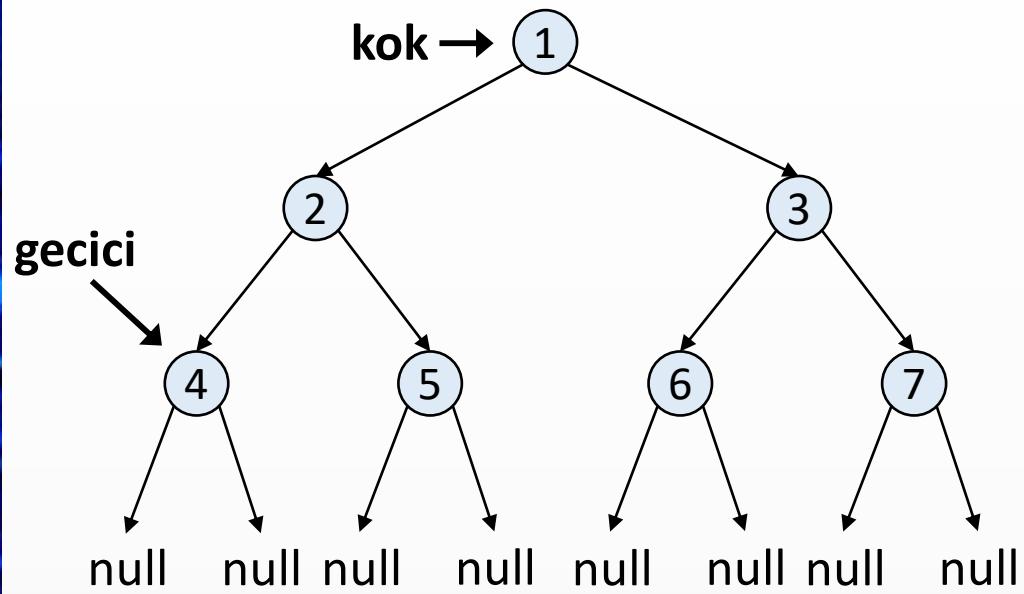
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
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    if(gecici.sag != null) {  
      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



Yığıt

Cıktı: 1 2

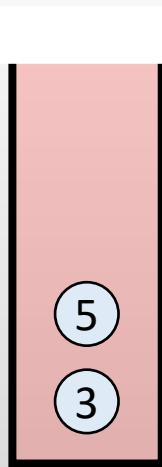
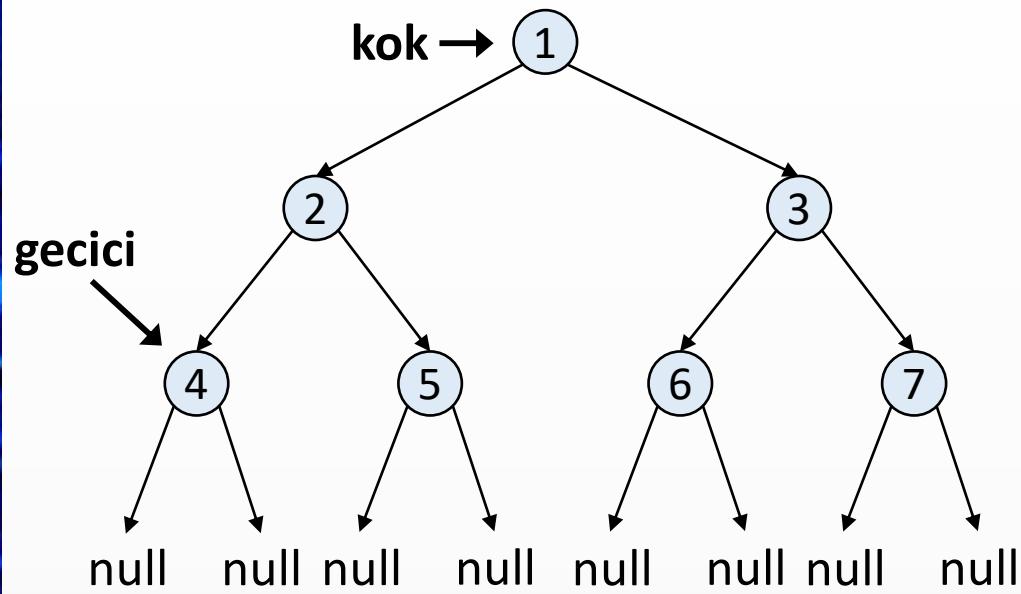
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4

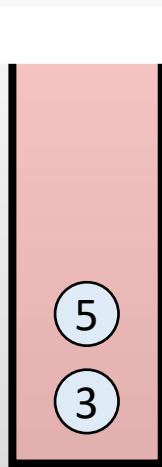
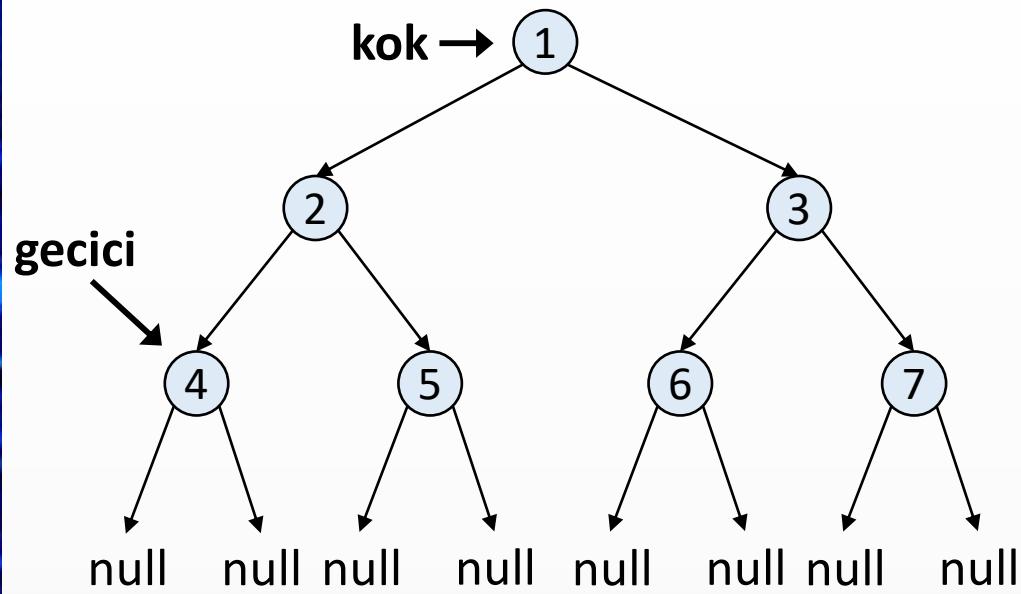
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);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



Yığıt

Cıktı: 1 2 4

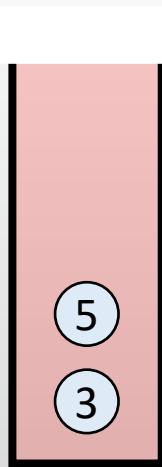
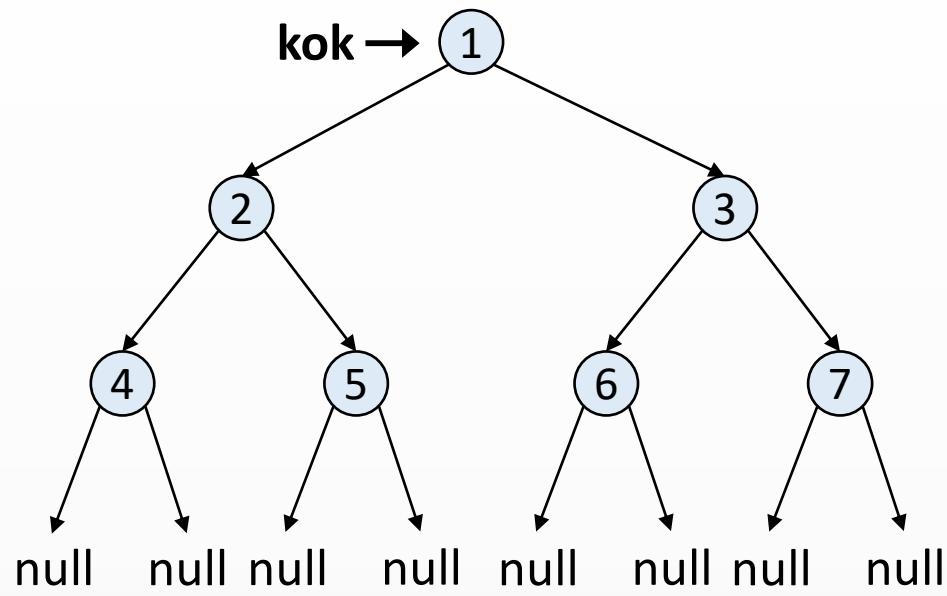
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4

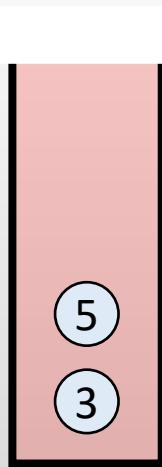
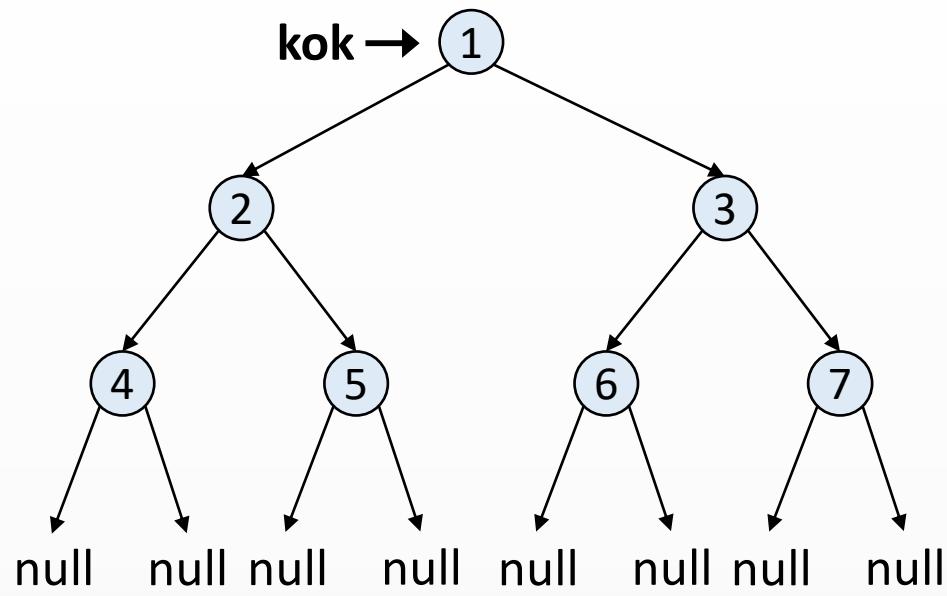
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    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
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    if(gecici.sol != null) {  
        yigit.push(gecici.sol);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



Yığıt

Cıktı: 1 2 4

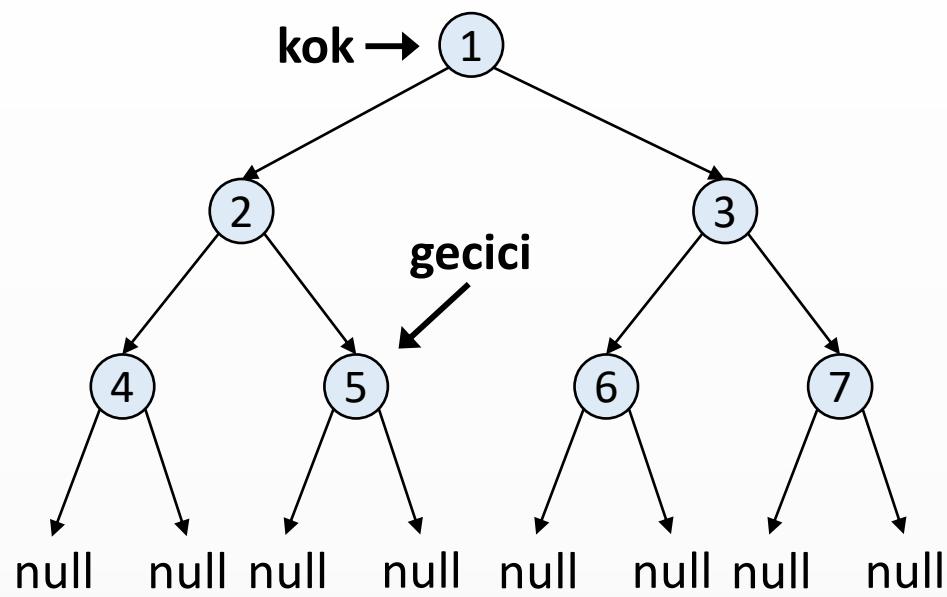
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);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



Yığıt

Cıktı: 1 2 4

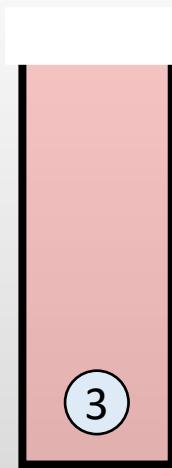
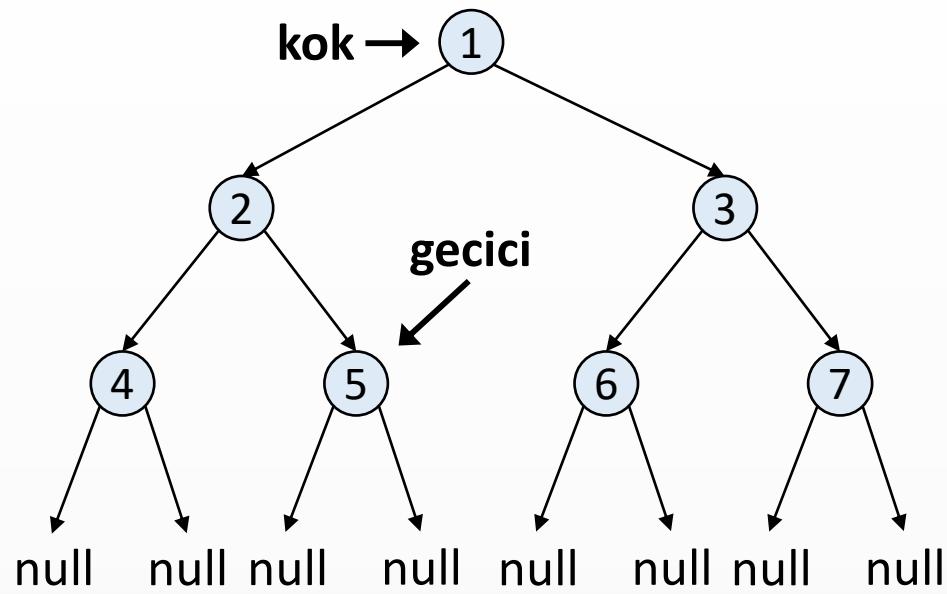
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
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        yigit.push(gecici.sag);  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



Yığıt

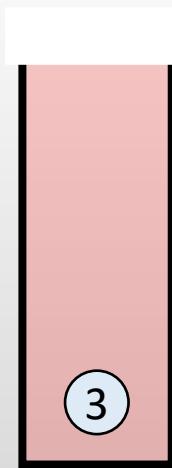
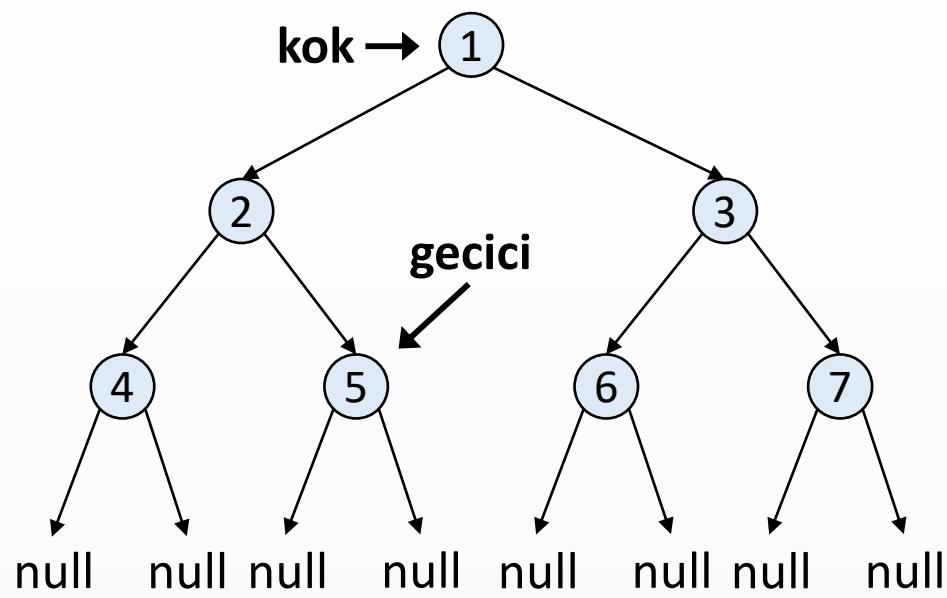
Cıktı: 1 2 4

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



Cıktı: 1 2 4 5

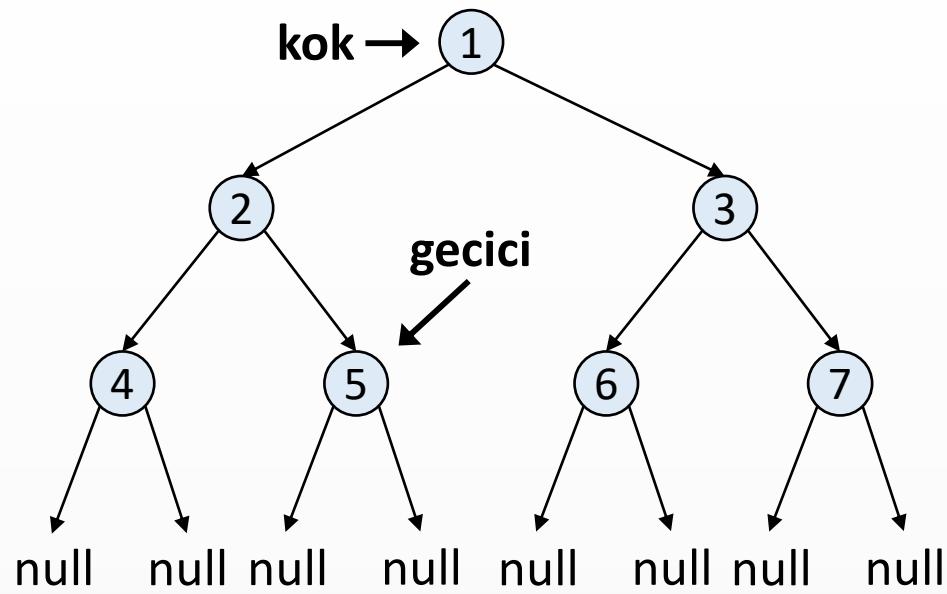
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

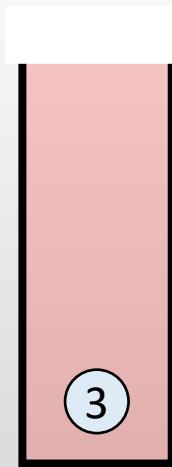
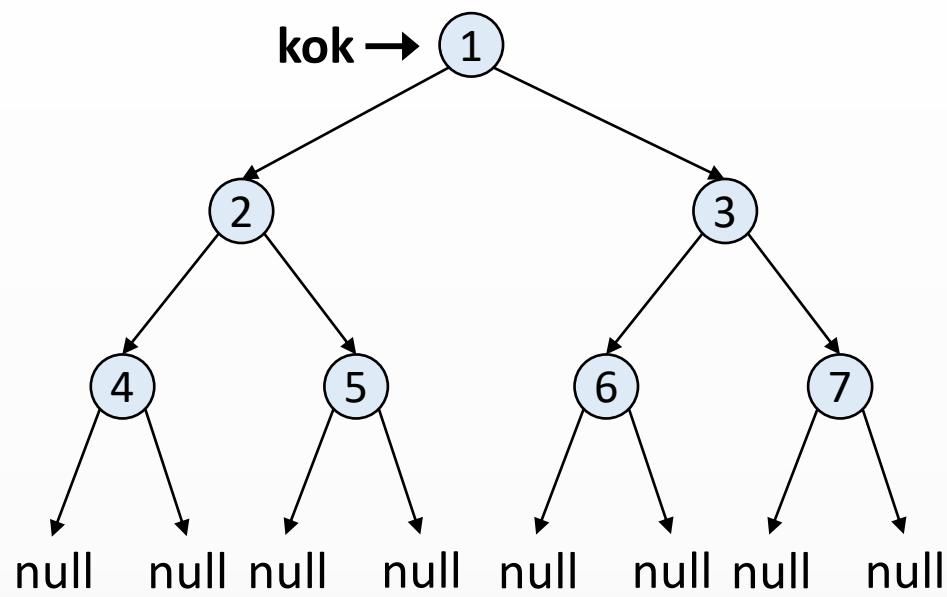
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

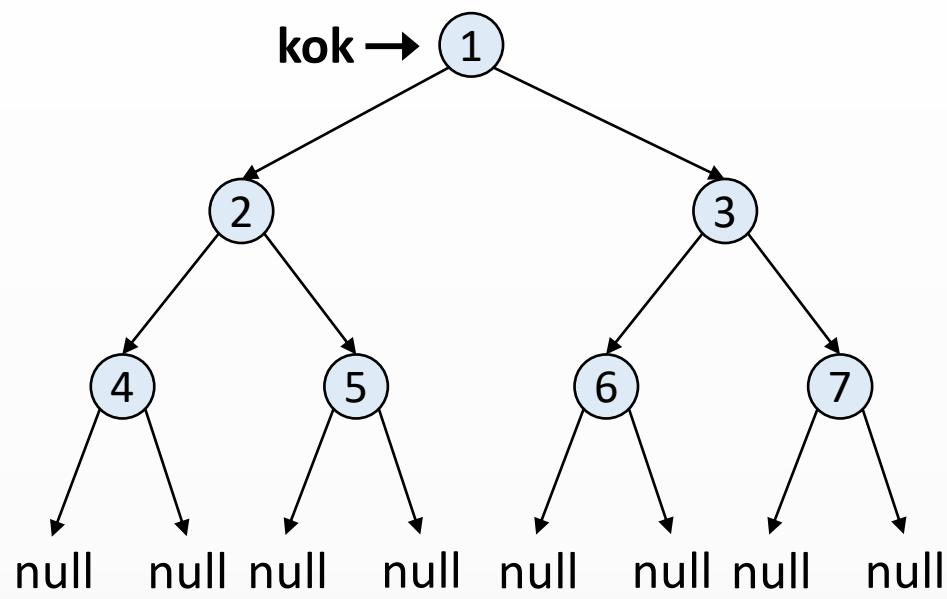
```
if(kok == null) {  
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yigit.push(kok);  
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    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
    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



Yığıt

Cıktı: 1 2 4 5

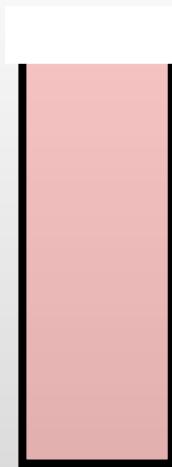
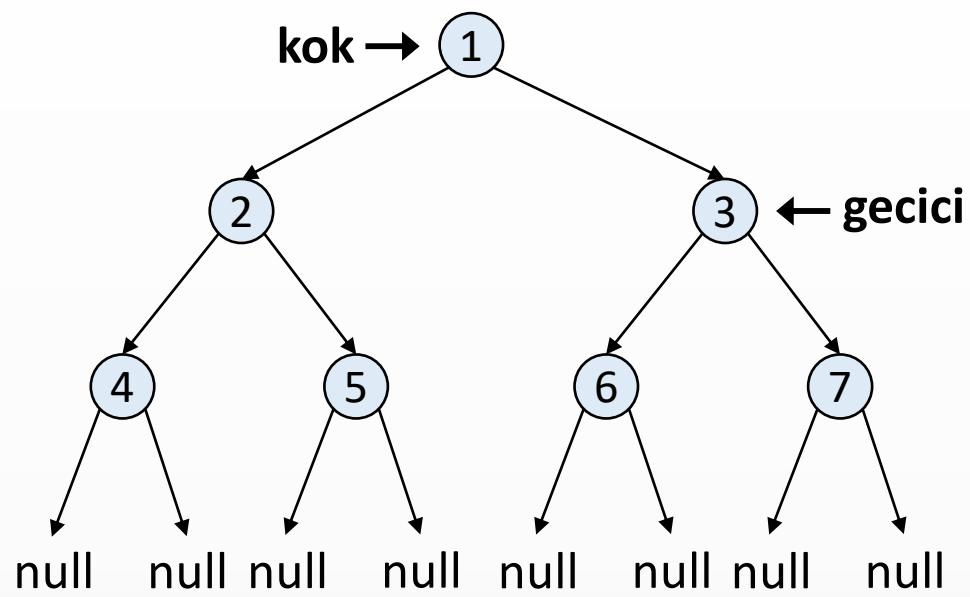
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
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    AgacDugumu gecici = yigit.pop();  
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        yigit.push(gecici.sag);  
 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



Yığıt

Cıktı: 1 2 4 5

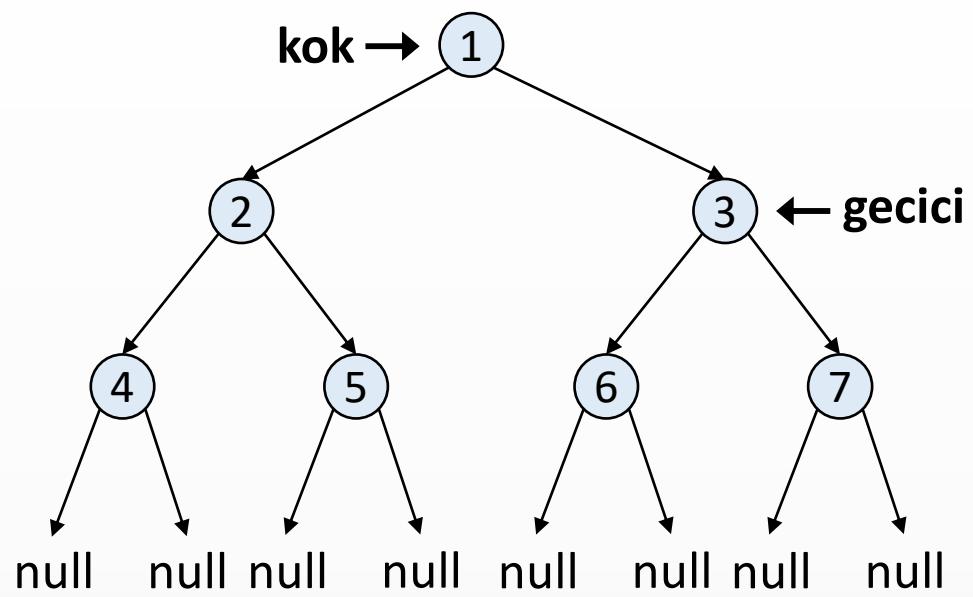
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        yigit.push(gecici.sol);  
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```



Yığıt

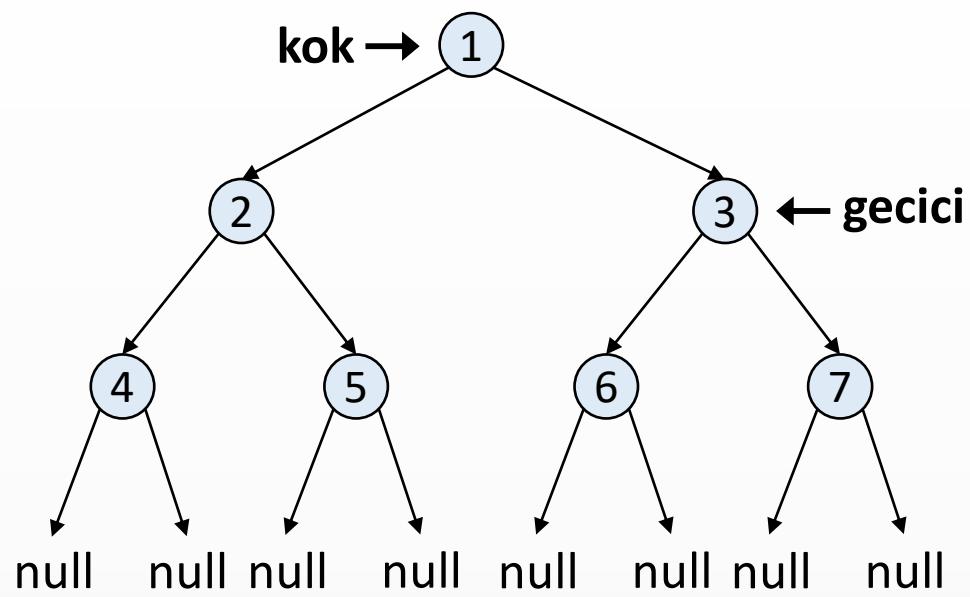
Cıktı: 1 2 4 5

```
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);  
    }  
}
```



Çıktı: 1 2 4 5 3

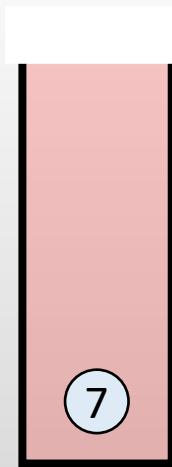
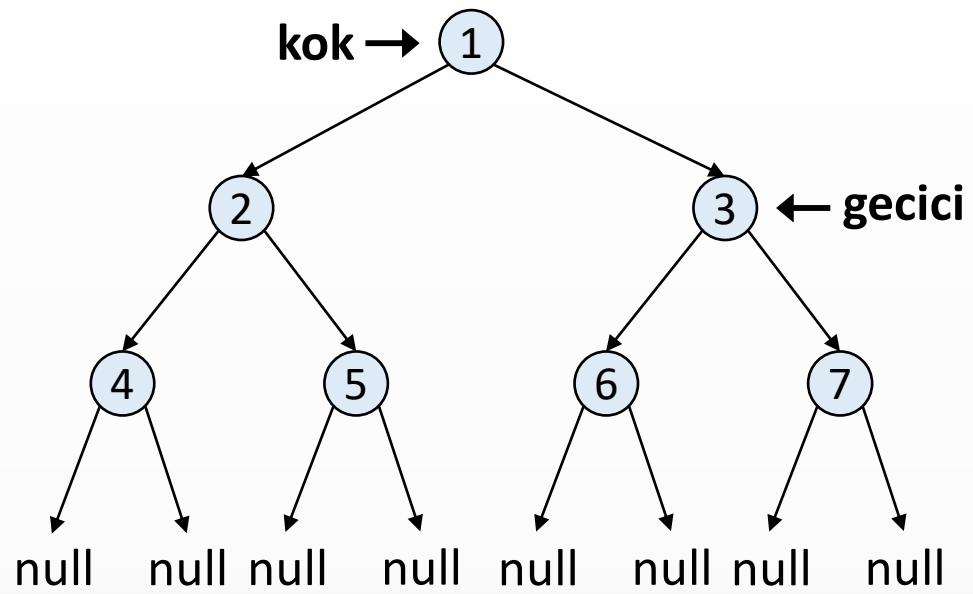
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

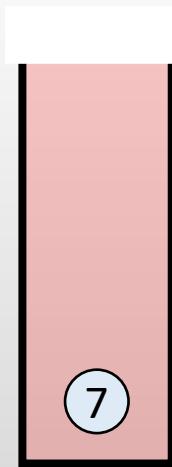
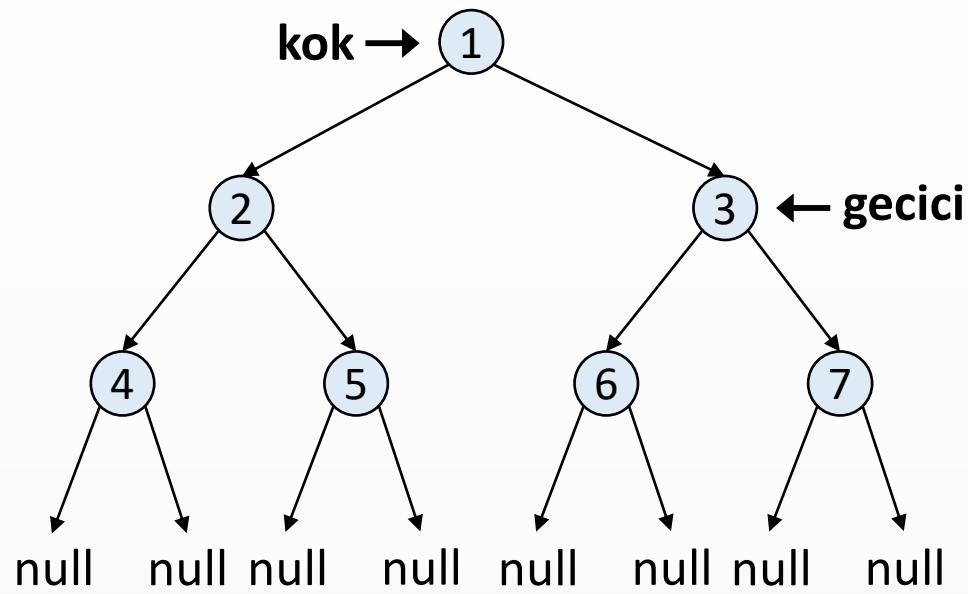
Cıktı: 1 2 4 5 3

```
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);  
    }  
}
```



Çıktı: 1 2 4 5 3

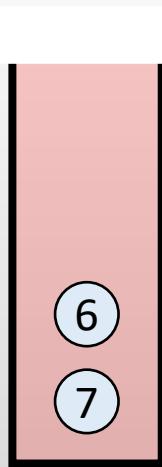
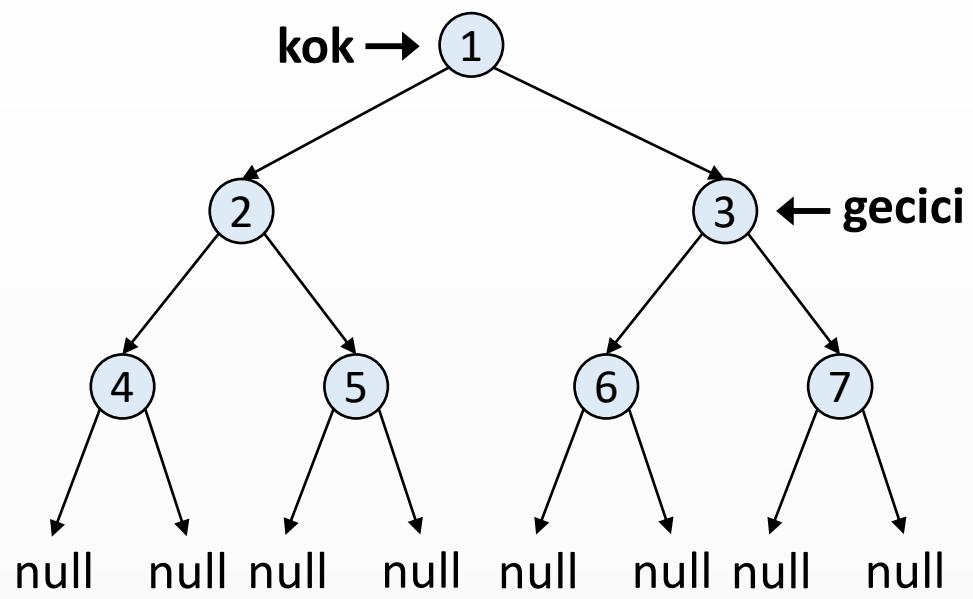
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3

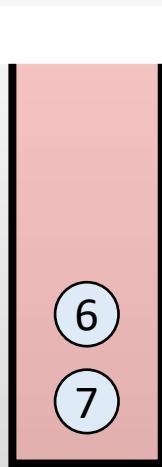
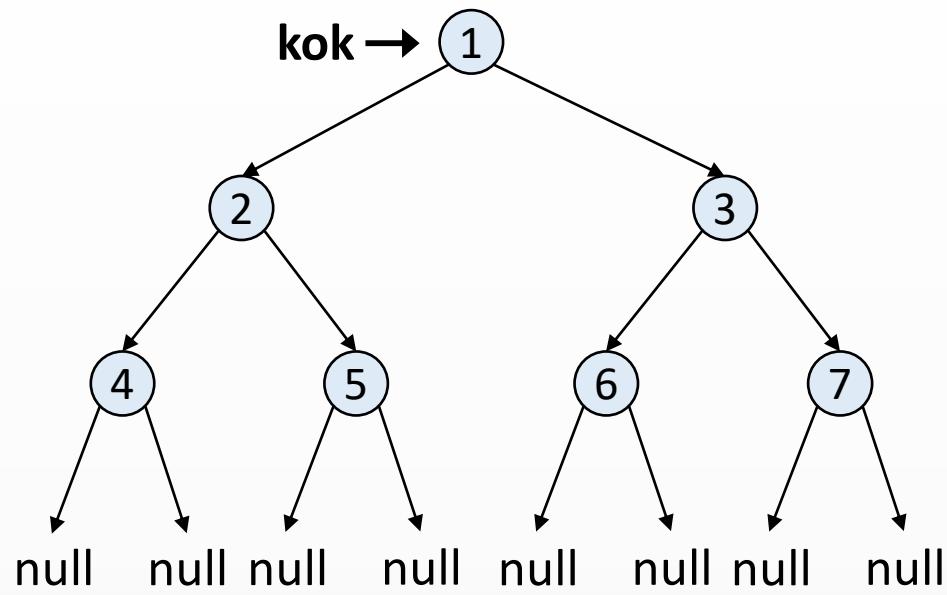
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3

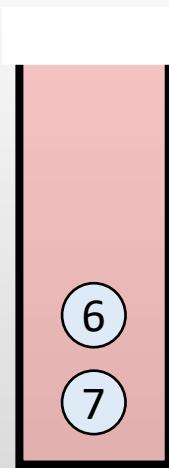
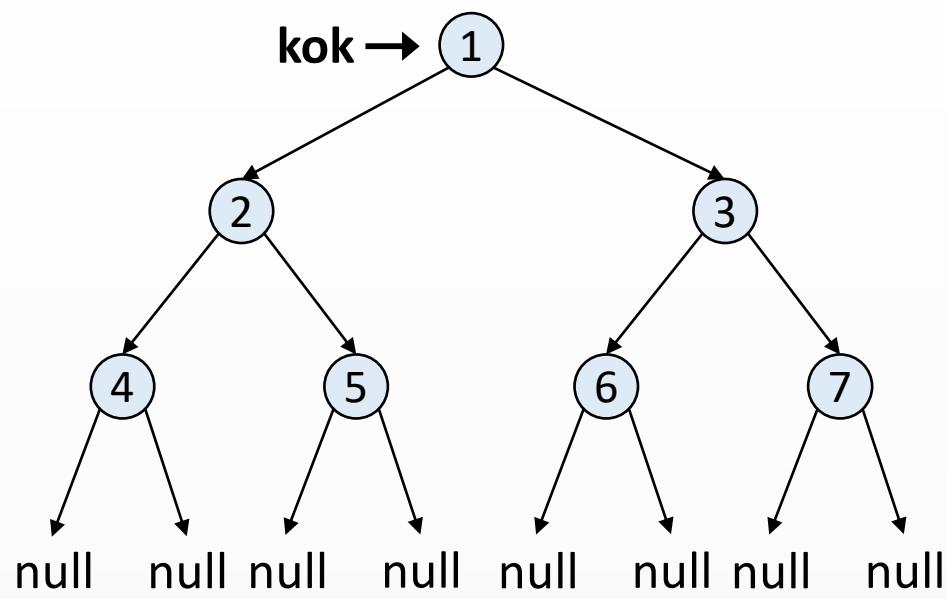
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3

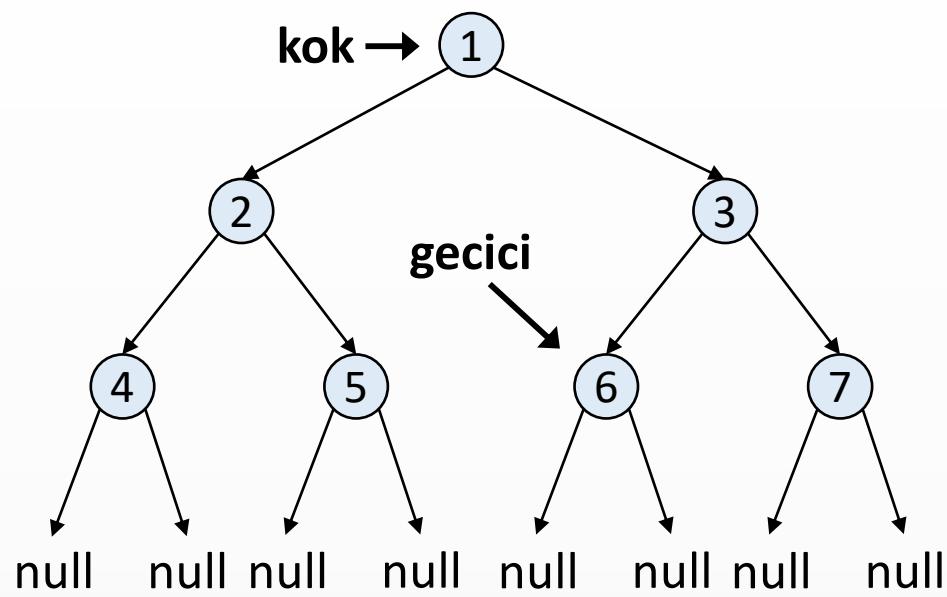
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

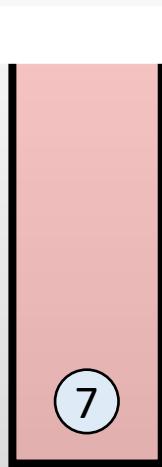
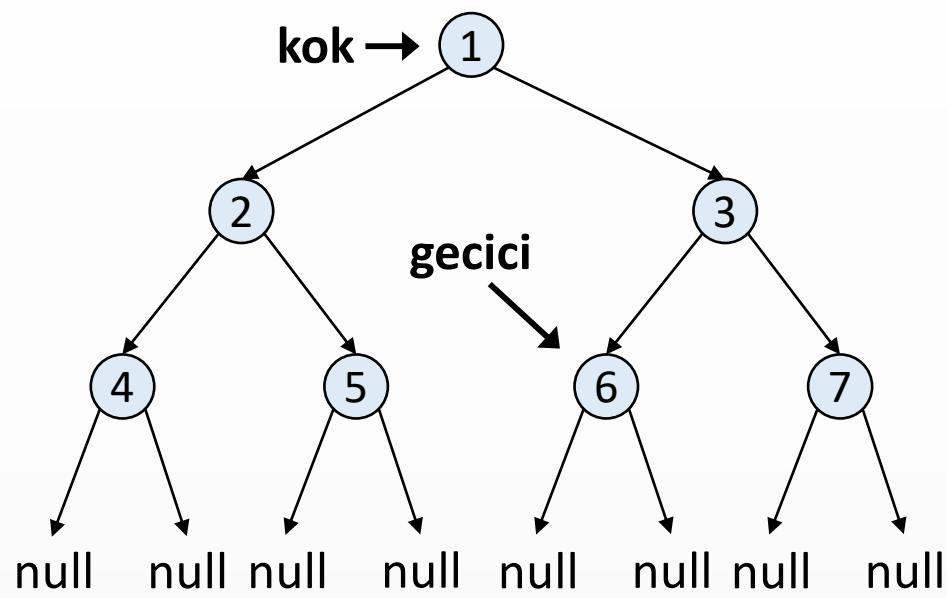
Cıktı: 1 2 4 5 3

```
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);  
    }  
}
```



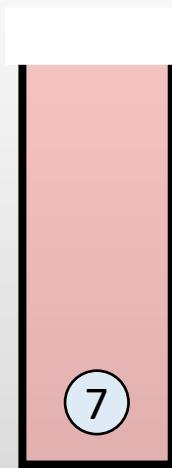
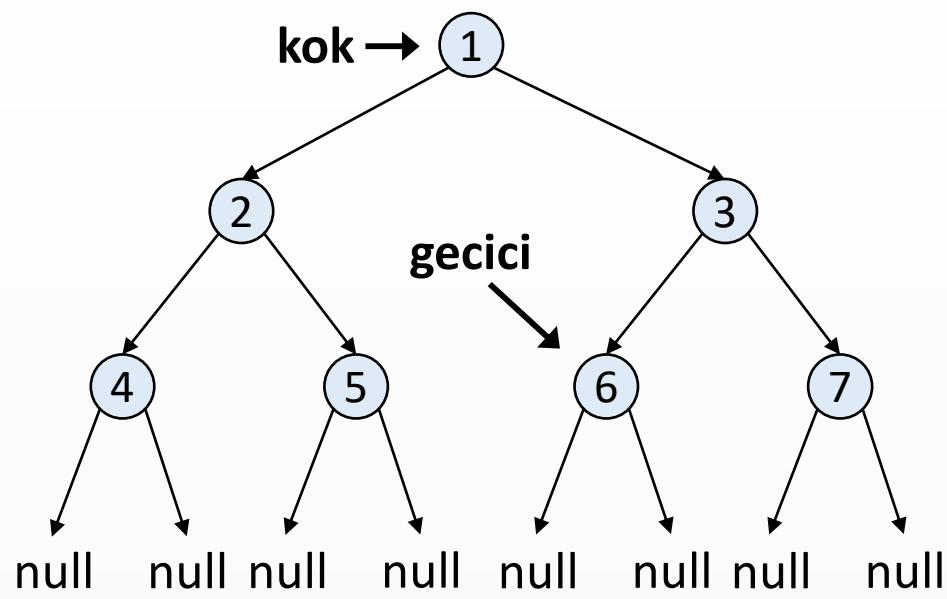
Çıktı: 1 2 4 5 3

```
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);  
    }  
}
```



Çıktı: 1 2 4 5 3 6

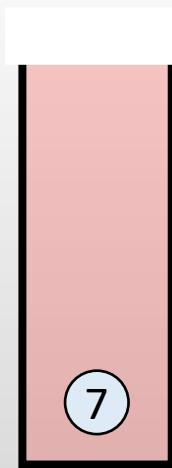
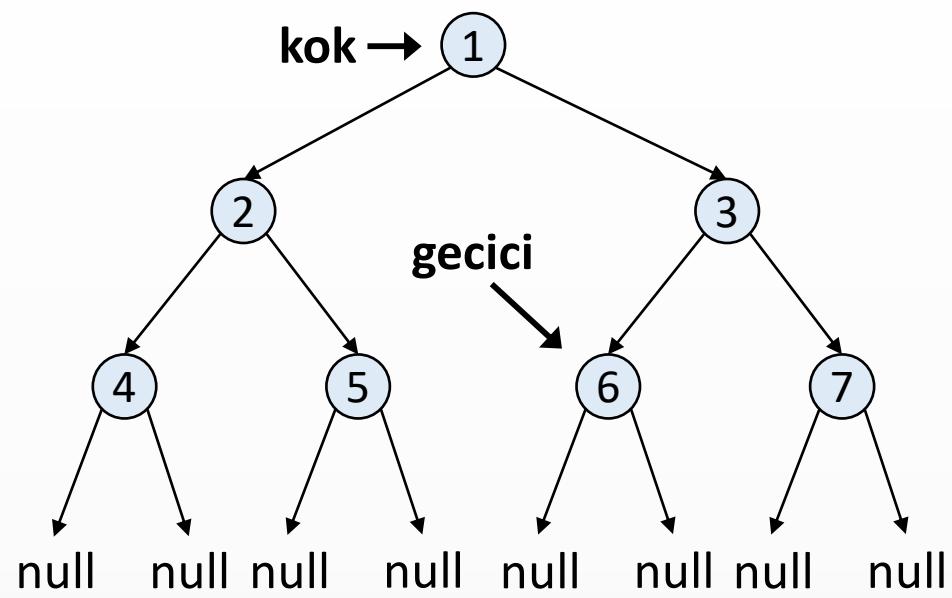
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1 2 4 5 3 6

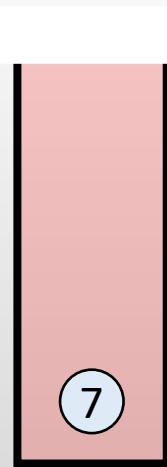
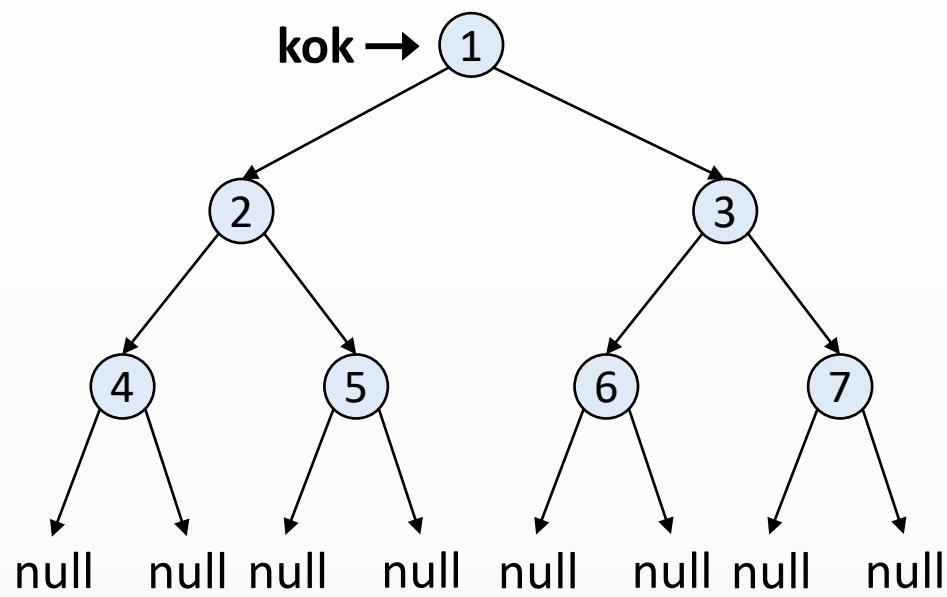
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3 6

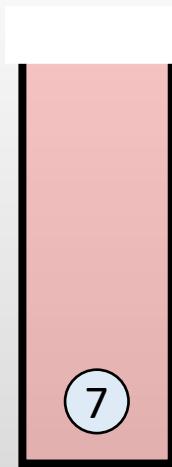
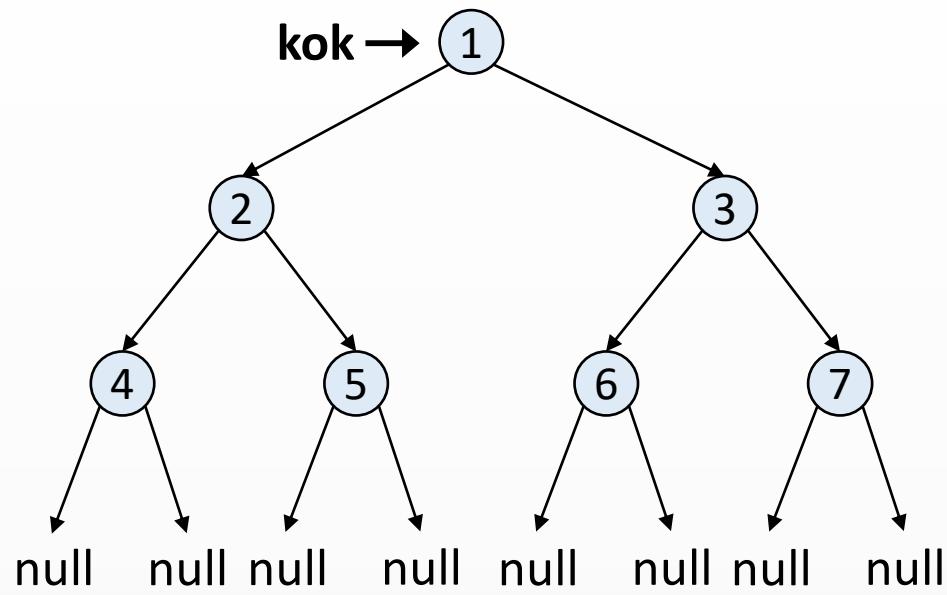
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

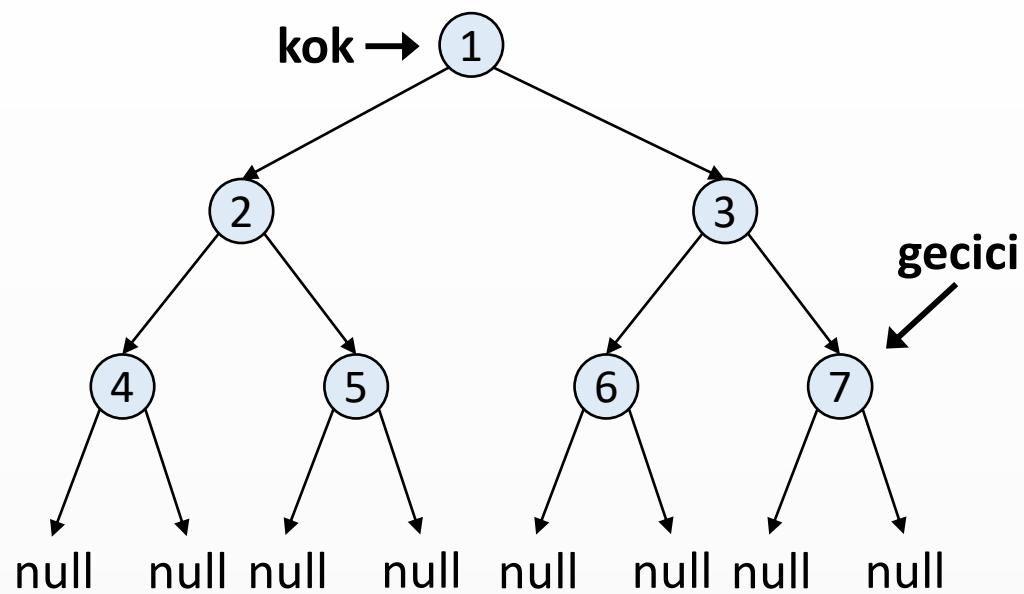
Cıktı: 1 2 4 5 3 6

```
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);  
    }  
}
```



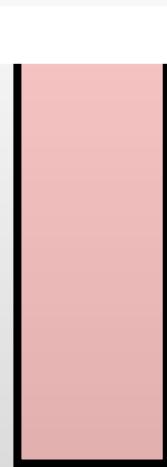
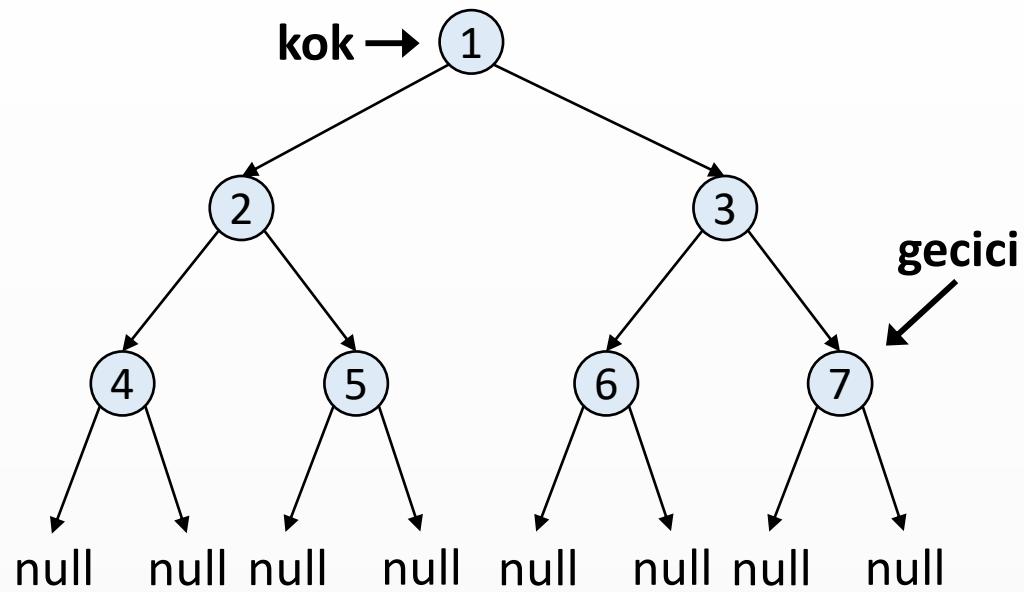
Cıktı: 1 2 4 5 3 6

```
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);  
    }  
}
```



Cıktı: 1 2 4 5 3 6

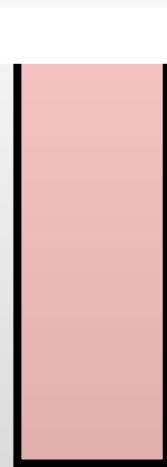
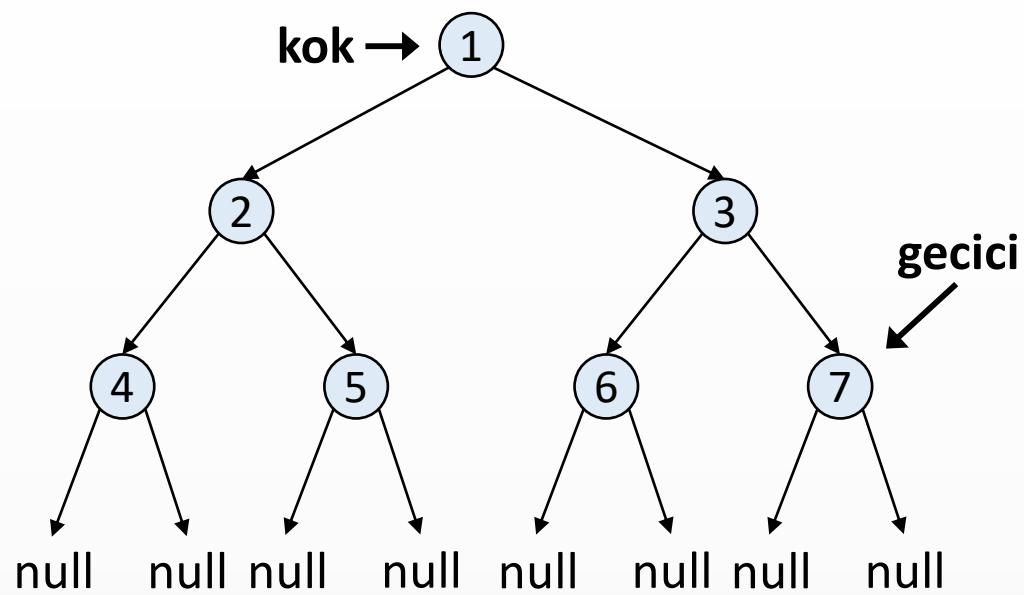
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1 2 4 5 3 6 7

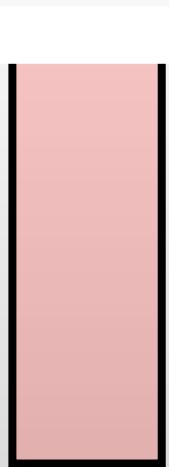
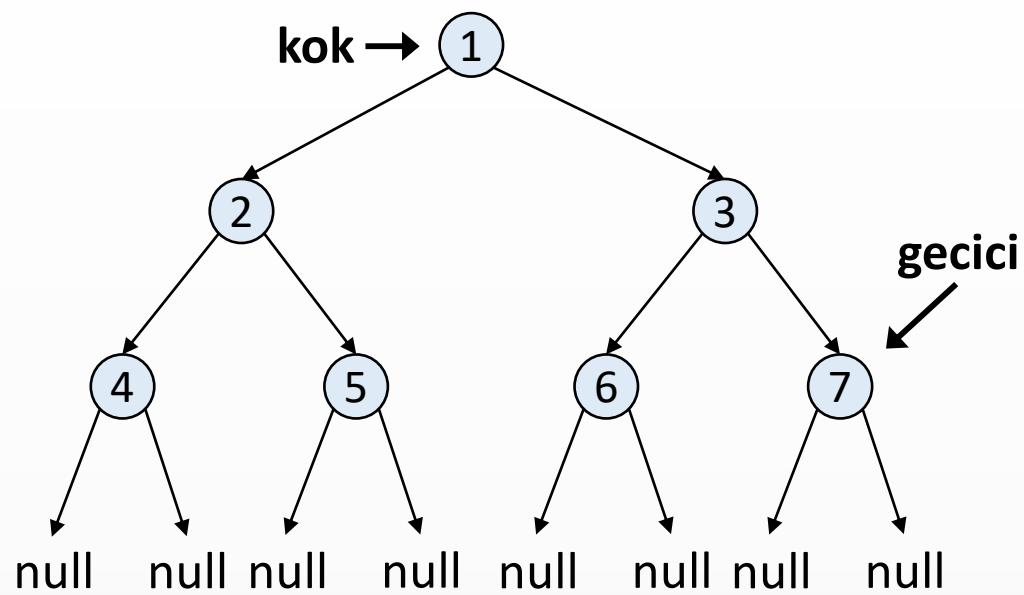
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3 6 7

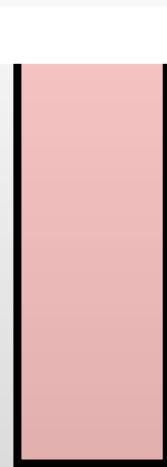
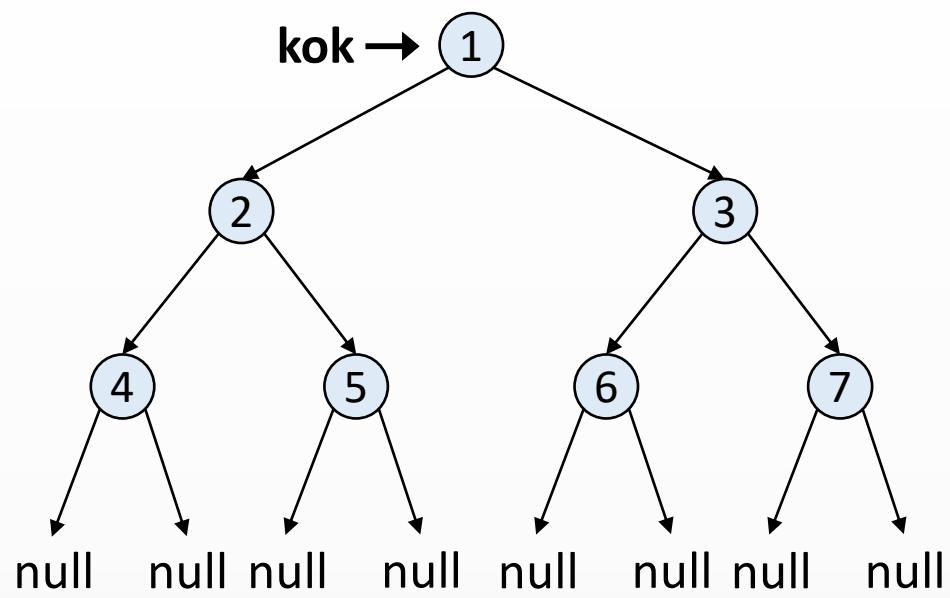
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3 6 7

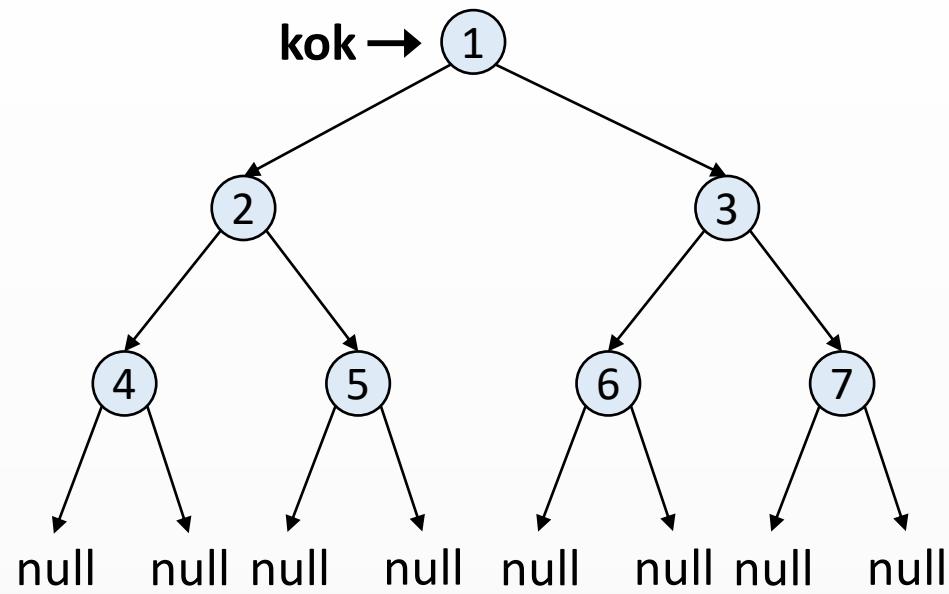
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3 6 7

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



Çıktı: 1 2 4 5 3 6 7



```

if(kok == null) {
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}
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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);
    }
}

```

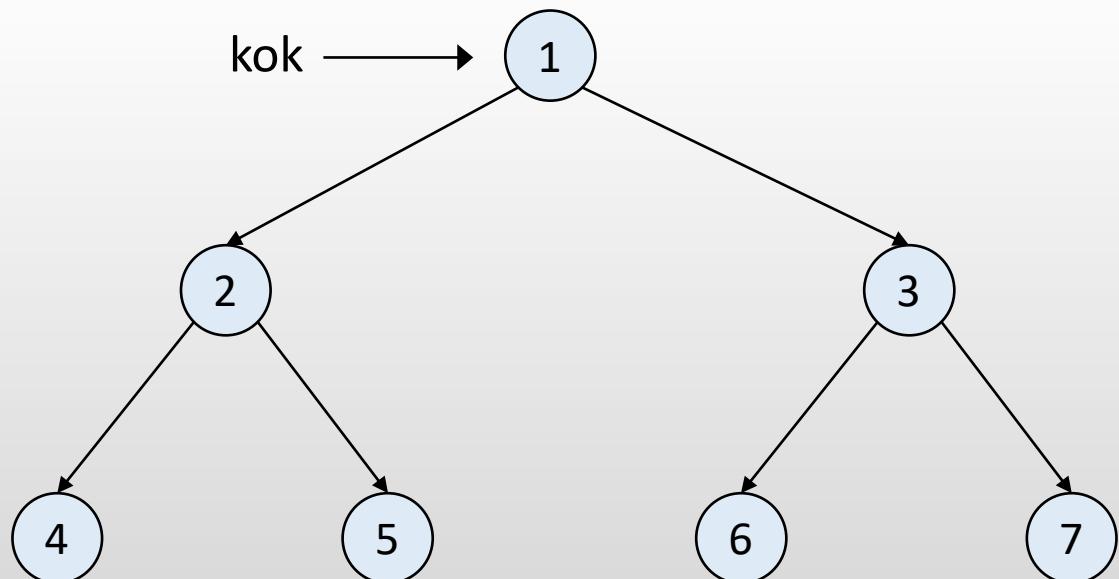
Kök Ortada (Inorder) Dolasımı





Kök Ortada (Inorder) Dolasımı

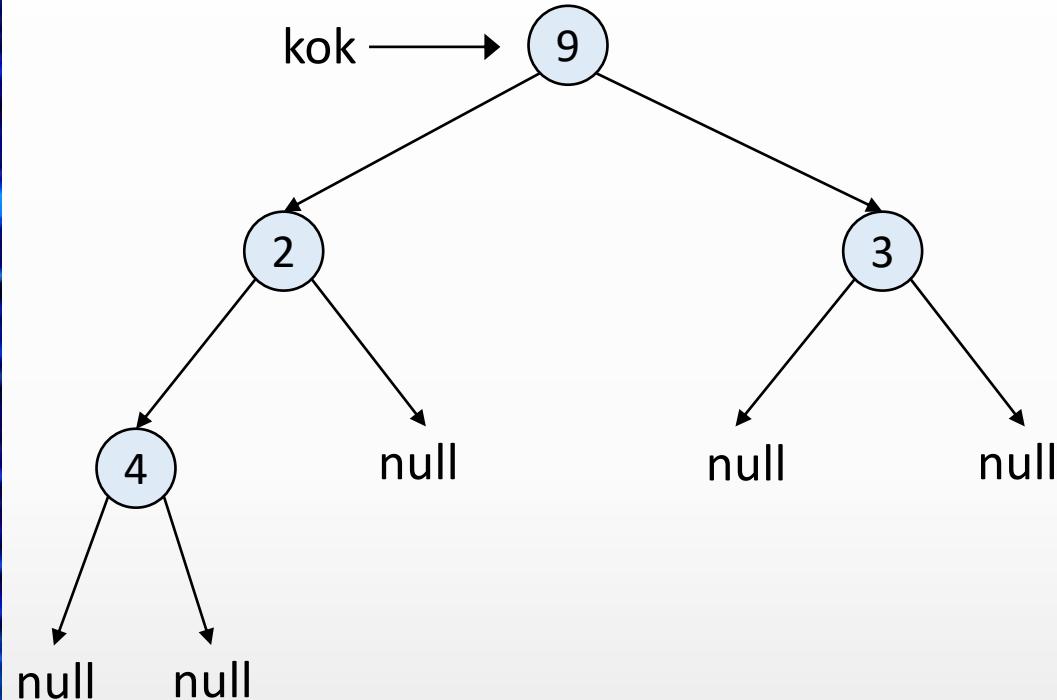
- Kök ortada olacak şekilde sol alt ağacı dolaş.
- Kök düğümü ziyaret et.
- Kök ortada olacak şekilde sağ alt ağacı dolaş.



Kök ortada dolasımı: 4 2 5 1 6 3 7



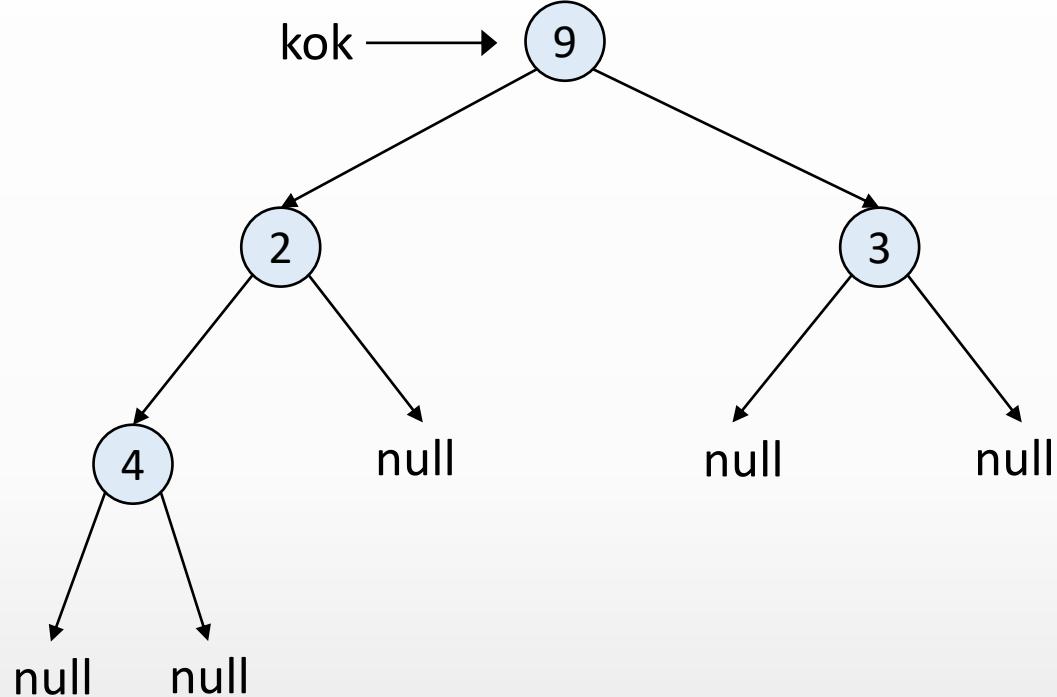
Çağırma Yığıtı (Call Stack)



Çıktı:

Metot Çağrımı	Satır Numarası	Kök

```
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 Yığıtı (Call Stack)

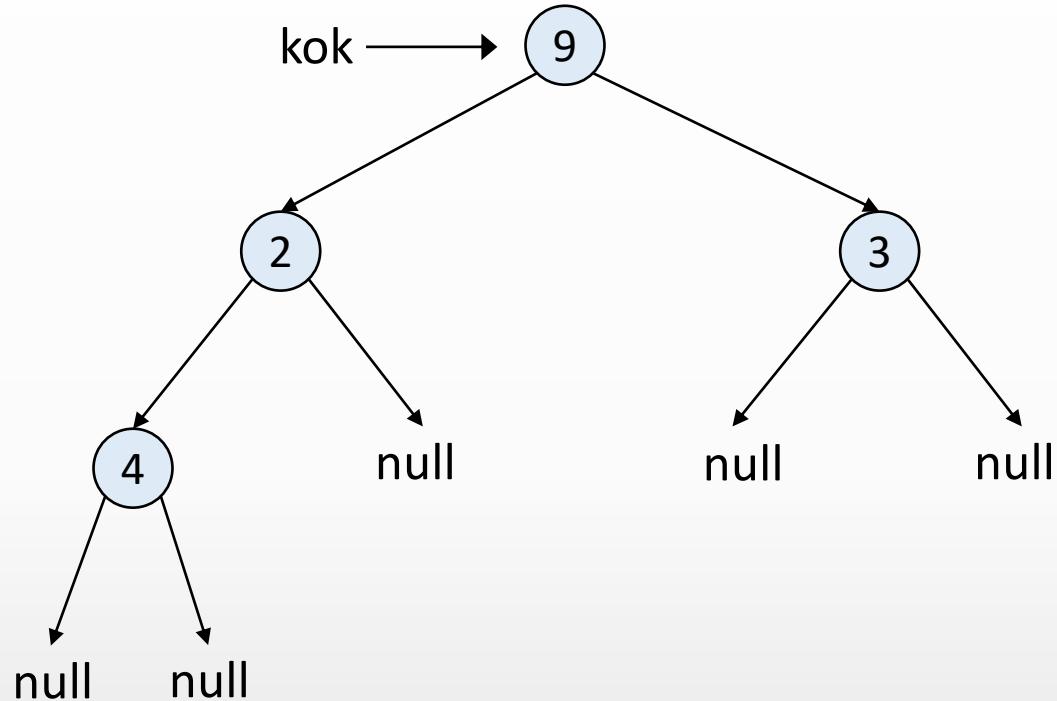
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()		9

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 Yığıtı (Call Stack)



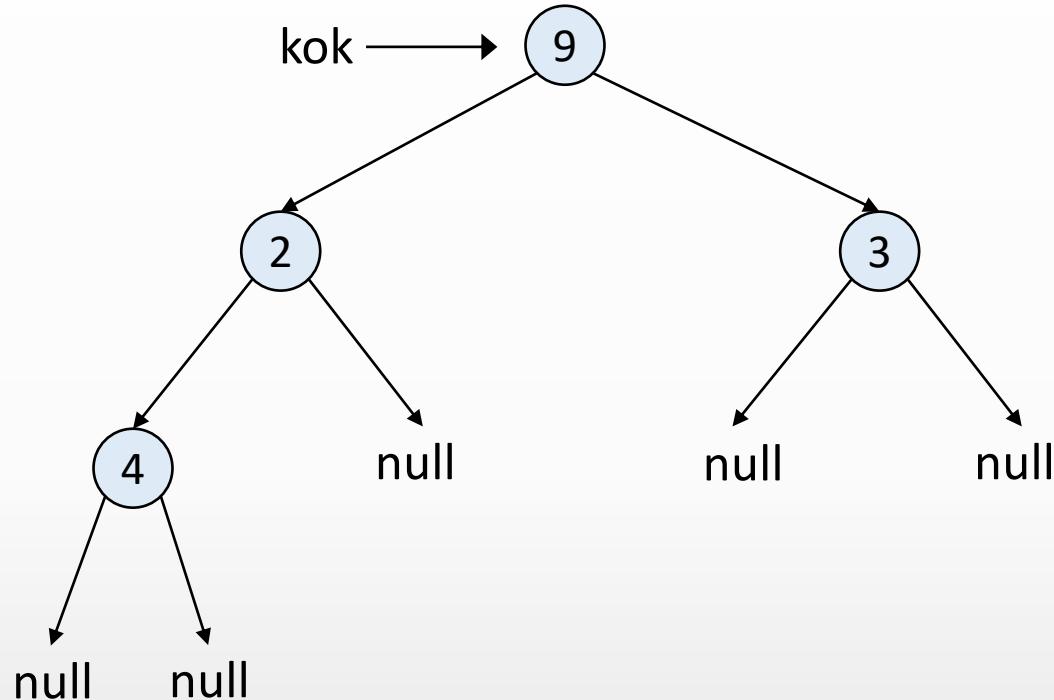
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()		9

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 Yığıtı (Call Stack)



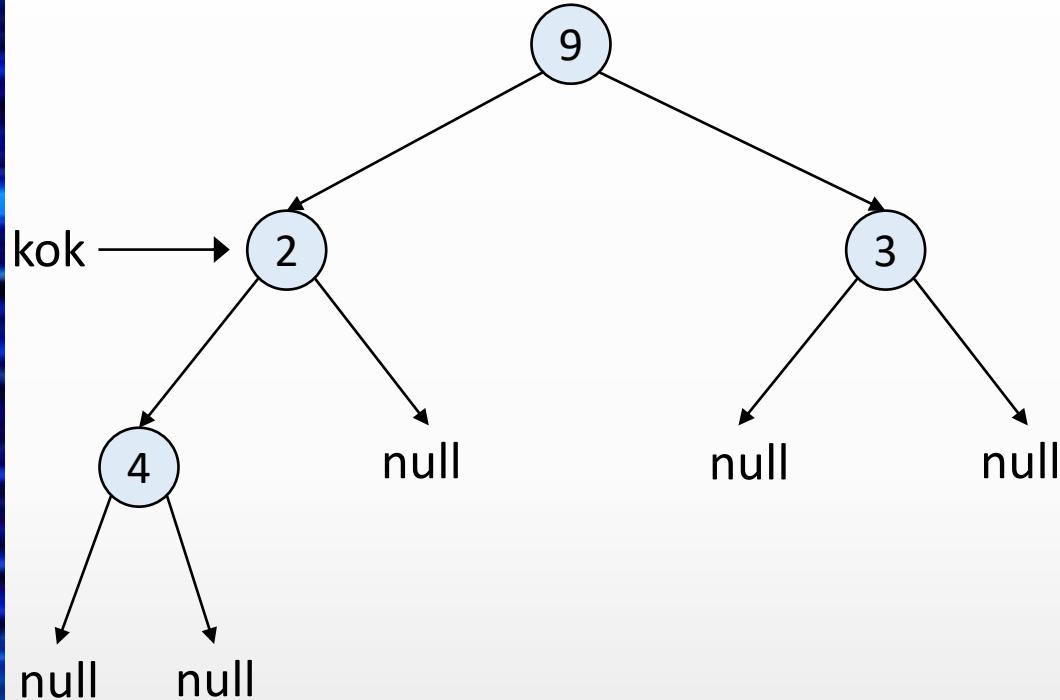
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

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 Yığıtı (Call Stack)



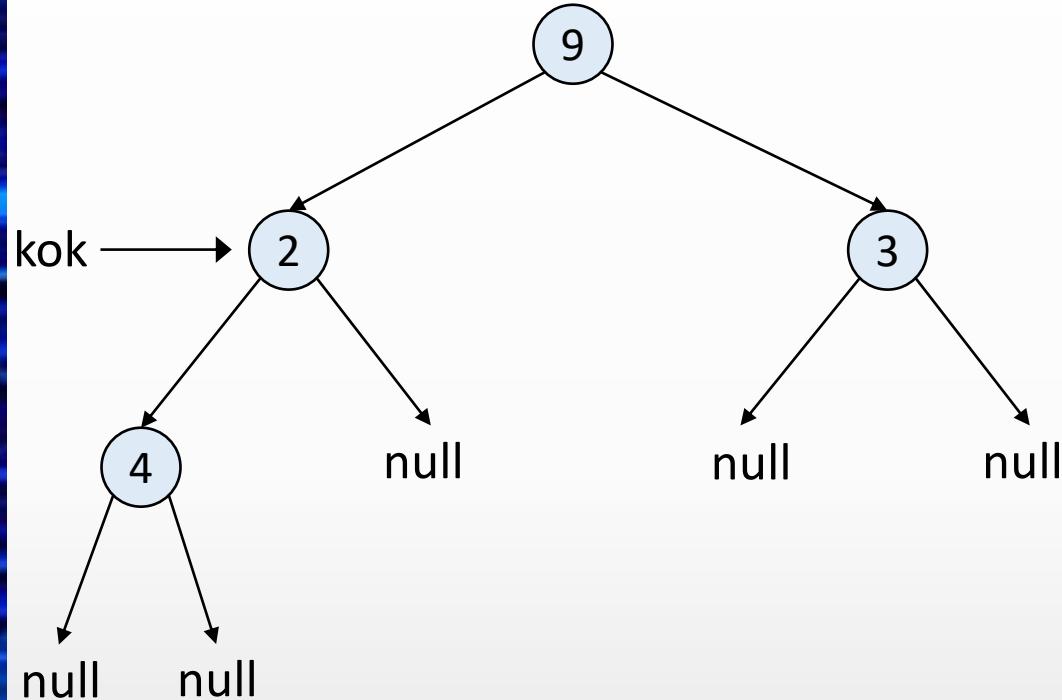
Çıktı:

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()		2

```
→ 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 Yığıtı (Call Stack)



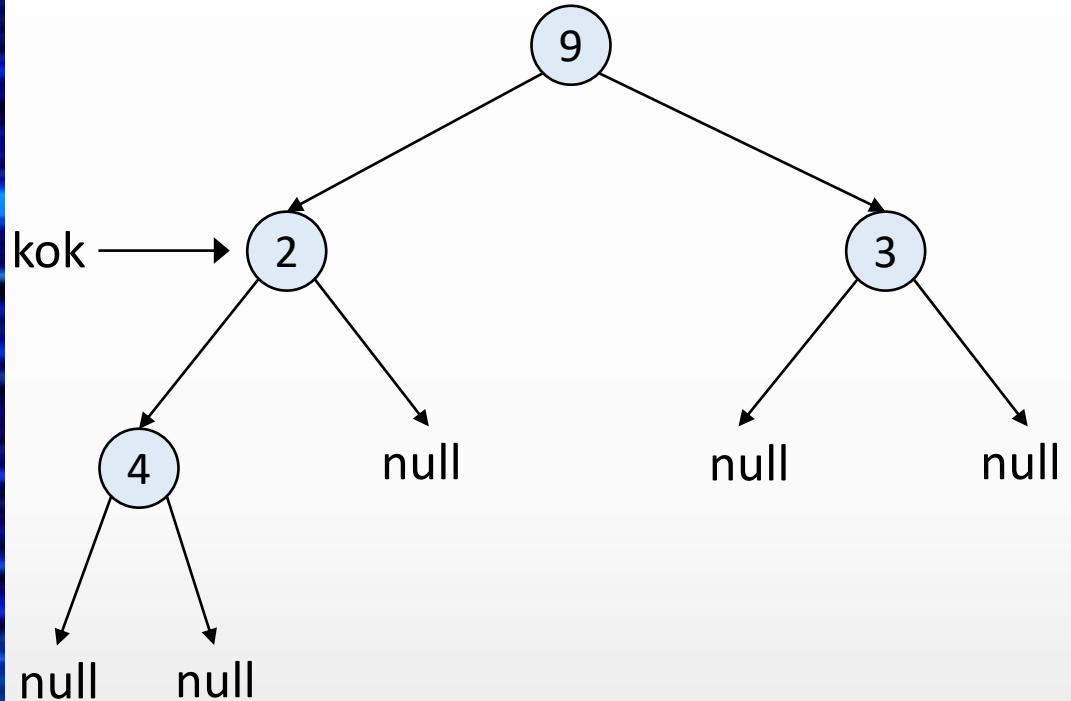
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()		2

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 Yığıtı (Call Stack)



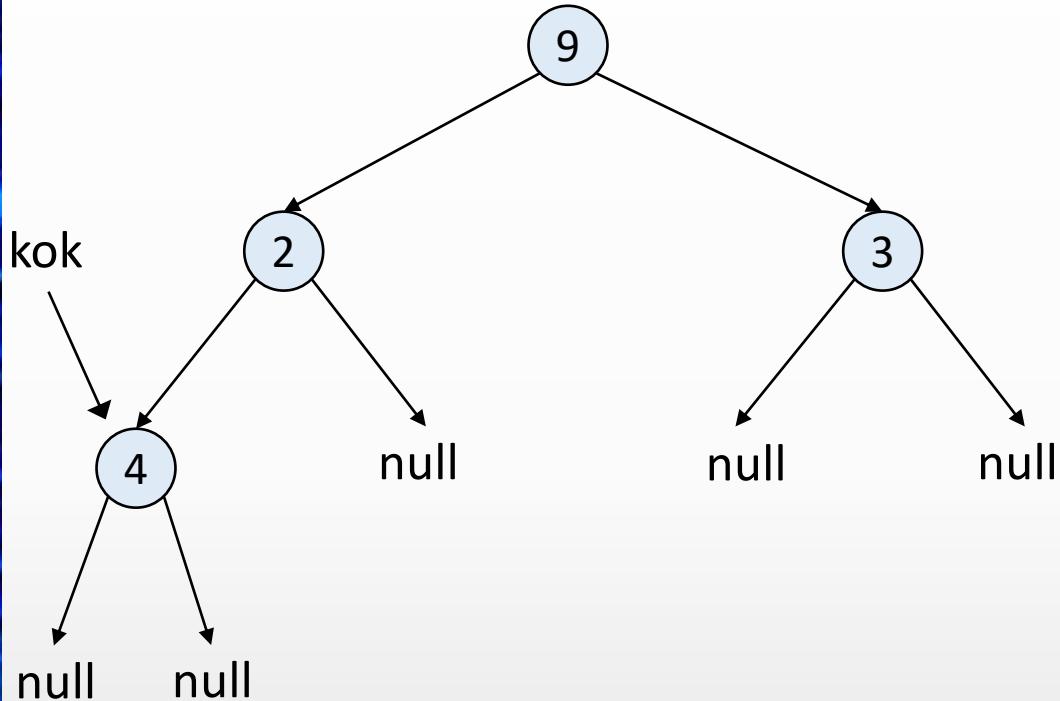
Çıktı:

```
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 }
```

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2



Çağırma Yığıtı (Call Stack)



Çıktı:

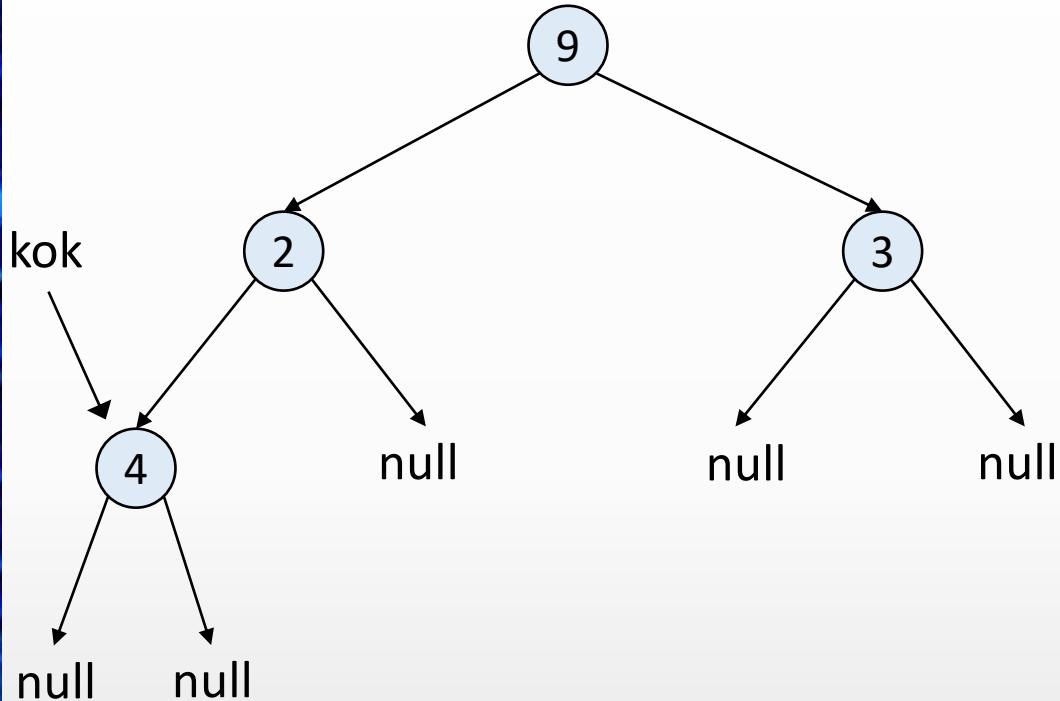
→

```
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 }
```

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



Çağırma Yığıtı (Call Stack)



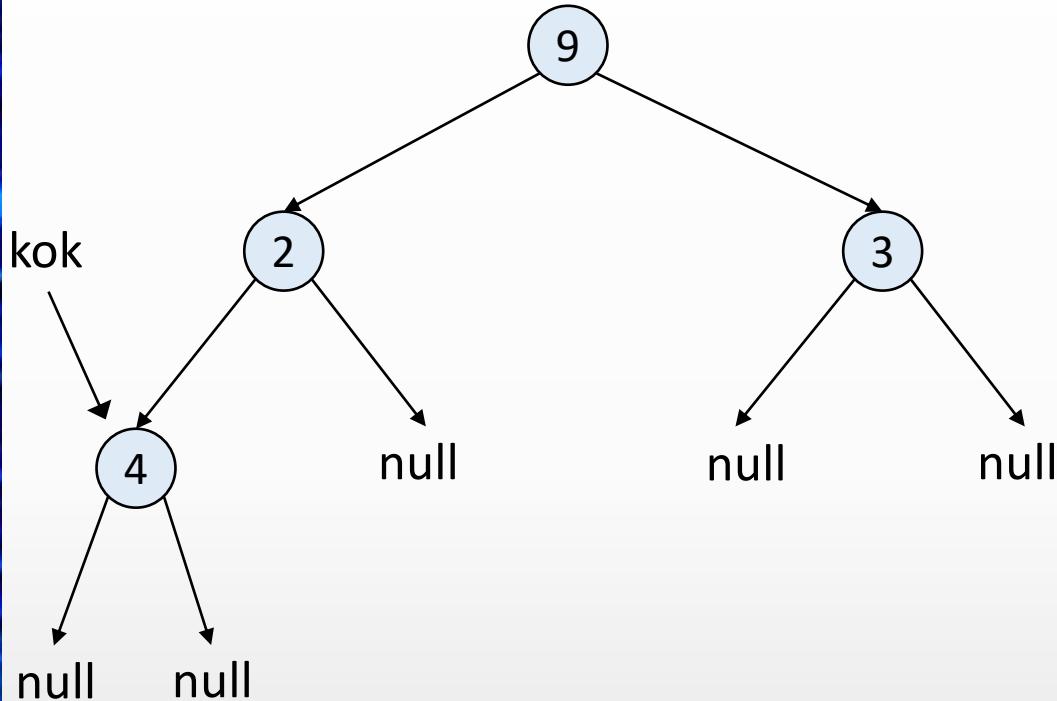
Çıktı:

```
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 }
```

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



Çağırma Yığıtı (Call Stack)



Çıktı:



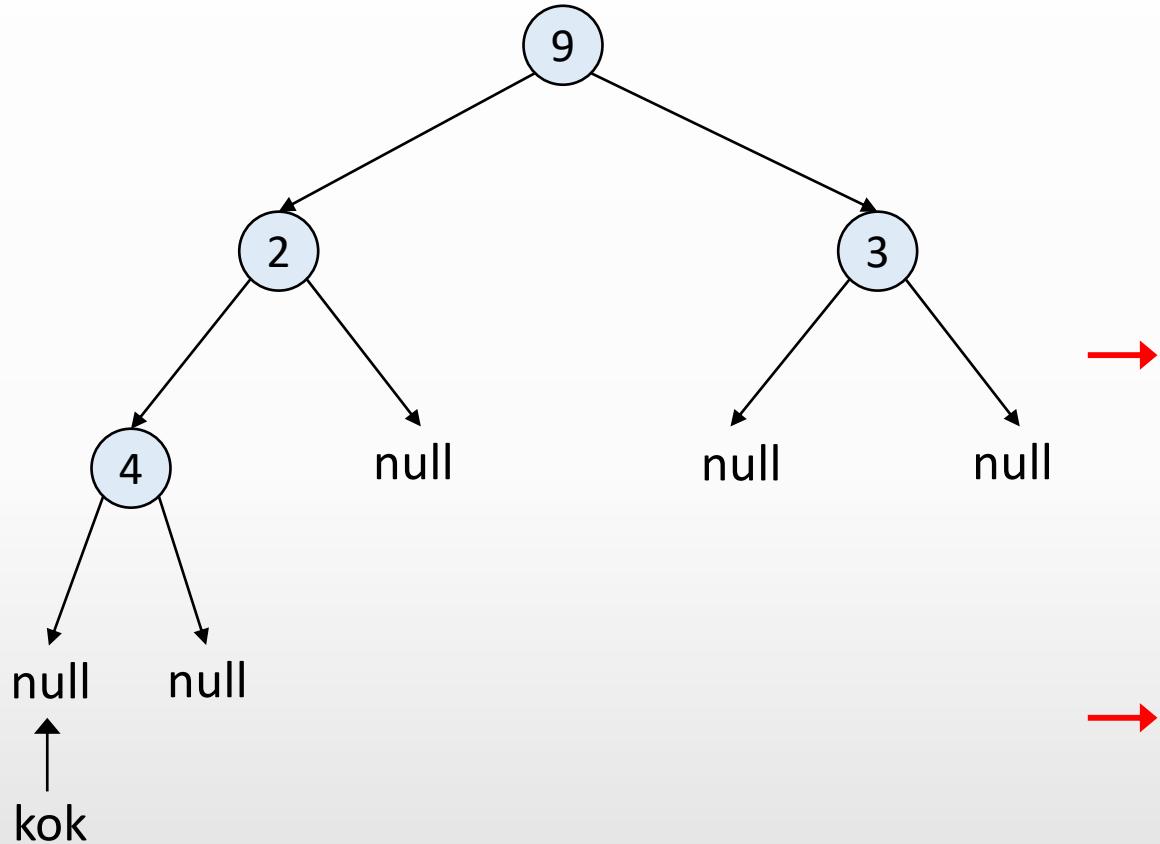
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



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



Çağırma Yığıtı (Call Stack)

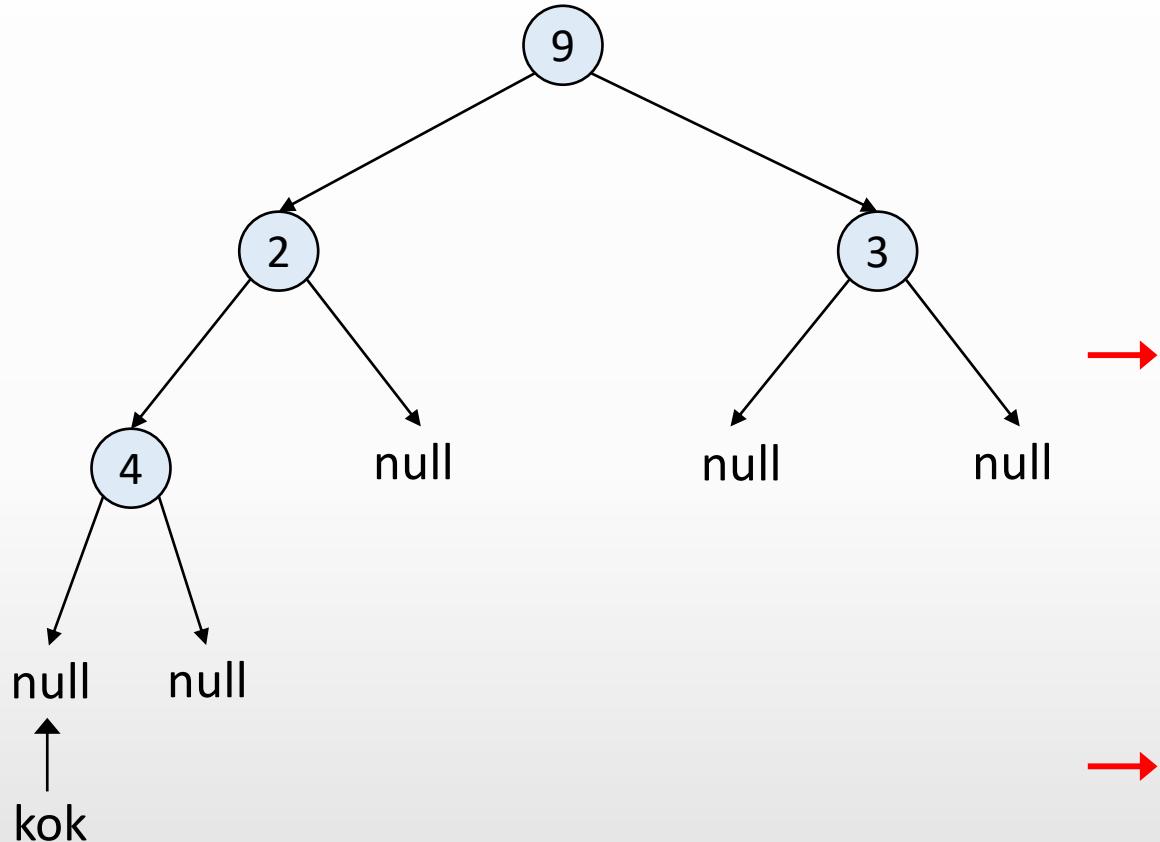


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

```
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 Yığıtı (Call Stack)

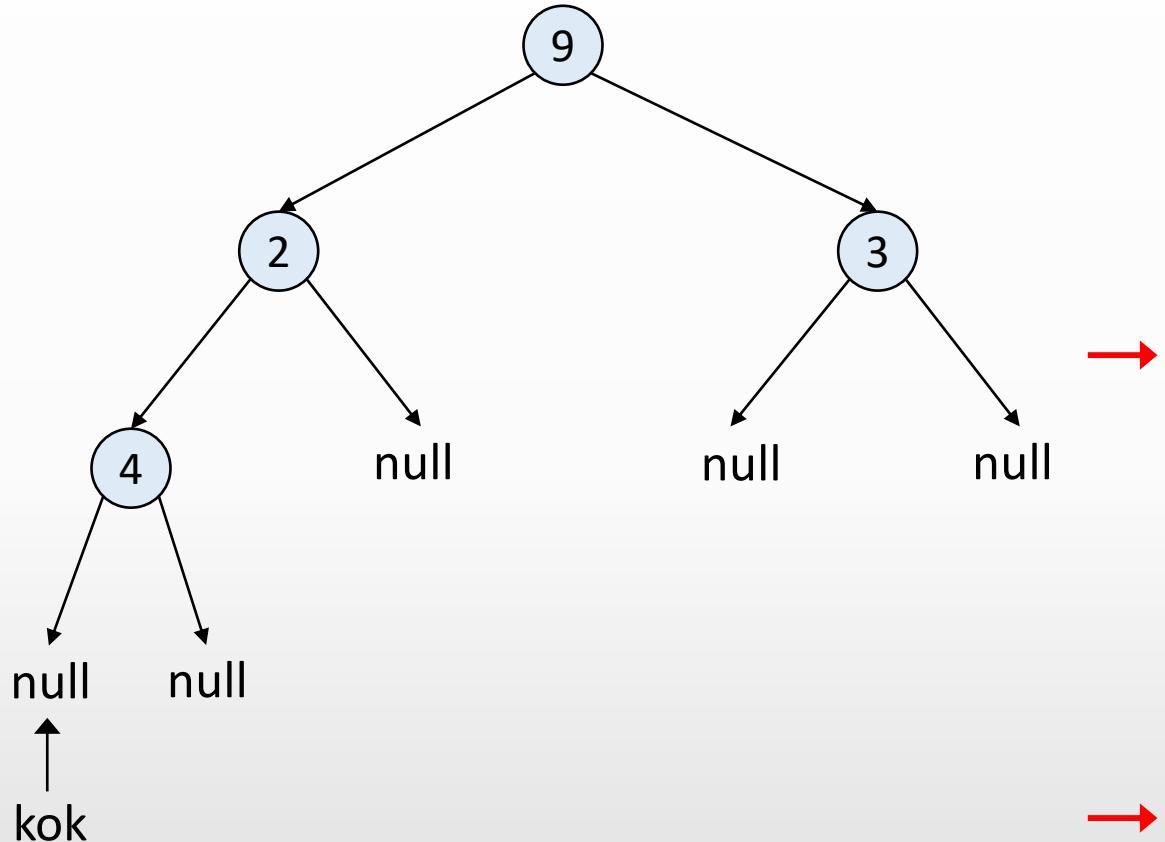


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

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



Çağırma Yığıtı (Call Stack)

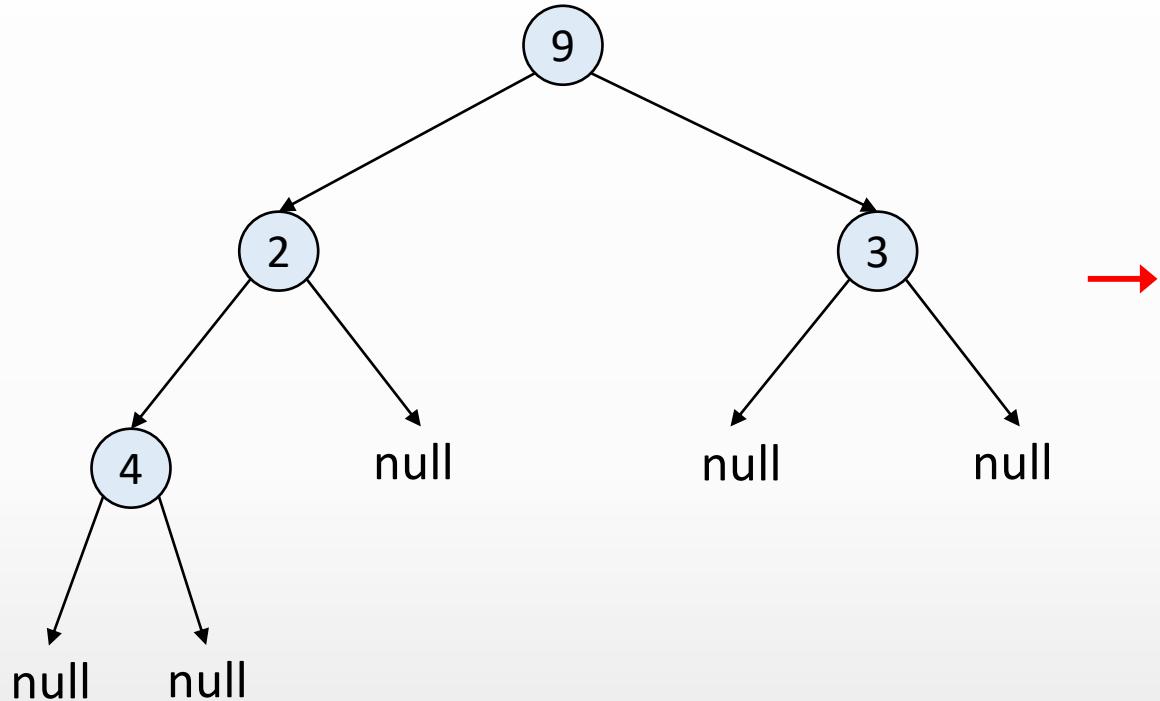


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

```
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 Yığıtı (Call Stack)



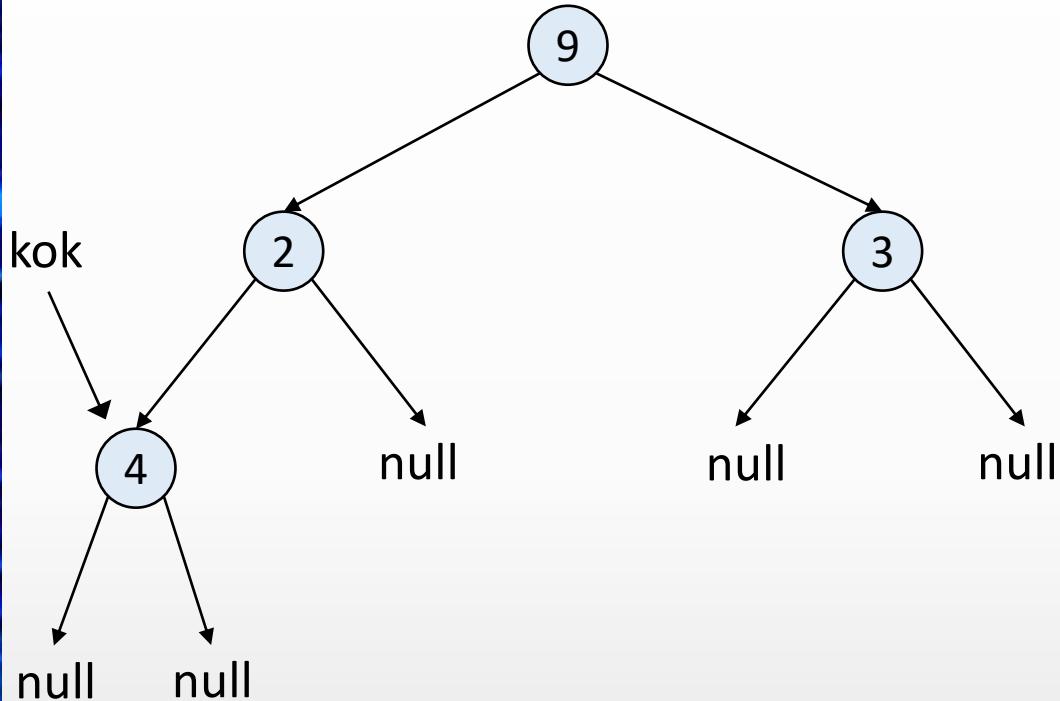
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4

Çıktı:

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



Çağırma Yığıtı (Call Stack)



Çıktı:



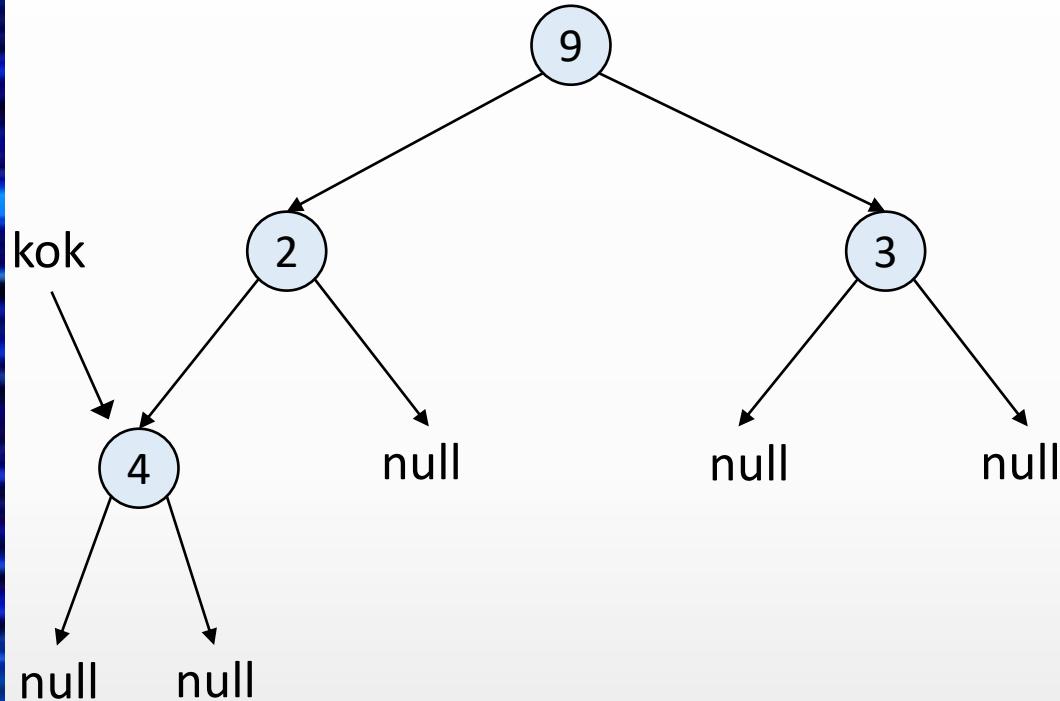
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
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6     System.out.print(kok.veri + " ");  
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8 }
```



Çağırma Yığıtı (Call Stack)



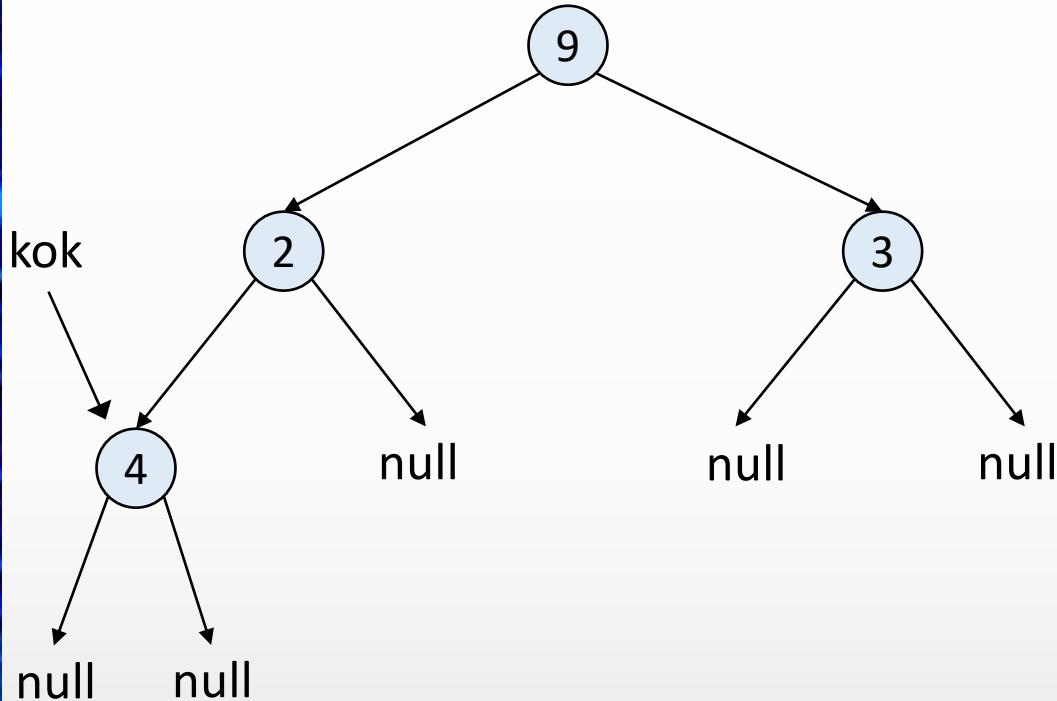
Cıktı: 4

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

```
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 Yığıtı (Call Stack)



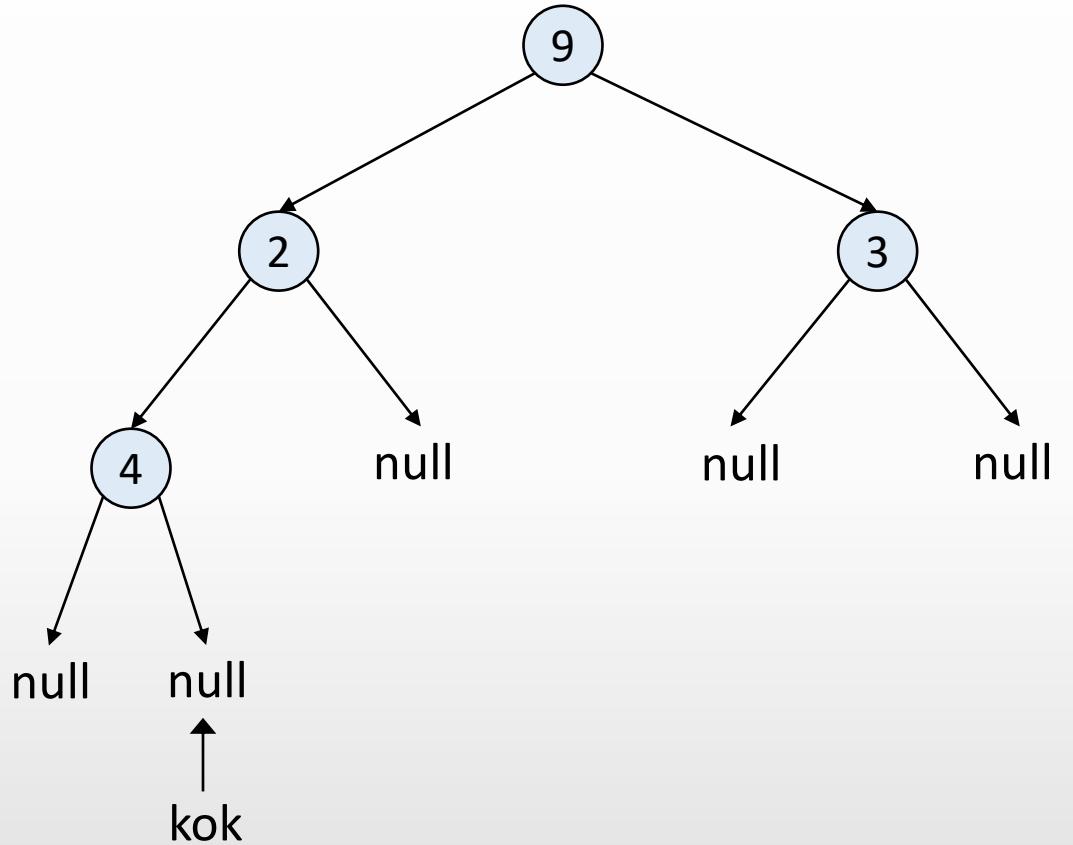
Cıktı: 4

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4

```
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 Yığıtı (Call Stack)



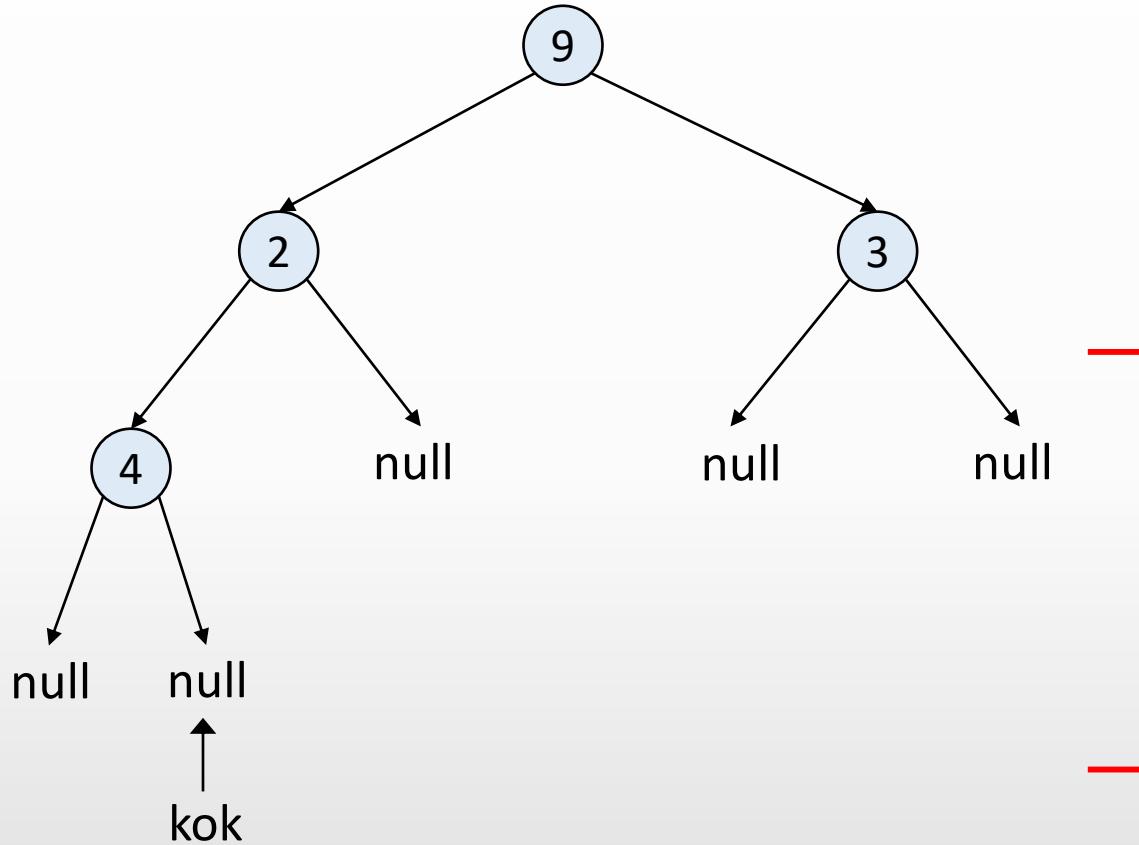
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4
kokOrtada()		null

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1 public void kokOrtada(AgacDugumu kok) {  
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5     kokOrtada(kok.sol);  
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7     kokOrtada(kok.sag);  
8 }
```

Çıktı: 4



Çağırma Yığıtı (Call Stack)



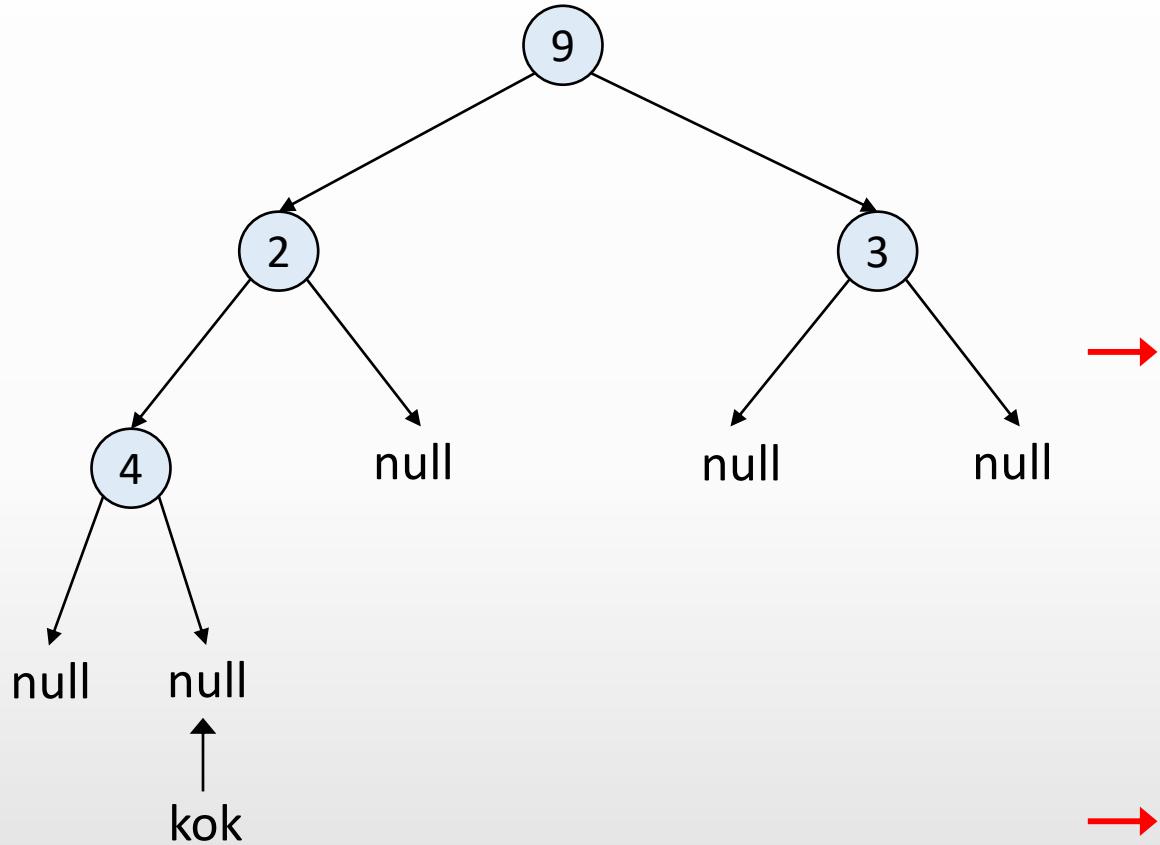
Cıktı: 4

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
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6     System.out.print(kok.veri + " ");  
7     kokOrtada(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)

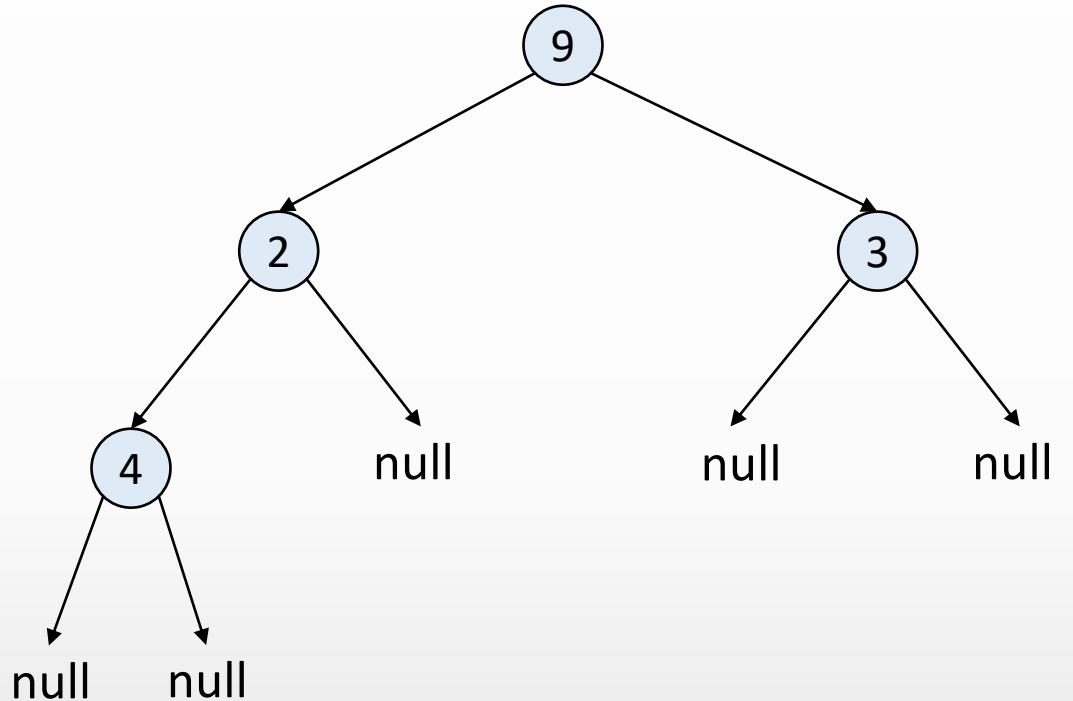


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
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7     kokOrtada(kok.sag);  
8 }
```



Çağırma Yığıtı (Call Stack)



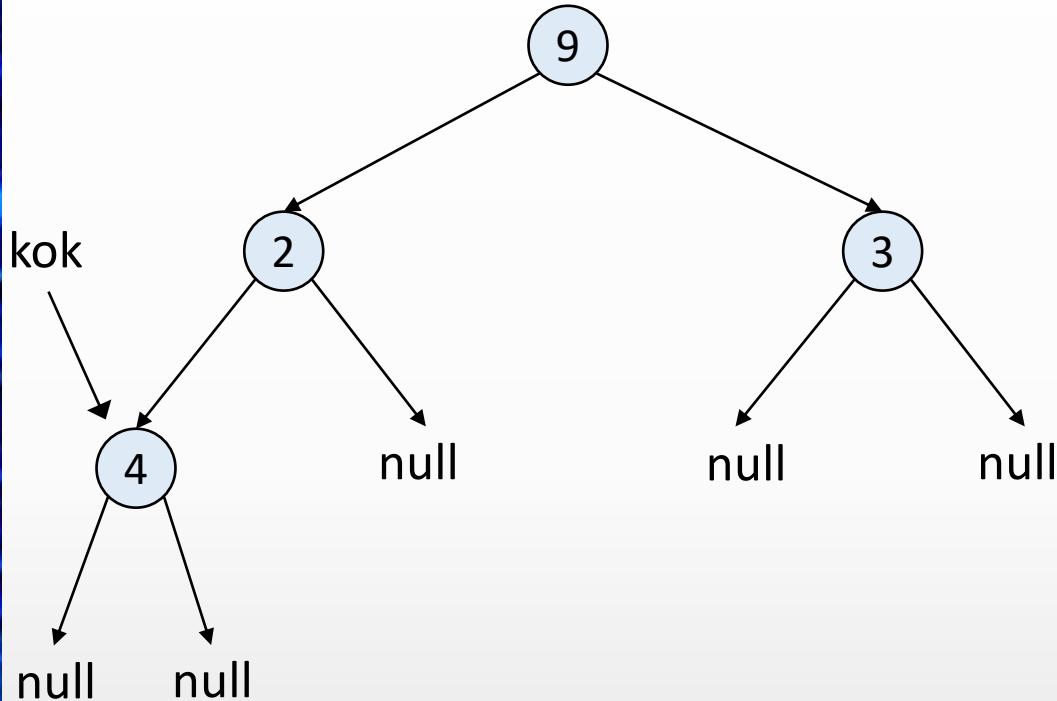
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4

Çıktı: 4

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



Çağırma Yığıtı (Call Stack)



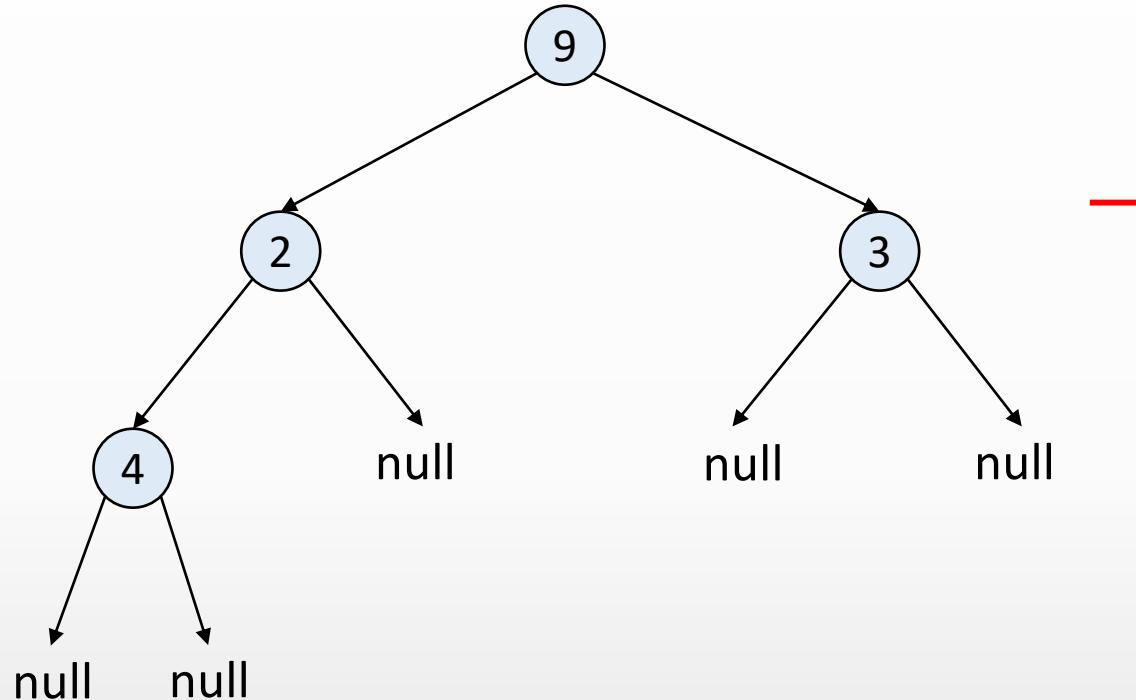
Cıktı: 4

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4

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1 public void kokOrtada(AgacDugumu kok) {  
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6     System.out.print(kok.veri + " ");  
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8 }
```



Çağırma Yığıtı (Call Stack)



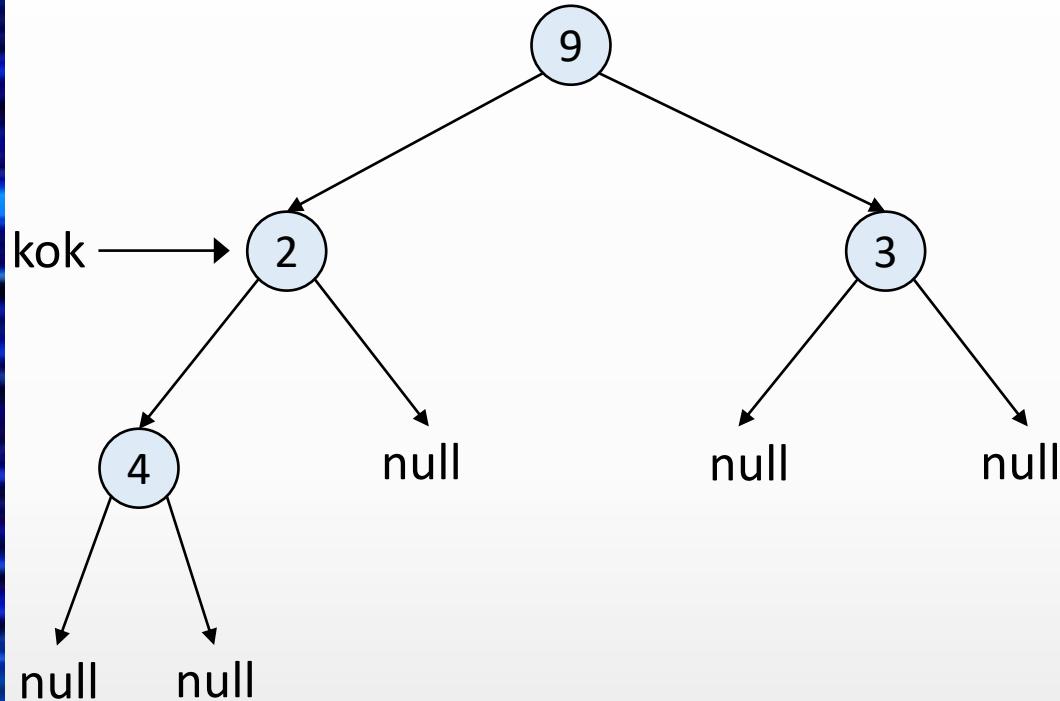
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2

Cıktı: 4

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Çağırma Yığıtı (Call Stack)

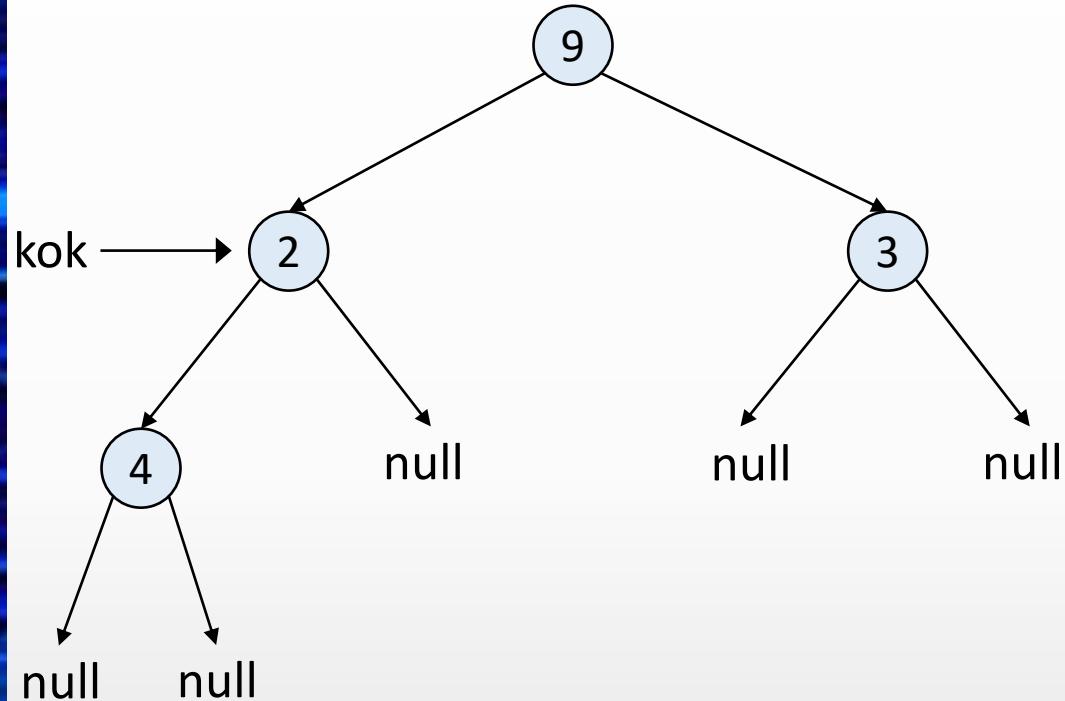


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2

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



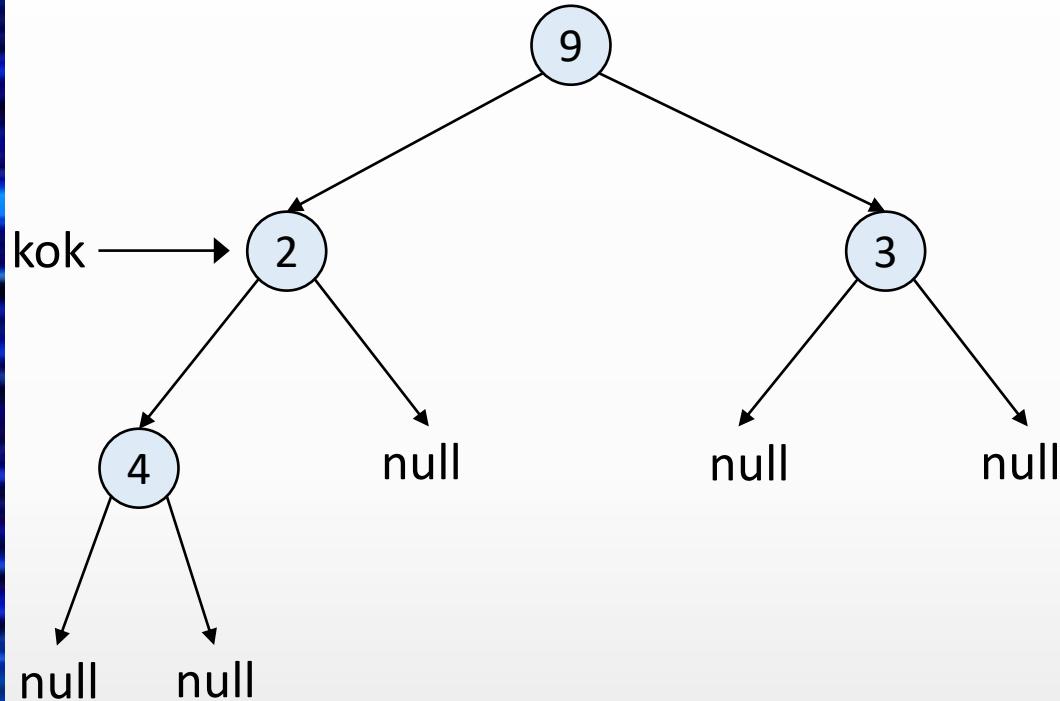
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2

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



Çağırma Yığıtı (Call Stack)



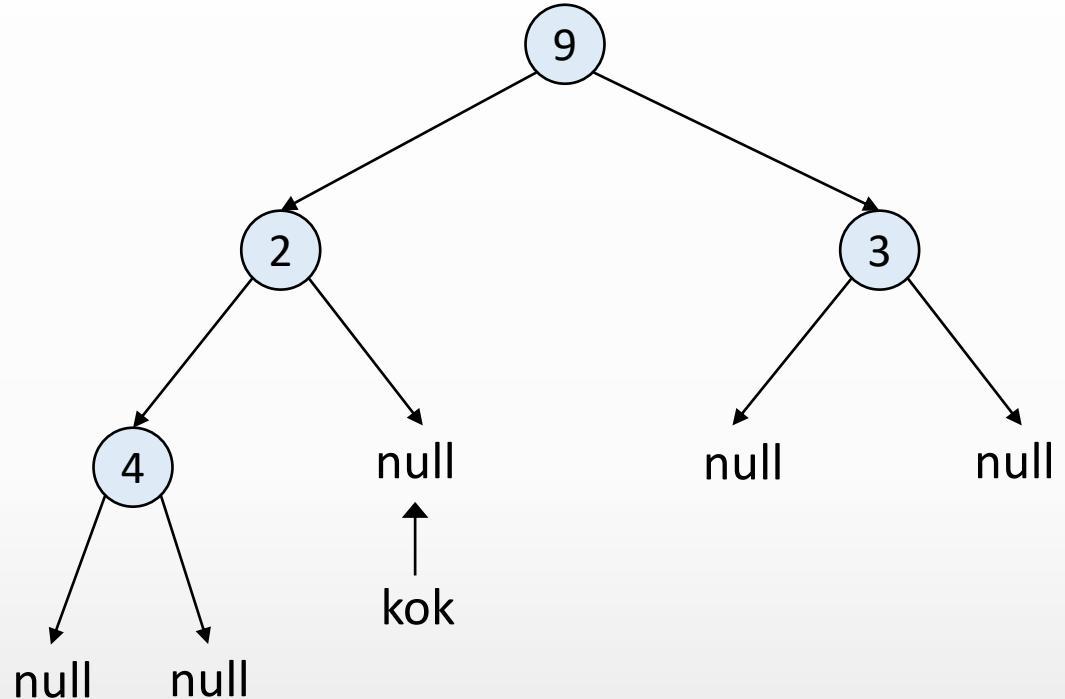
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2

```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
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8 }
```



Çağırma Yığıtı (Call Stack)



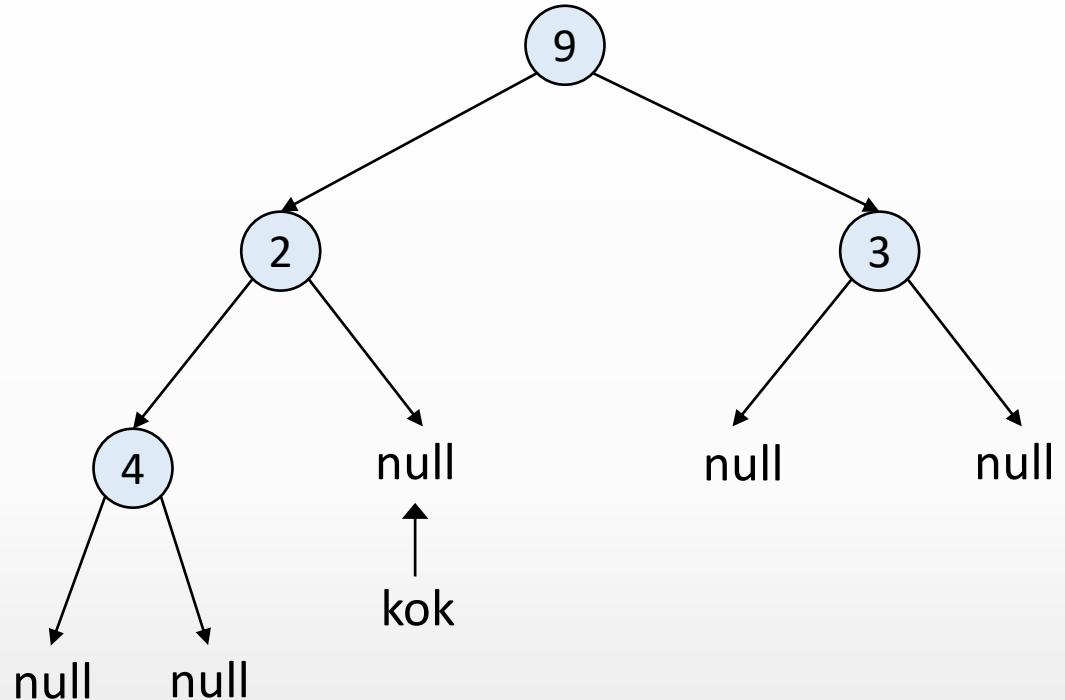
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2
kokOrtada()		null

```
→ 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 Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2
kokOrtada()		null

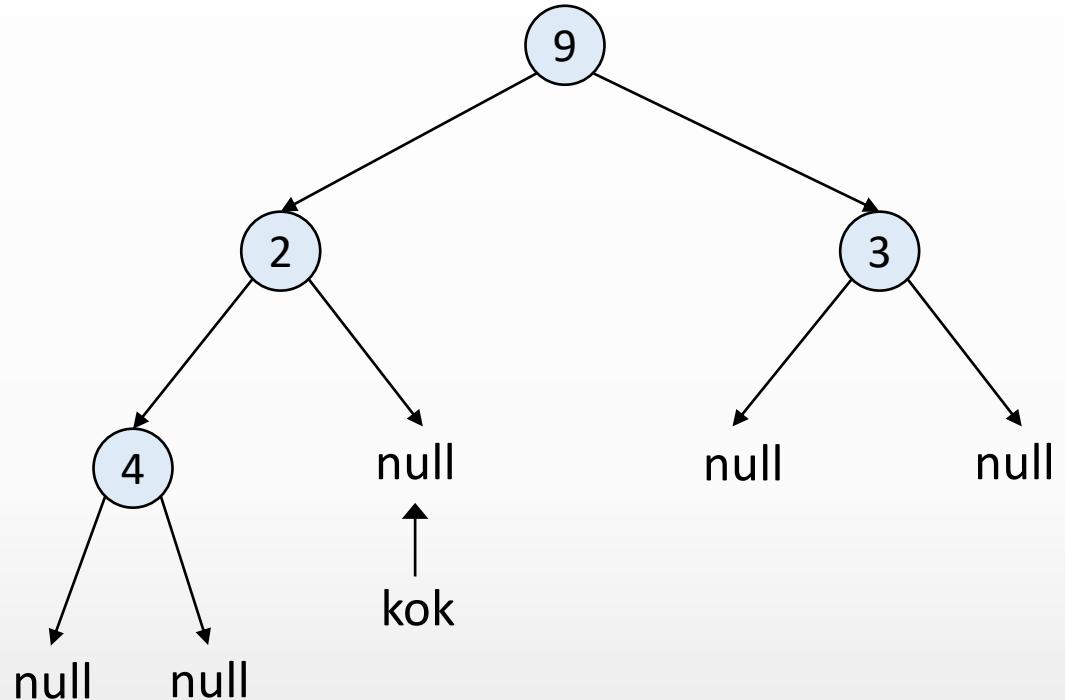


```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
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8 }
```

Cıktı: 4 2



Çağırma Yığıtı (Call Stack)



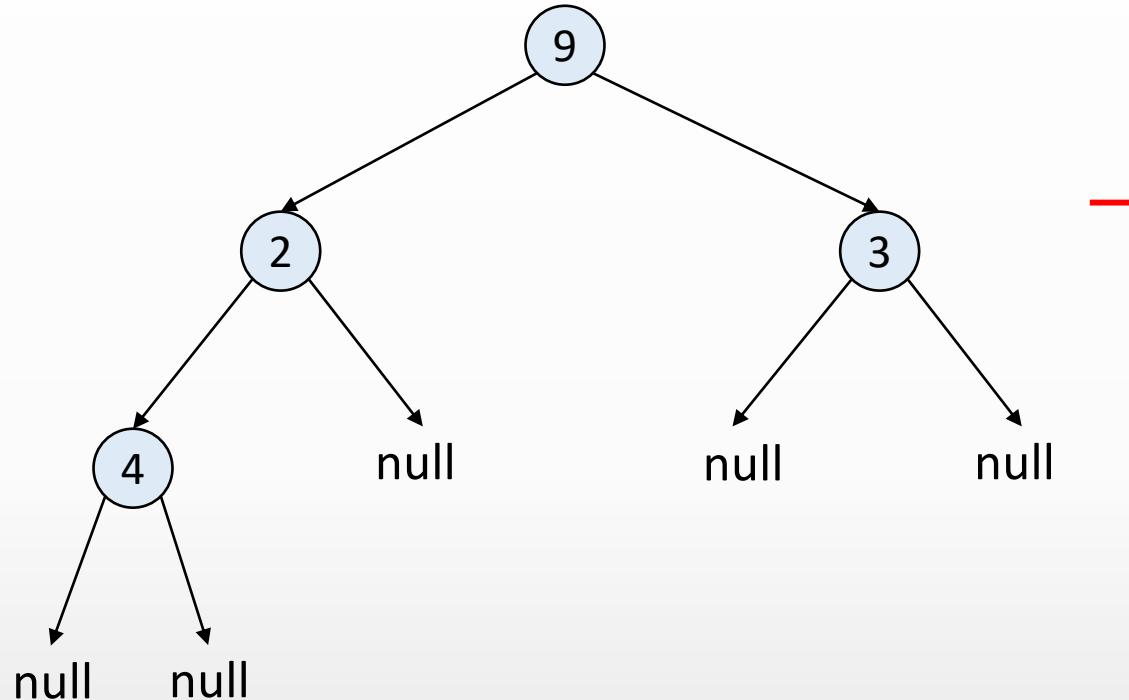
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2
kokOrtada()		null

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8 }
```



Çağırma Yığıtı (Call Stack)



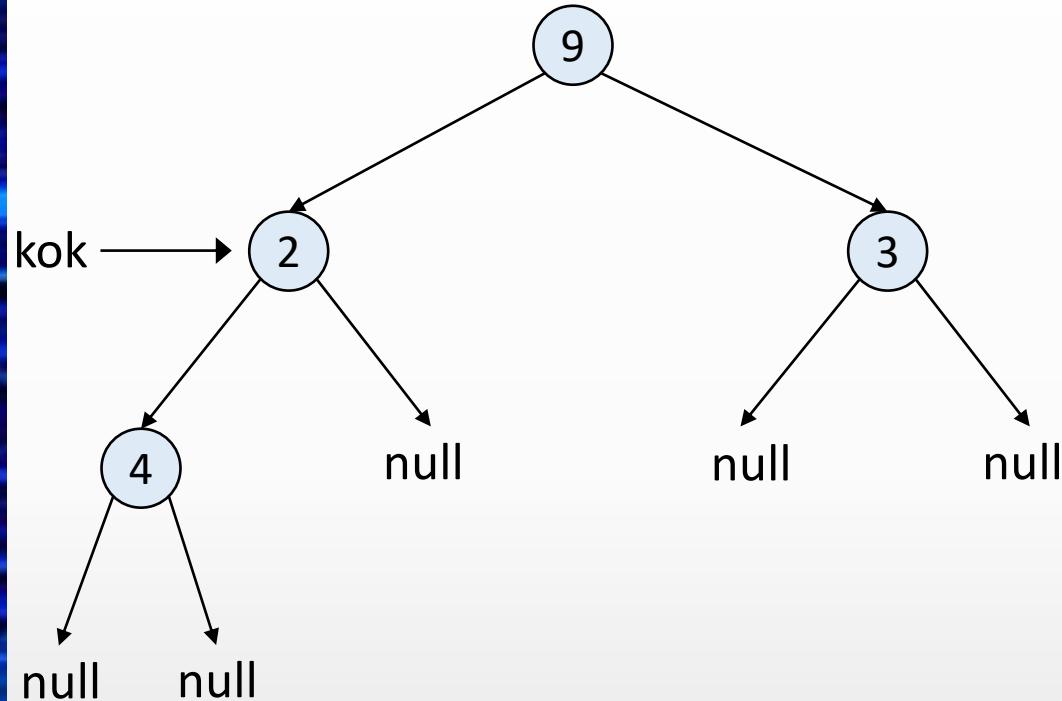
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2

Cıktı: 4 2

```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
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6     System.out.print(kok.veri + " ");  
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8 }
```



Çağırma Yığıtı (Call Stack)



Cıktı: 4 2



Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2

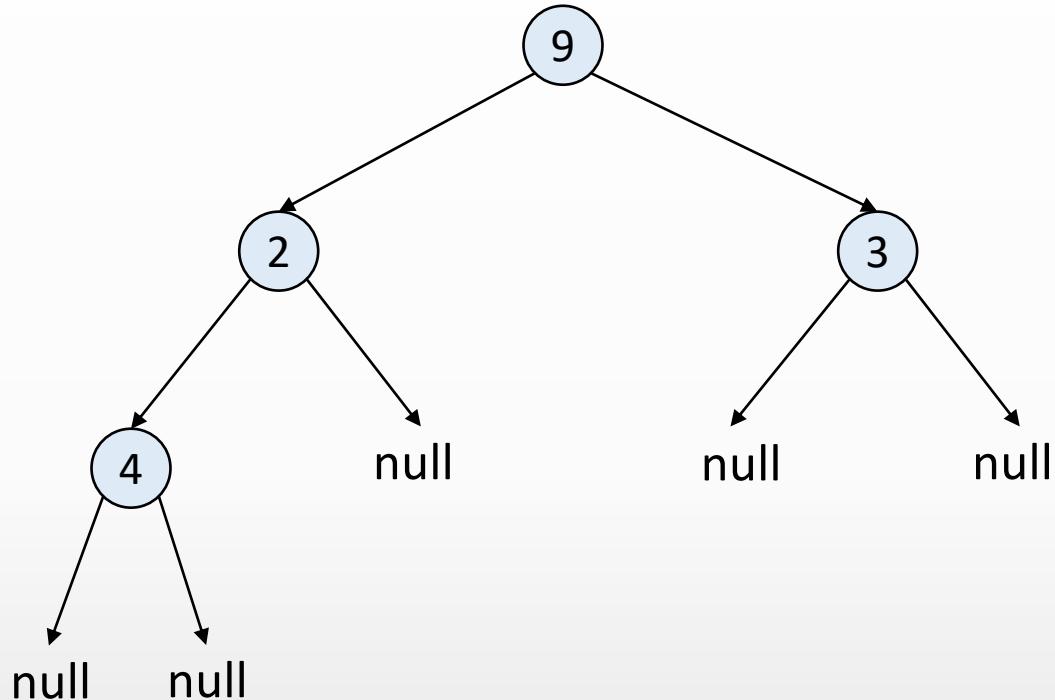


```
1 public void kokOrtada(AgacDugumu kok) {  
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3         return;  
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5     kokOrtada(kok.sol);  
6     System.out.print(kok.veri + " ");  
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```



Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

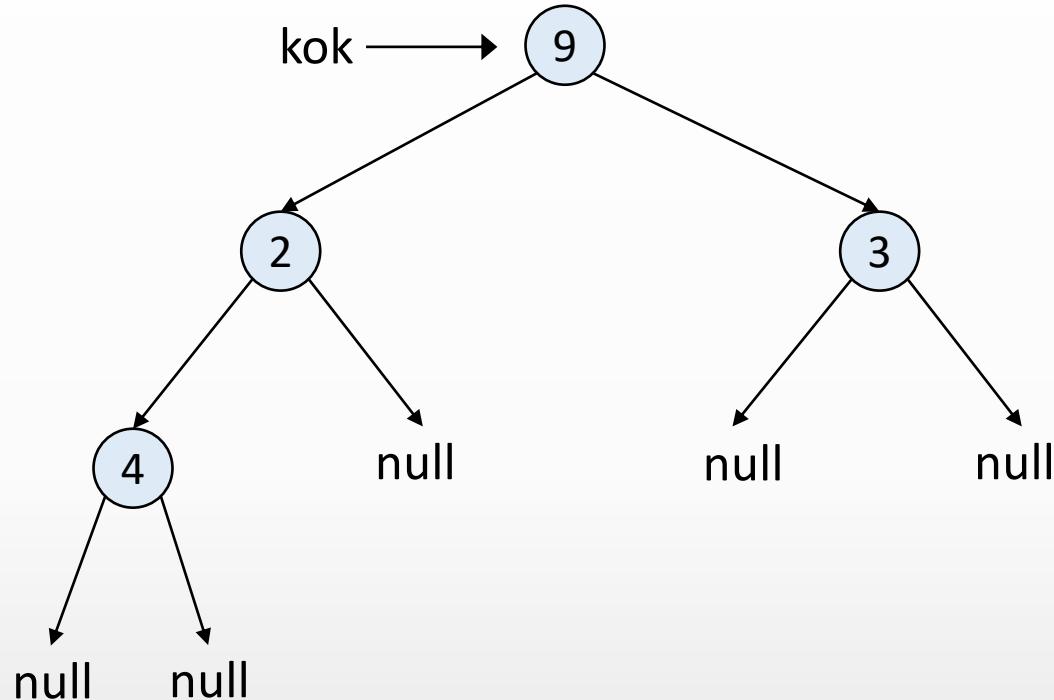


Cıktı: 4 2

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



Çağırma Yığıtı (Call Stack)

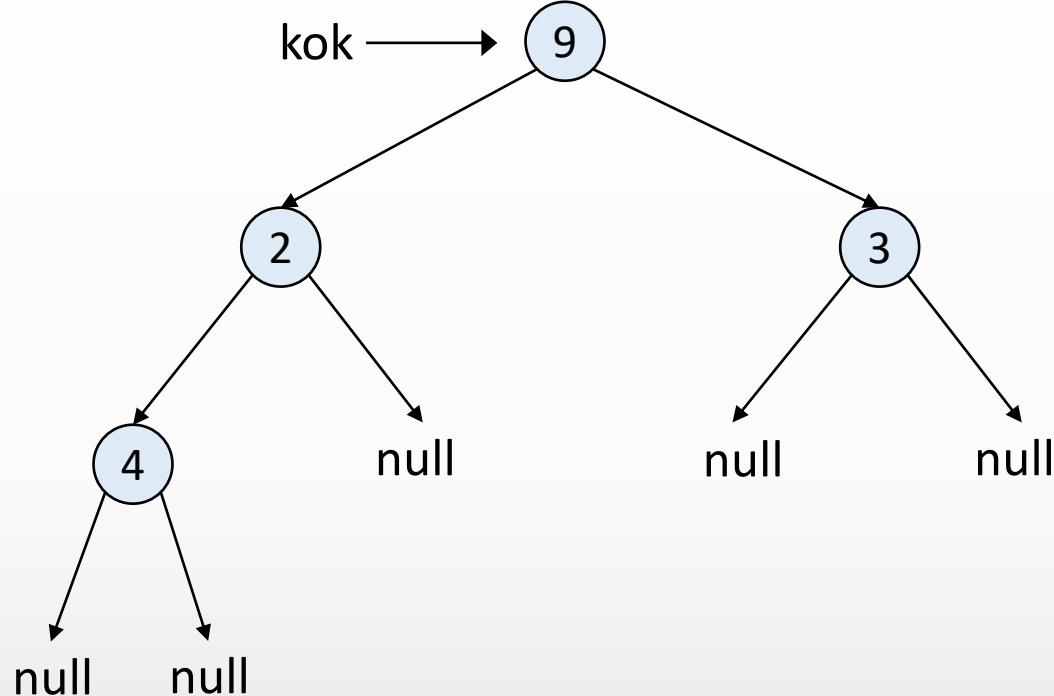


Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	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);  
8 }
```



Cıktı: 4 2 9

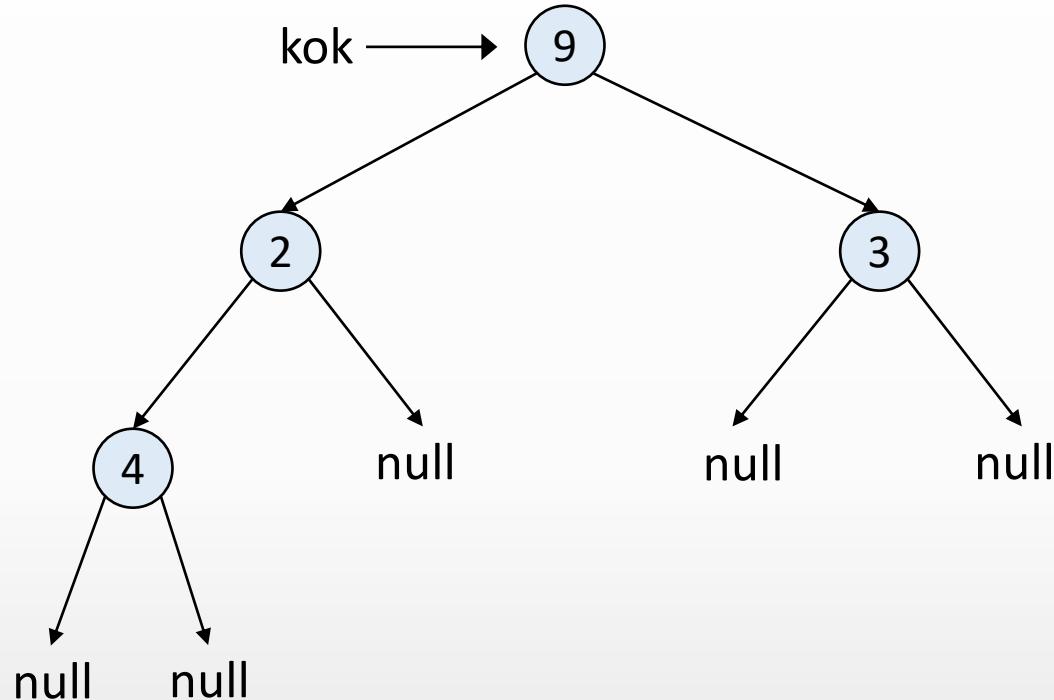
Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	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);  
8 }
```



Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9

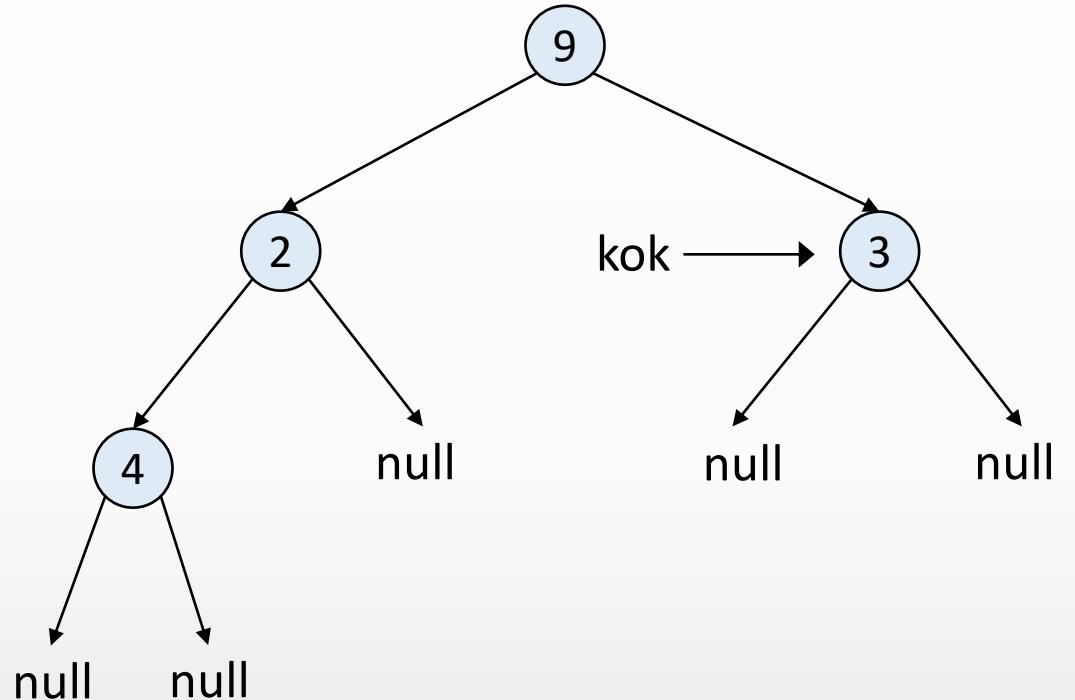
Cıktı: 4 2 9



```
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);  
8 }
```



Çağırma Yığıtı (Call Stack)



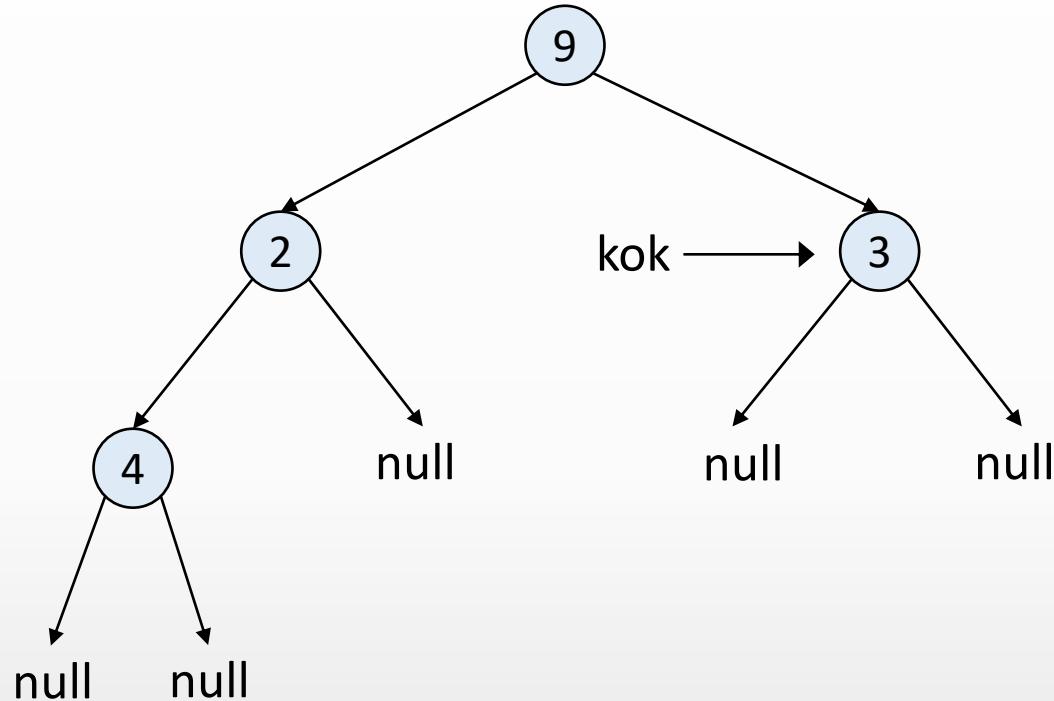
Cıktı: 4 2 9

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

```
→ 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 Yığıtı (Call Stack)



Cıktı: 4 2 9



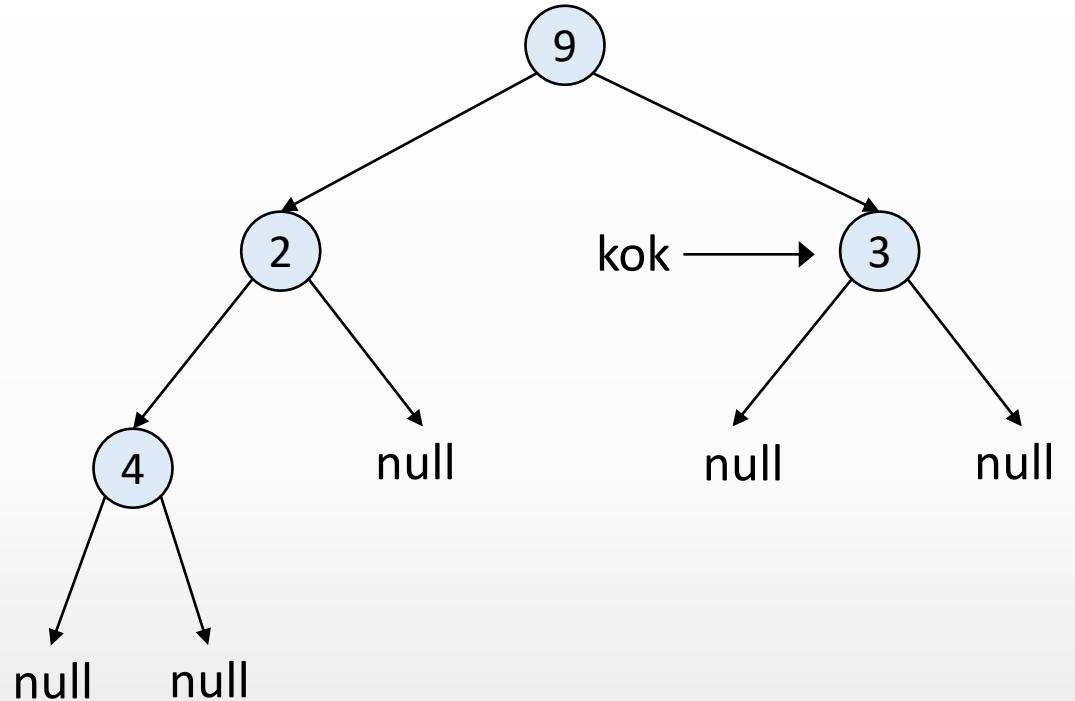
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()		3



```
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 Yığıtı (Call Stack)



Cıktı: 4 2 9



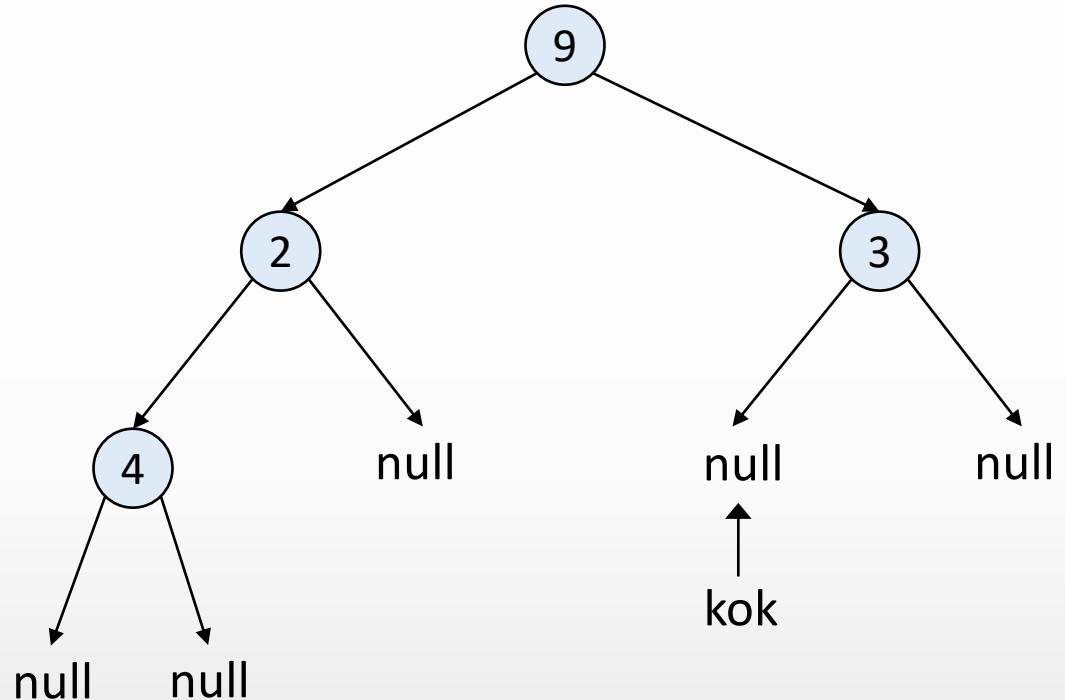
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3



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



Cıktı: 4 2 9

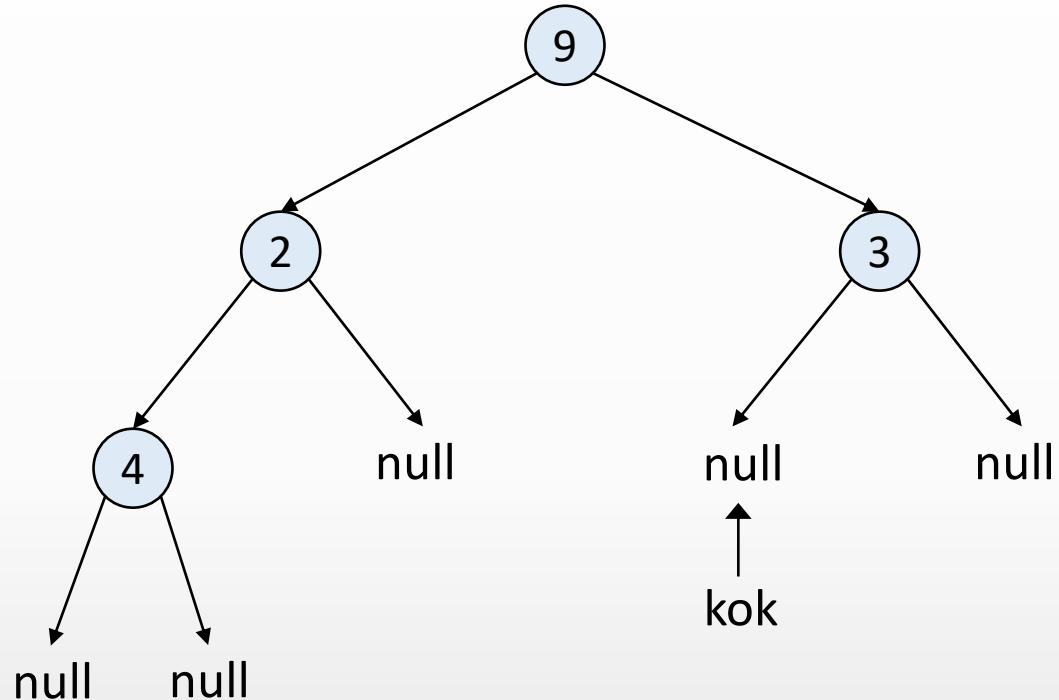
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
kokOrtada()		null

→

```
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8 }
```



Çağırma Yığıtı (Call Stack)



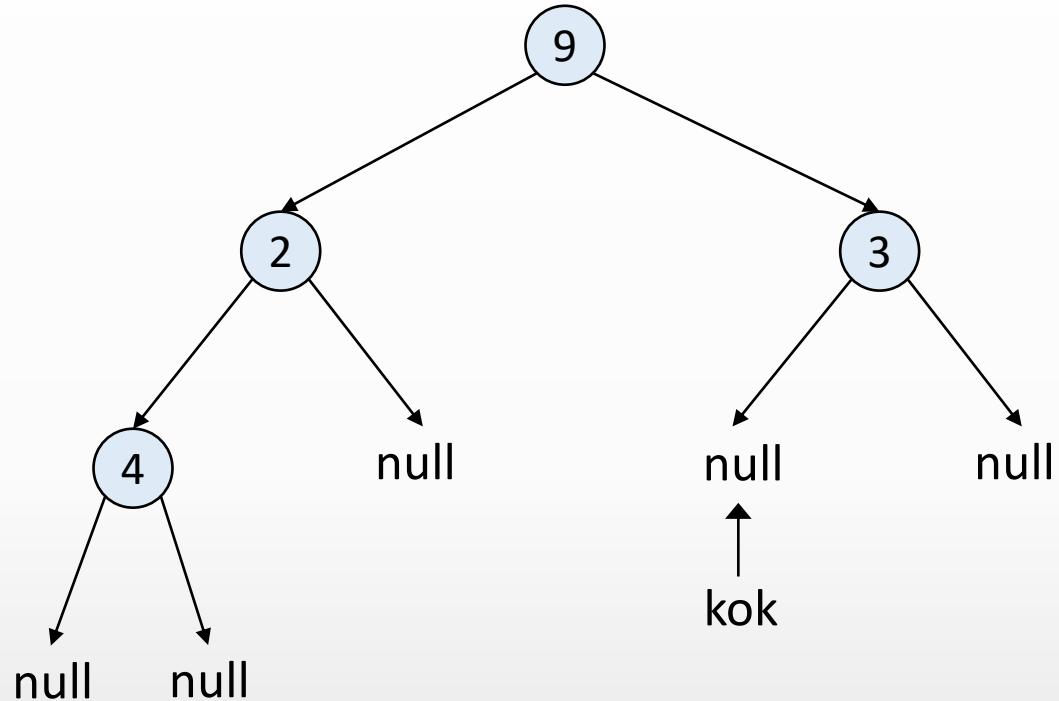
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
kokOrtada()		null

Cıktı: 4 2 9

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



Çağırma Yığıtı (Call Stack)



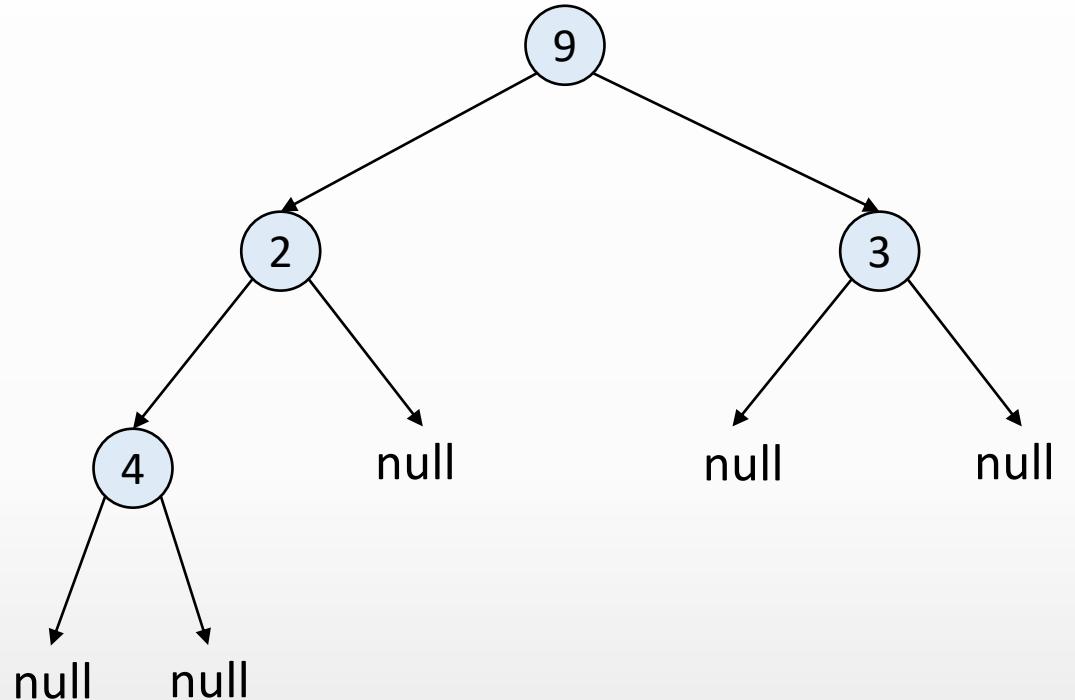
Cıktı: 4 2 9

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
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1 public void kokOrtada(AgacDugumu kok) {  
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5     kokOrtada(kok.sol);  
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8 }
```



Çağırma Yığıtı (Call Stack)



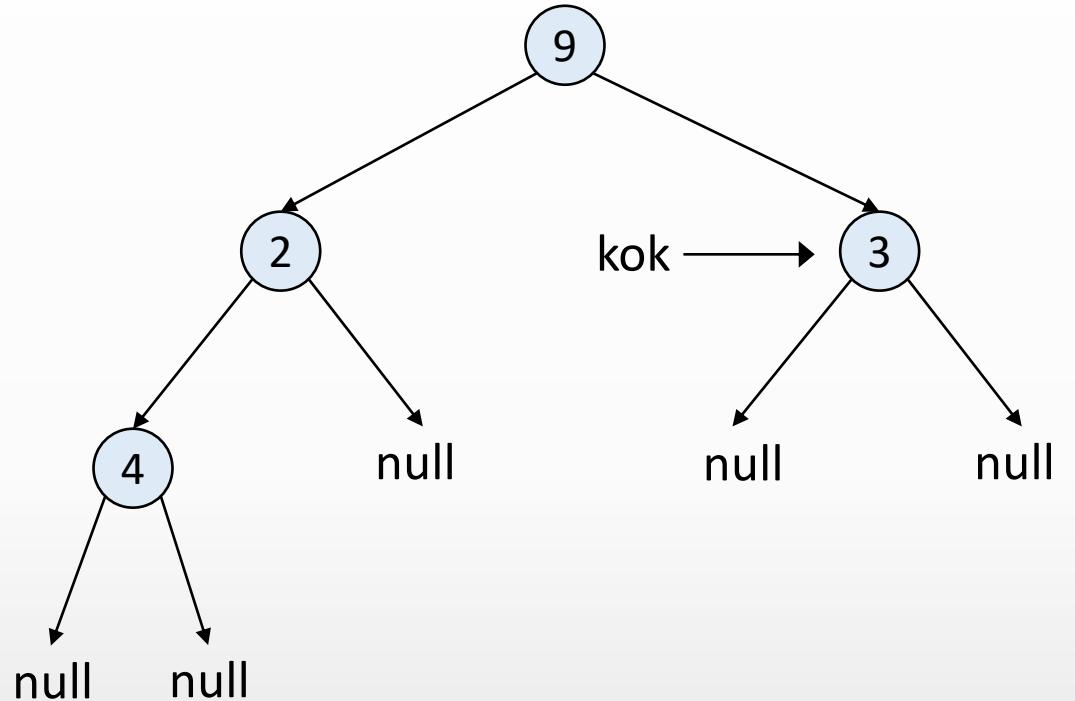
Metot Çağrımı	Satır Numarası	Kök
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Cıktı: 4 2 9

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6     System.out.print(kok.veri + " ");  
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```



Çağırma Yığıtı (Call Stack)

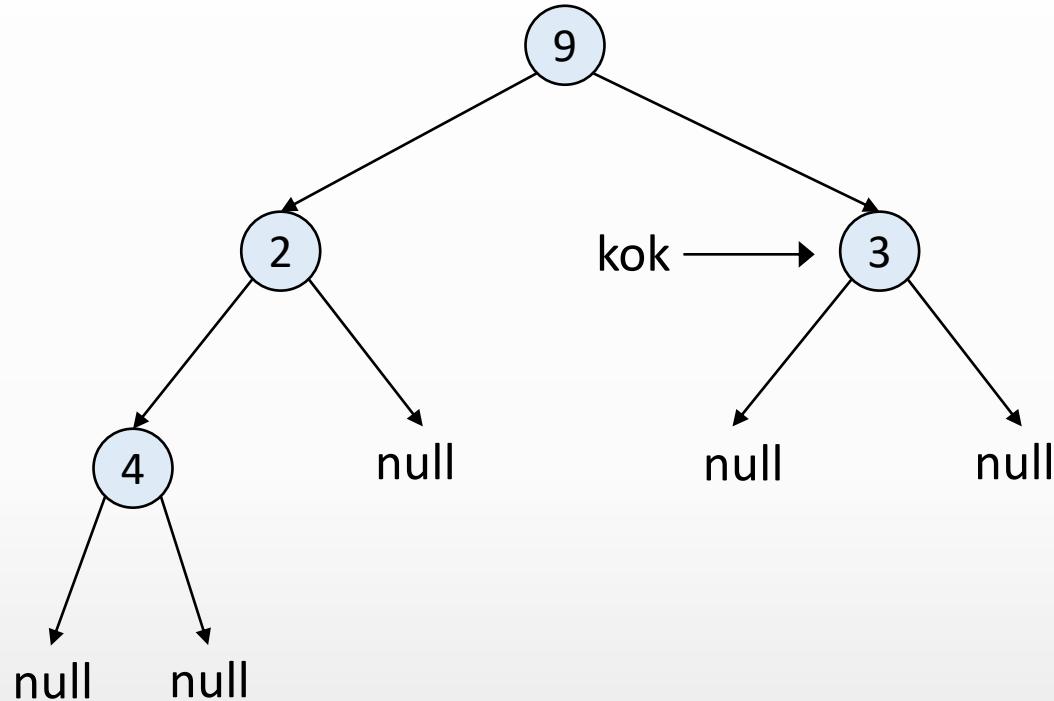


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3

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



Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3



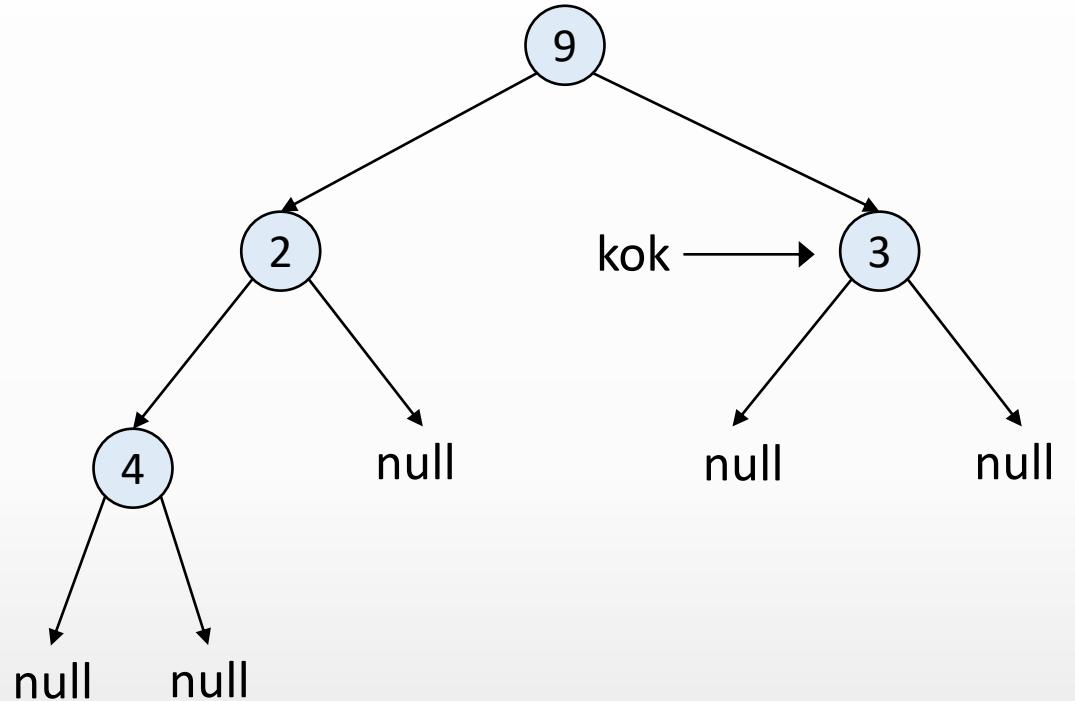
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Çağırma Yığıtı (Call Stack)



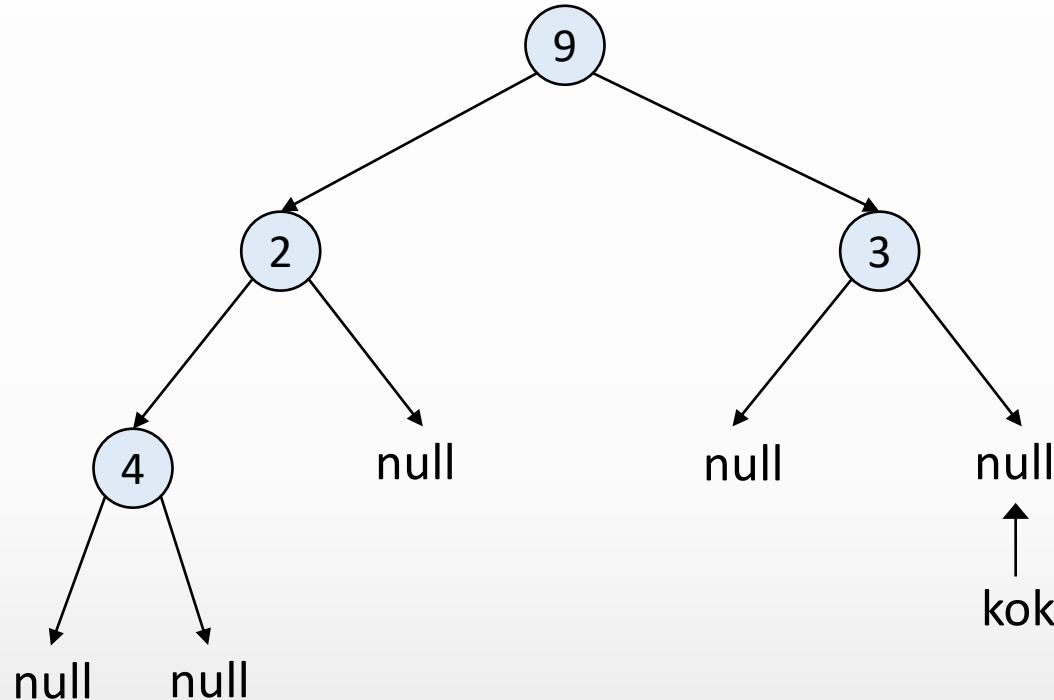
Cıktı: 4 2 9 3

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
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```
1 public void kokOrtada(AgacDugumu kok) {  
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Çağırma Yığıtı (Call Stack)



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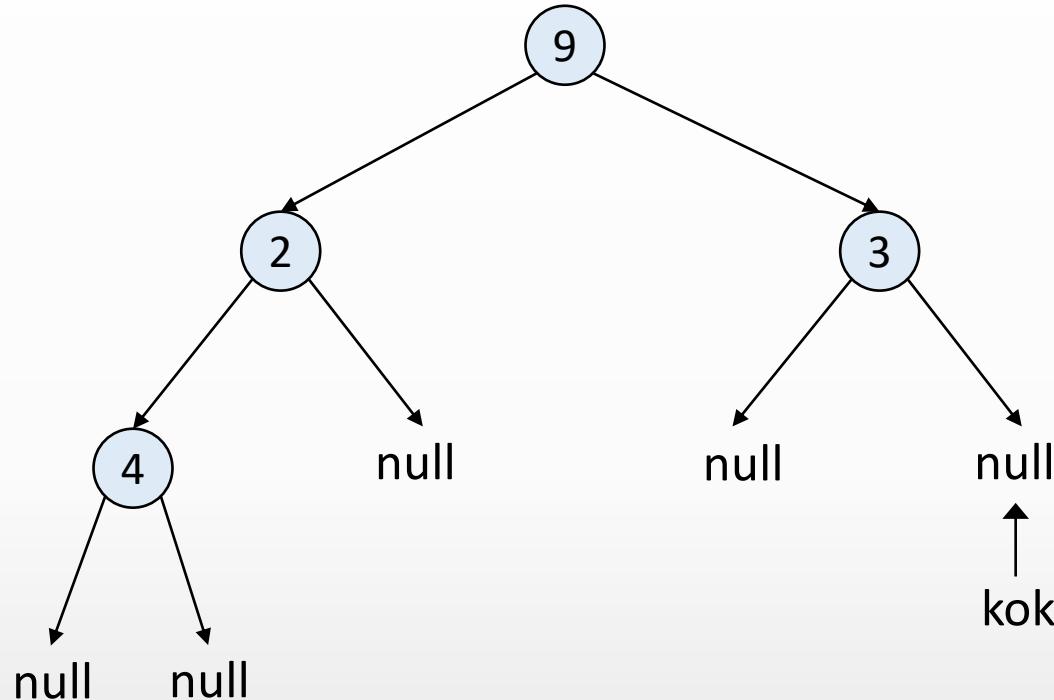


```
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Çağırma Yığıtı (Call Stack)



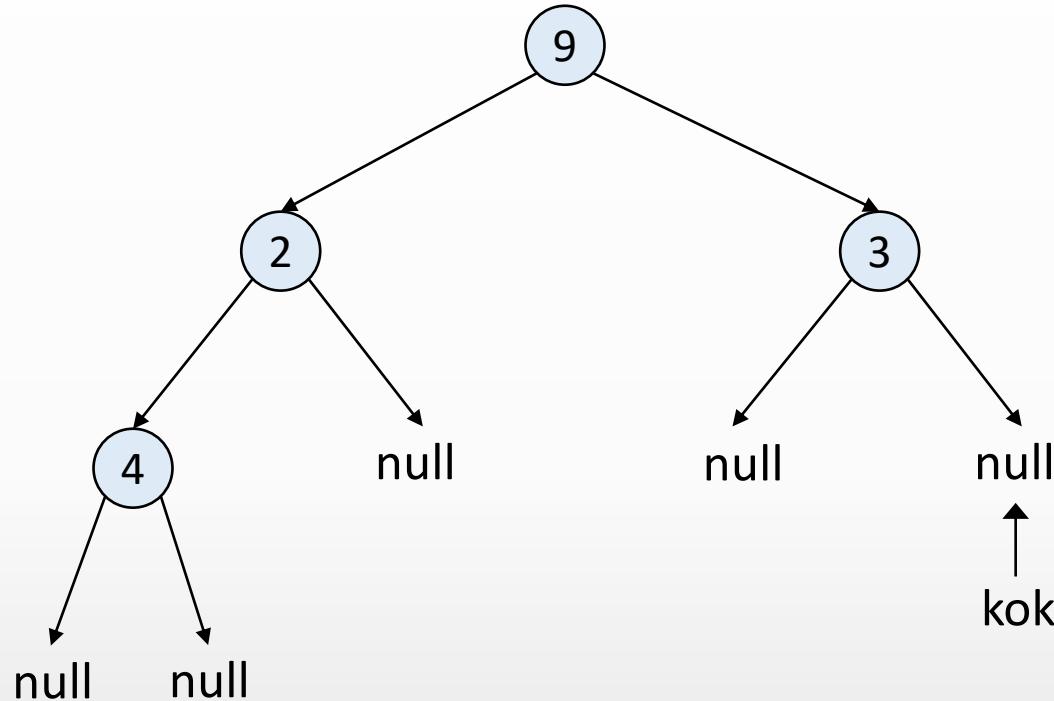
Cıktı: 4 2 9 3

Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



Çıktı: 4 2 9 3



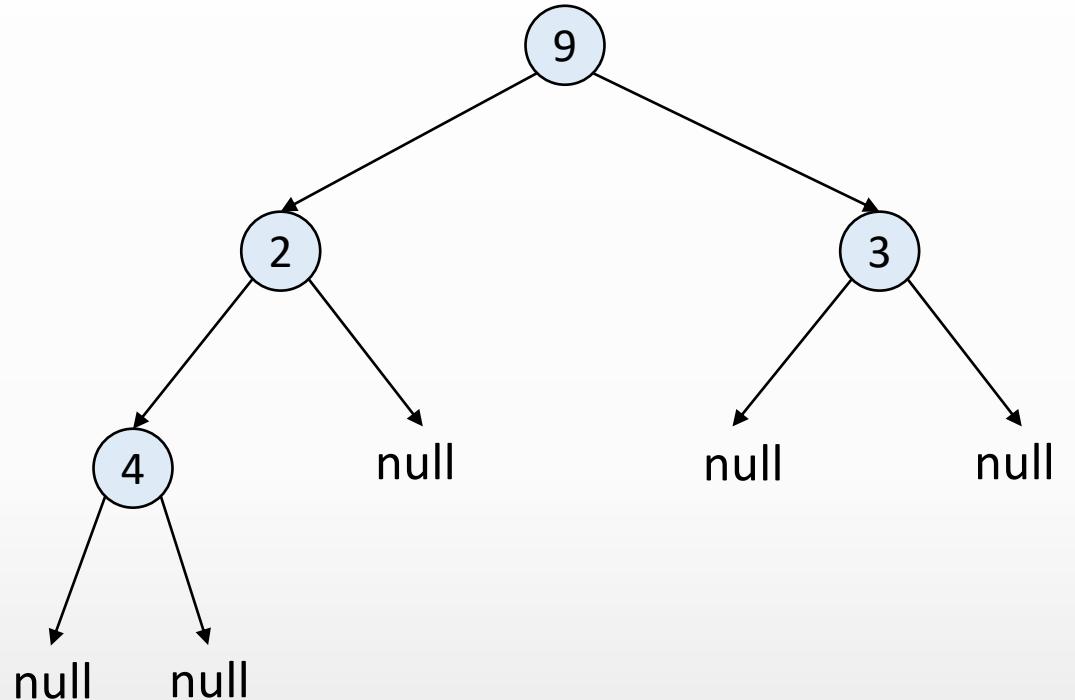
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Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

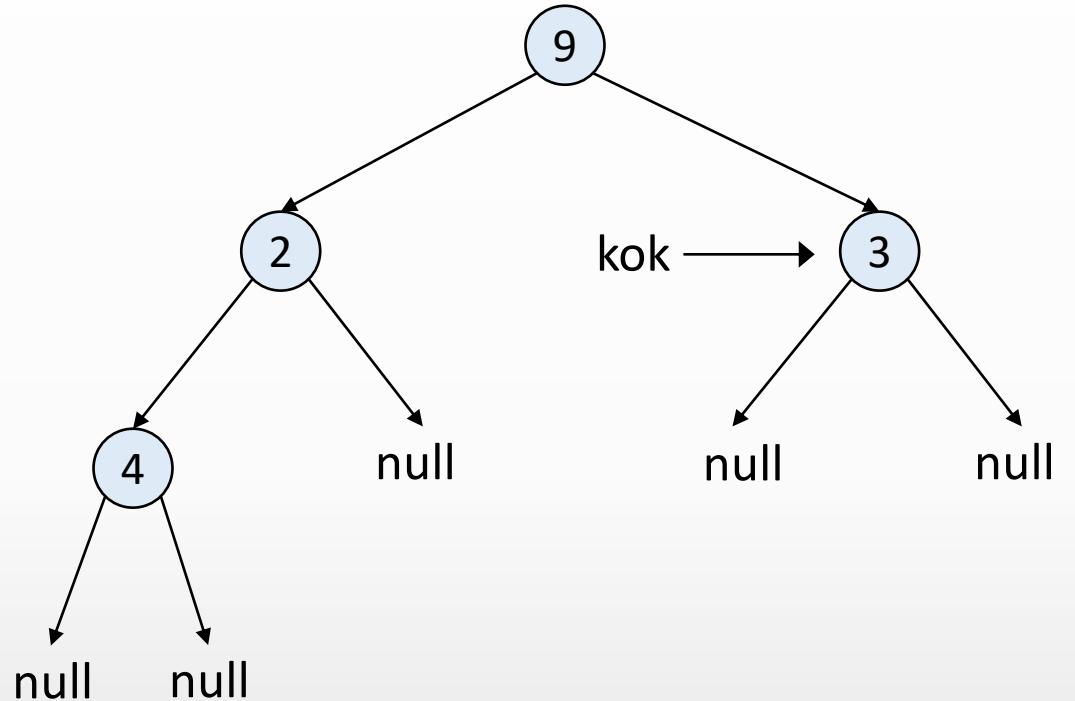


Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

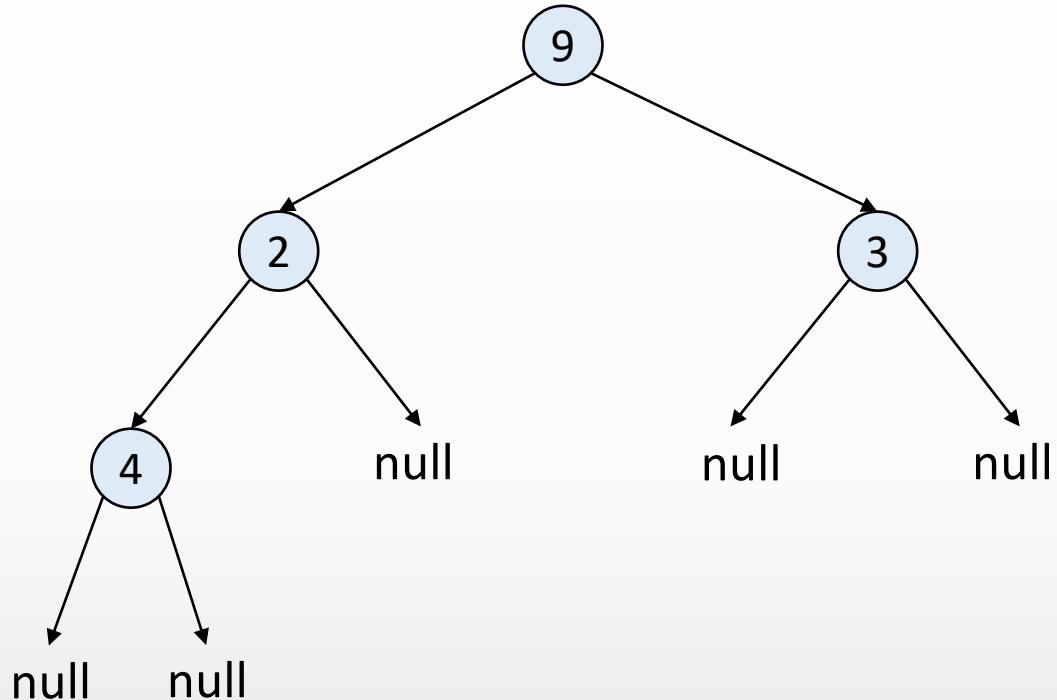
Metot Çağrımı	Satır Numarası	Kök
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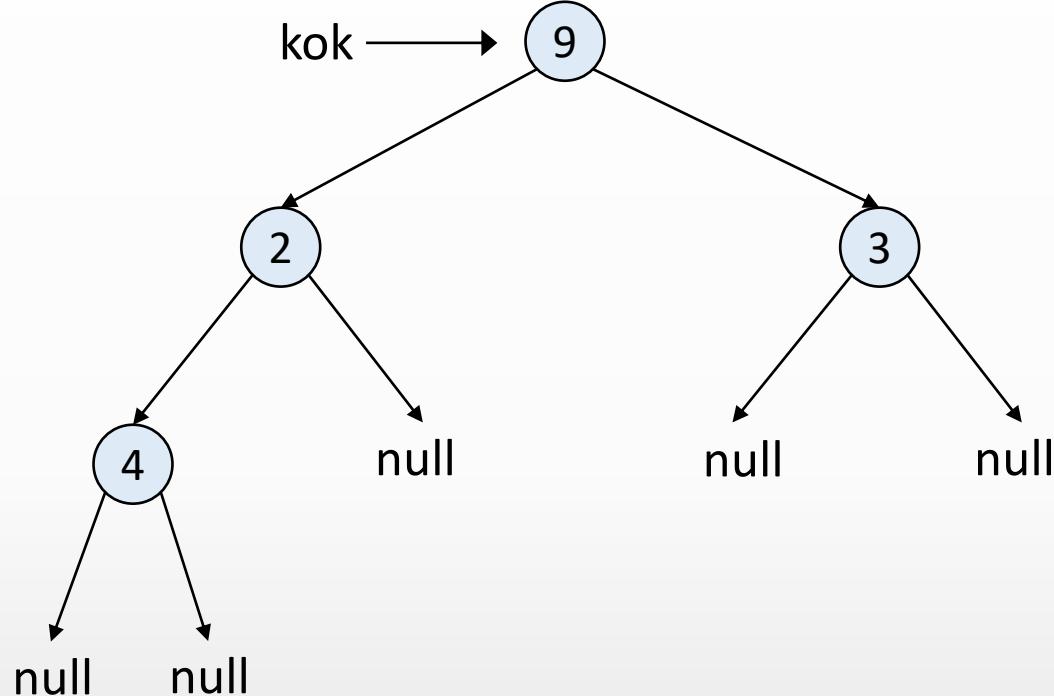
Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9



Cıktı: 4 2 9 3

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8 }
```



Cıktı: 4 2 9 3

Çağırma Yığıtı (Call Stack)

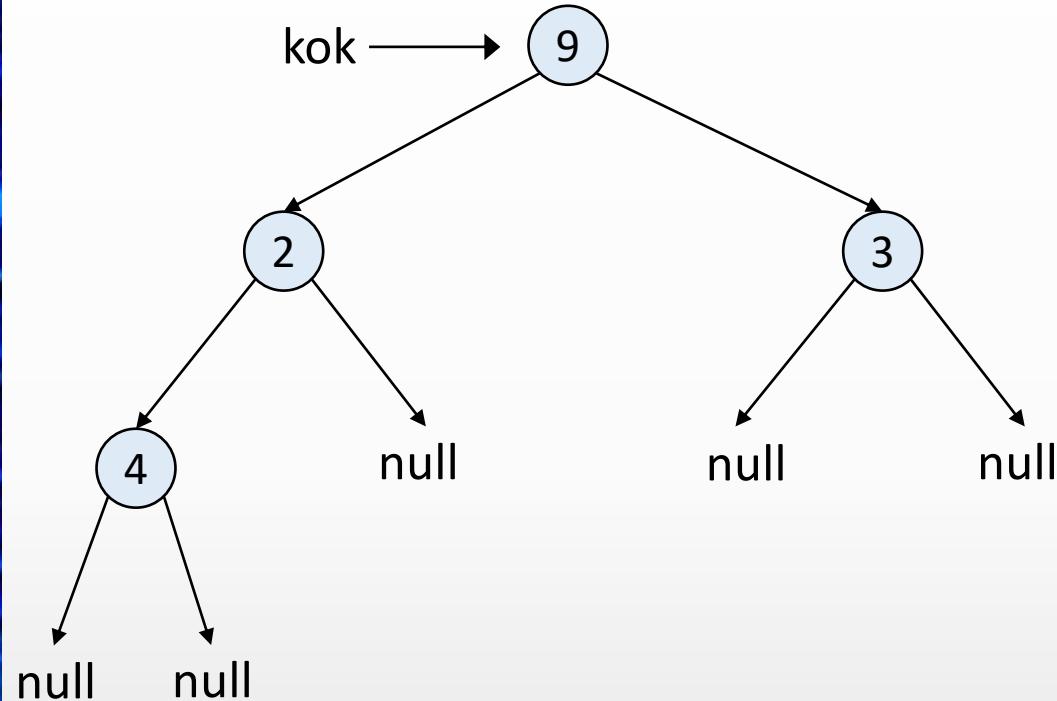
Metot Çağrımı	Satır Numarası	Kök
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→

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8 }
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Çağırma Yığıtı (Call Stack)



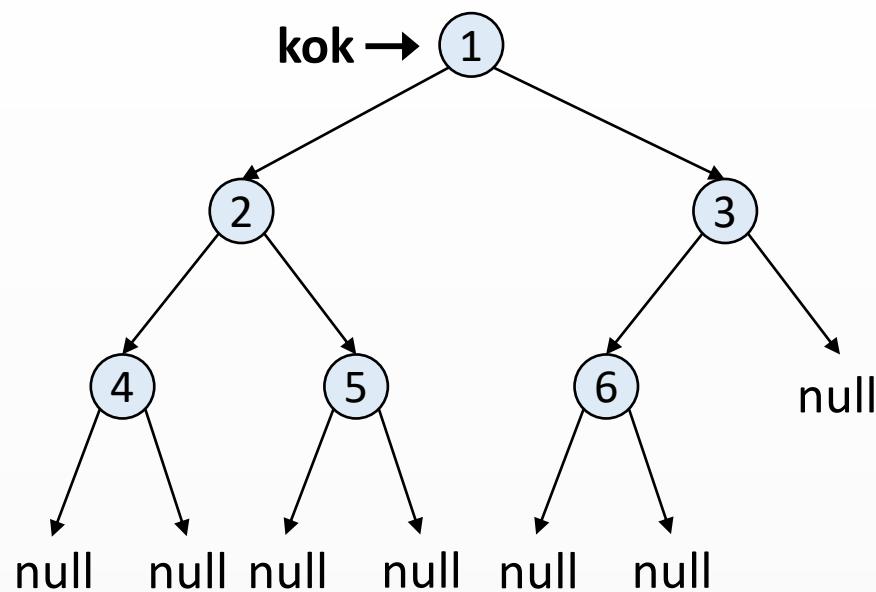
Cıktı: 4 2 9 3

Metot Çağrımı	Satır Numarası	Kök

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

Yığın ile Kök Ortada (Inorder) Dolasımı





Çıktı:

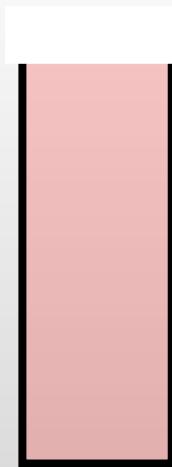
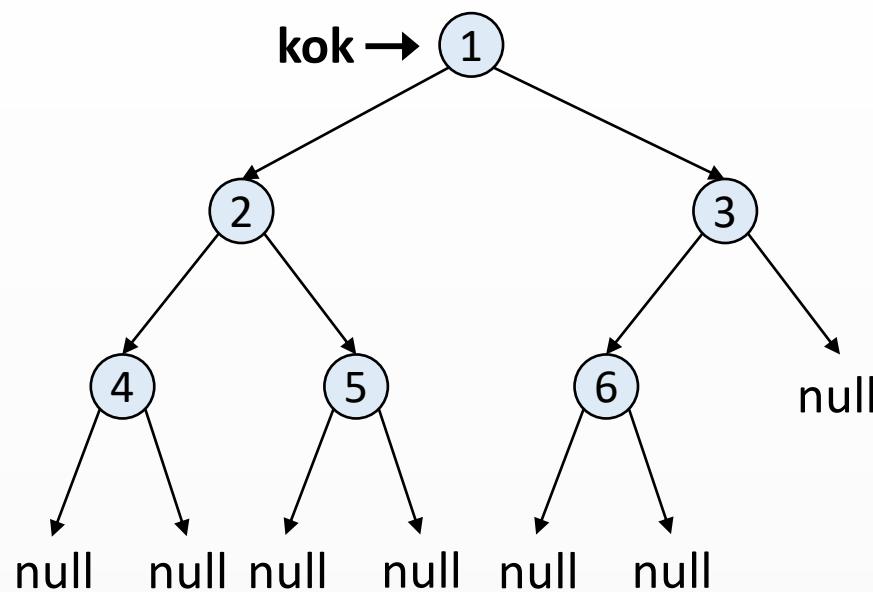
→

```

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;
    }
}

```



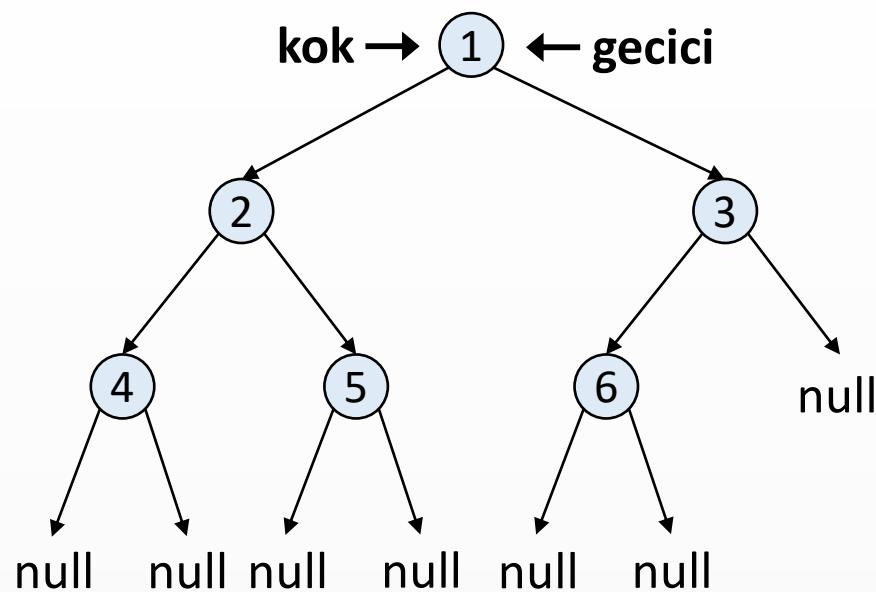


Yığıt

Çıktı:

→

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

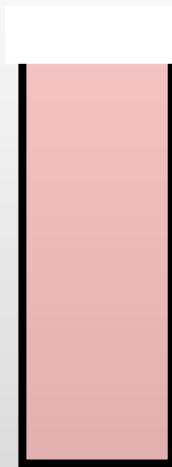
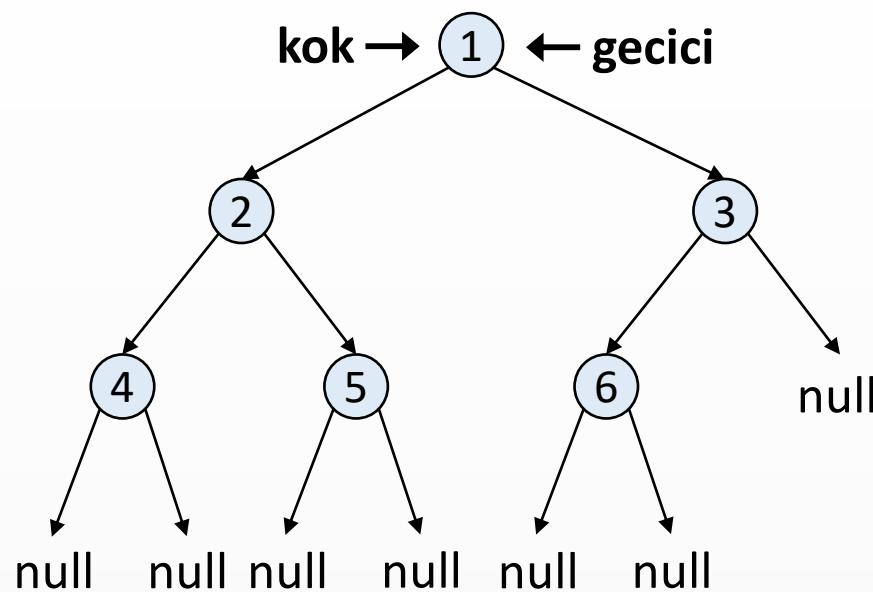


Yığıt

Çıktı:

→

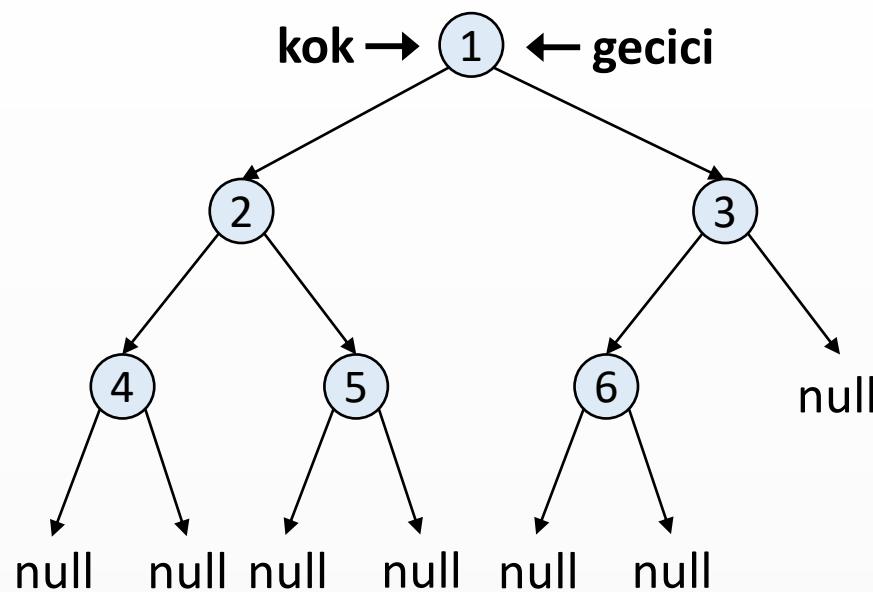
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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```



Yığıt

Çıktı:

```
if(kok == null) {  
    return;  
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        System.out.print(ecici.veri + " ");  
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```

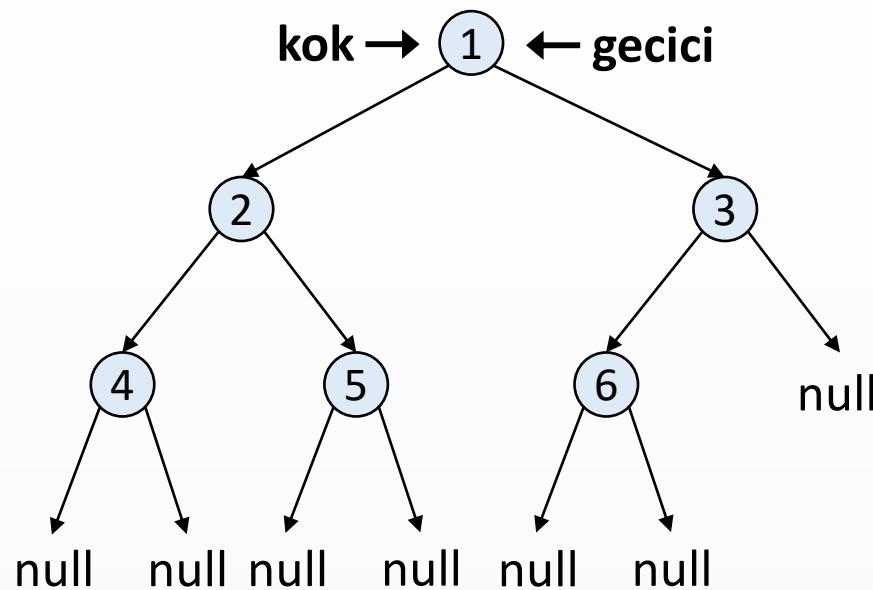


Yığıt

Çıktı:

```
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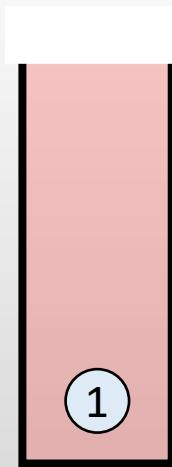
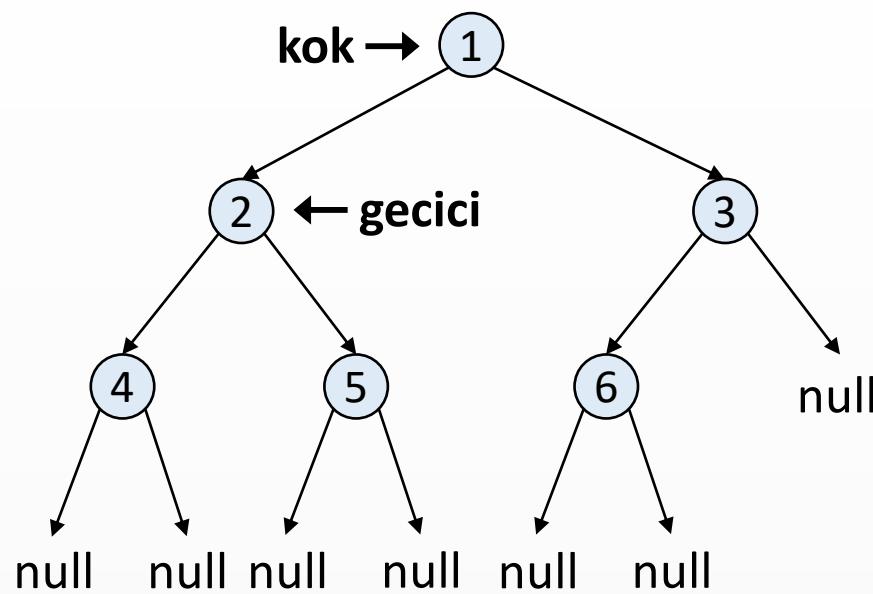
A code snippet in Java-like pseudocode for performing an in-order traversal of a binary tree using a stack. The code initializes a stack, sets the current node to the root, and enters a loop. Inside the loop, it pushes the current node onto the stack and moves to its left child (sol). If the current node is null and the stack is not empty, it pops a node from the stack, prints its value, and moves to its right child (sag). The loop continues until both the current node and the stack are null.



Yığıt

Çıktı:

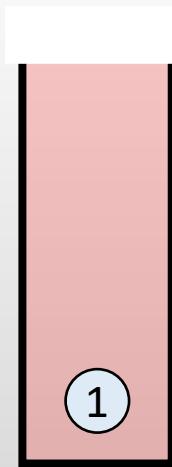
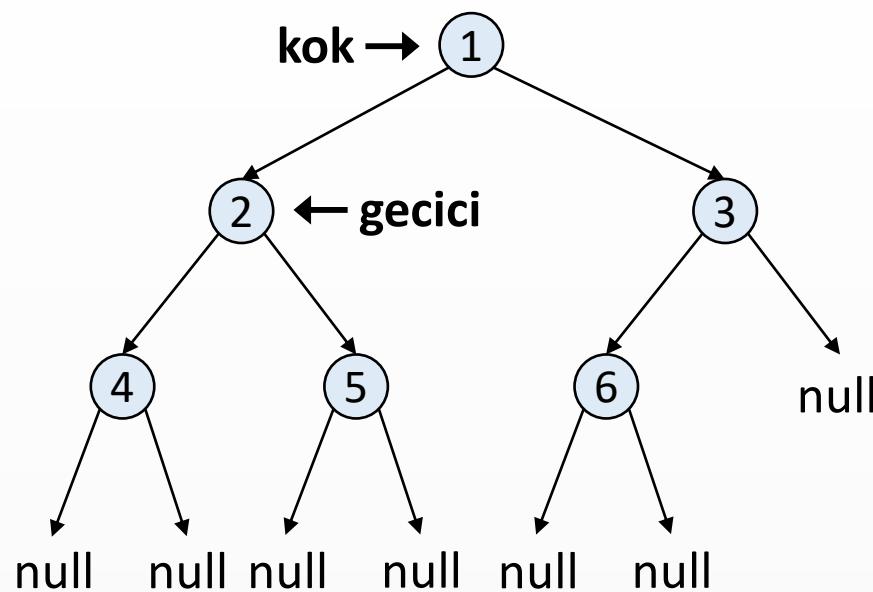
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
 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



Yığıt

Çıktı:

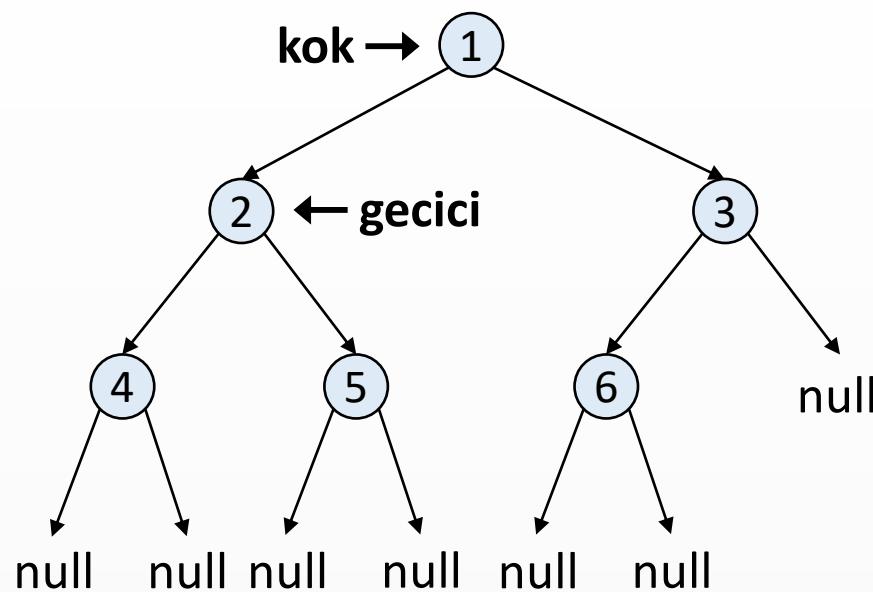
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Yığıt

Çıktı:

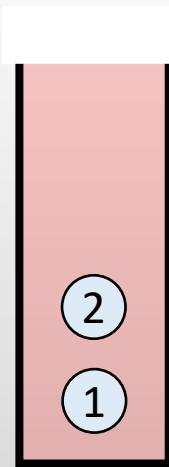
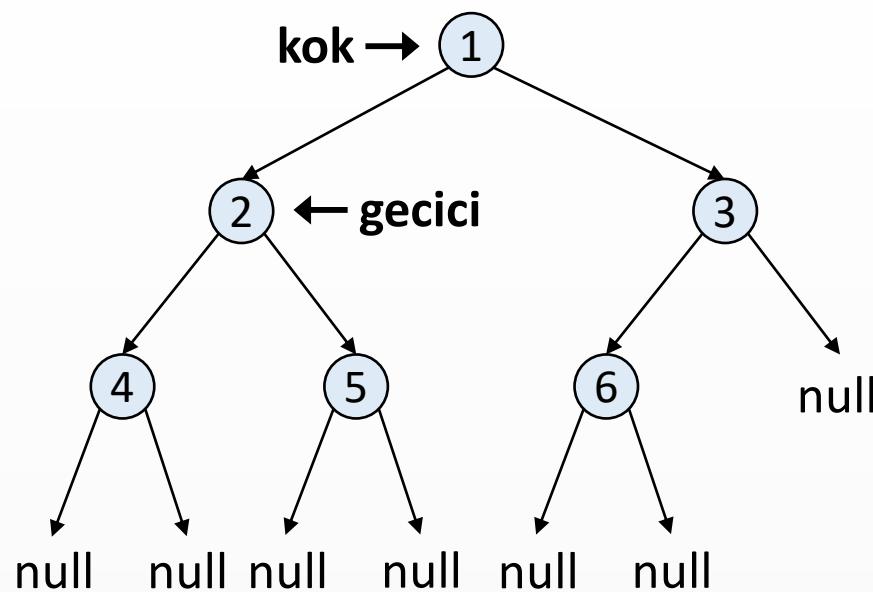
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→ while(!yigit.isEmpty() || gecici != null) {  
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Yığıt

Çıktı:

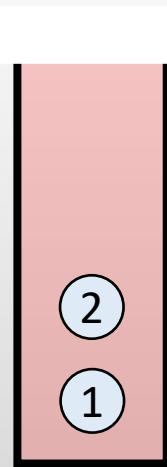
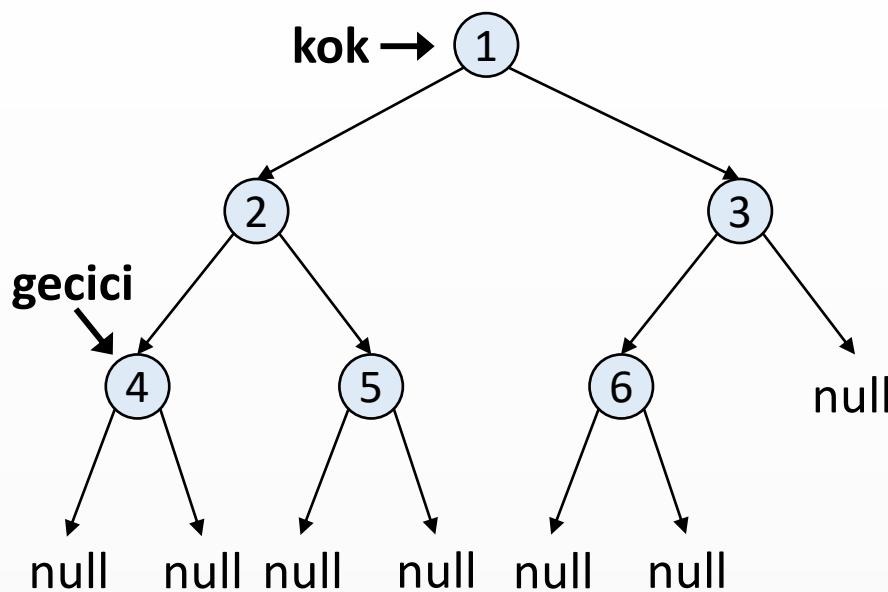
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Yığıt

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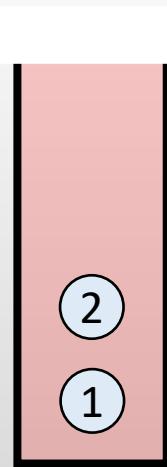
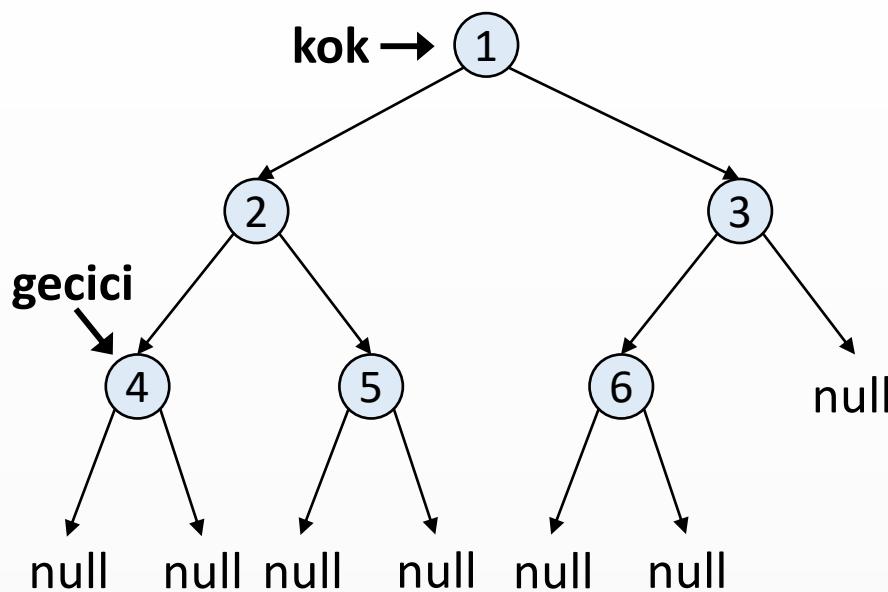
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Yığıt

Çıktı:

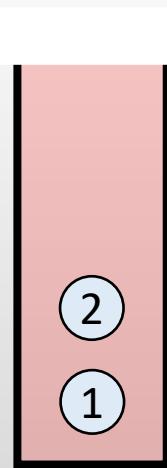
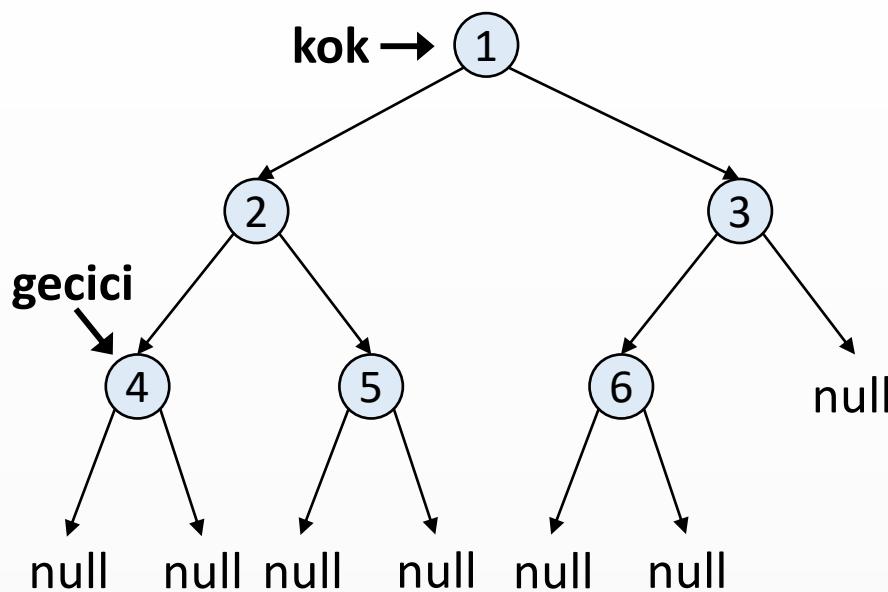
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

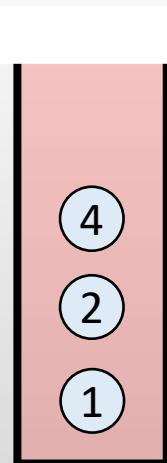
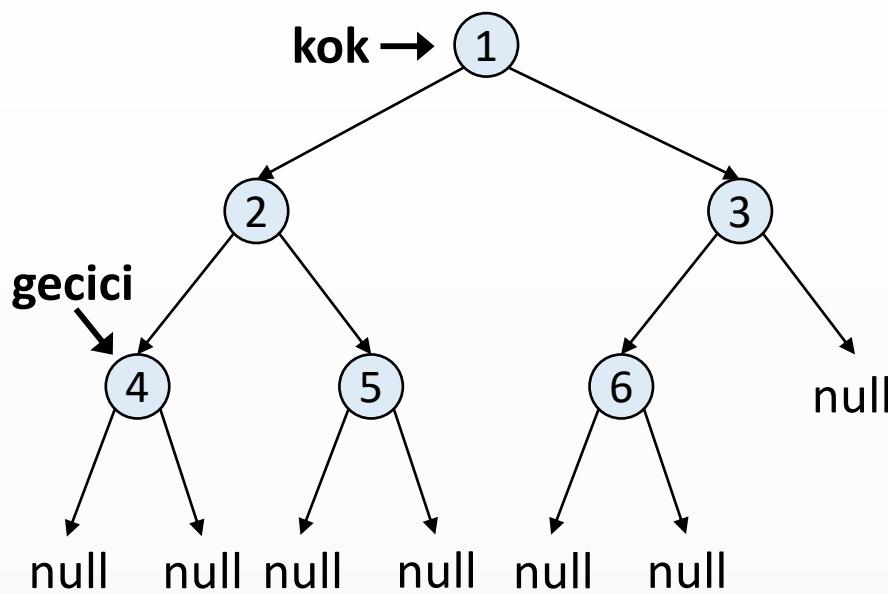
Çıktı:

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



Çıktı:

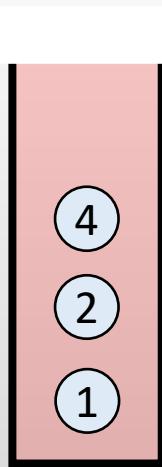
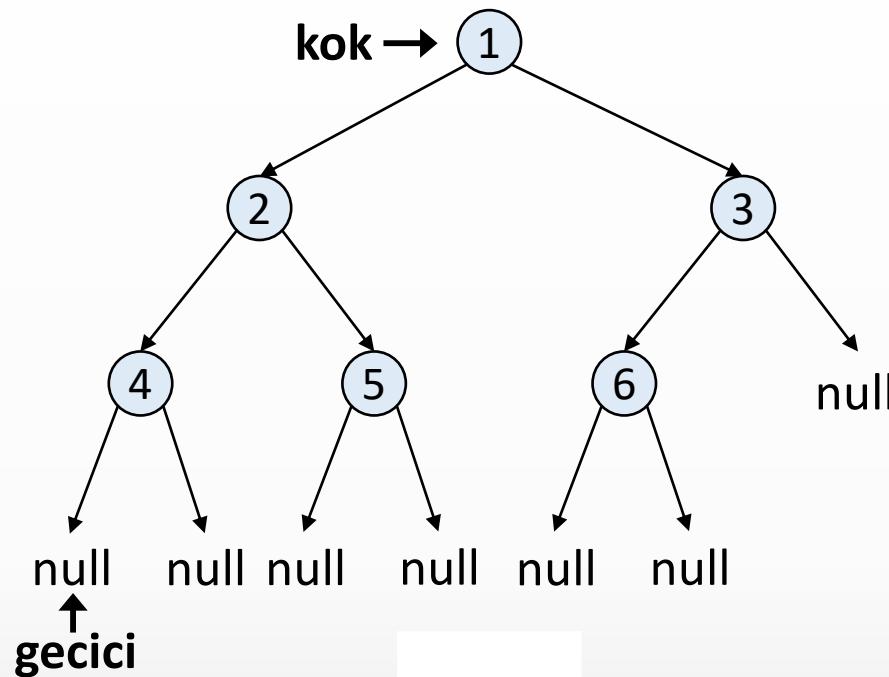
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı:

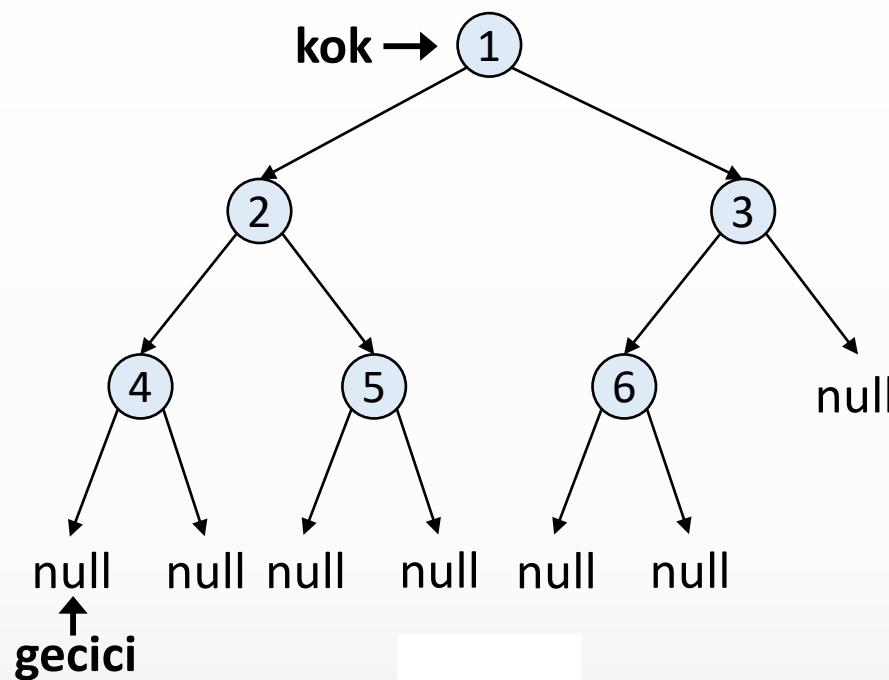
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı:

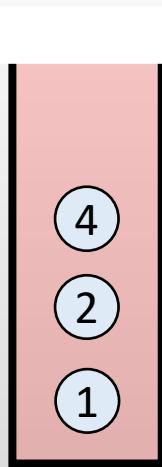
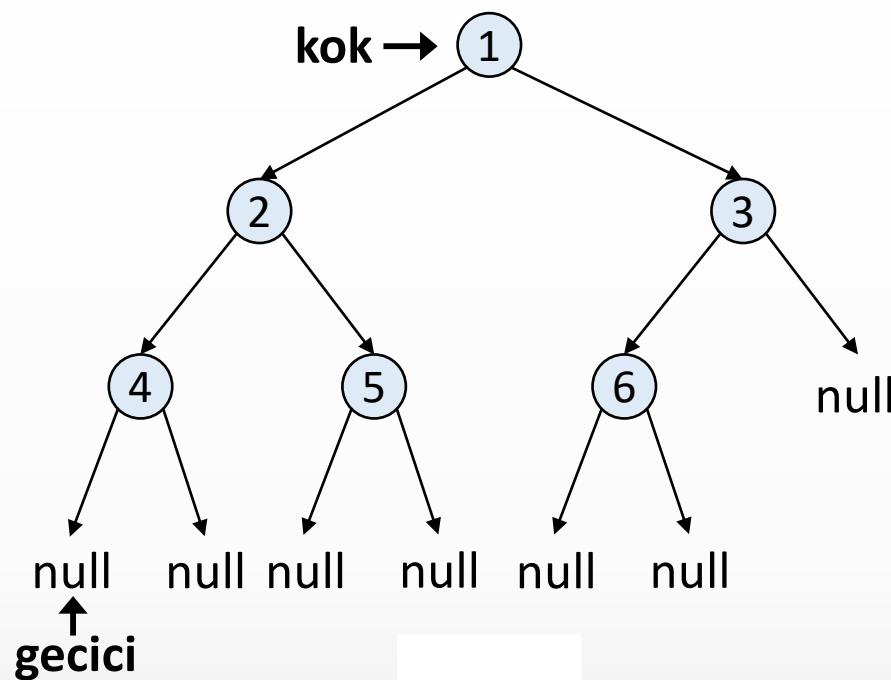
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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    }  
    else {  
        ecici = yigit.pop();  
        System.out.print(ecici.veri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



Yığıt

Çıktı:

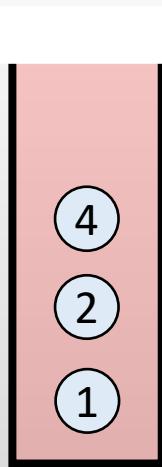
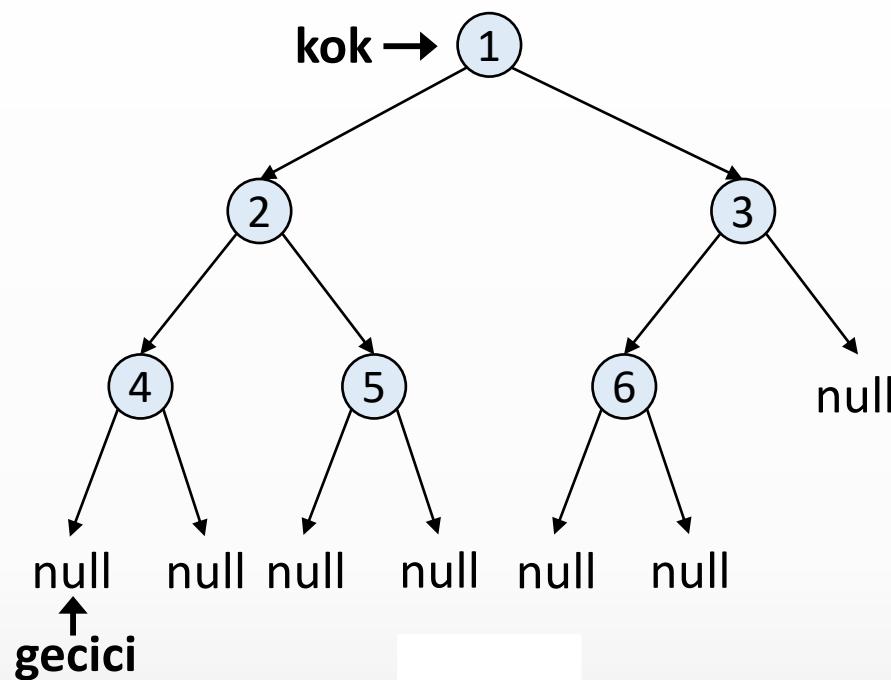
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if(kok == null) {  
    return;  
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        System.out.print(ecici.veri + " ");  
        ecici = ecici.sag;  
    }  
}
```



Yığıt

Çıktı:

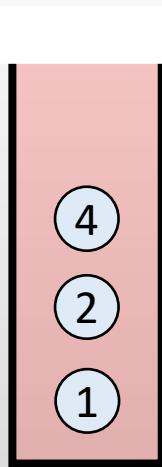
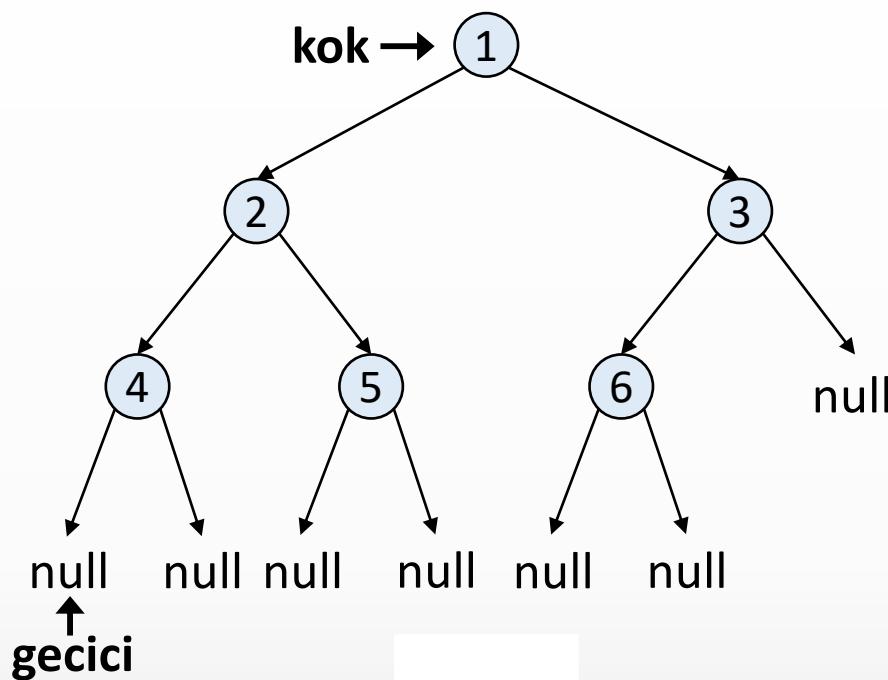
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if(kok == null) {  
    return;  
}  
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AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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    }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



Yığıt

Çıktı:

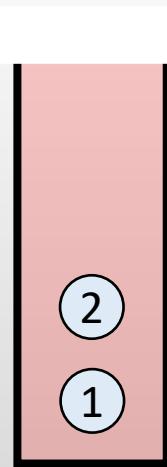
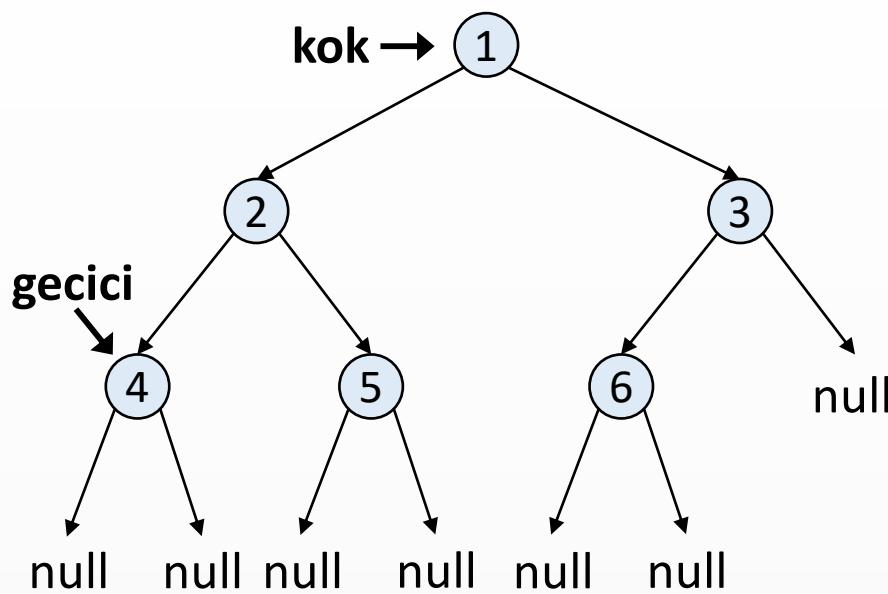
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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    }  
    else {  
        ecici = yigit.pop();  
        System.out.print(ecici.veri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



Yığıt

Çıktı:

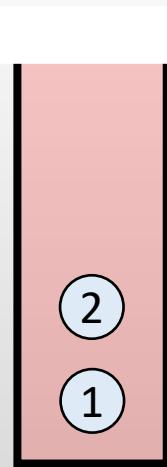
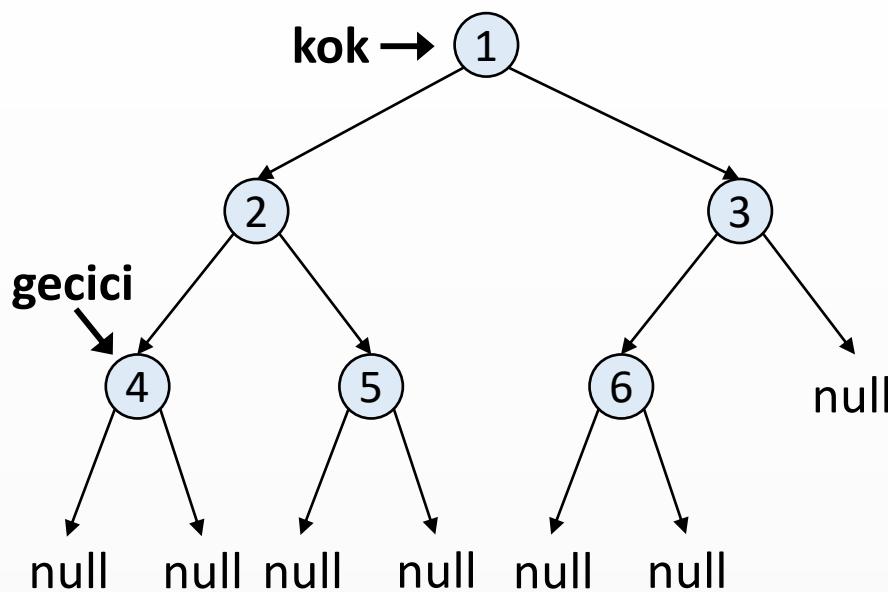
```
if(kok == null) {  
    return;  
}  
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AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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        ecici = ecici.sol;  
    }  
    else {  
   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



Yığıt

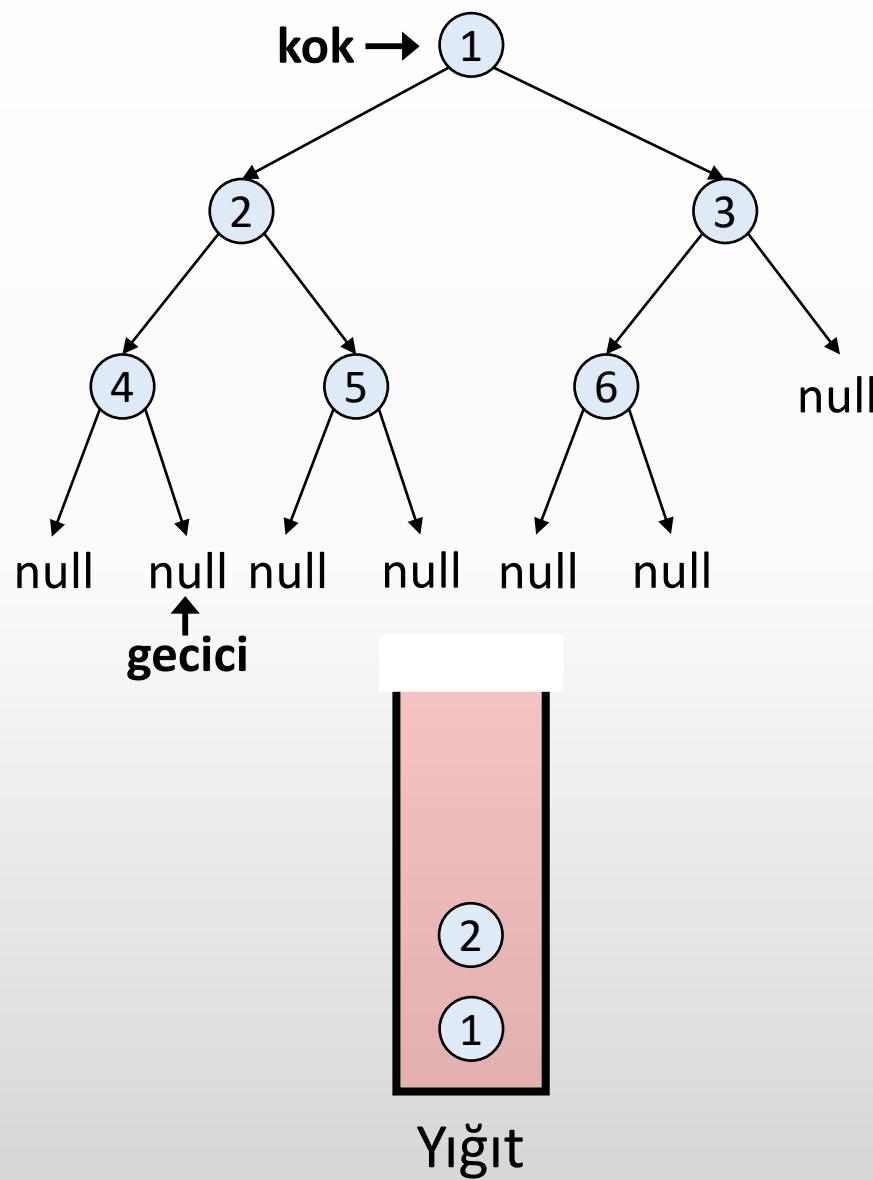
Çıktı:

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



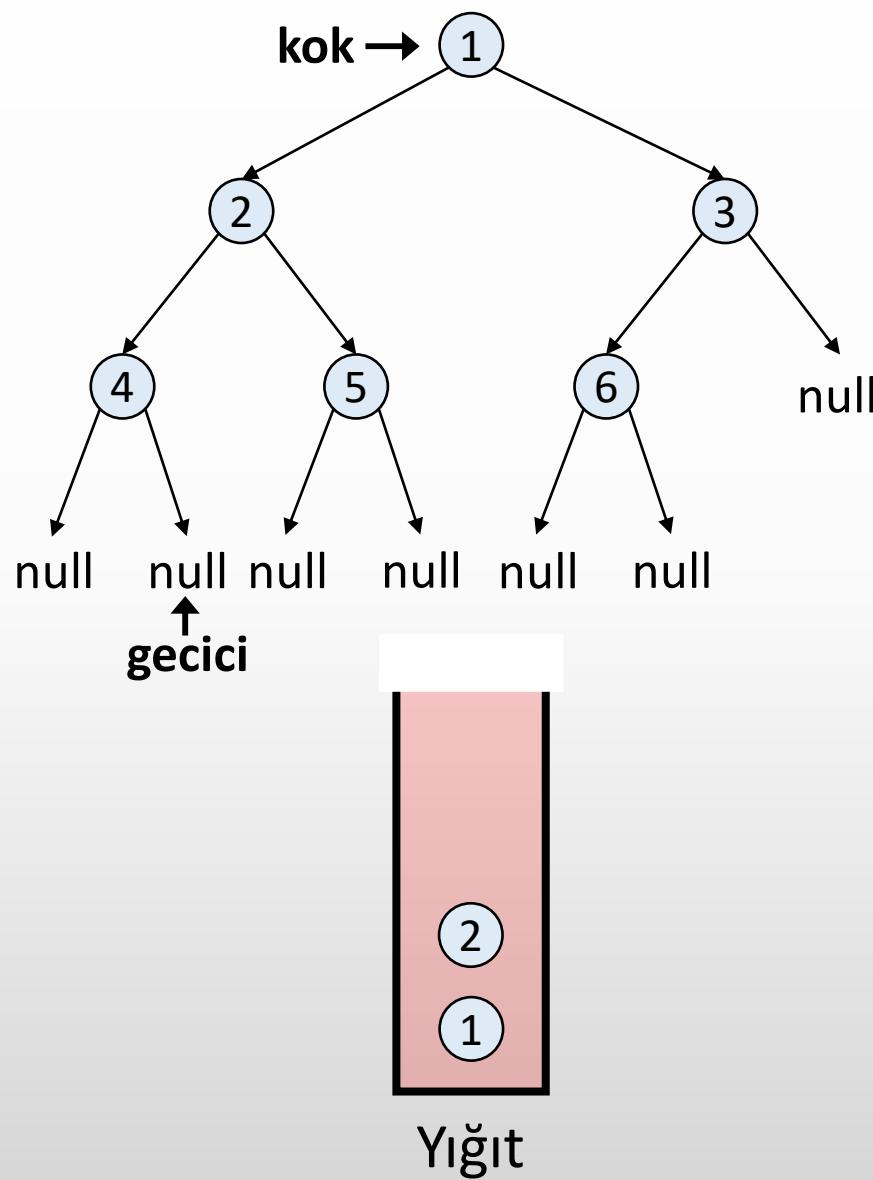
Çıktı: 4

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



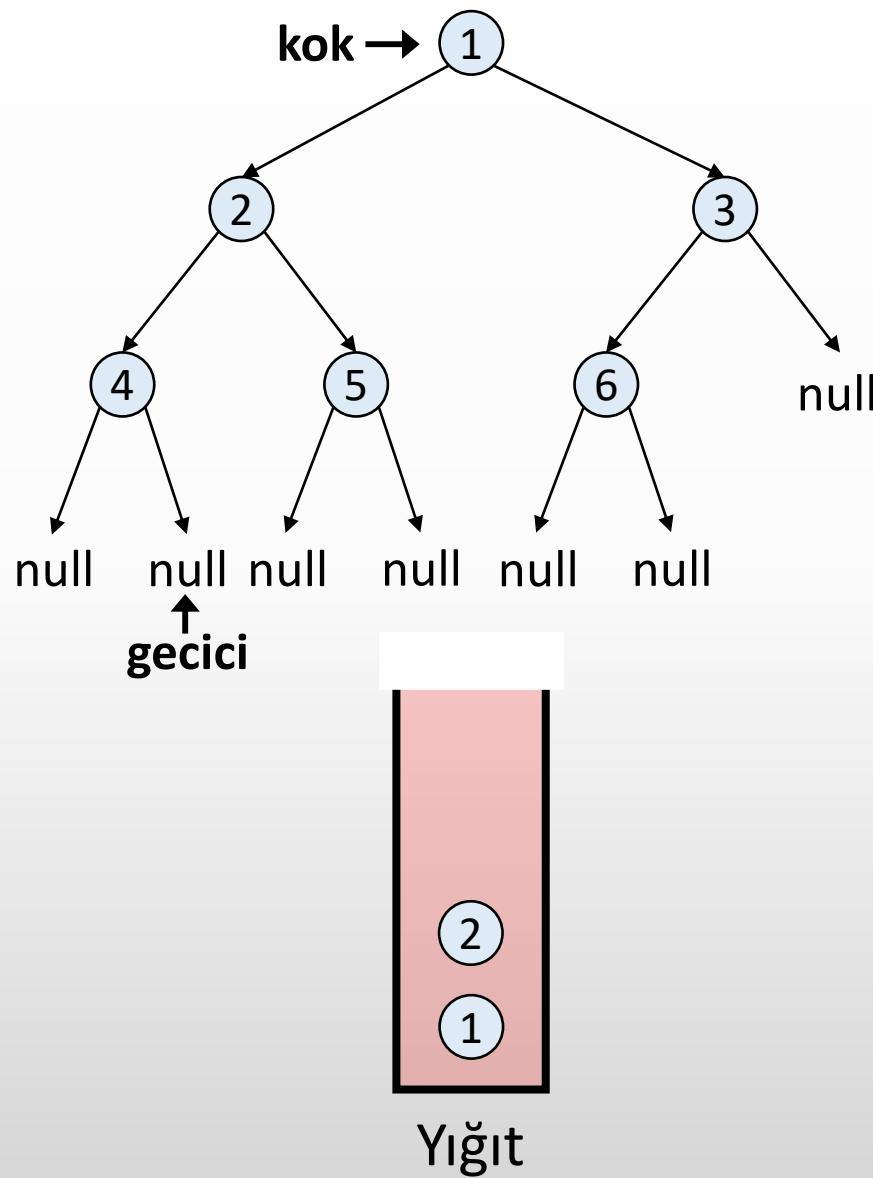
Cıktı: 4

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



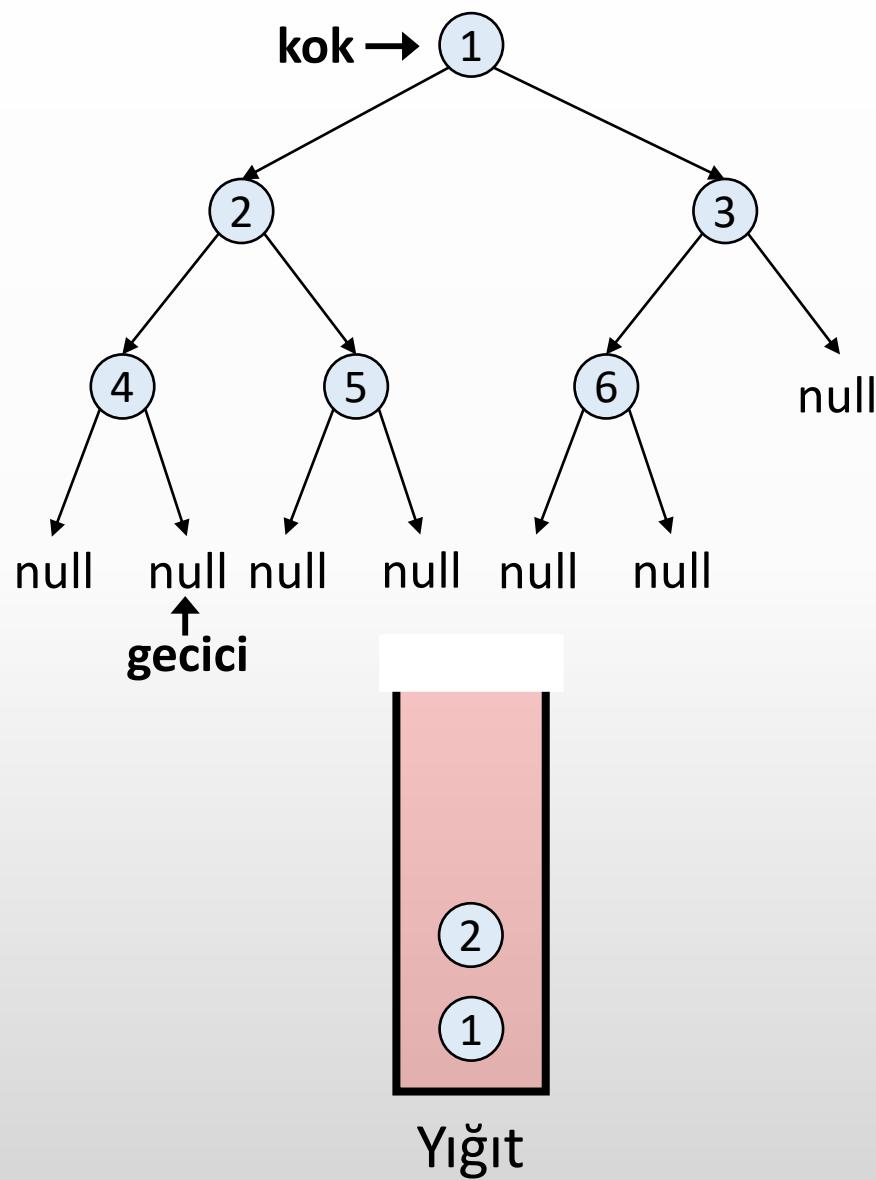
Cıktı: 4

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



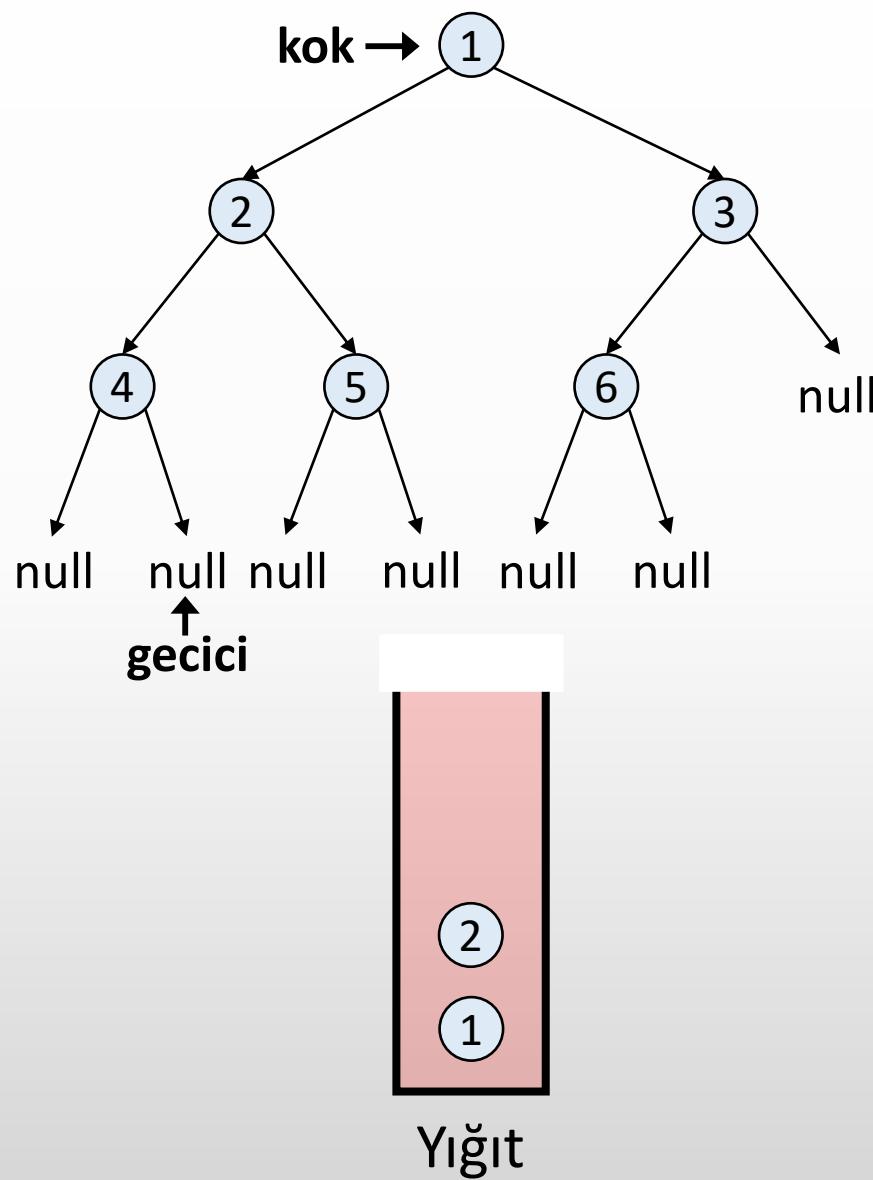
Çıktı: 4

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



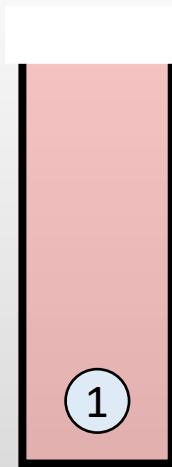
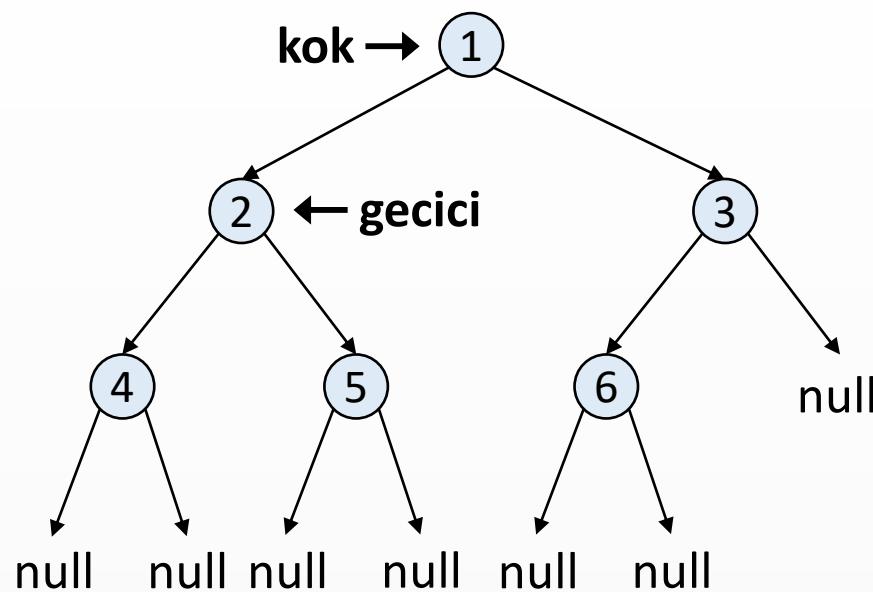
Çıktı: 4

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



Çıktı: 4

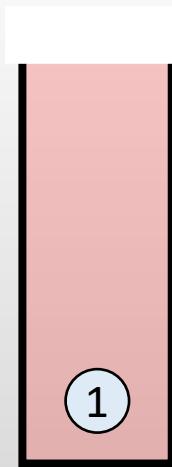
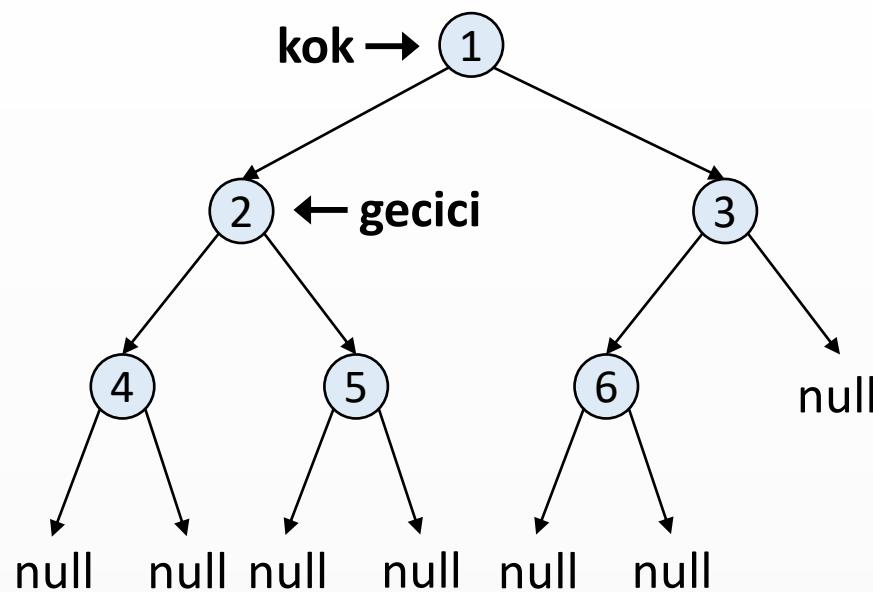
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    else {  
        ecici = yigit.pop();  
        System.out.print(ecici.veri + " ");  
        ecici = ecici.sag;  
    }  
}
```



Yığıt

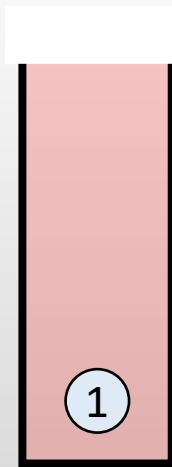
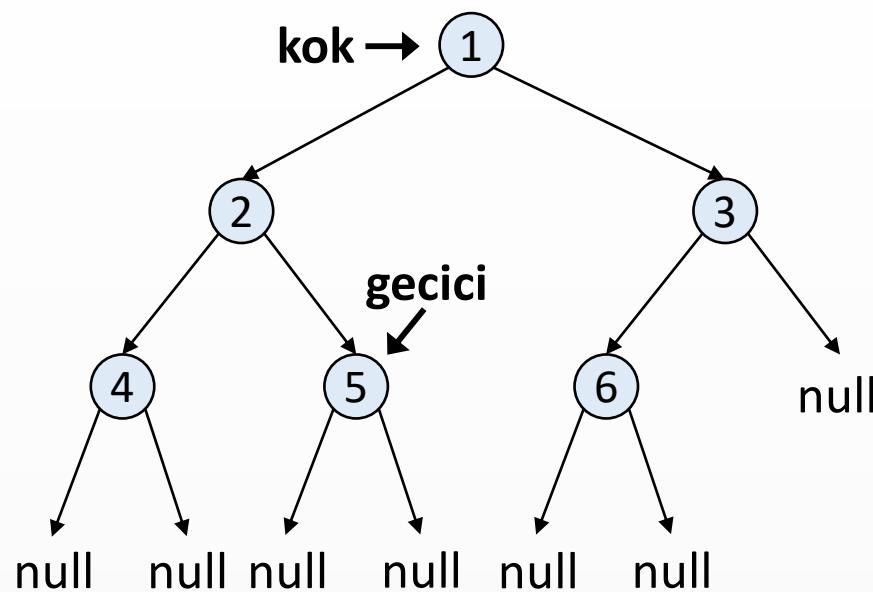
Cıktı: 4

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



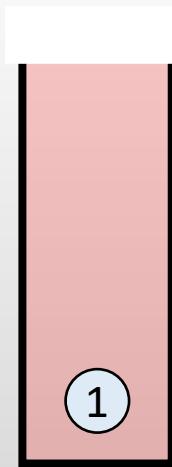
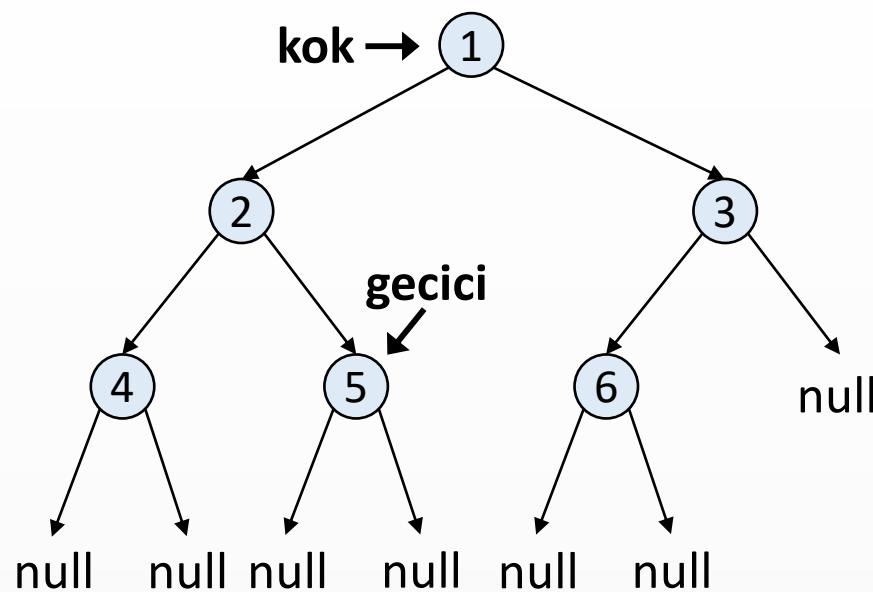
Cıktı: 4 2

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



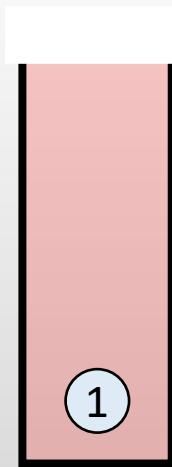
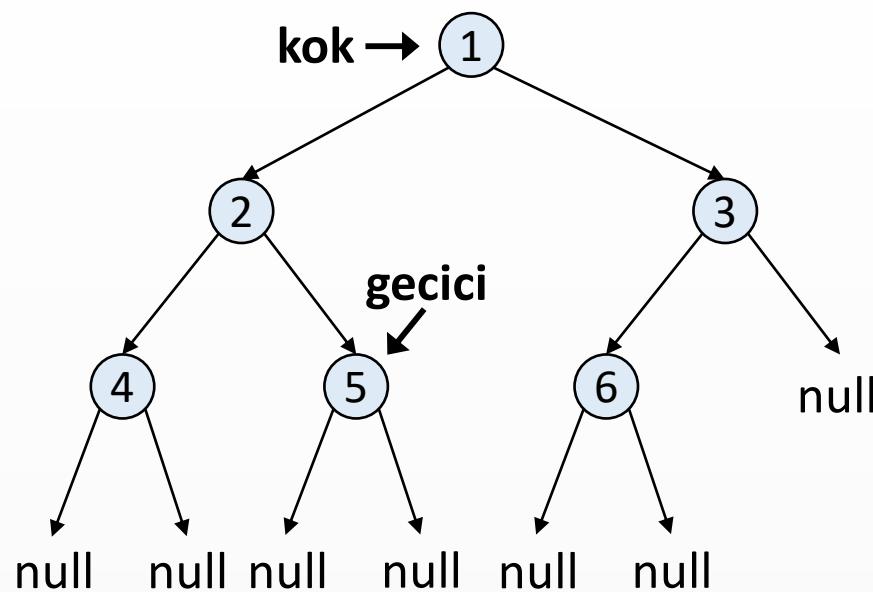
Cıktı: 4 2

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



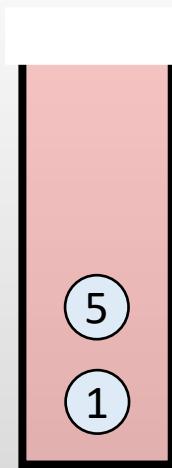
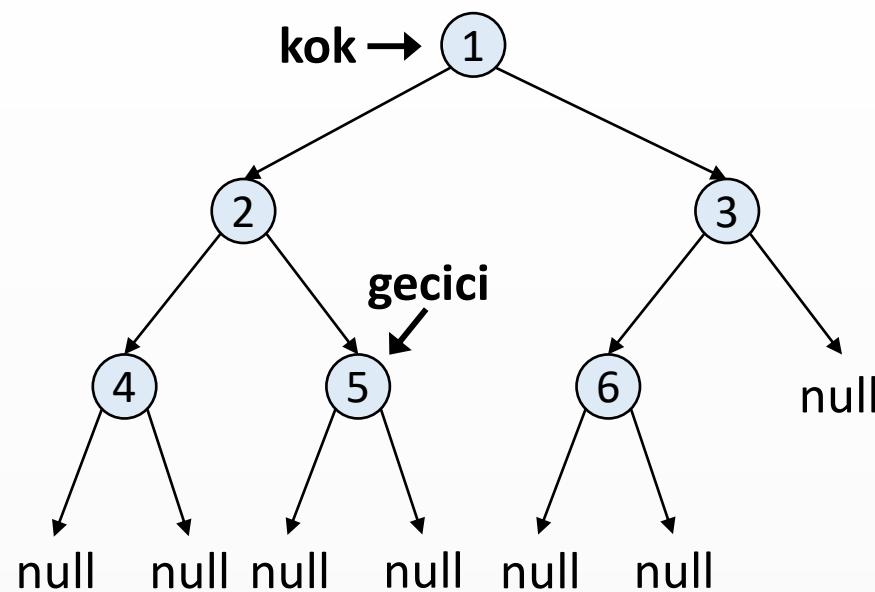
Cıktı: 4 2

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if(kok == null) {  
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        gecici = gecici.sag;  
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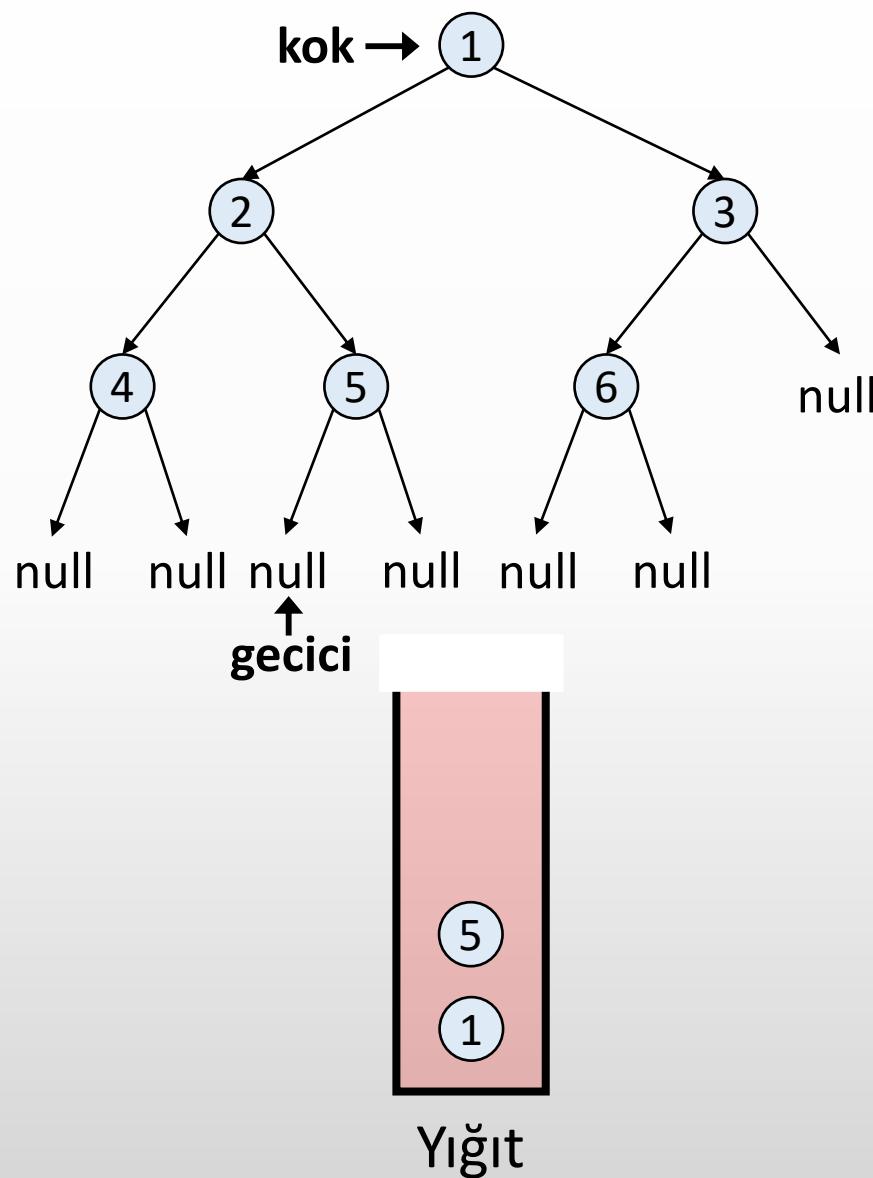
Cıktı: 4 2

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if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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    }  
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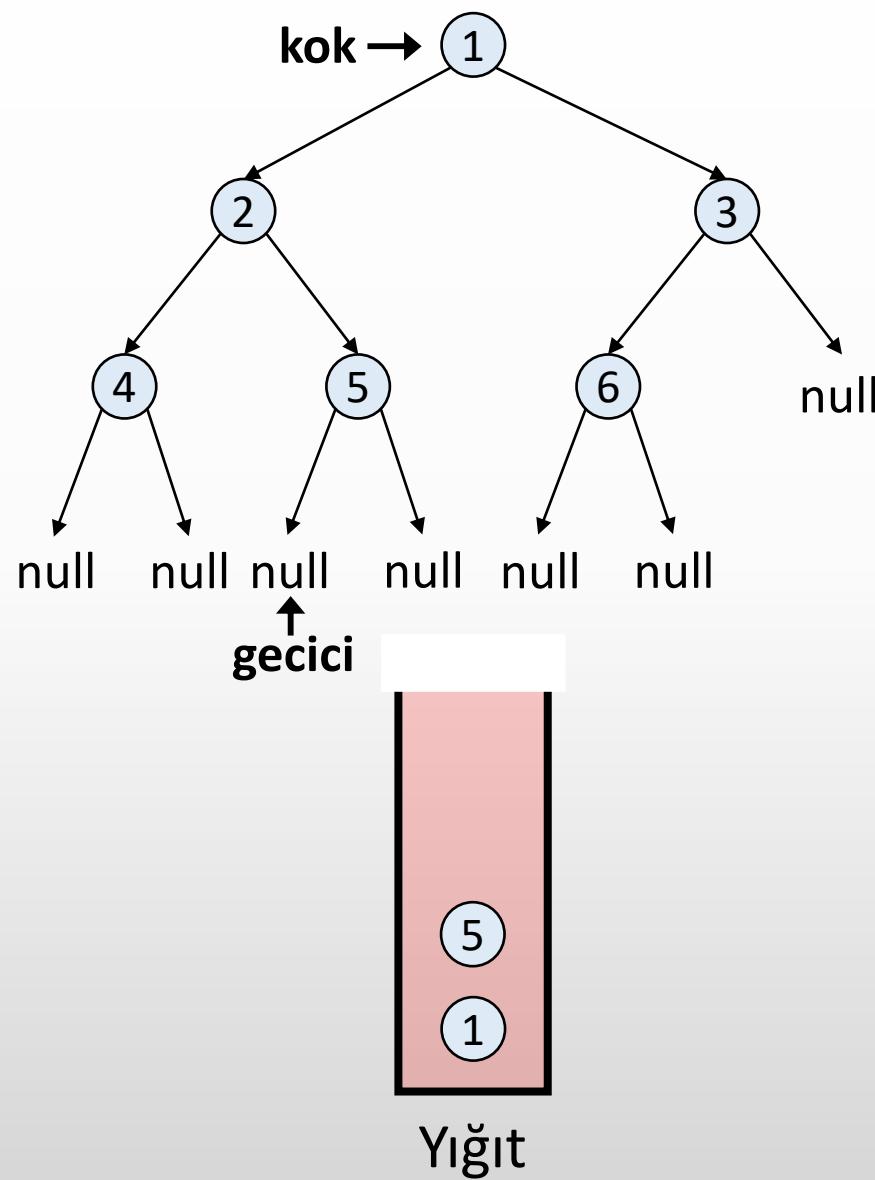
Çıktı: 4 2

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



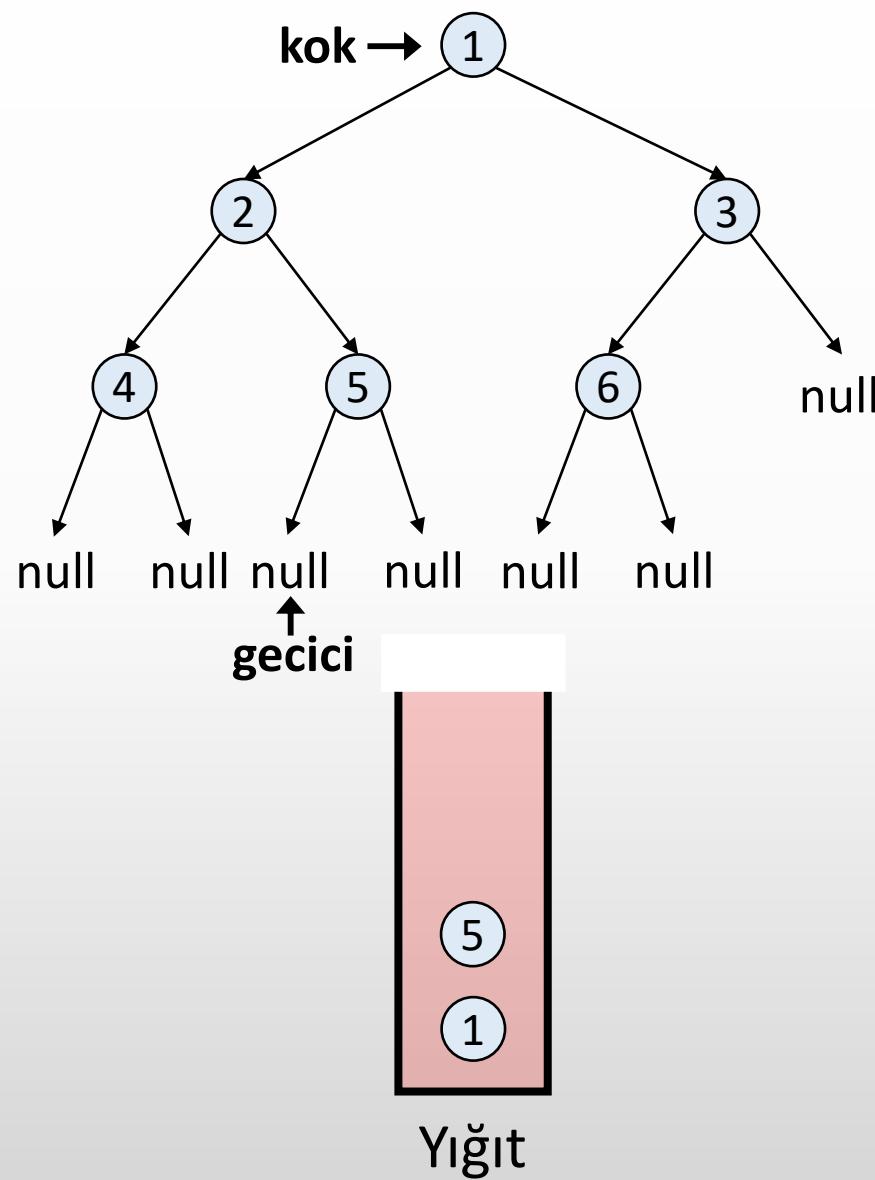
Çıktı: 4 2

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if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
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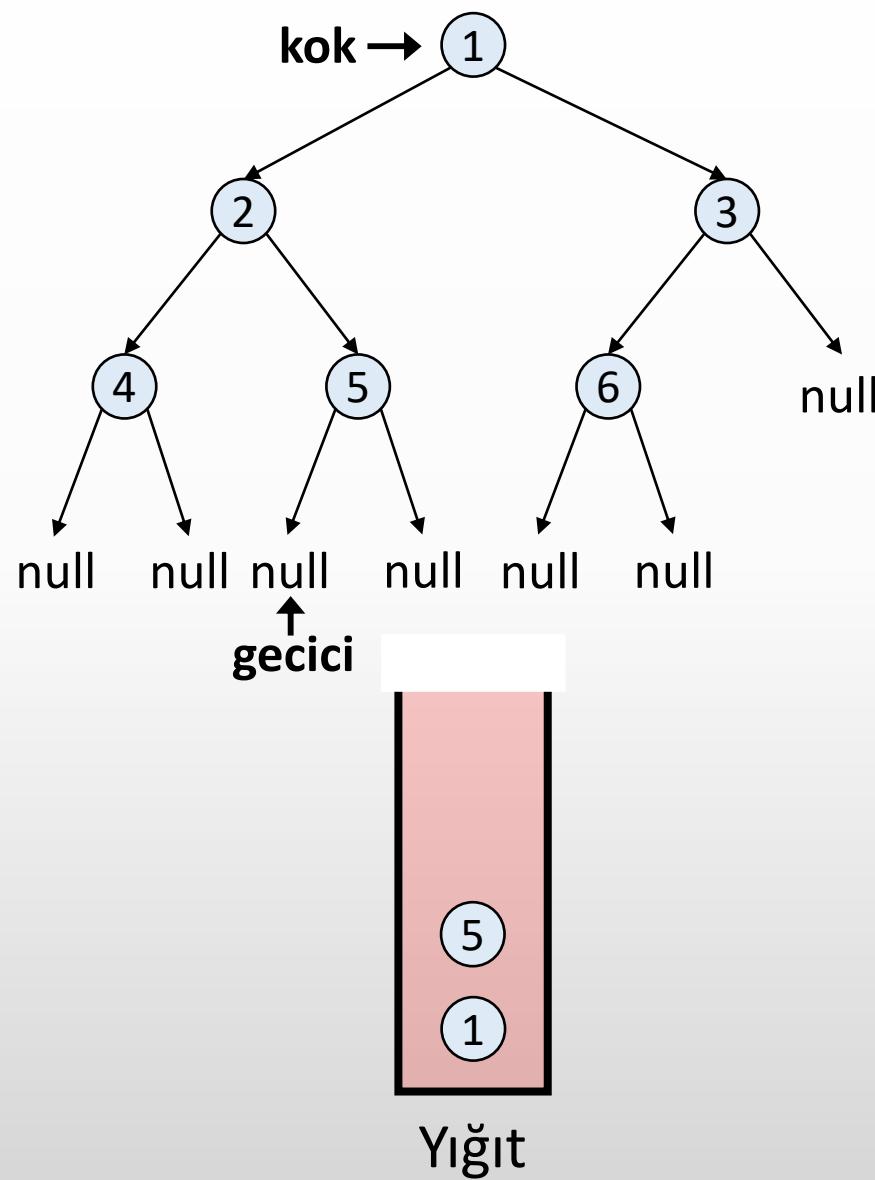
Çıktı: 4 2

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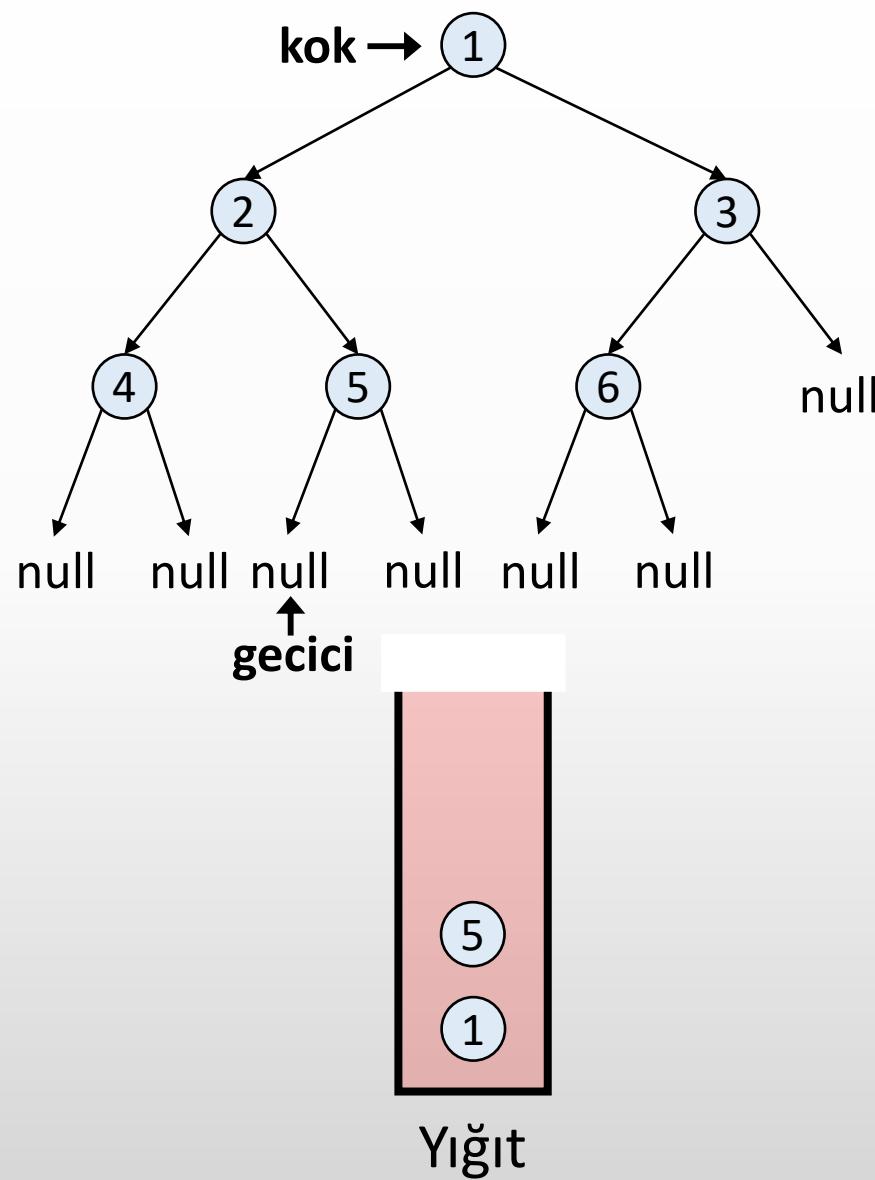
Cıktı: 4 2

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        System.out.print(gecici.veri + " ");  
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    }  
}
```



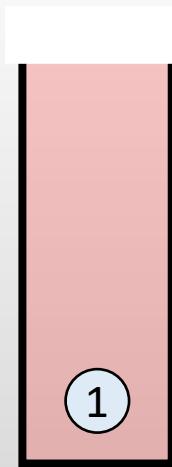
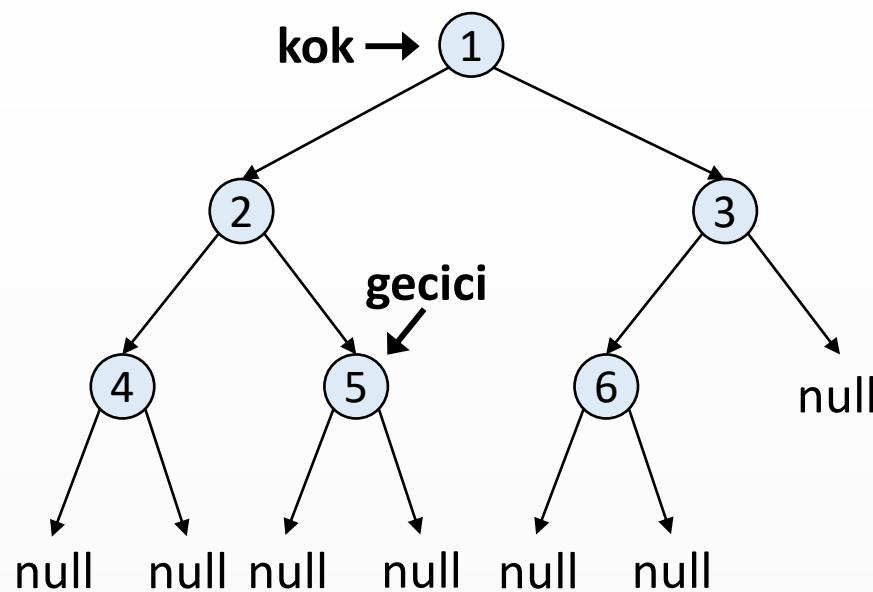
Çıktı: 4 2

```
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;  
    }  
}
```



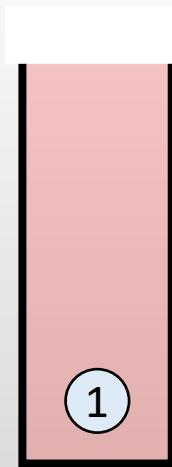
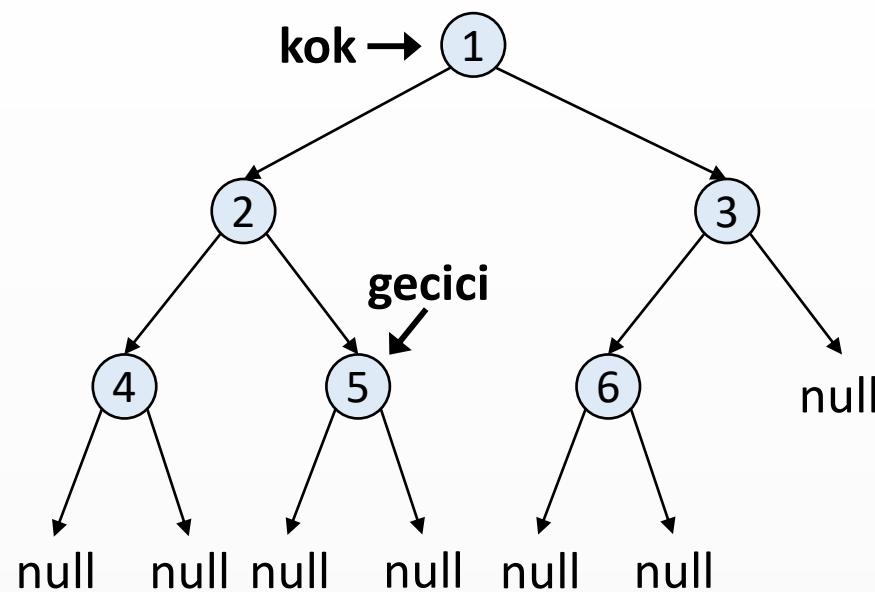
Çıktı: 4 2

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



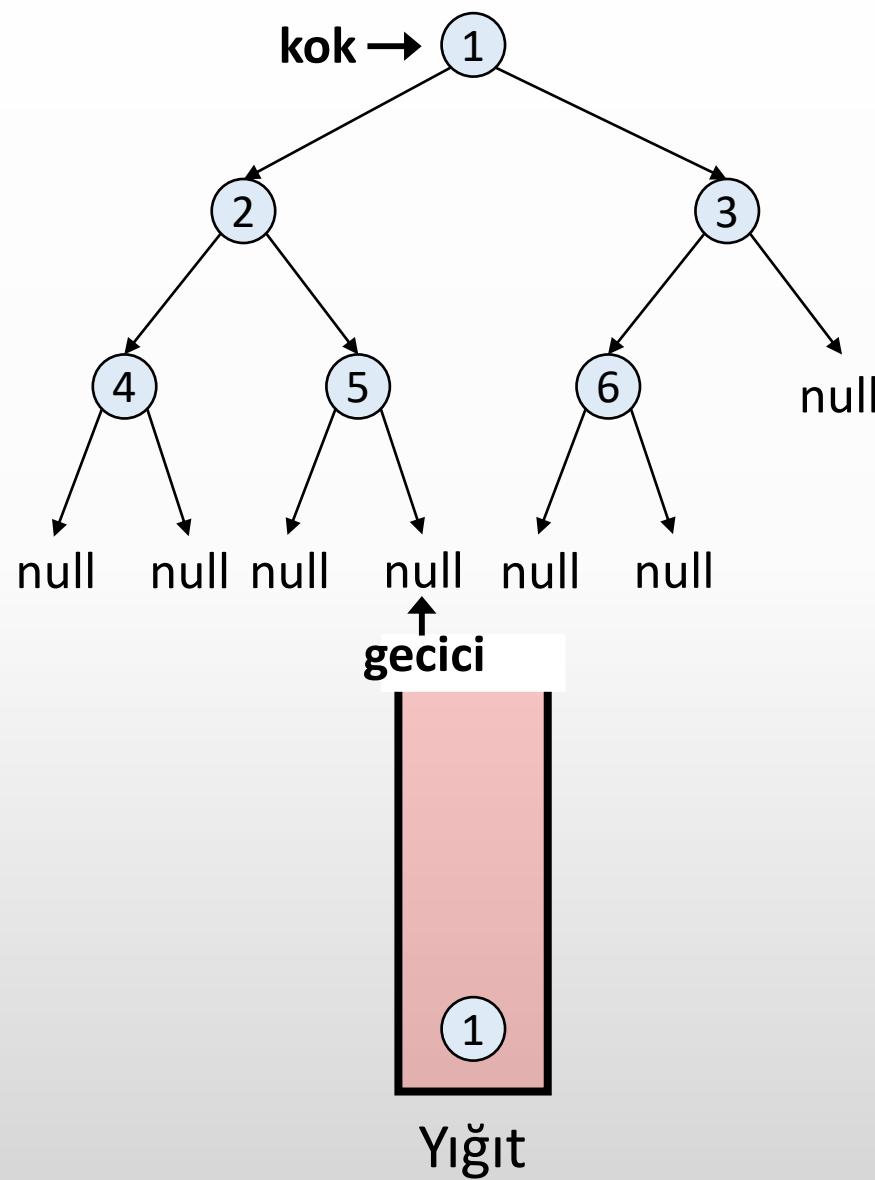
Cıktı: 4 2

```
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;  
    }  
}
```



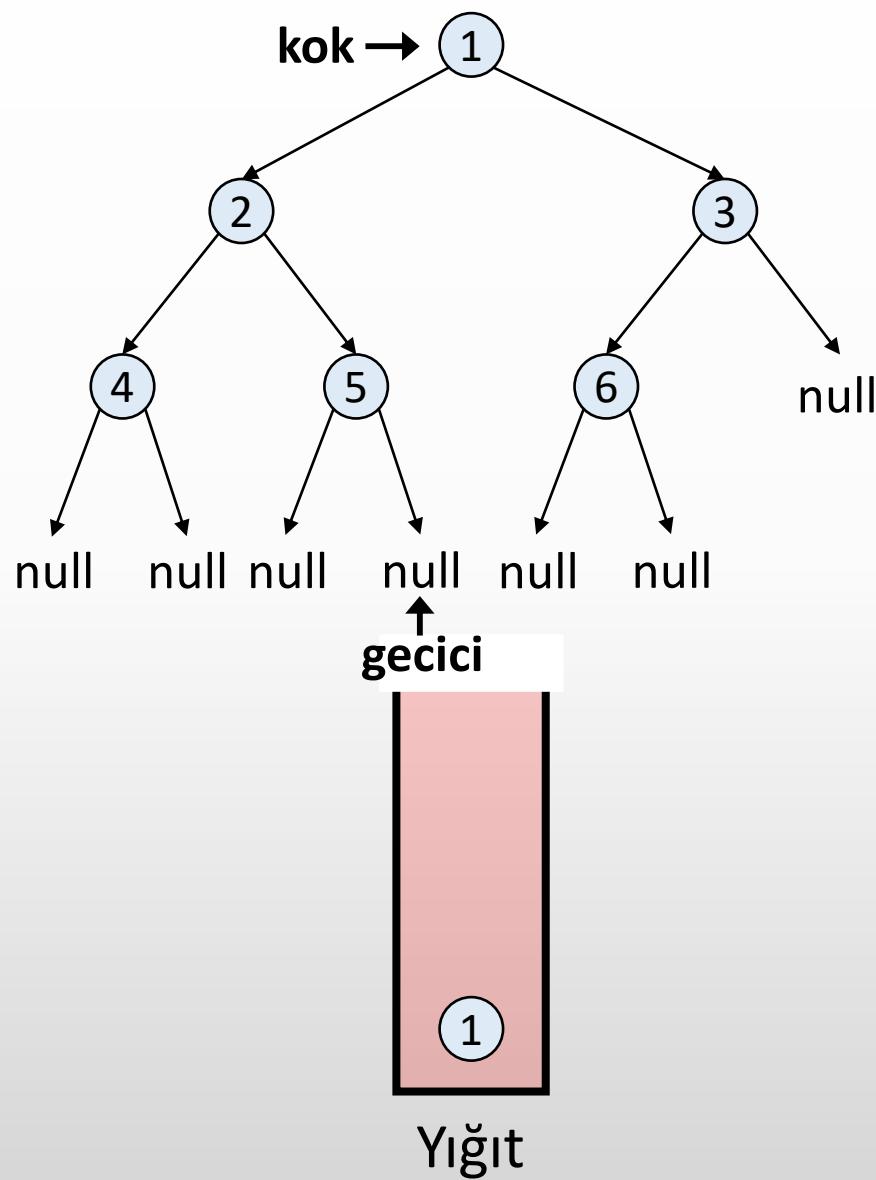
Cıktı: 4 2 5

```
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;  
    }  
}
```



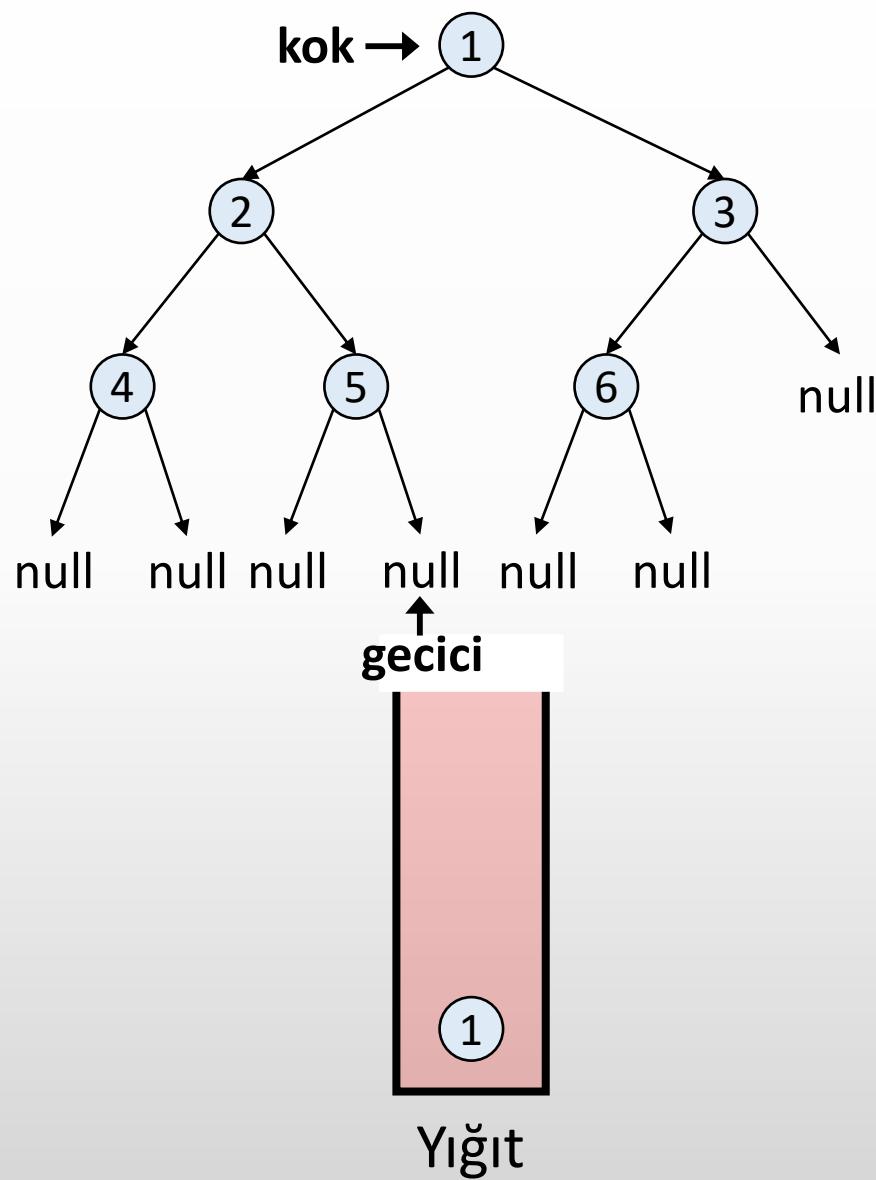
Çıktı: 4 2 5

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



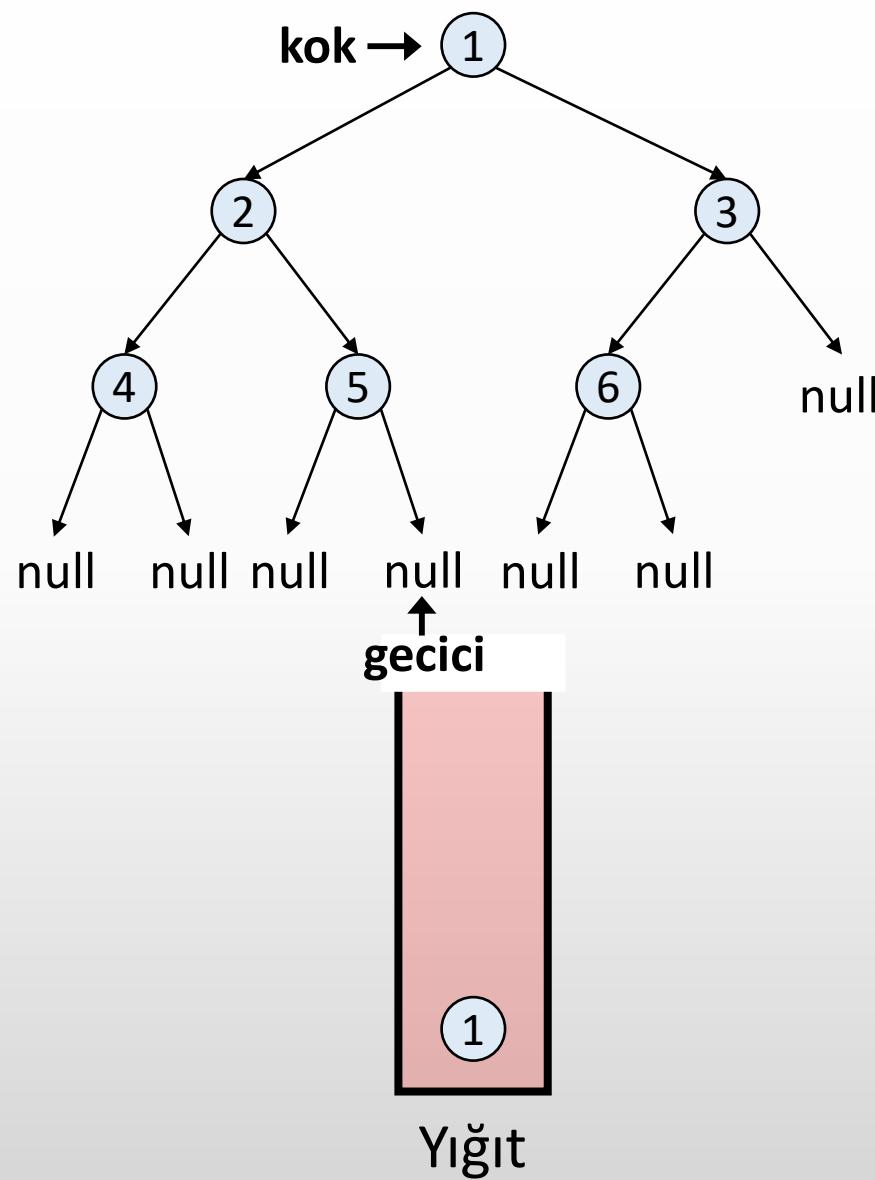
Çıktı: 4 2 5

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



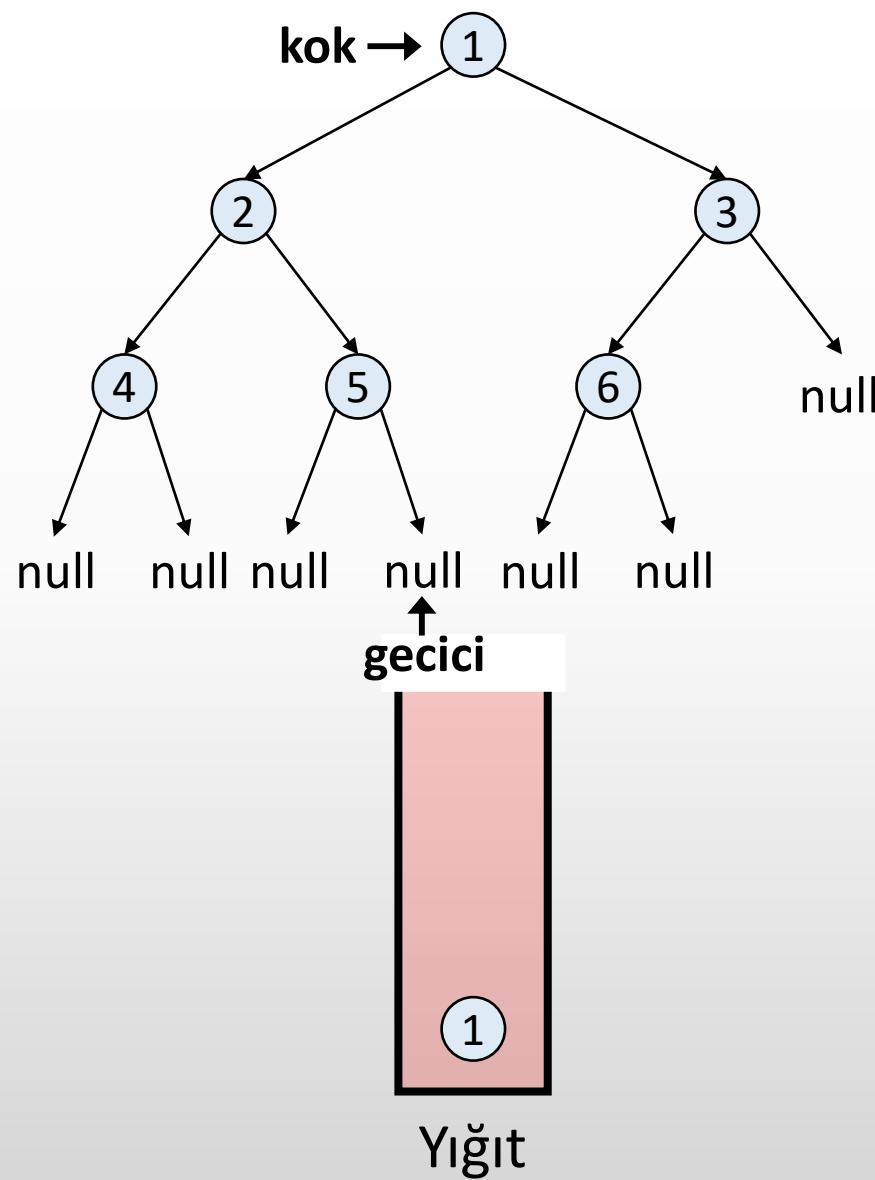
Çıktı: 4 2 5

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



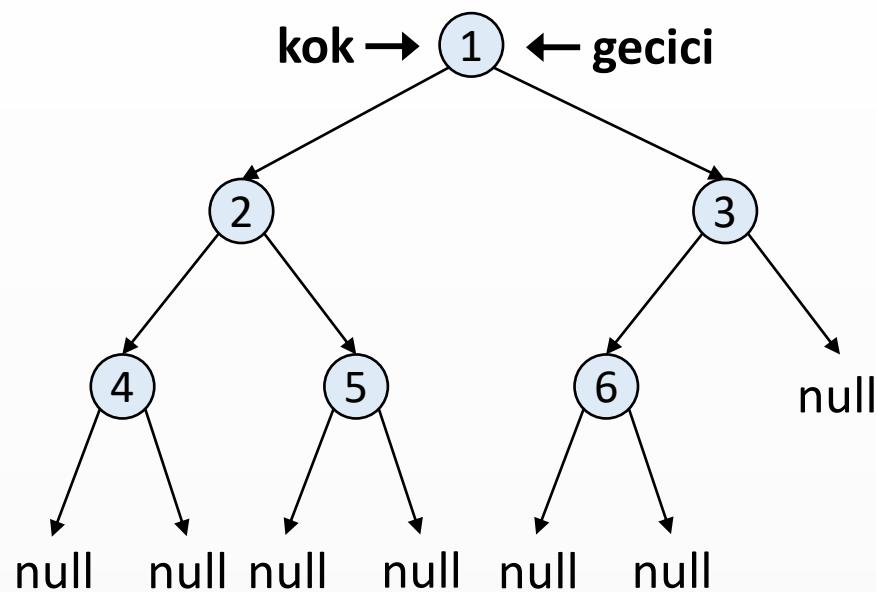
Çıktı: 4 2 5

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

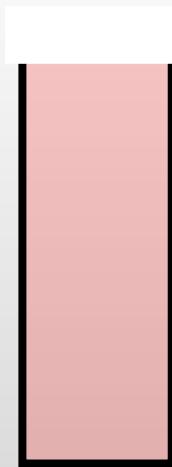
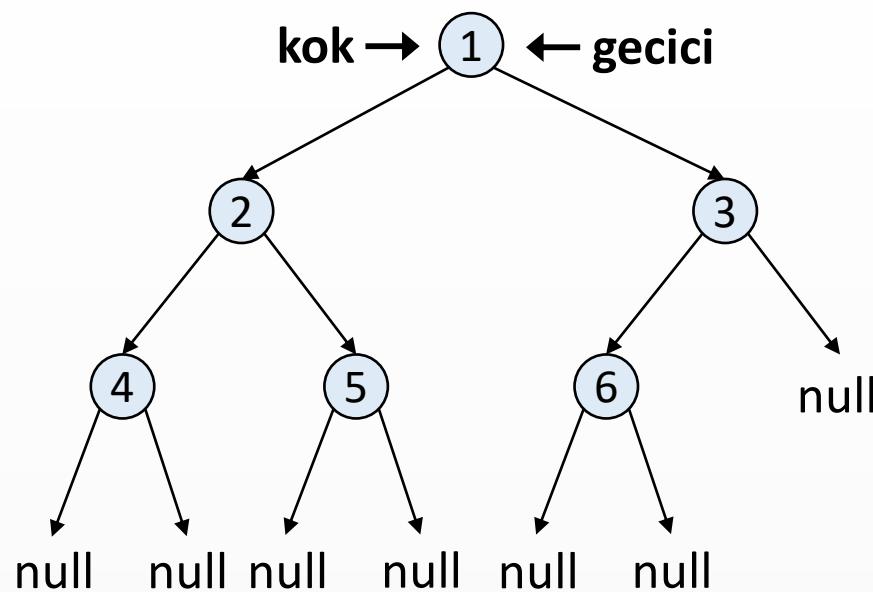


Yığıt

Cıktı: 4 2 5

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

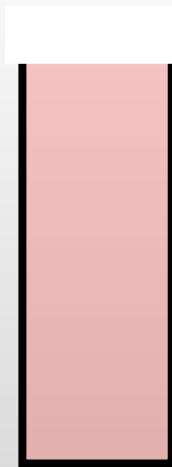
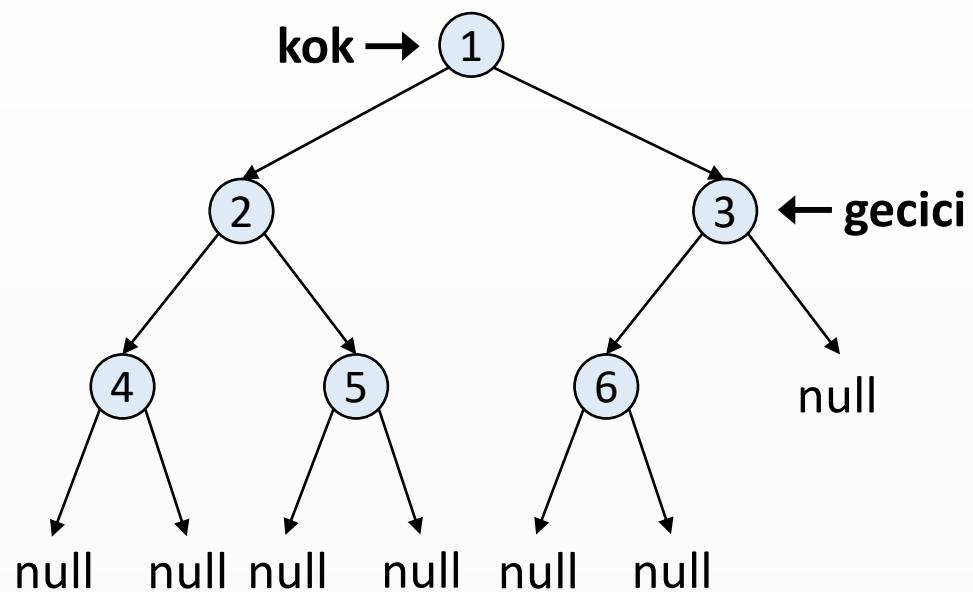
A code snippet in Java-like pseudocode that implements an in-order traversal of a binary tree using a stack. The code initializes a stack, sets the current node to the root, and enters a loop. Inside the loop, it pushes the current node onto the stack and moves to its left child (sol). If the current node is null and the stack is not empty, it pops a node from the stack, prints its value, and moves to its right child (sag). This continues until both the stack is empty and the current node is null.



Yığıt

Cıktı: 4 2 5 1

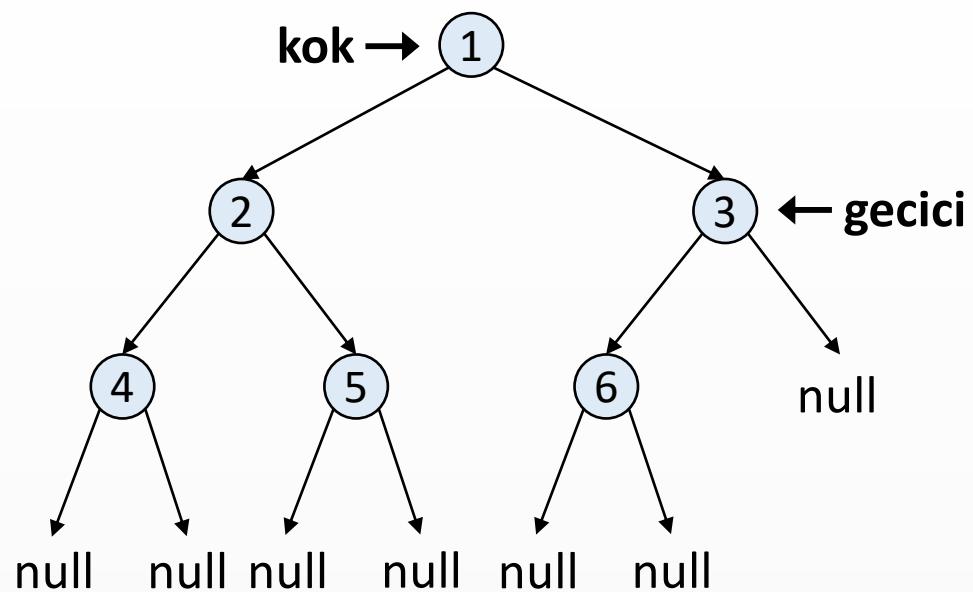
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
  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



Yığıt

Cıktı: 4 2 5 1

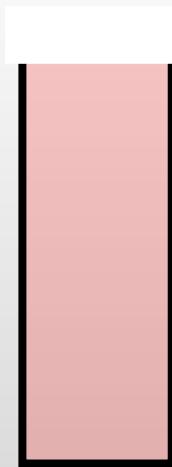
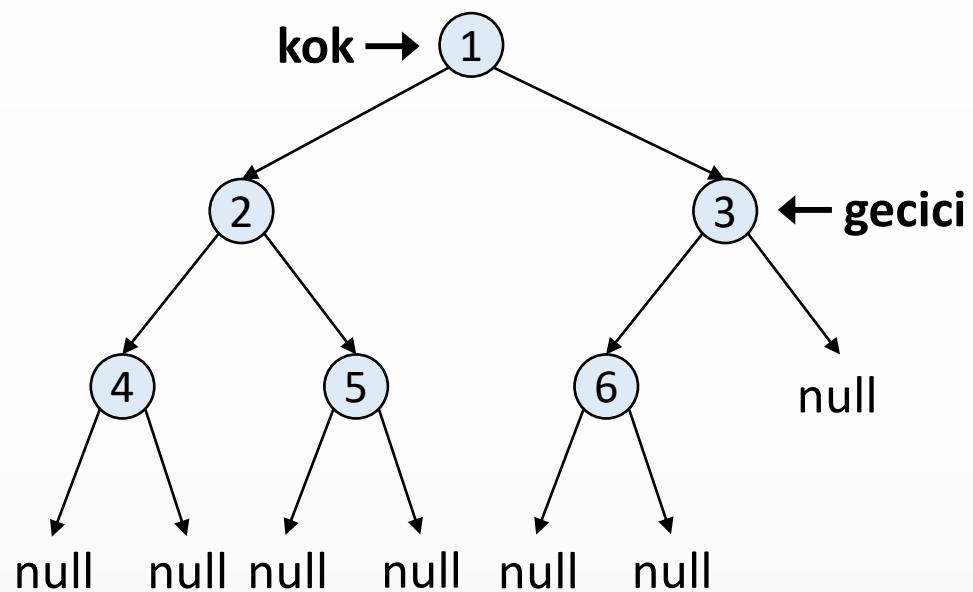
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Cıktı: 4 2 5 1

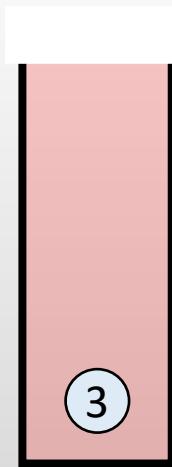
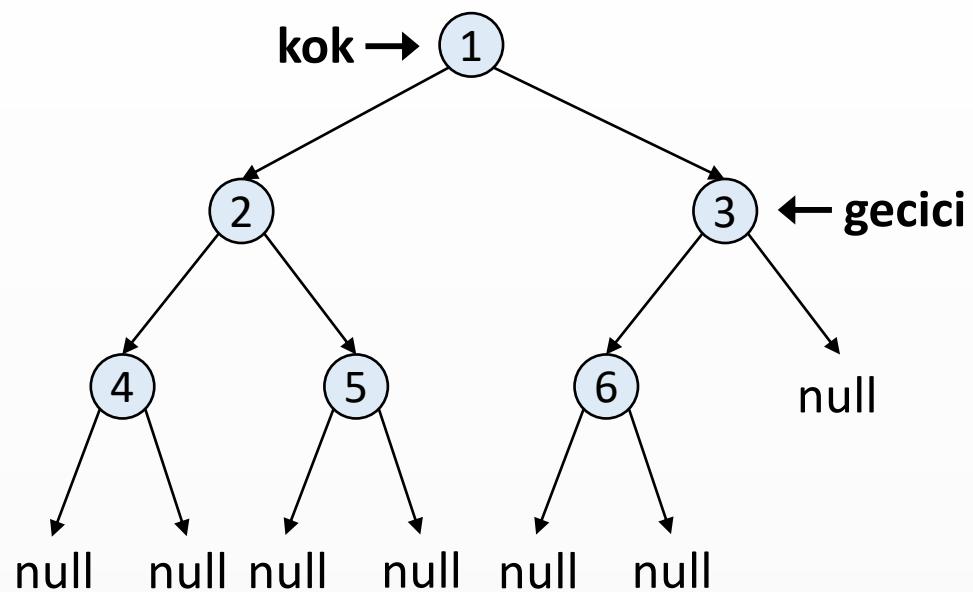
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
→ while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
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



Yığıt

Cıktı: 4 2 5 1

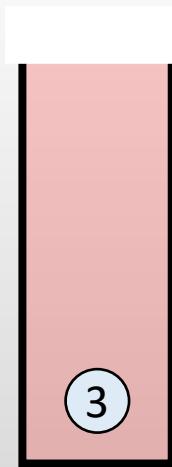
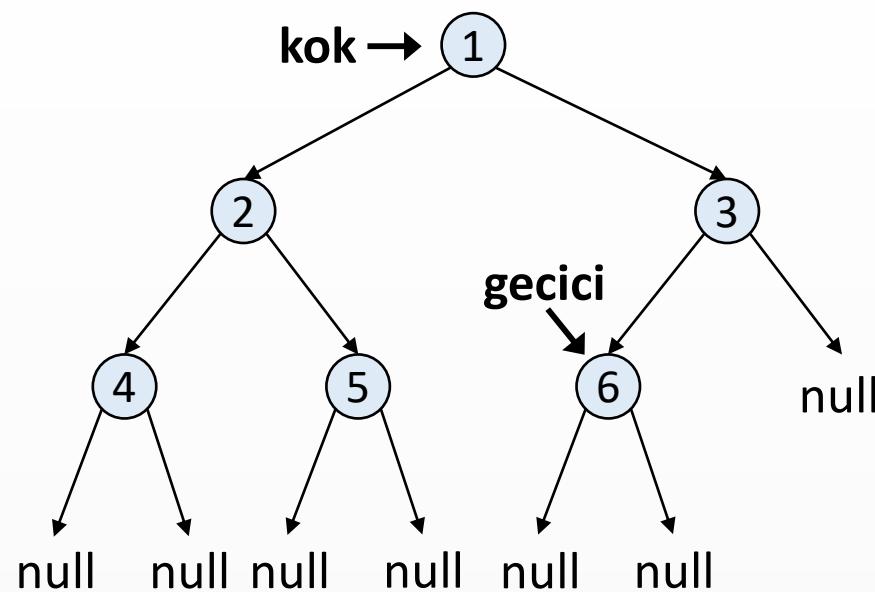
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Cıktı: 4 2 5 1

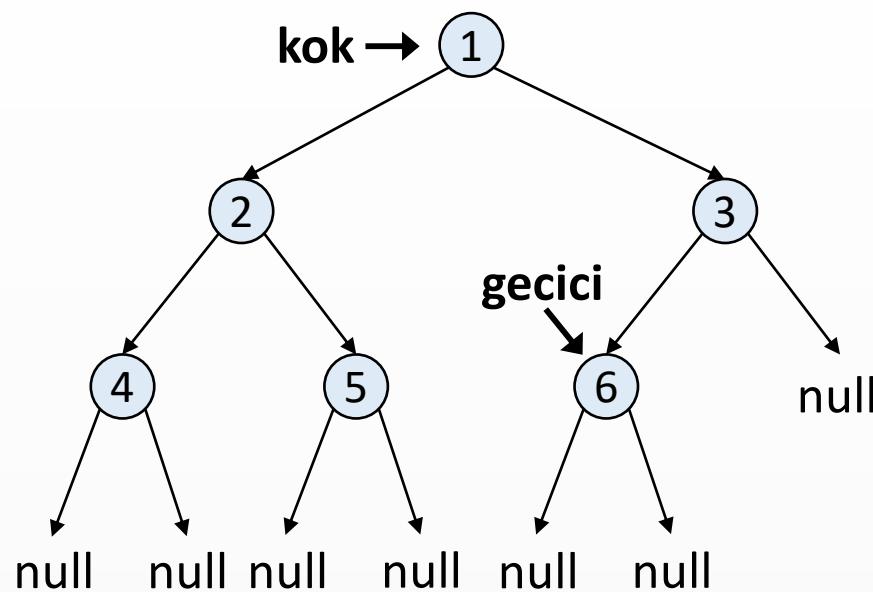
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
       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



Yığıt

Cıktı: 4 2 5 1

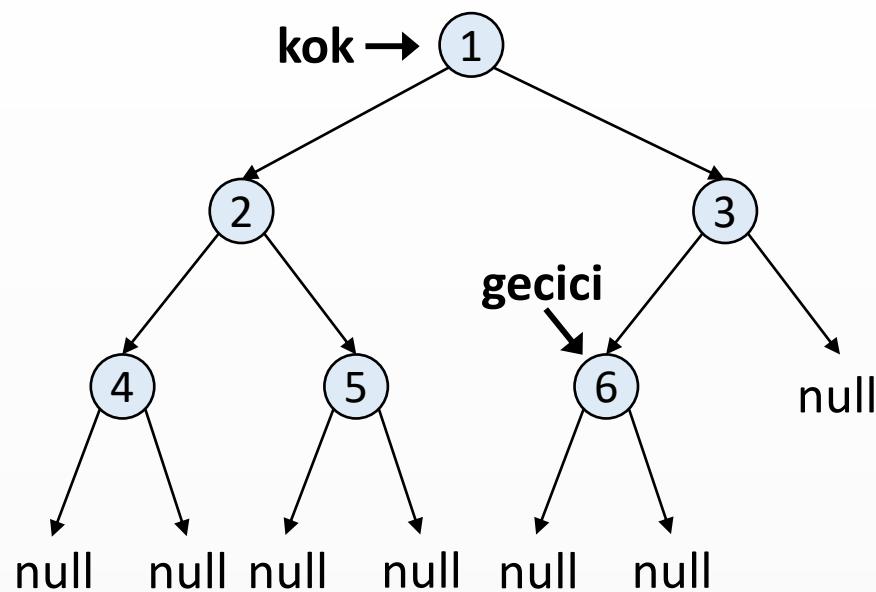
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Cıktı: 4 2 5 1

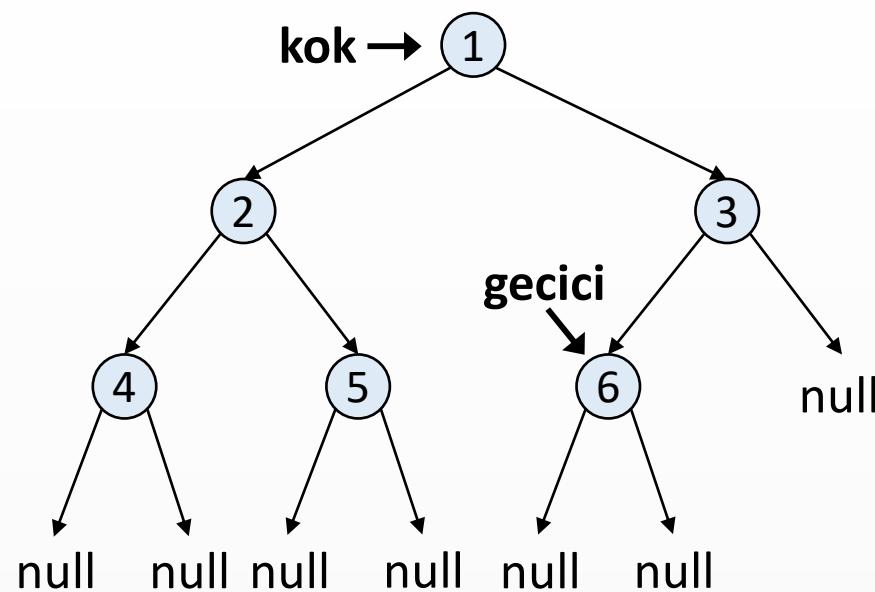
```
if(kok == null) {  
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    }  
    else {  
        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```

Yığıt



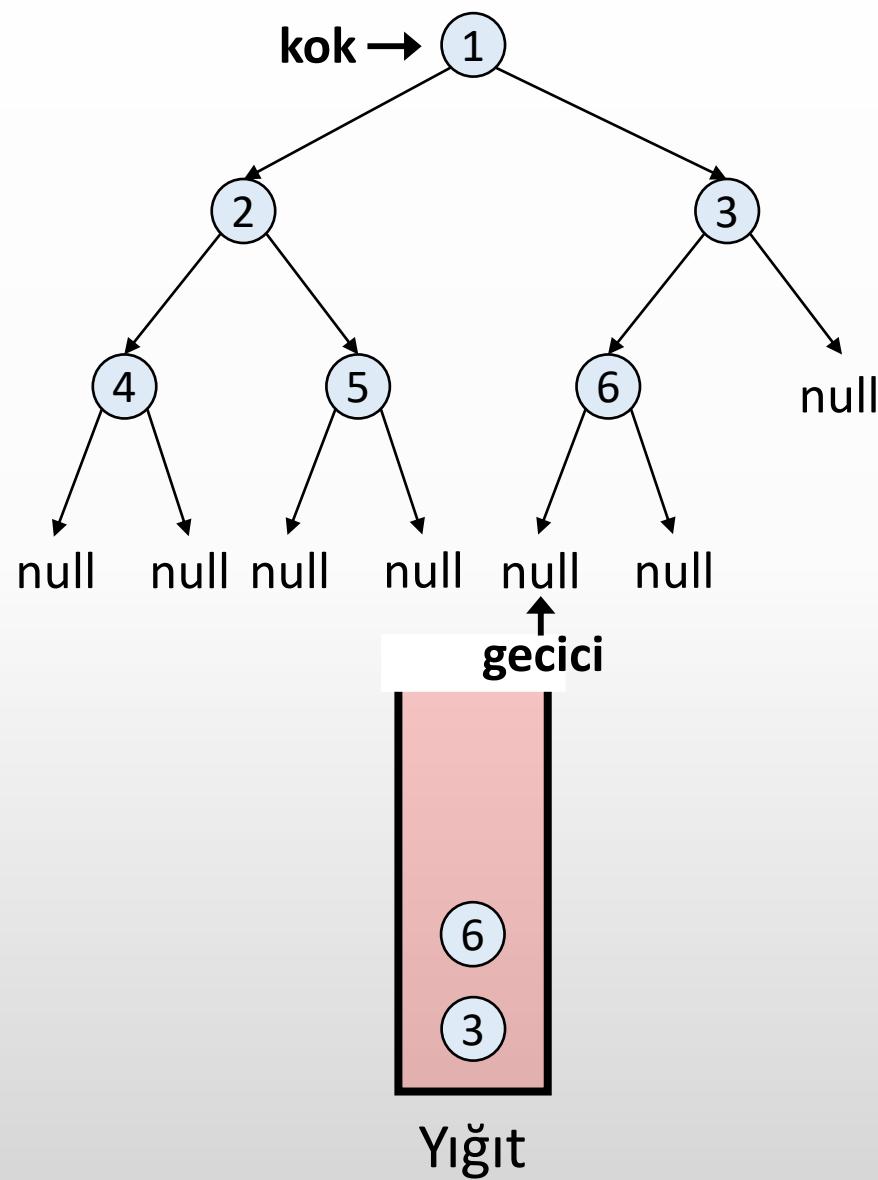
Cıktı: 4 2 5 1

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



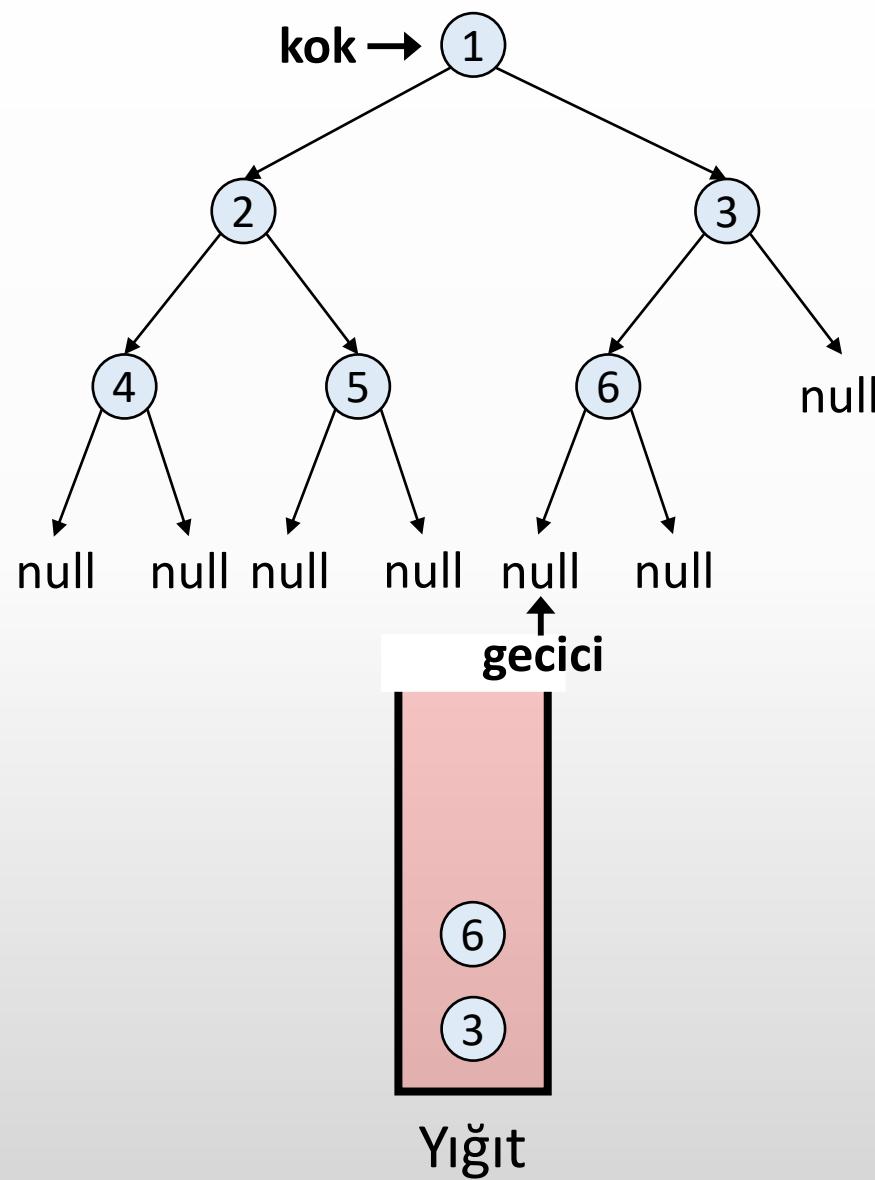
Çıktı: 4 2 5 1

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



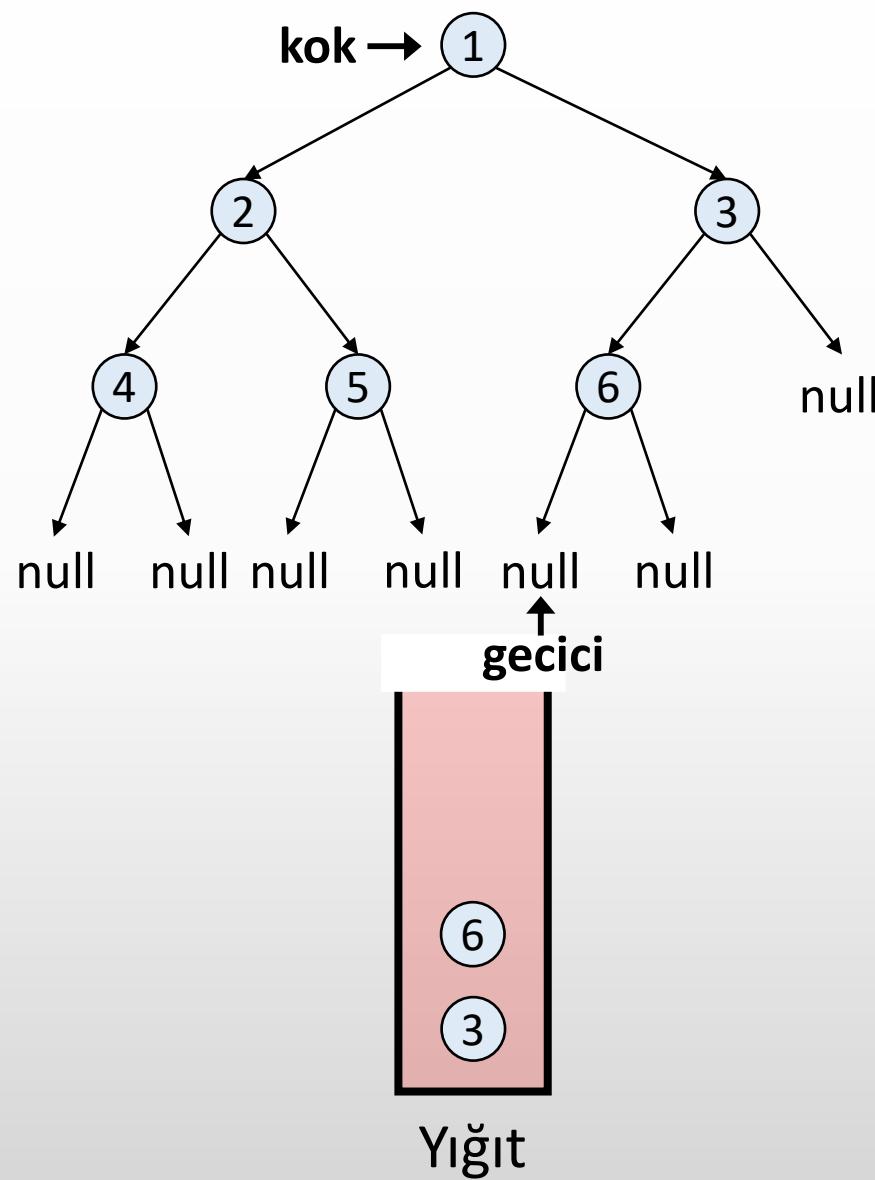
Çıktı: 4 2 5 1

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        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
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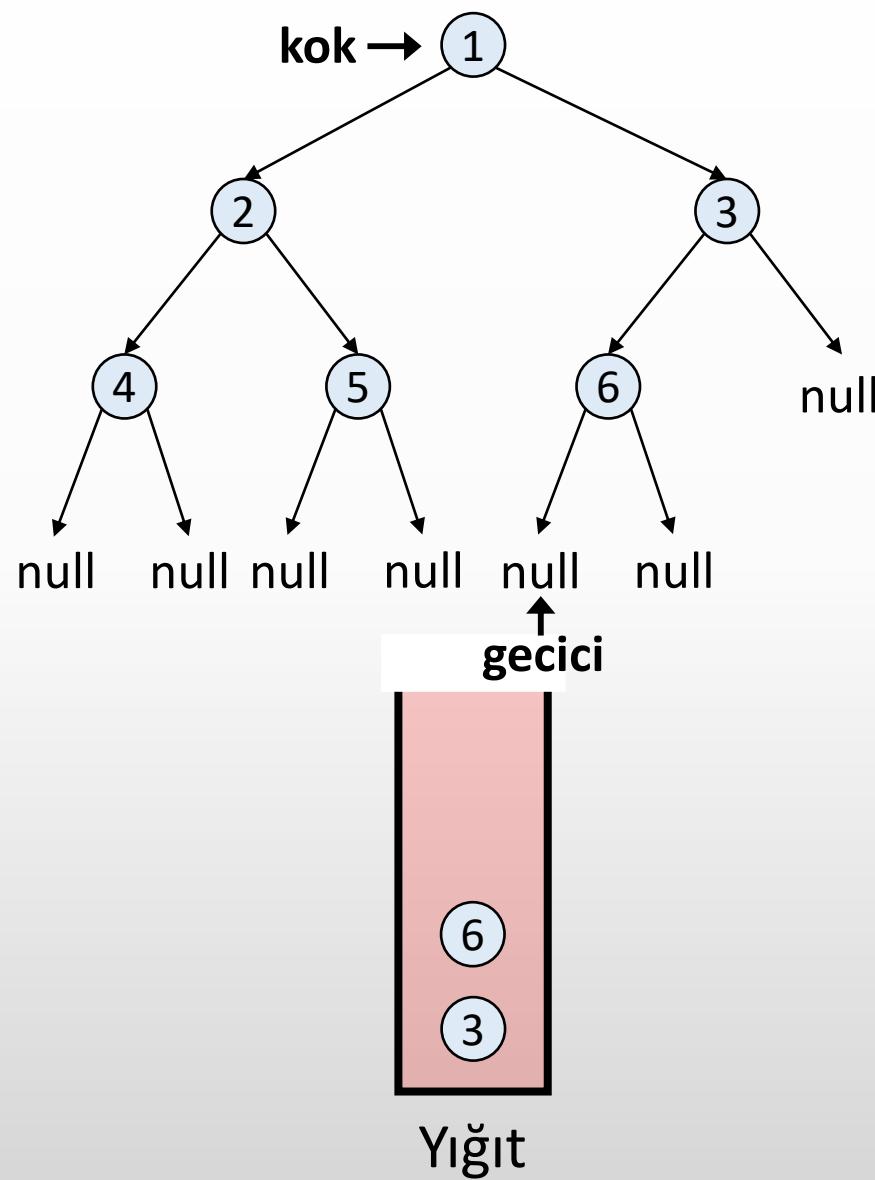
Çıktı: 4 2 5 1

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



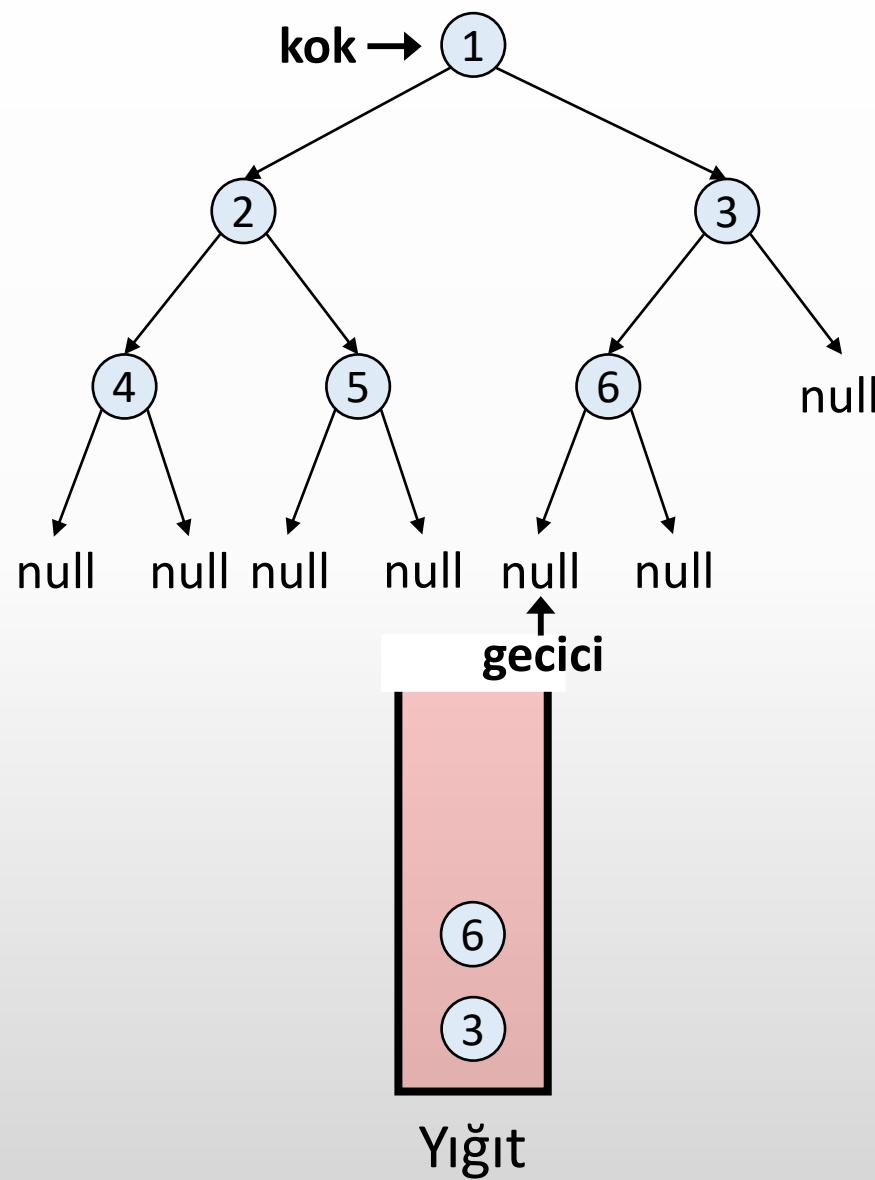
Çıktı: 4 2 5 1

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



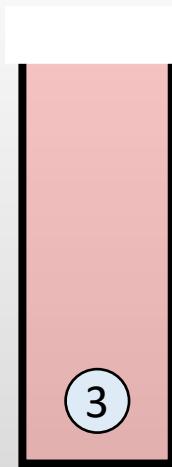
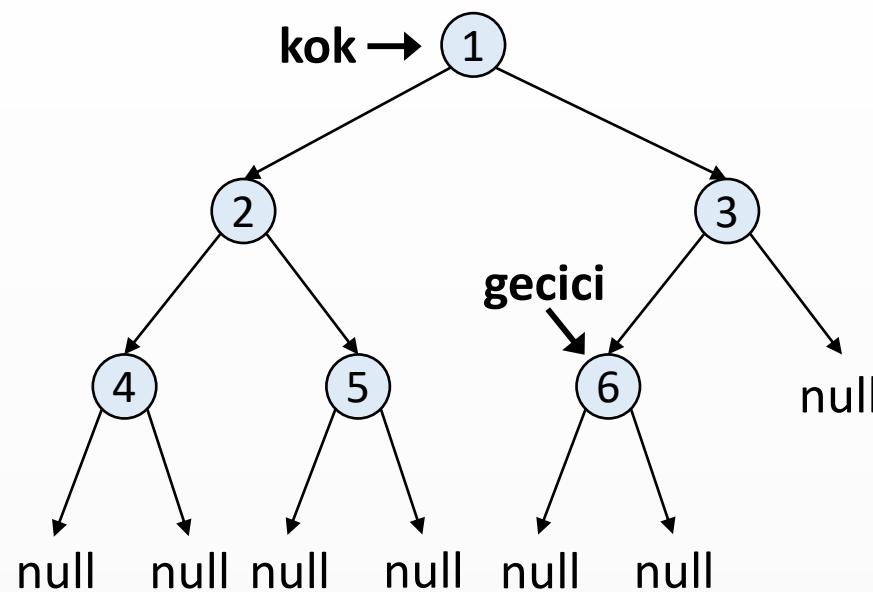
Çıktı: 4 2 5 1

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



Çıktı: 4 2 5 1

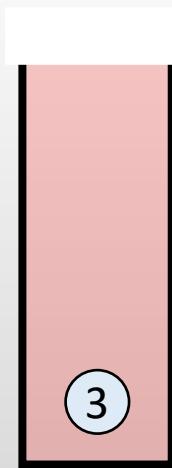
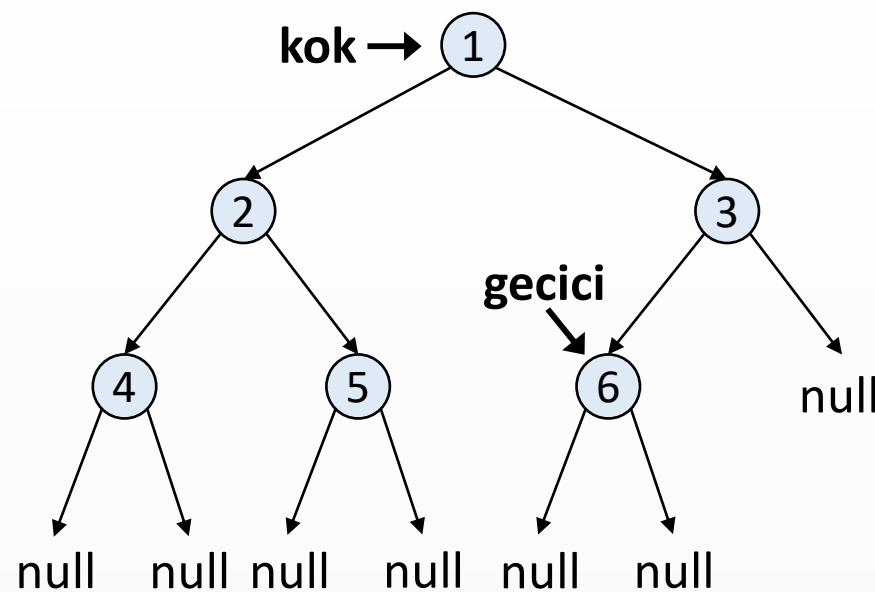
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty() || gecici != null) {  
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        gecici = gecici.sag;  
    }  
}
```



Yığıt

Cıktı: 4 2 5 1

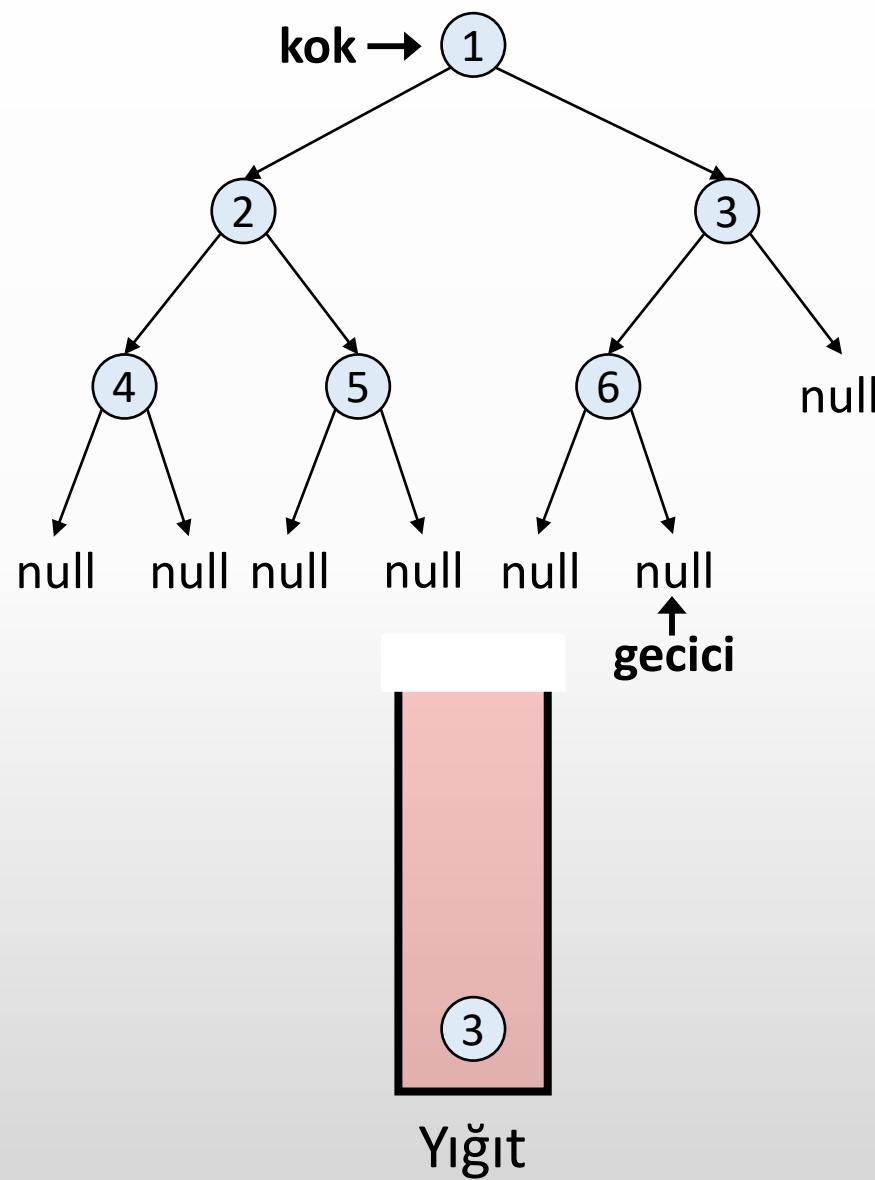
```
if(kok == null) {  
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AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();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



Yığıt

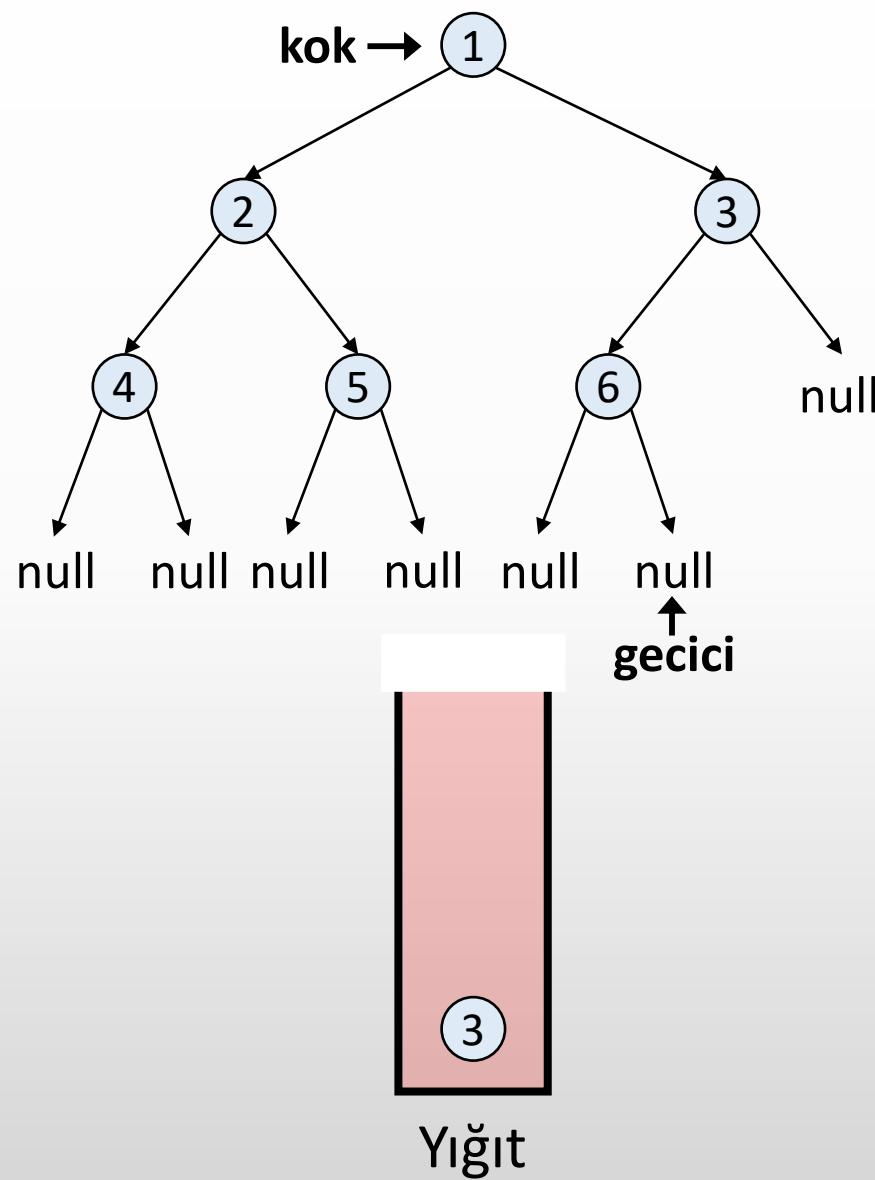
Çıktı: 4 2 5 1 6

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



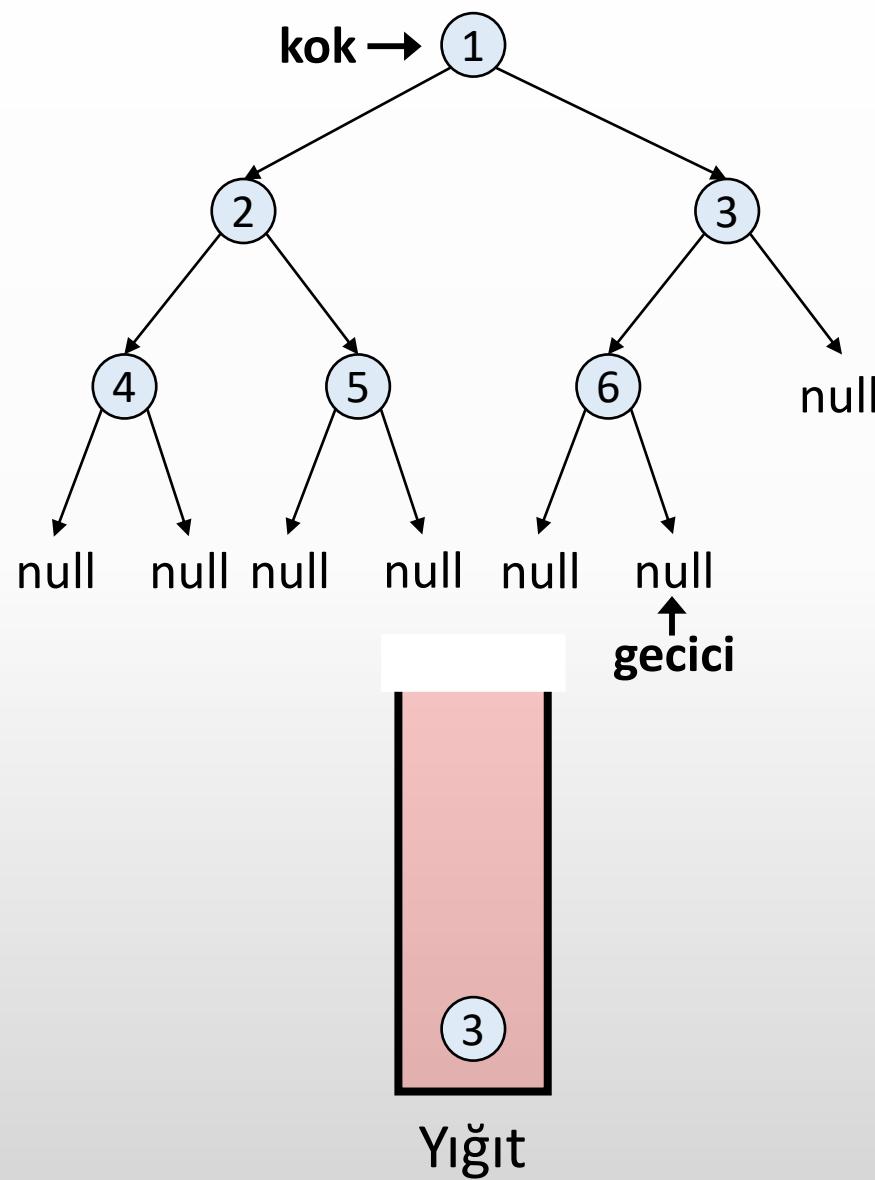
Çıktı: 4 2 5 1 6

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



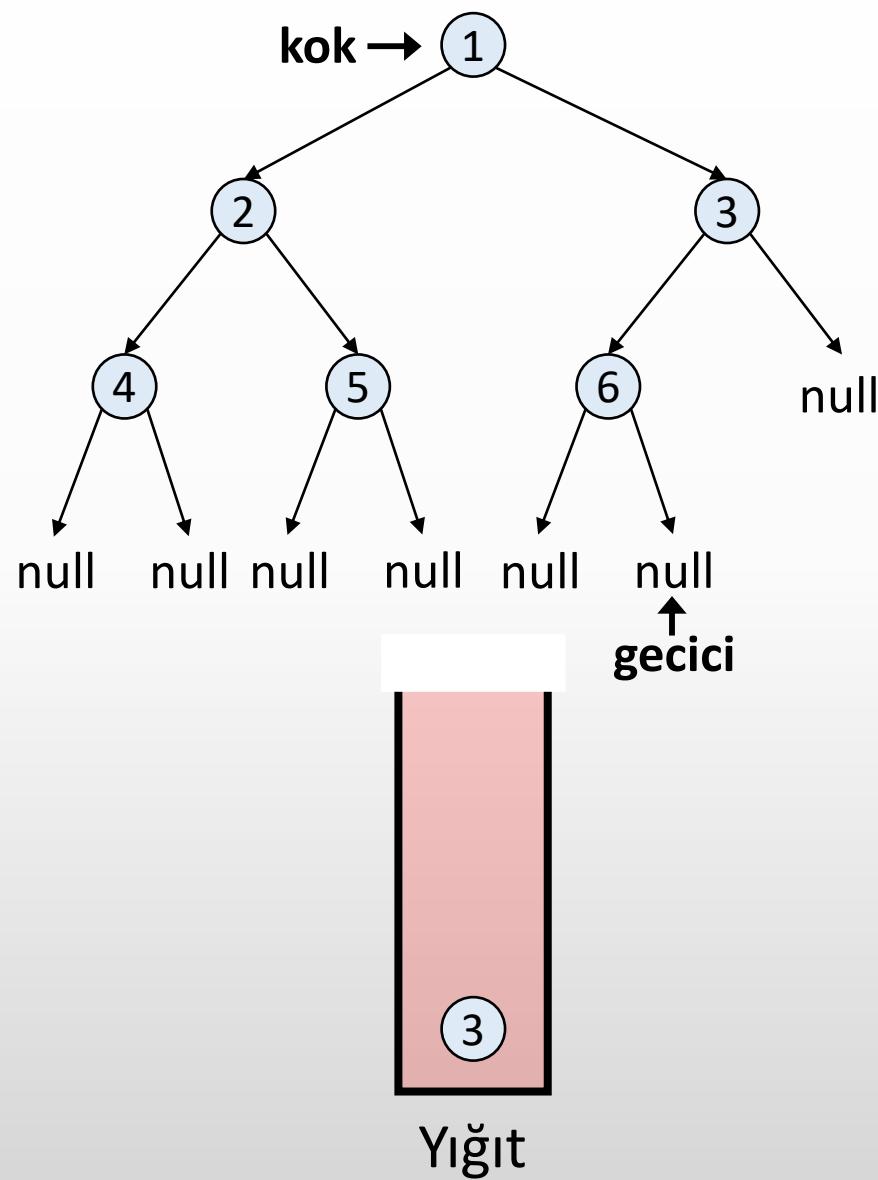
Çıktı: 4 2 5 1 6

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if(kok == null) {  
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}  
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AgacDugumu gecici = kok;  
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        gecici = yigit.pop();  
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        gecici = gecici.sag;  
    }  
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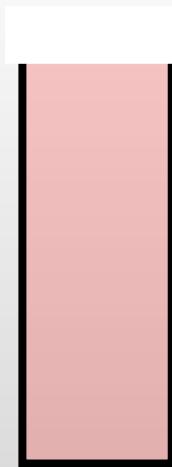
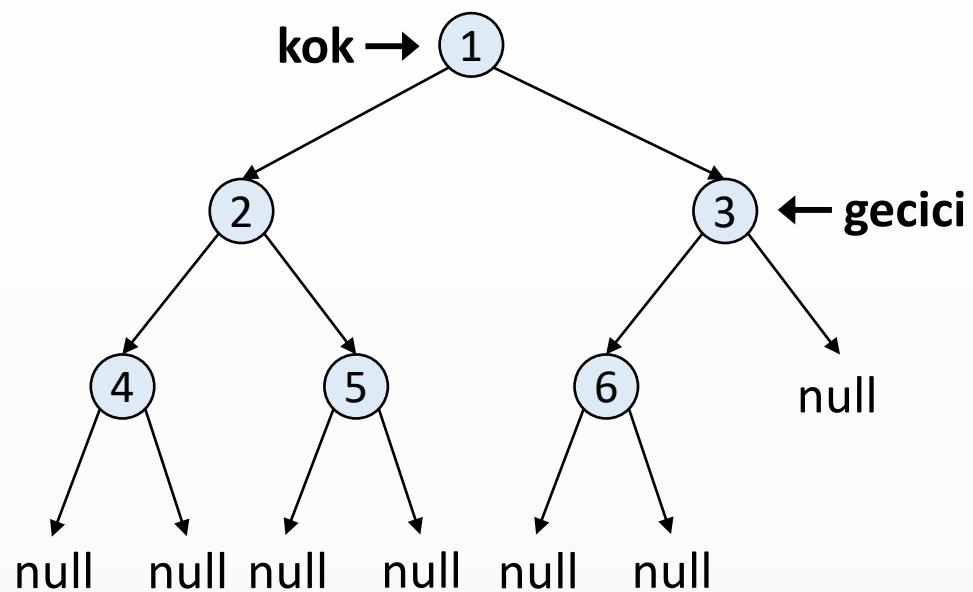
Çıktı: 4 2 5 1 6

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



Çıktı: 4 2 5 1 6

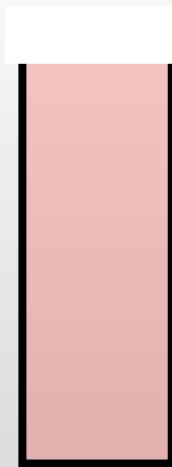
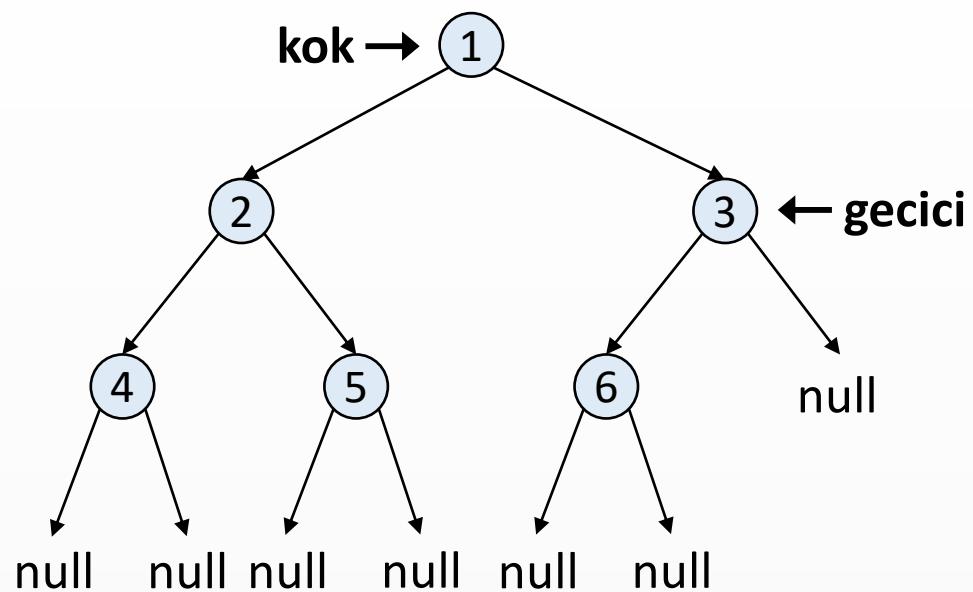
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        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
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```



Yığıt

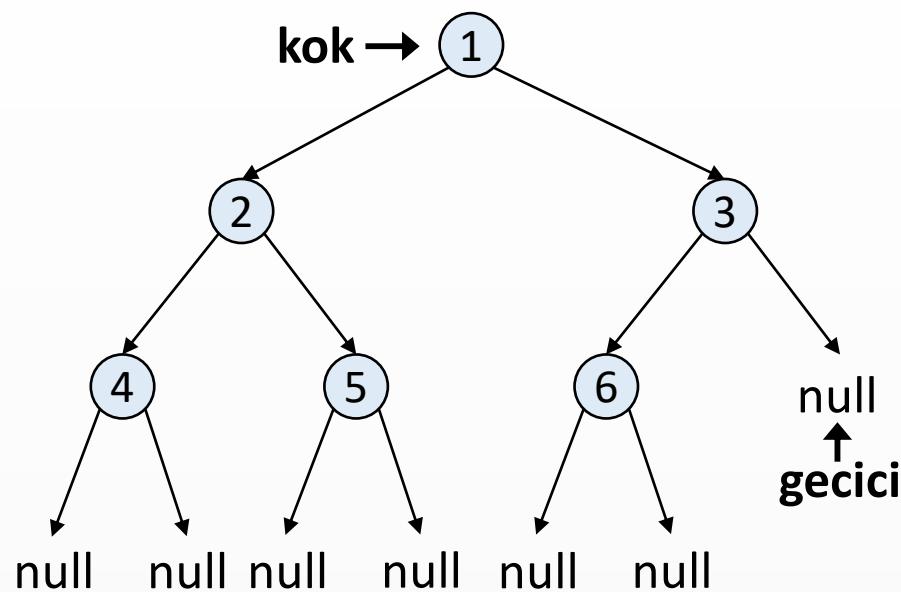
Çıktı: 4 2 5 1 6

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}  
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AgacDugumu gecici = kok;  
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        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



Çıktı: 4 2 5 1 6 3

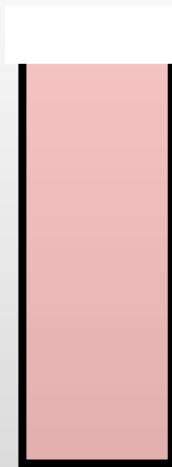
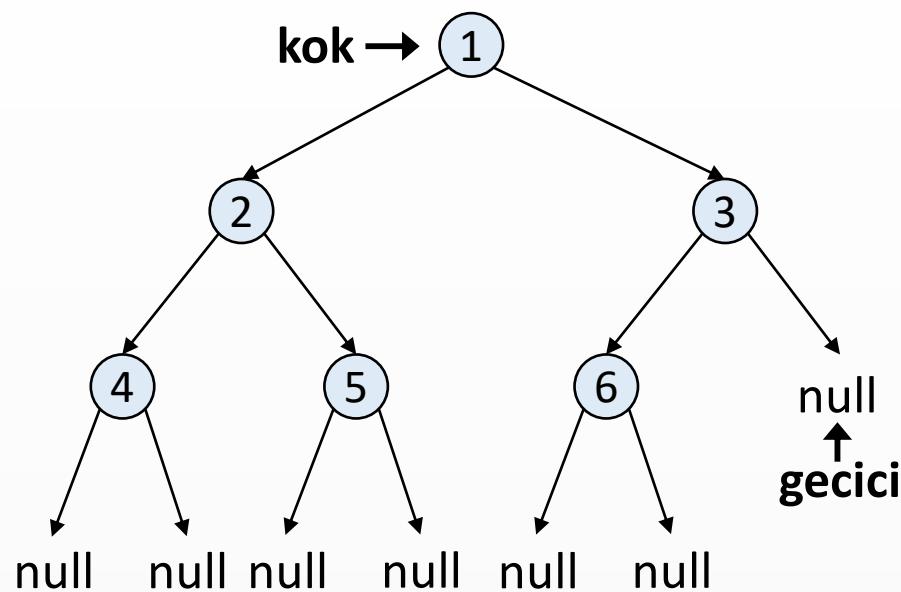
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    if(gecici != null) {  
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        gecici = gecici.sol;  
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    else {  
        gecici = yigit.pop();  
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        gecici = gecici.sag;  
    }  
}
```



Yığıt

Cıktı: 4 2 5 1 6 3

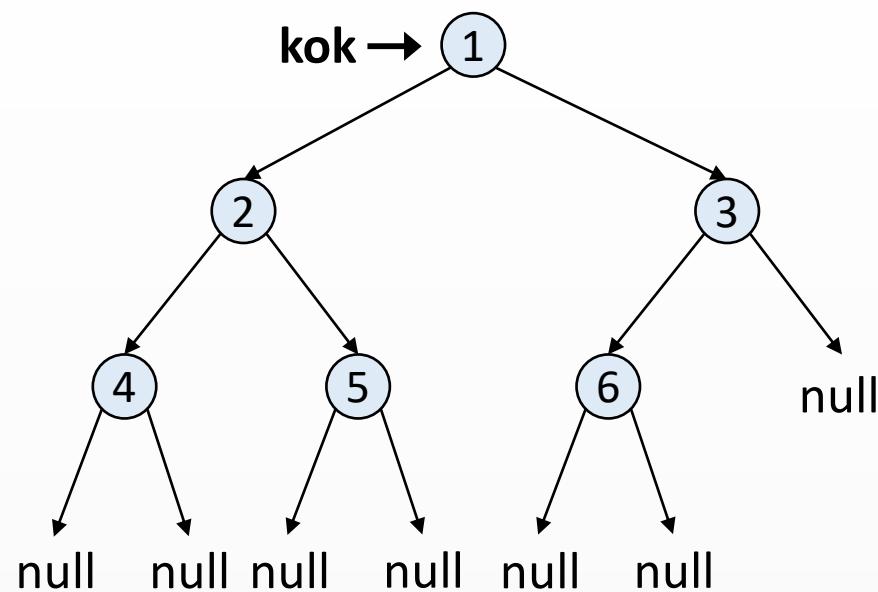
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if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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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

Çıktı: 4 2 5 1 6 3

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```



Çıktı: 4 2 5 1 6 3



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

```

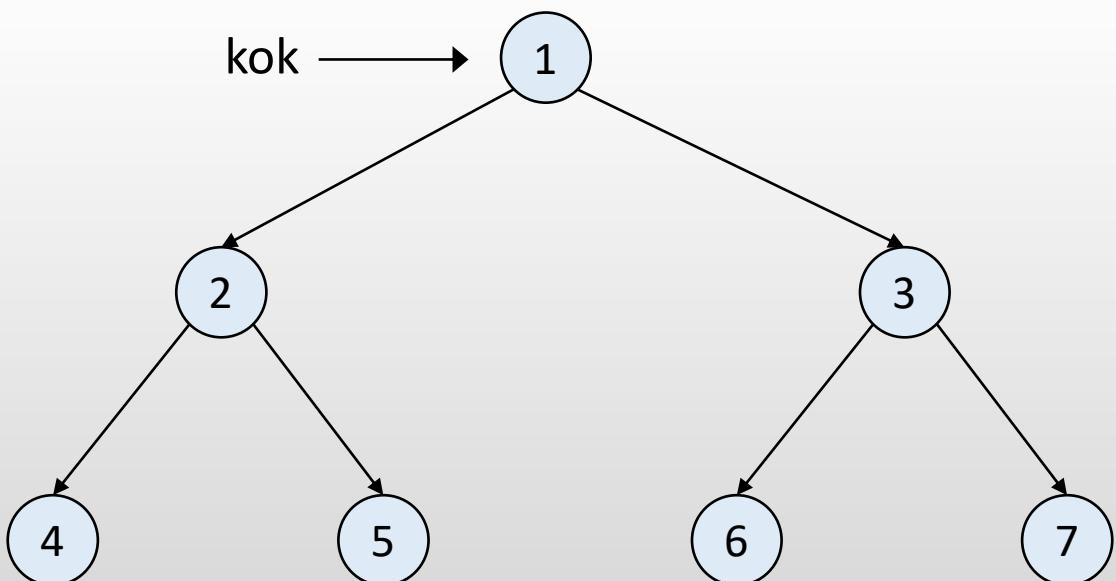
Kök Sonda (Postorder) Dolaşımı





Kök Sonda (Postorder) Dolaşımı

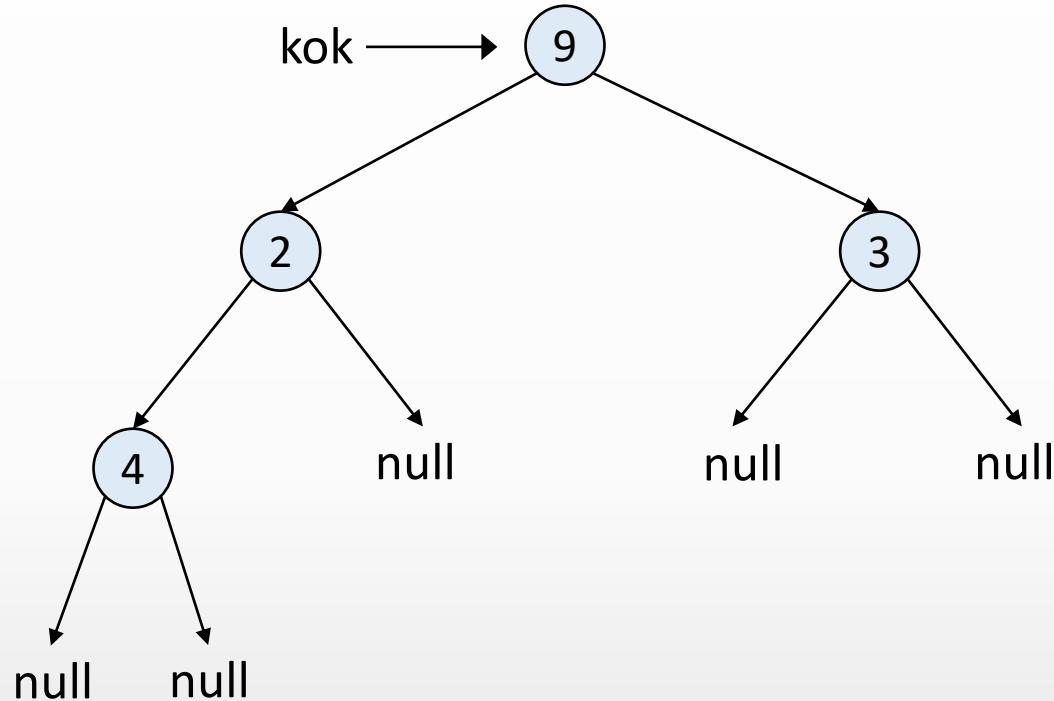
- Kök sonda olacak şekilde sol alt ağacı dolaş.
- Kök sonda olacak şekilde sağ alt ağacı dolaş.
- Kök düğümü ziyaret et.



Kök sonda dolaşımı: 4 5 2 6 7 3 1



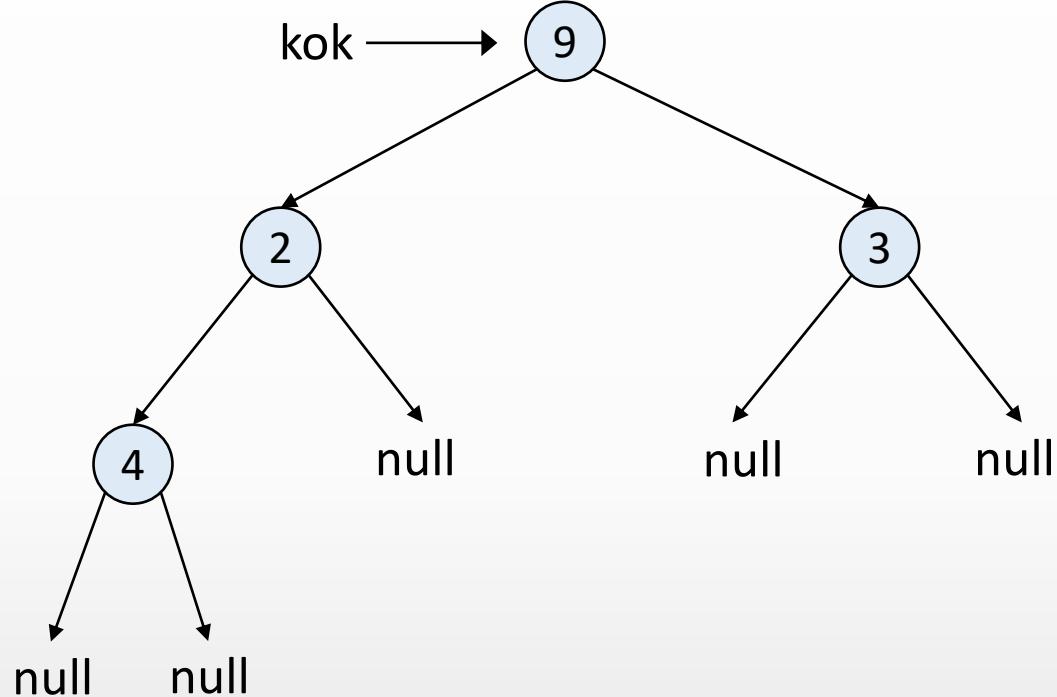
Çağırma Yığıtı (Call Stack)



Çıktı:

Metot Çağrımı	Satır Numarası	Kök

```
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 Çağrımı	Satır Numarası	Kök
kokSonda()		9

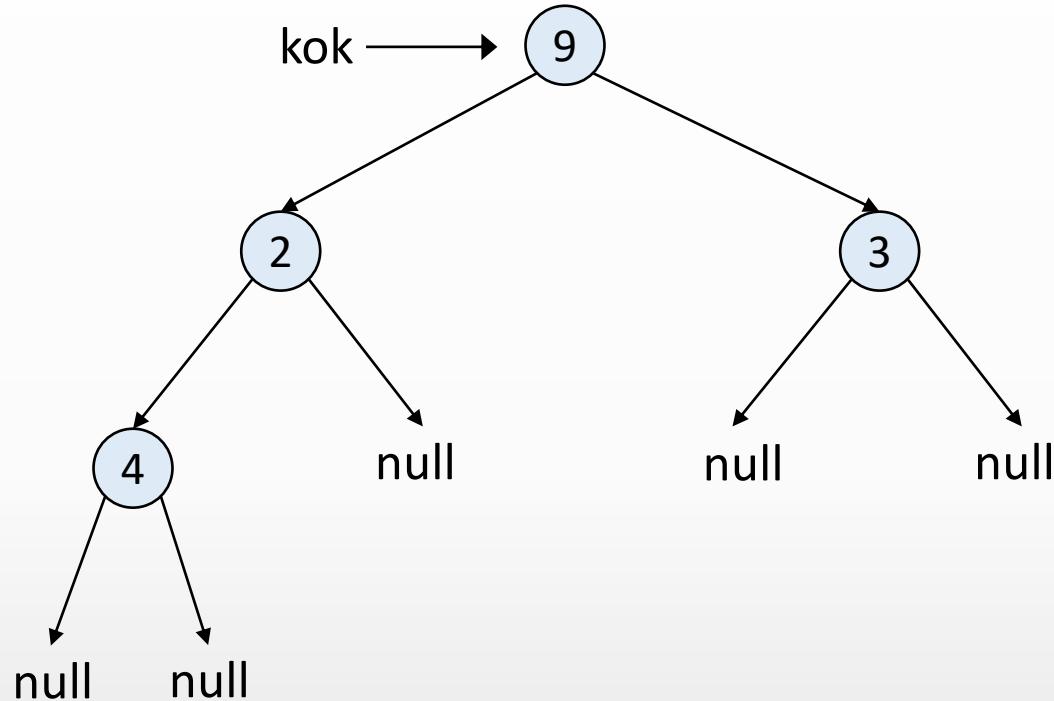
Çıktı:

→

```
1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
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Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
kokSonda()		9

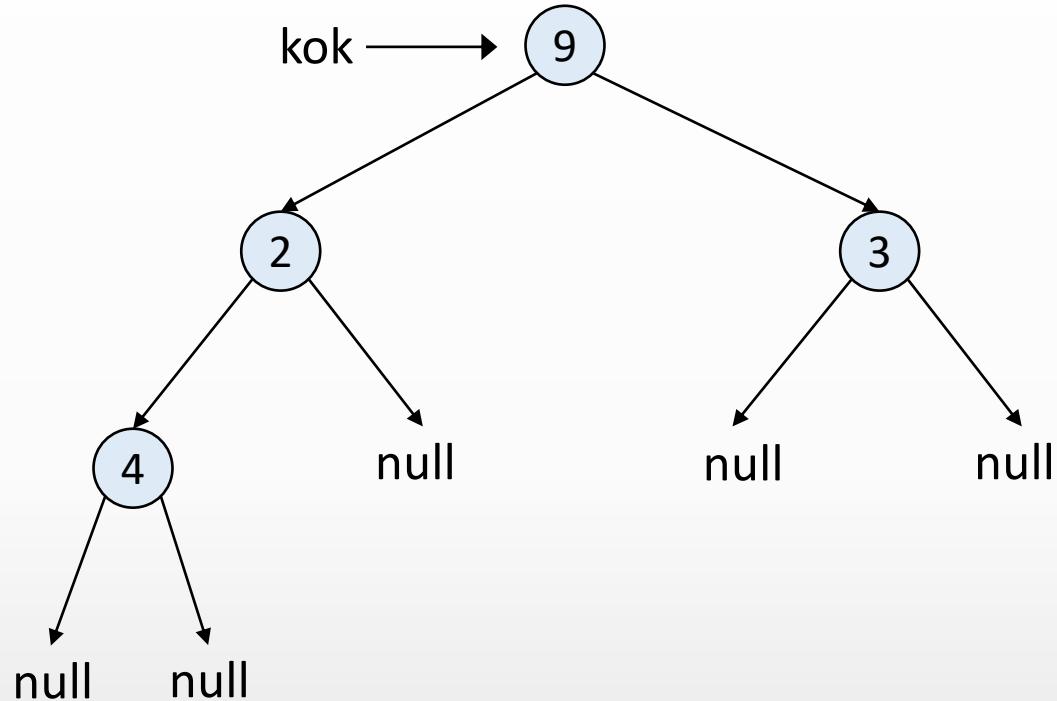
→

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

Çıktı:



Çağırma Yığıtı (Call Stack)



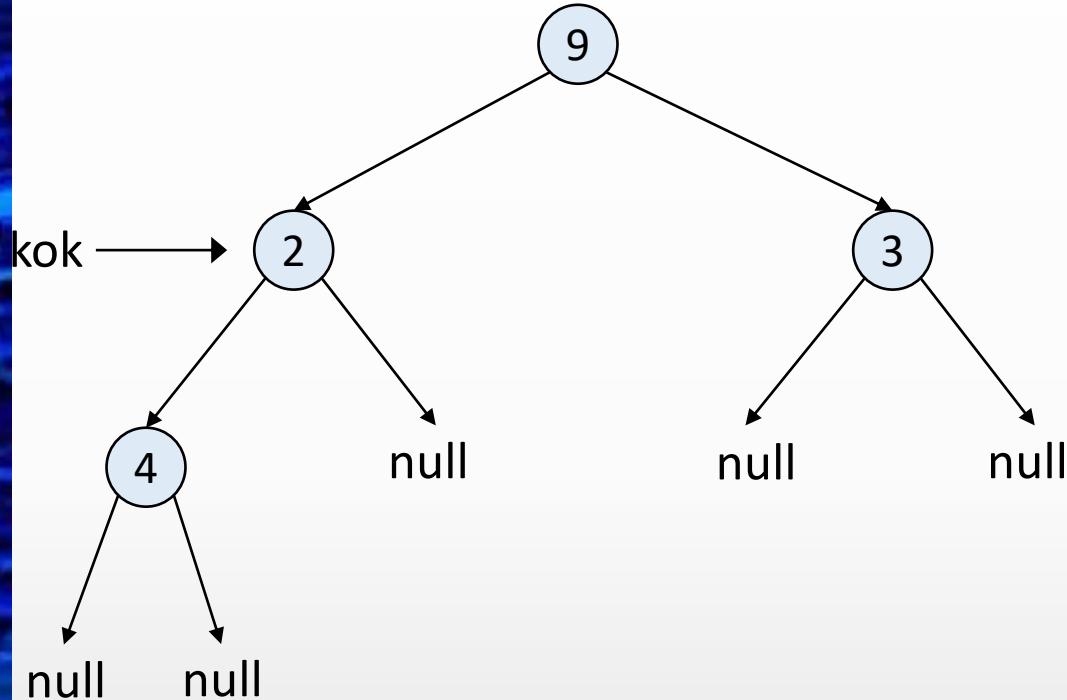
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9

Çıktı:

```
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 Yığıtı (Call Stack)



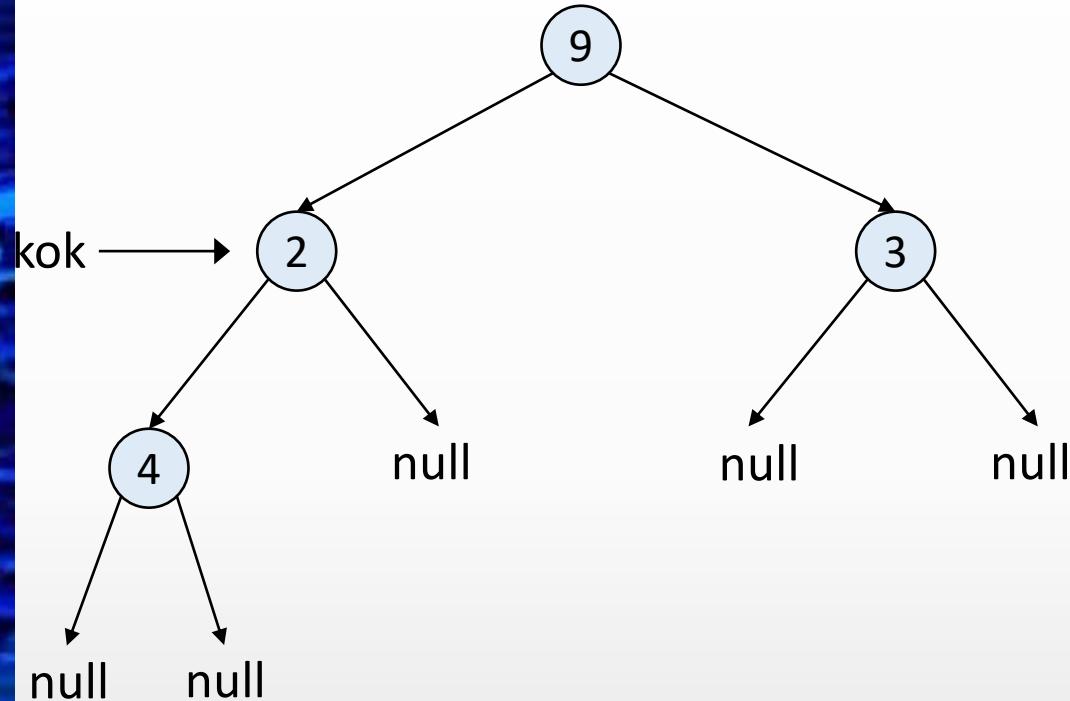
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()		2

Çıktı:

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



Çağırma Yığıtı (Call Stack)



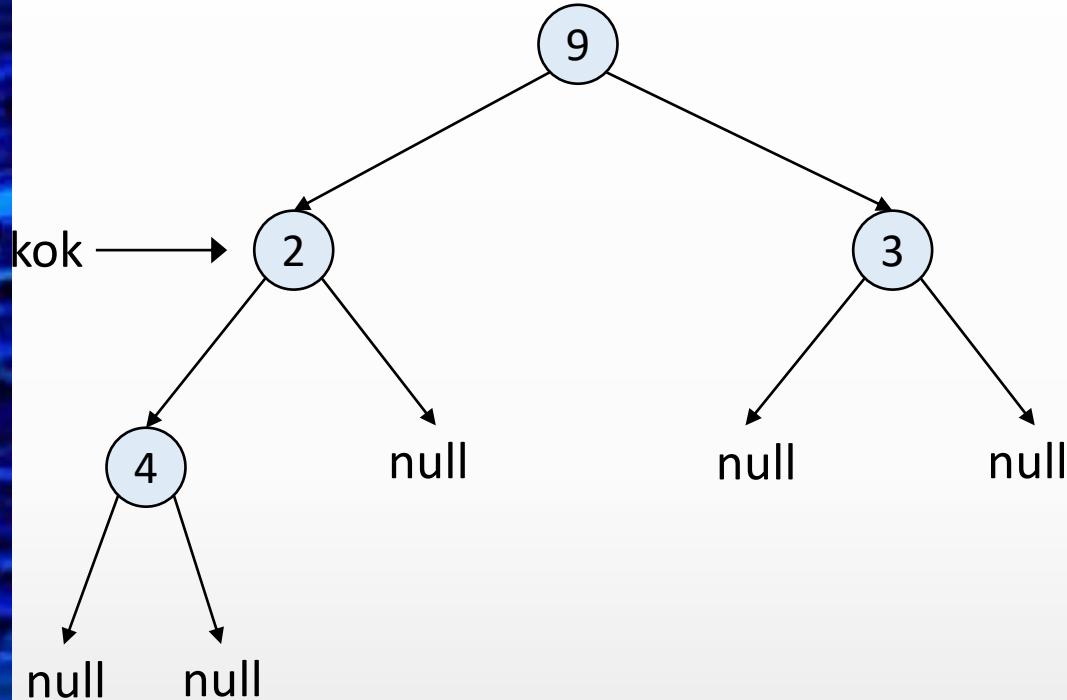
Çıktı:

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



Çağırma Yığıtı (Call Stack)



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

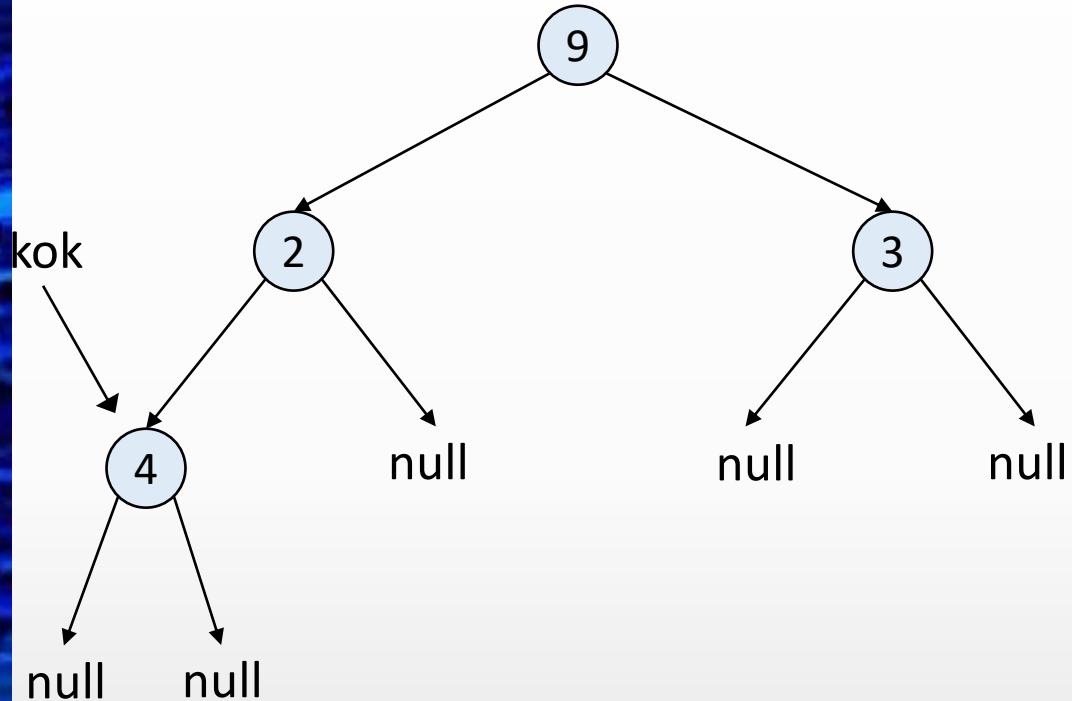
Çıktı:



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Çağırma Yığıtı (Call Stack)



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

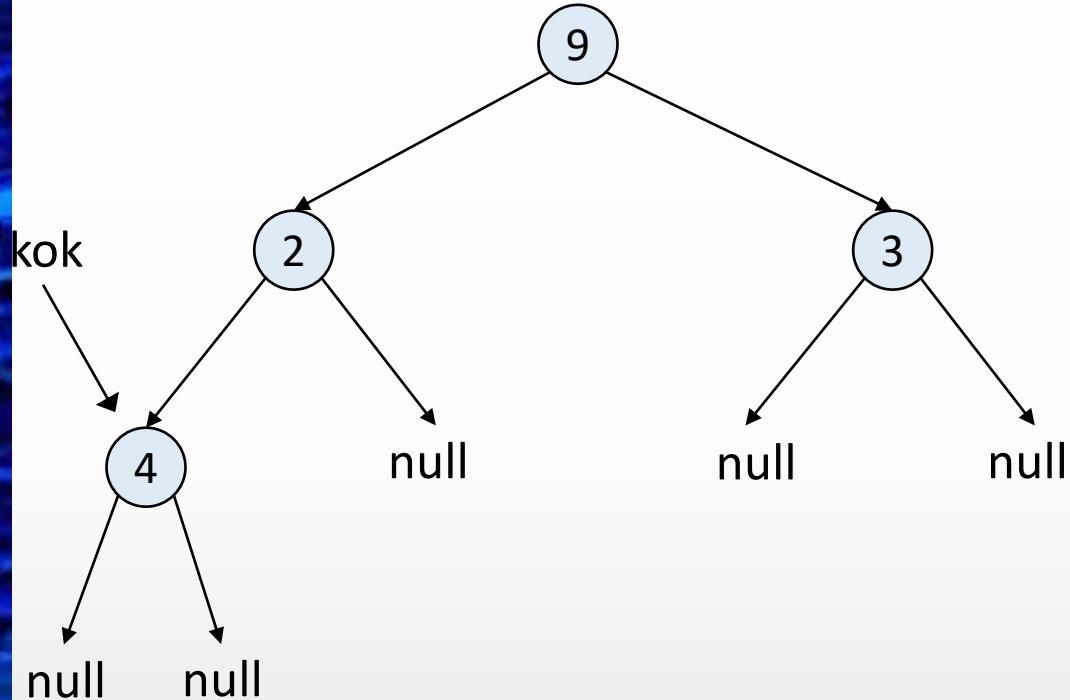


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Çağırma Yığıtı (Call Stack)



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

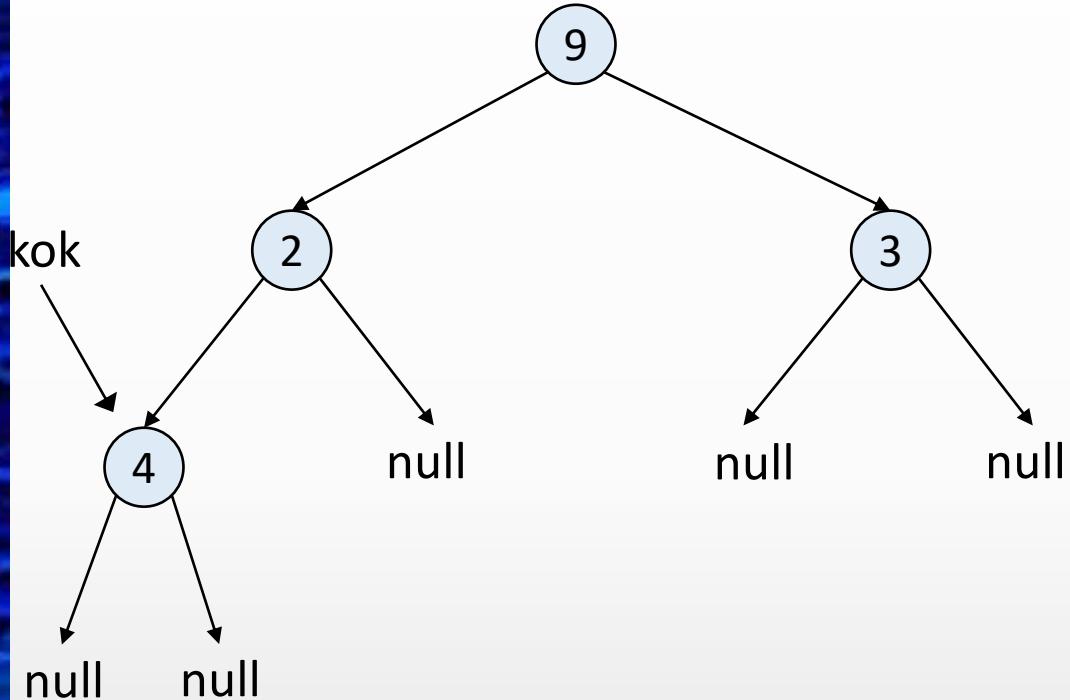


Çıktı:

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



Çıktı:



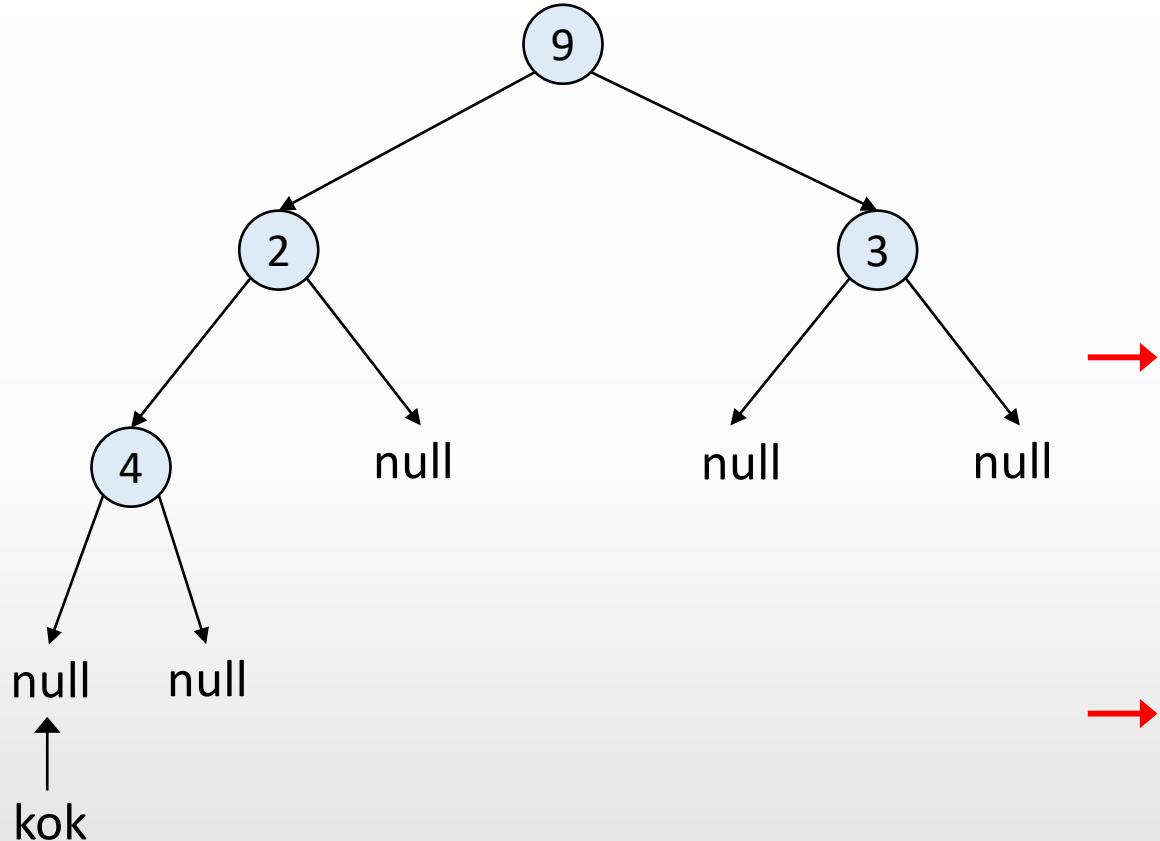
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4



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Çağırma Yığıtı (Call Stack)



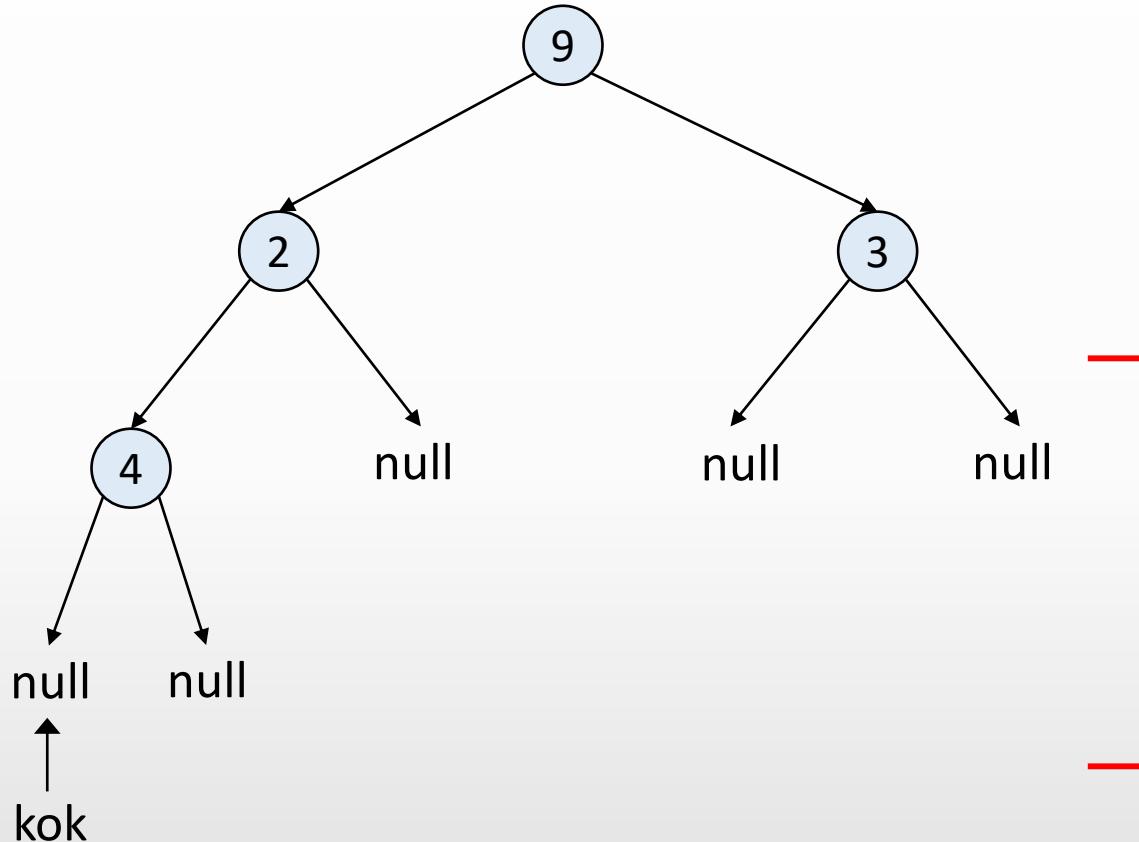
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4
kokSonda()		null

→

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Çağırma Yığıtı (Call Stack)

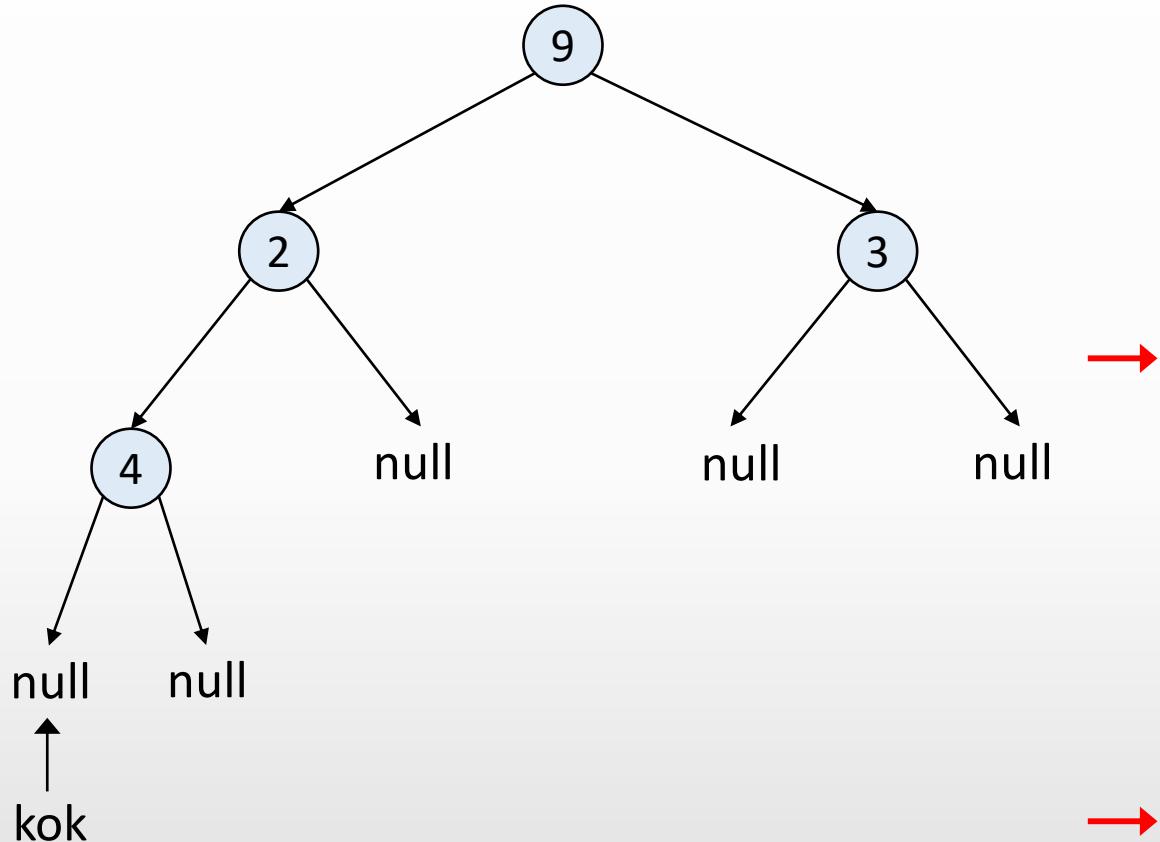


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4
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Çağırma Yığıtı (Call Stack)

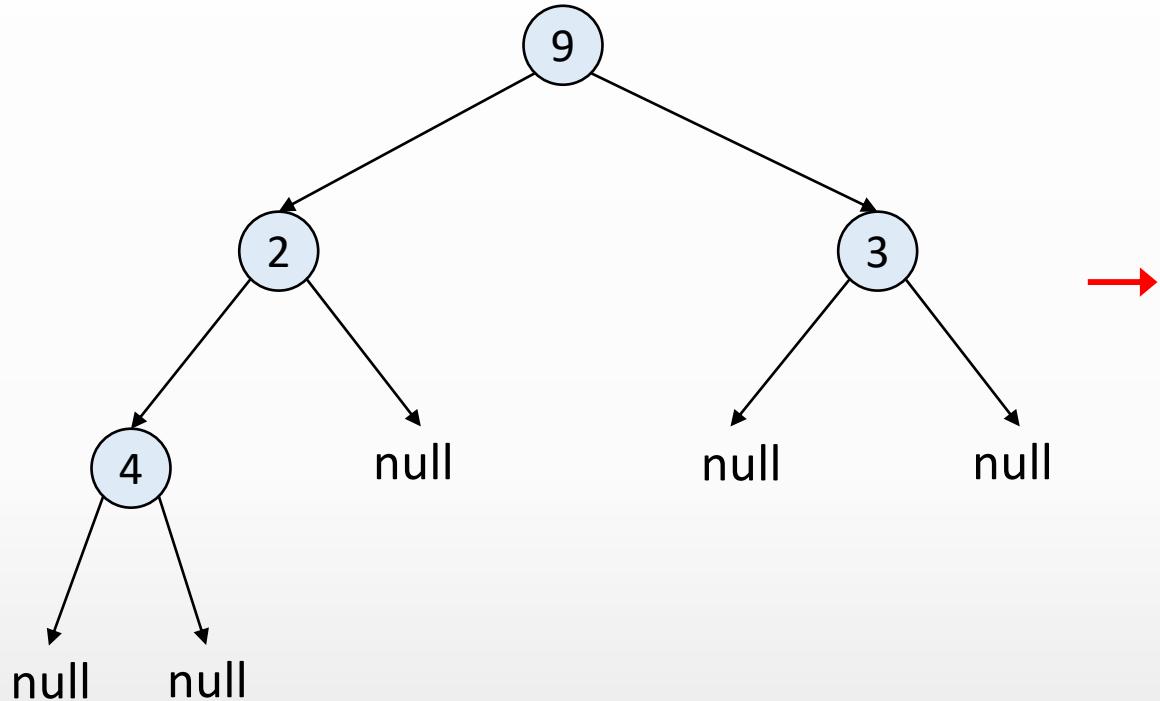


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
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Çağırma Yığıtı (Call Stack)



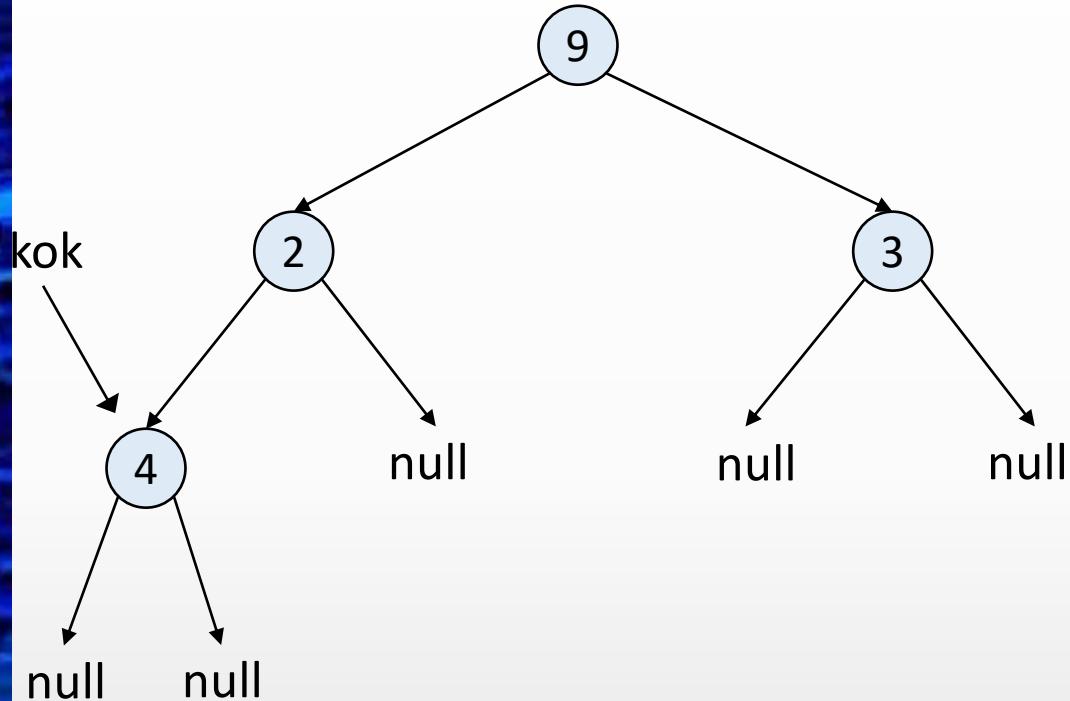
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
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Çıktı:

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Çağırma Yığıtı (Call Stack)



Çıktı:



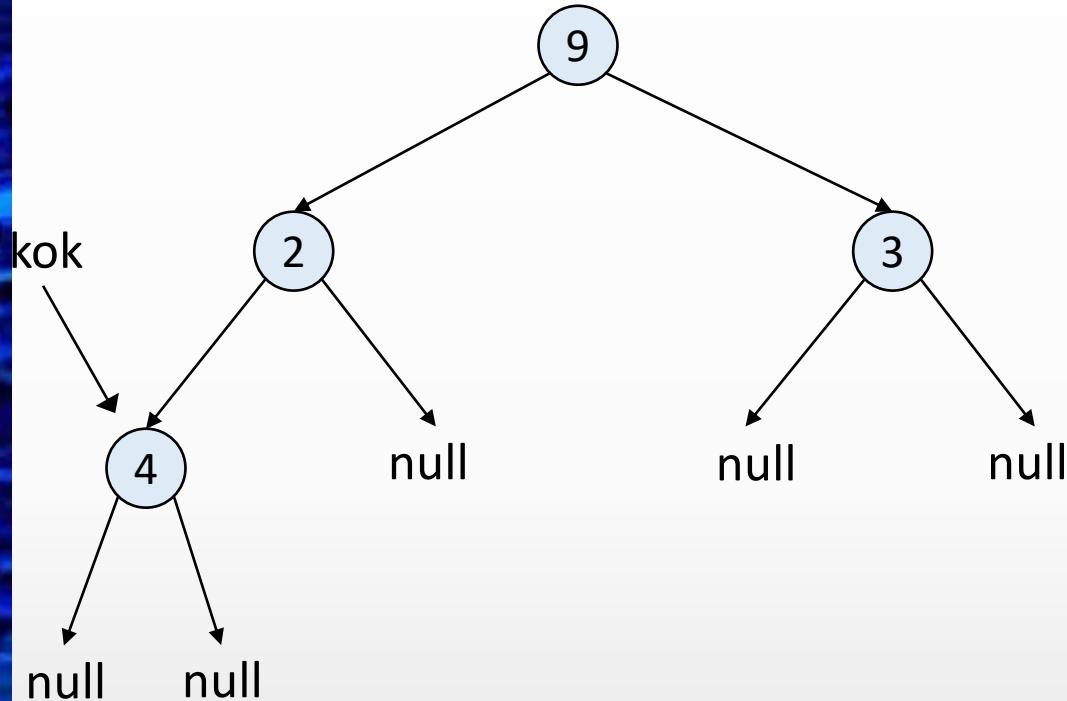
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
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Çağırma Yığıtı (Call Stack)



Çıktı:



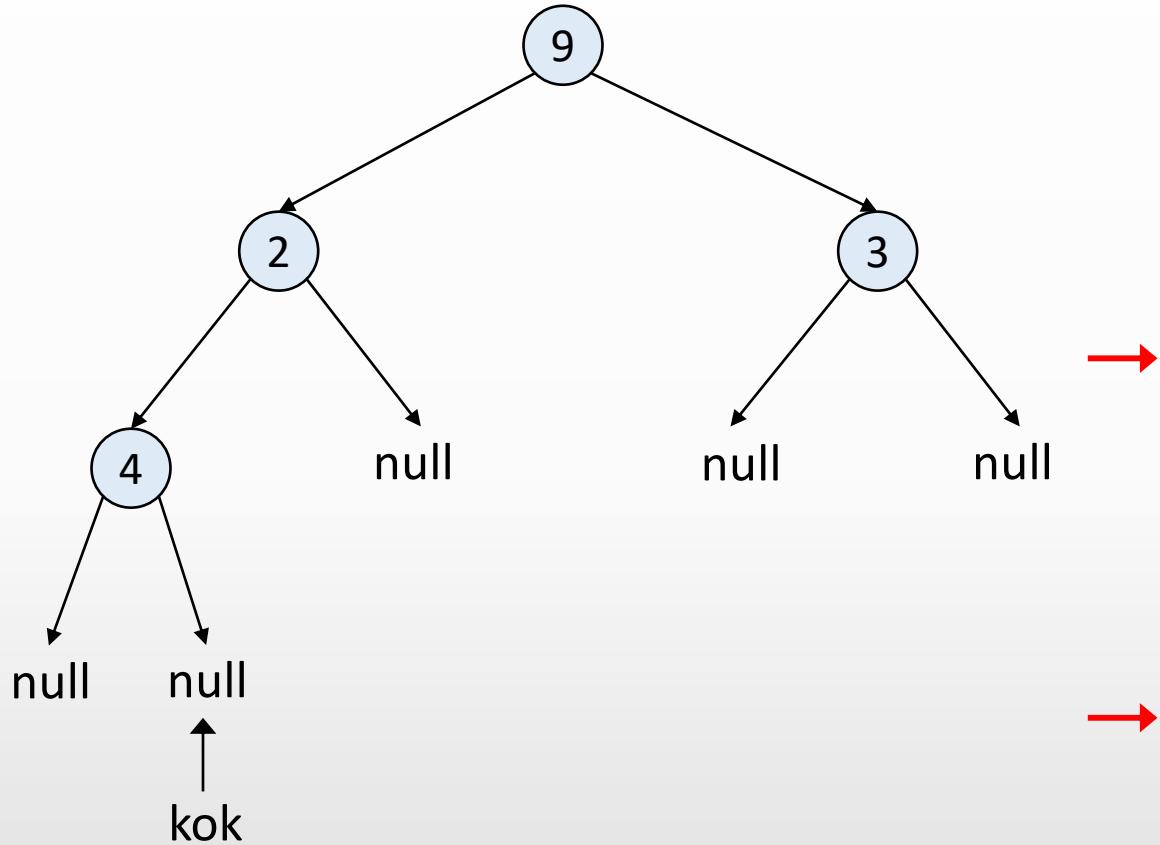
Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



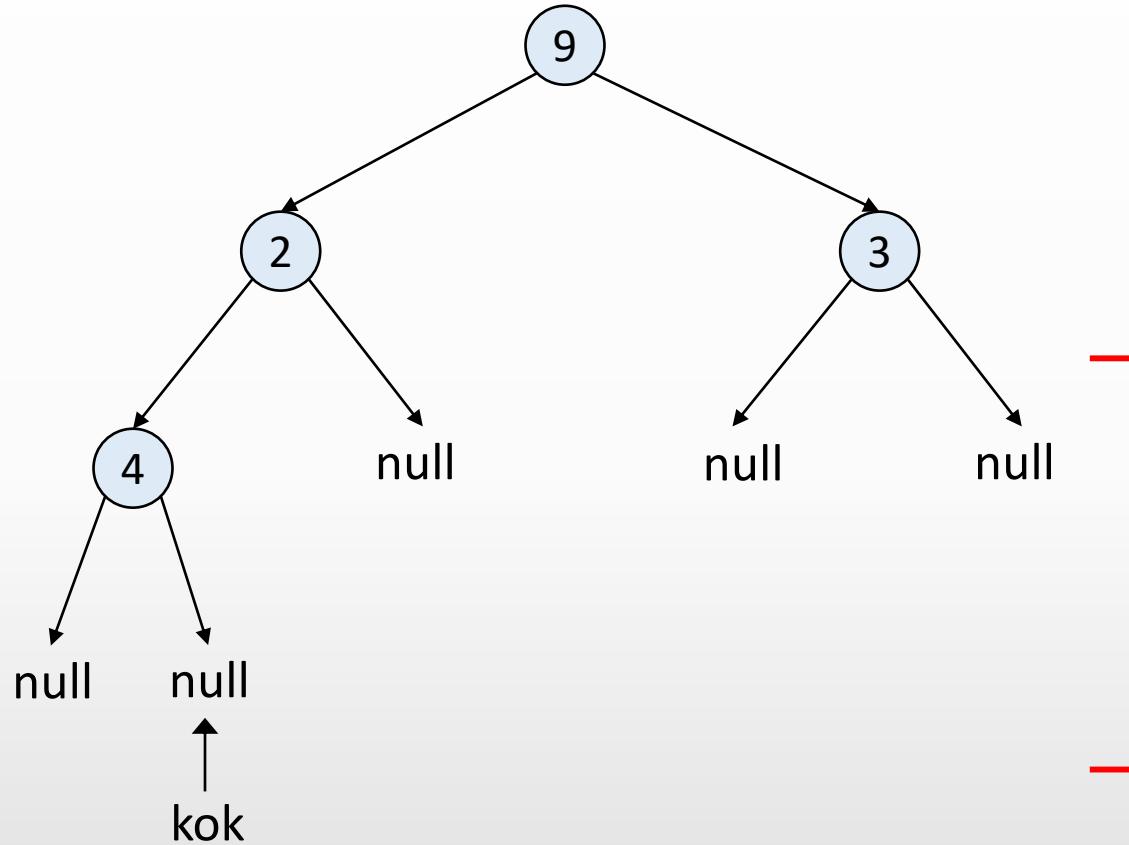
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Metot Çağrımı	Satır Numarası	Kök
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kokSonda()	5	2
kokSonda()	6	4
kokSonda()		null



Çağırma Yığıtı (Call Stack)



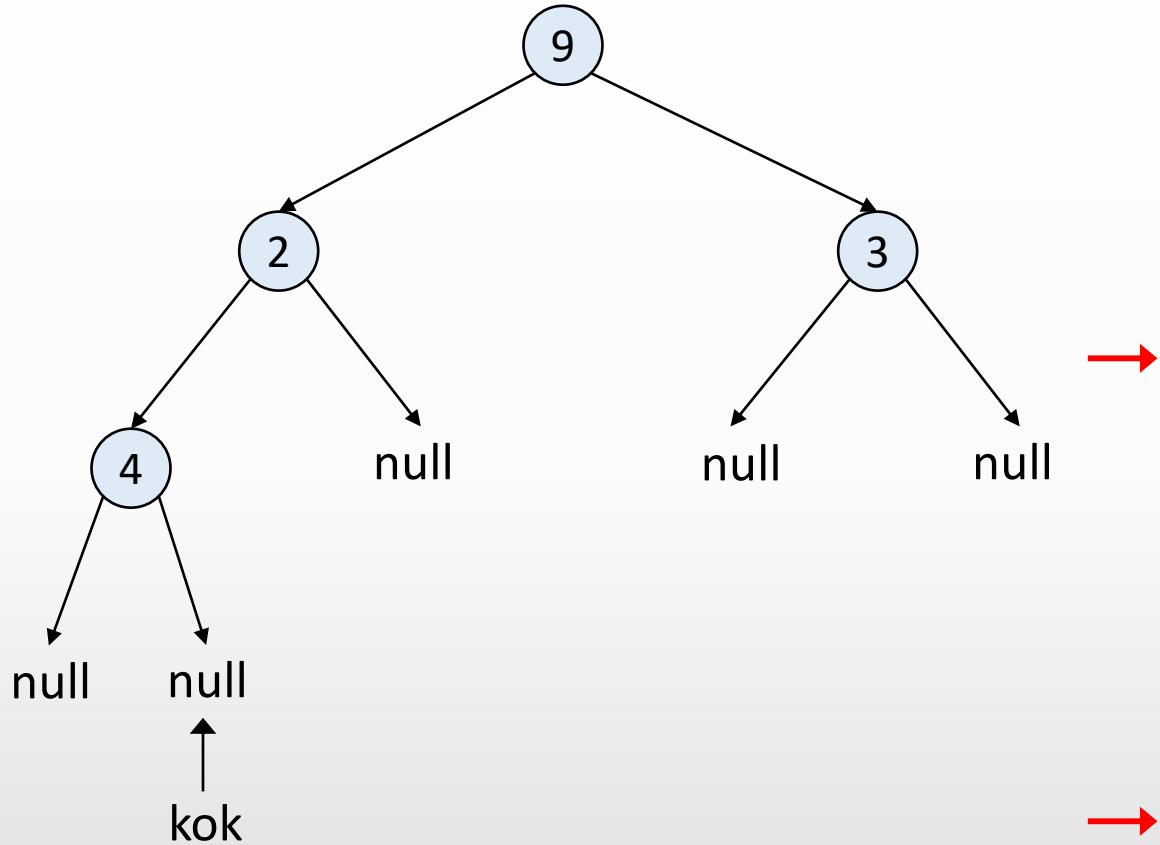
Çıktı:

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
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Çağırma Yığıtı (Call Stack)



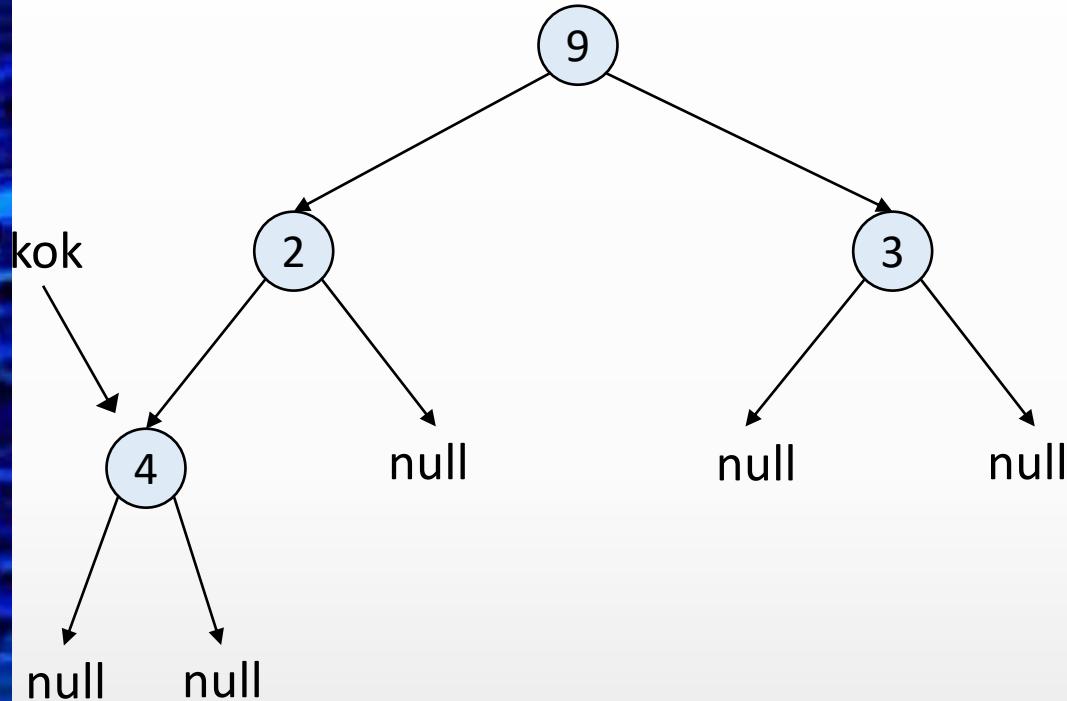
Çıktı:

Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



Çıktı:



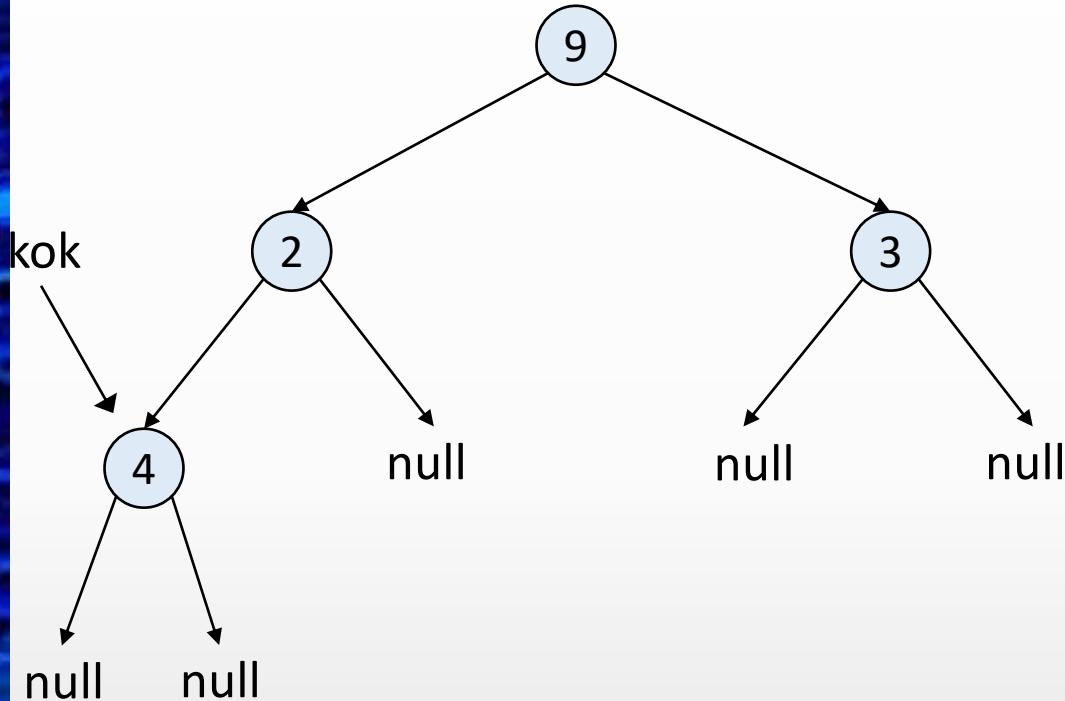
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	4



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



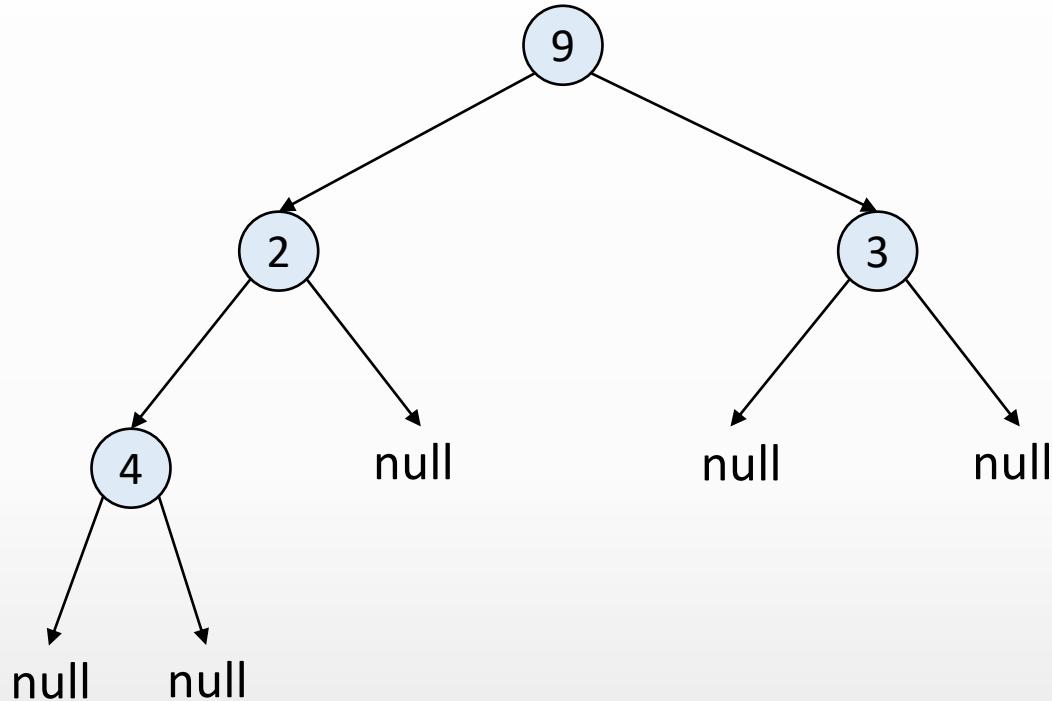
Cıktı: 4

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	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 Yığıtı (Call Stack)



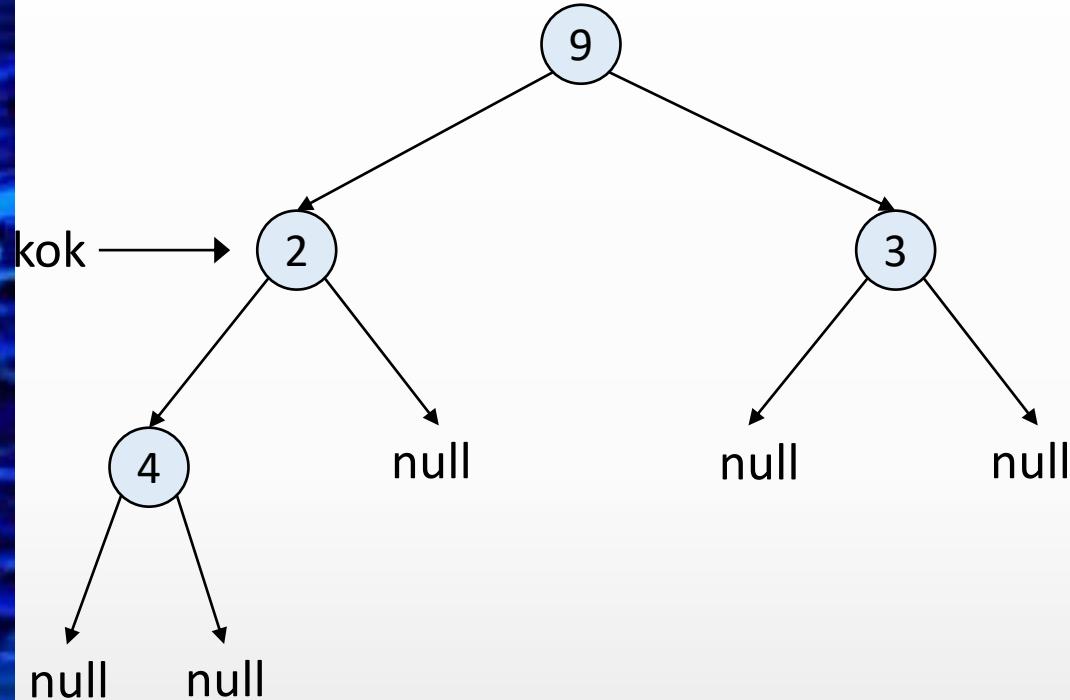
Çıktı: 4

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

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



Çıktı: 4



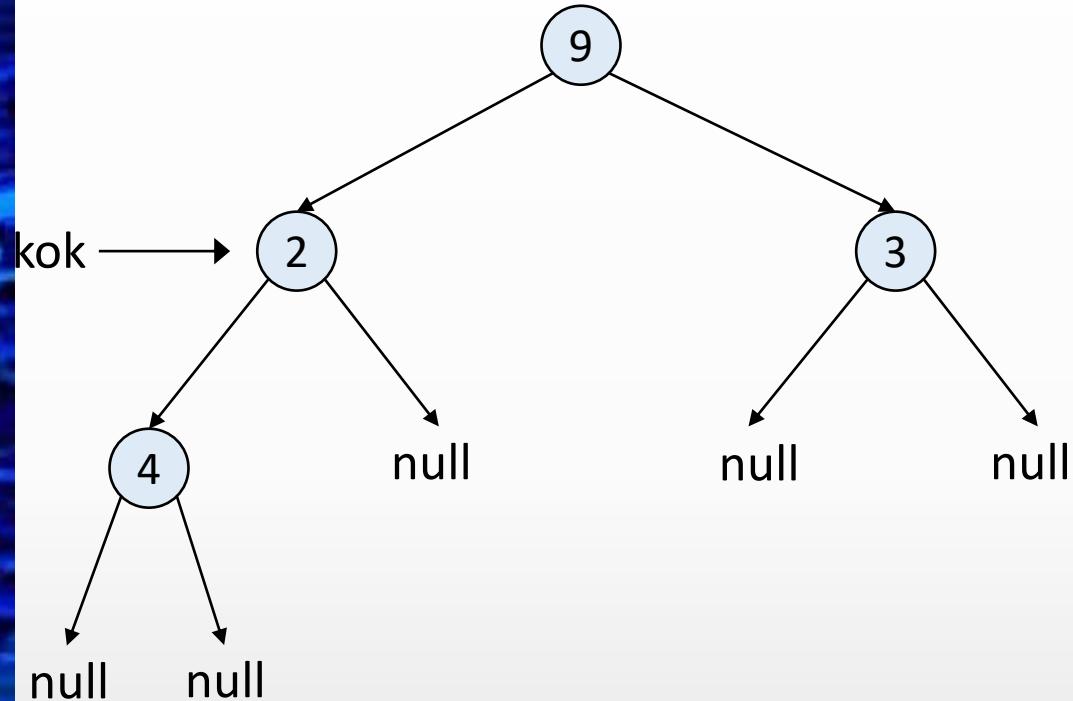
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2



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



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

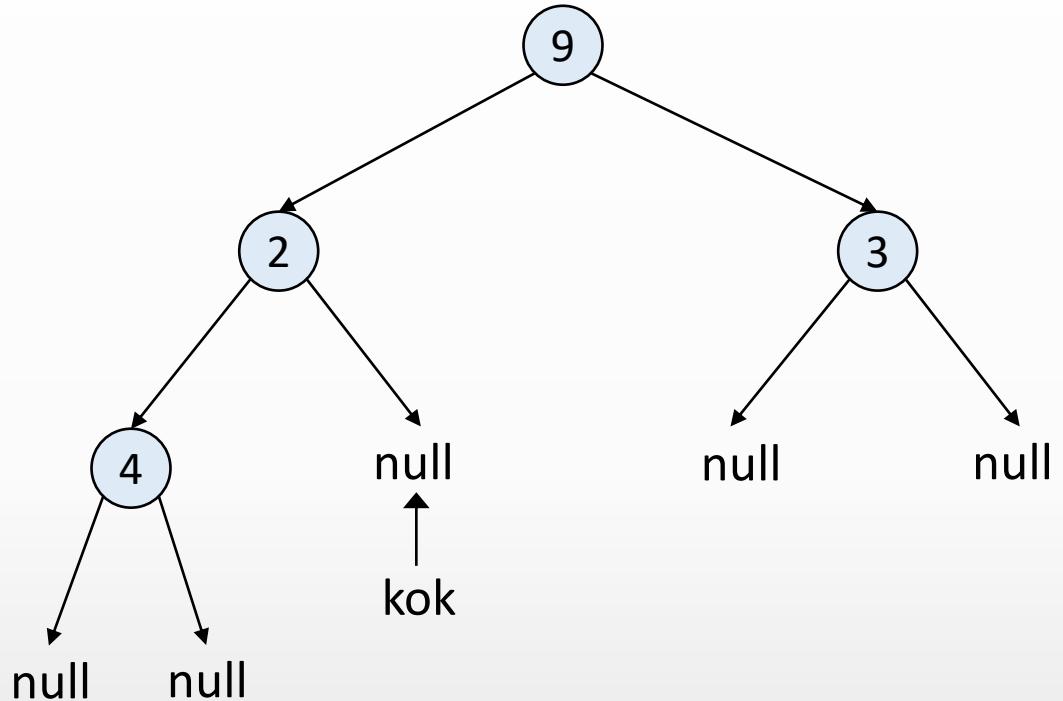


Çıktı: 4

```
1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
4     }  
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8 }
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Çağırma Yığıtı (Call Stack)



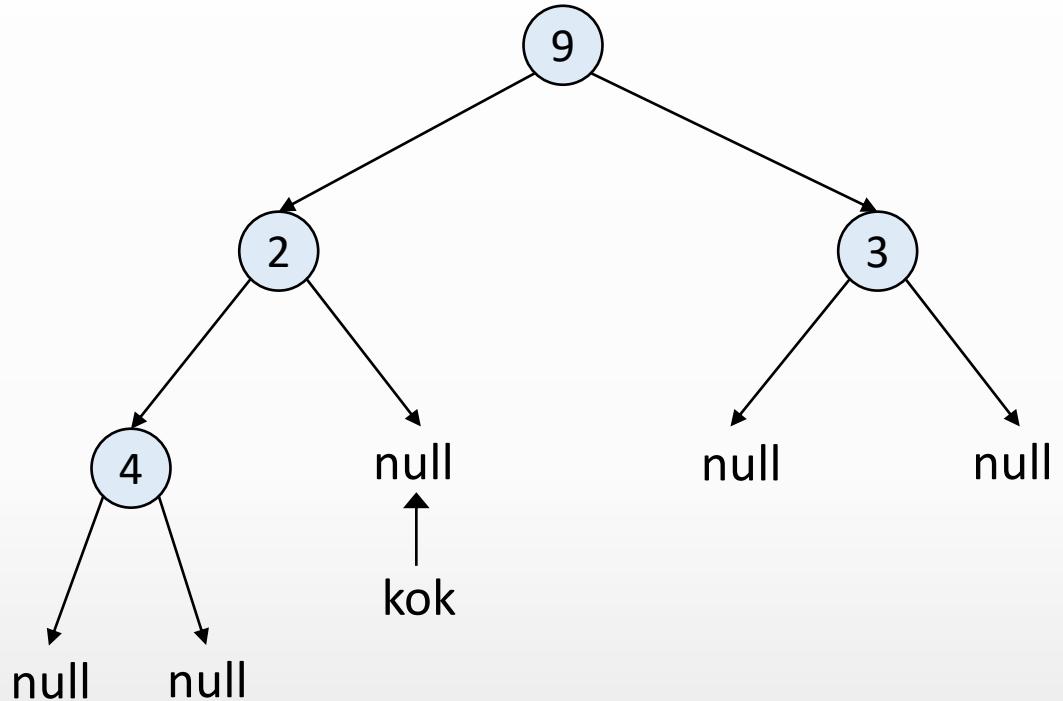
Çıktı: 4

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

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



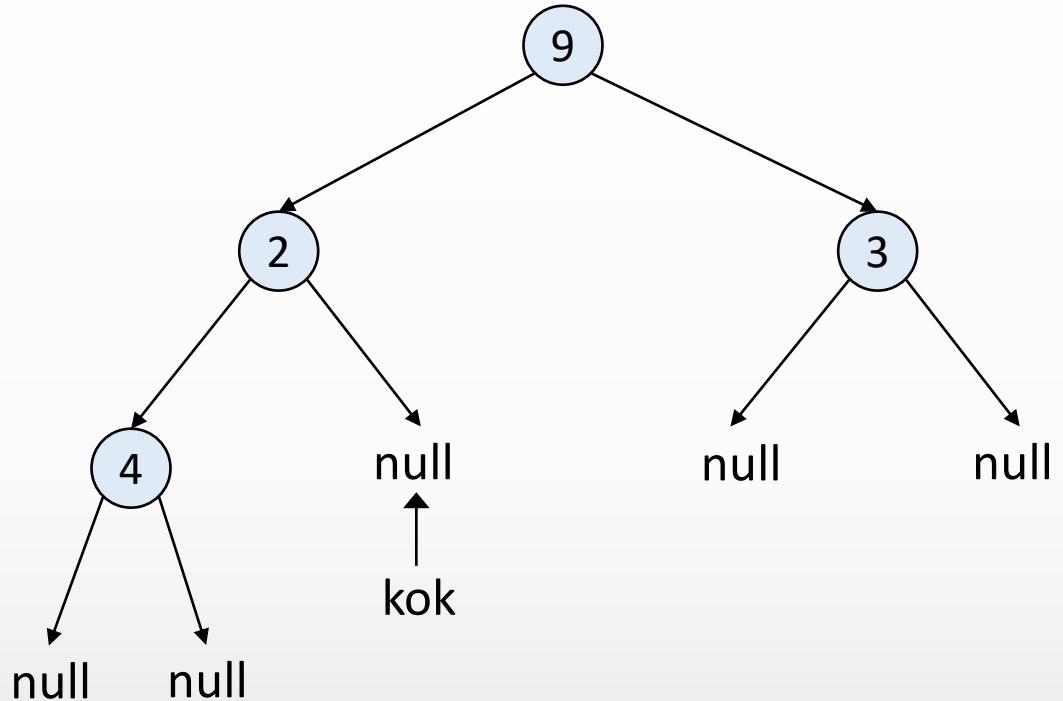
Çıktı: 4

Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



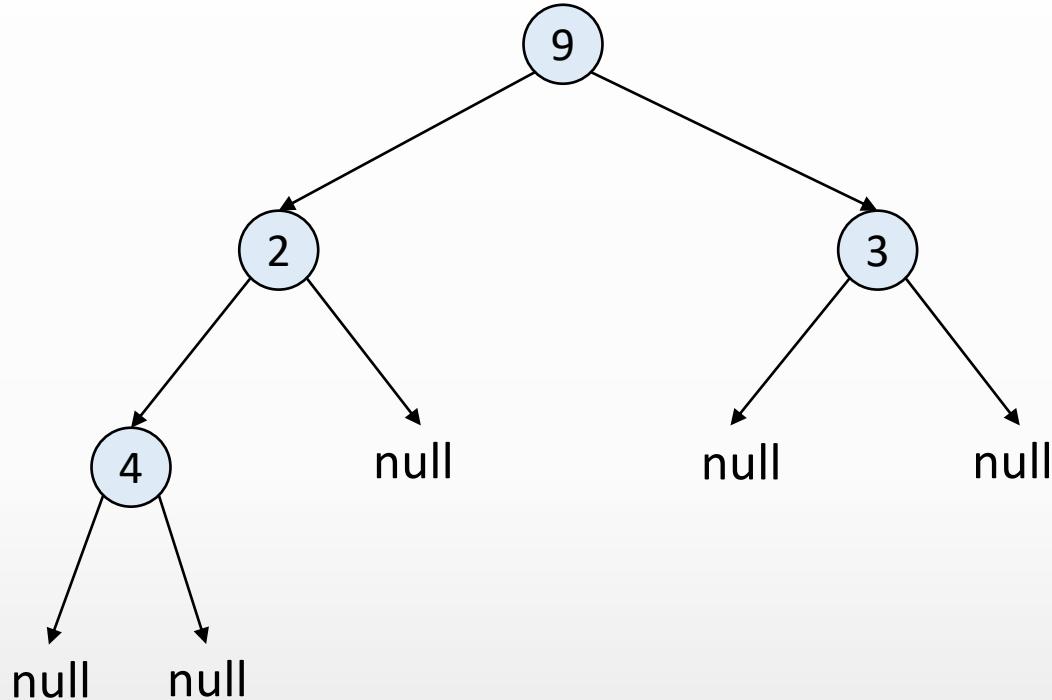
Çıktı: 4

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

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Çağırma Yığıtı (Call Stack)



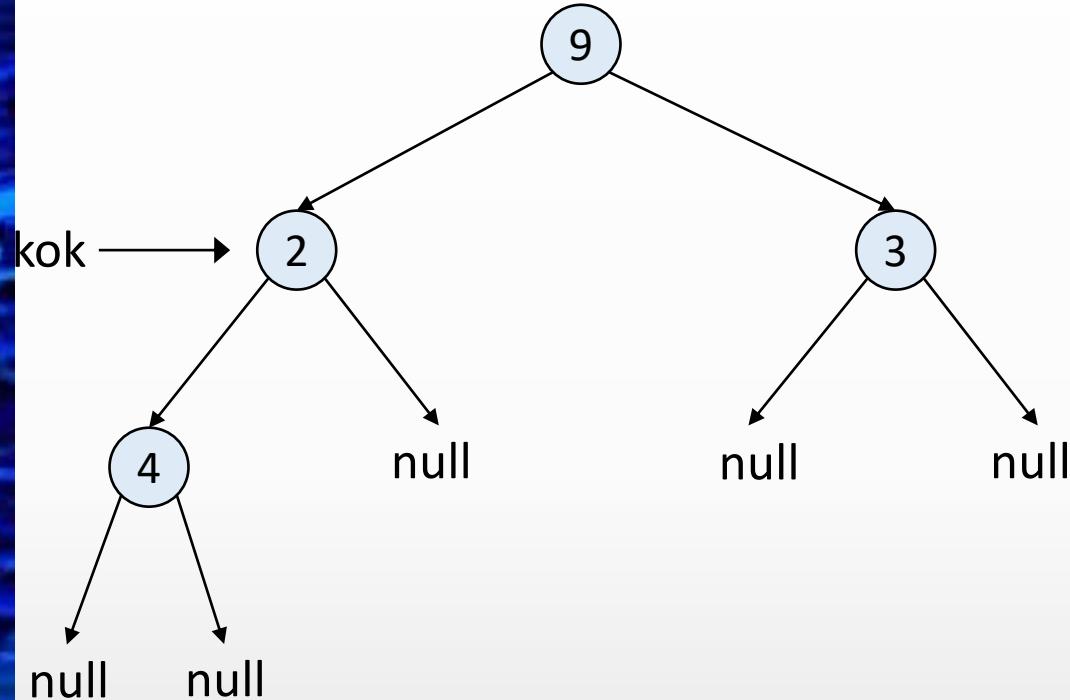
Metot Çağrımı	Satır Numarası	Kök
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Çıktı: 4

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Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
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kokSonda()	6	2

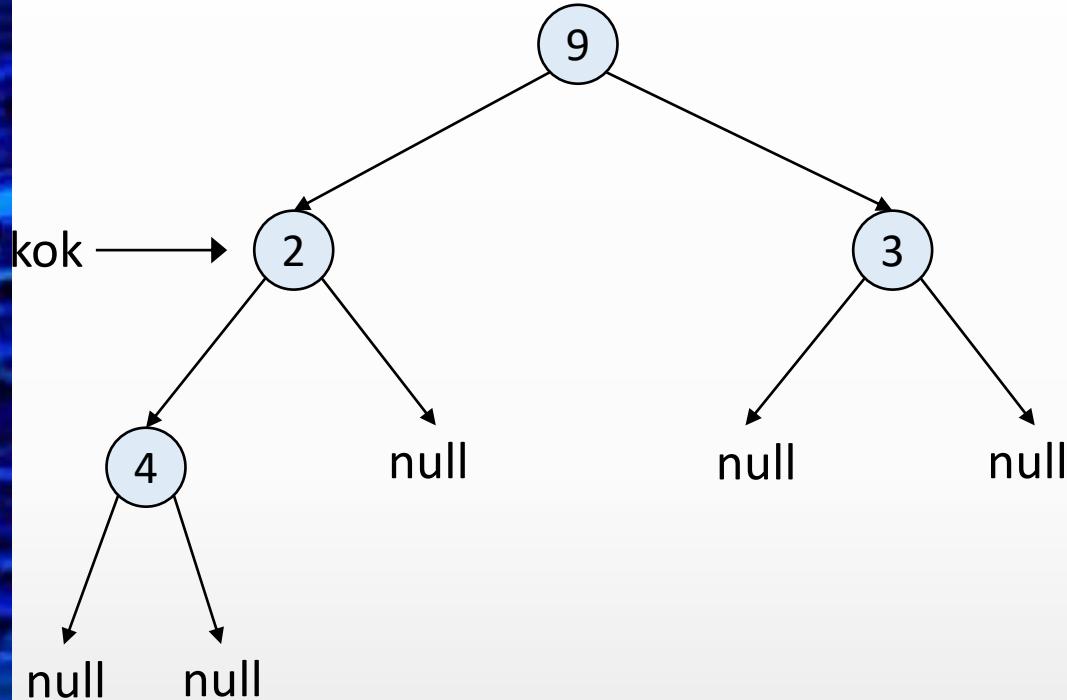


Çıktı: 4

```
1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
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Çağırma Yığıtı (Call Stack)



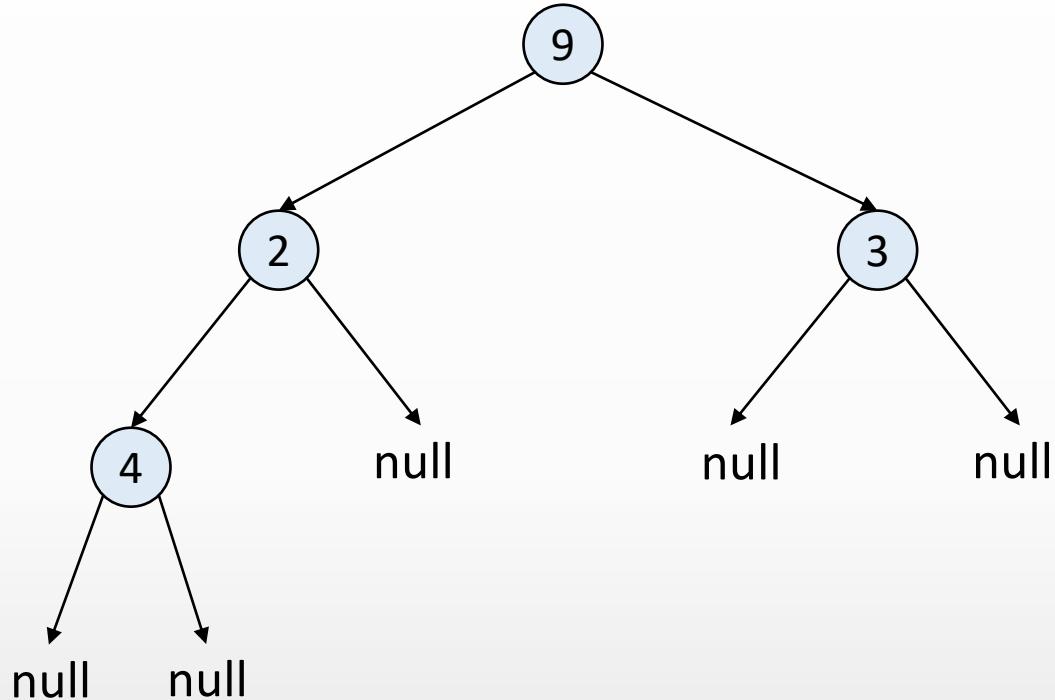
Cıktı: 4 2



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



```
1 public void kokSonda(AgacDugumu kok) {  
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7     System.out.print(kok.veri + " ");  
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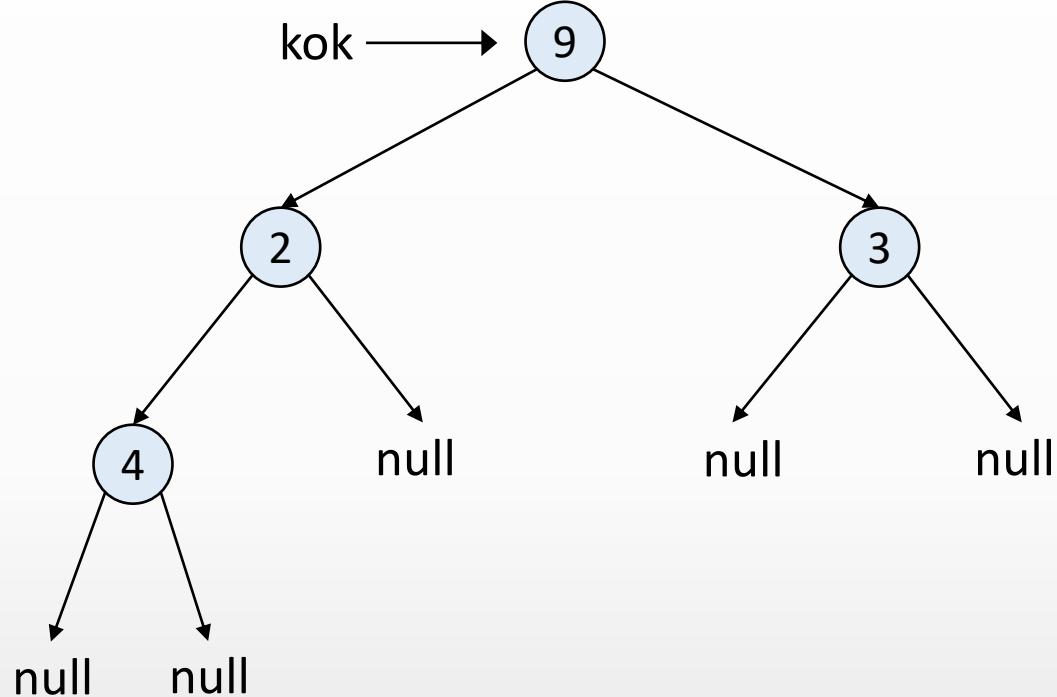


Cıktı: 4 2

Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9

```
1 public void kokSonda(AgacDugumu kok) {  
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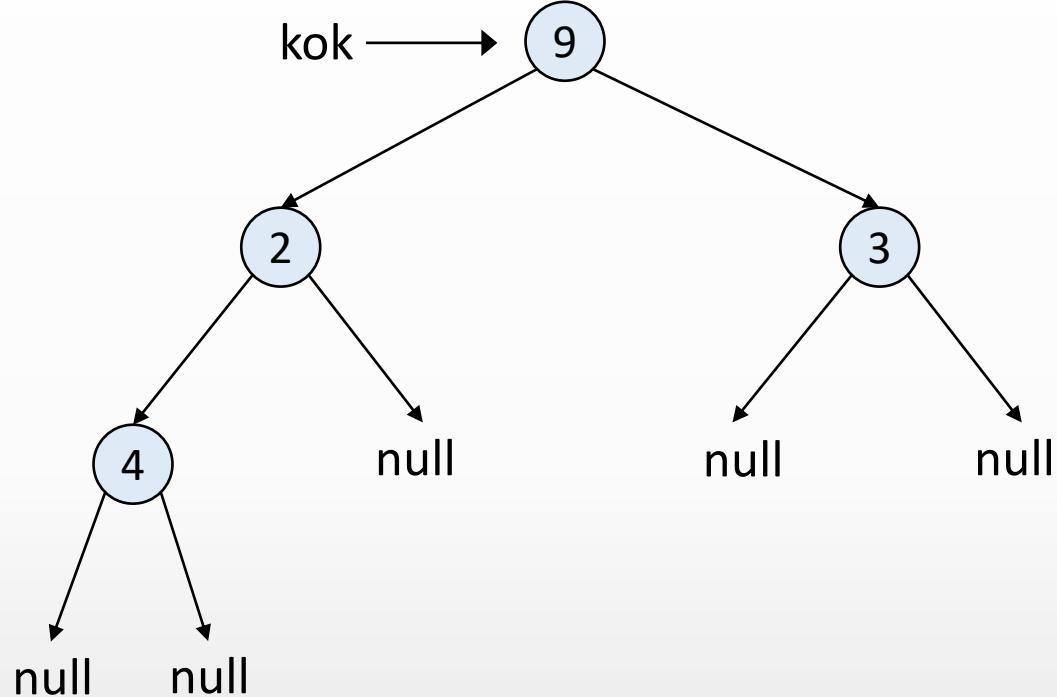
Cıktı: 4 2

Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
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Cıktı: 4 2

Çağırma Yığıtı (Call Stack)

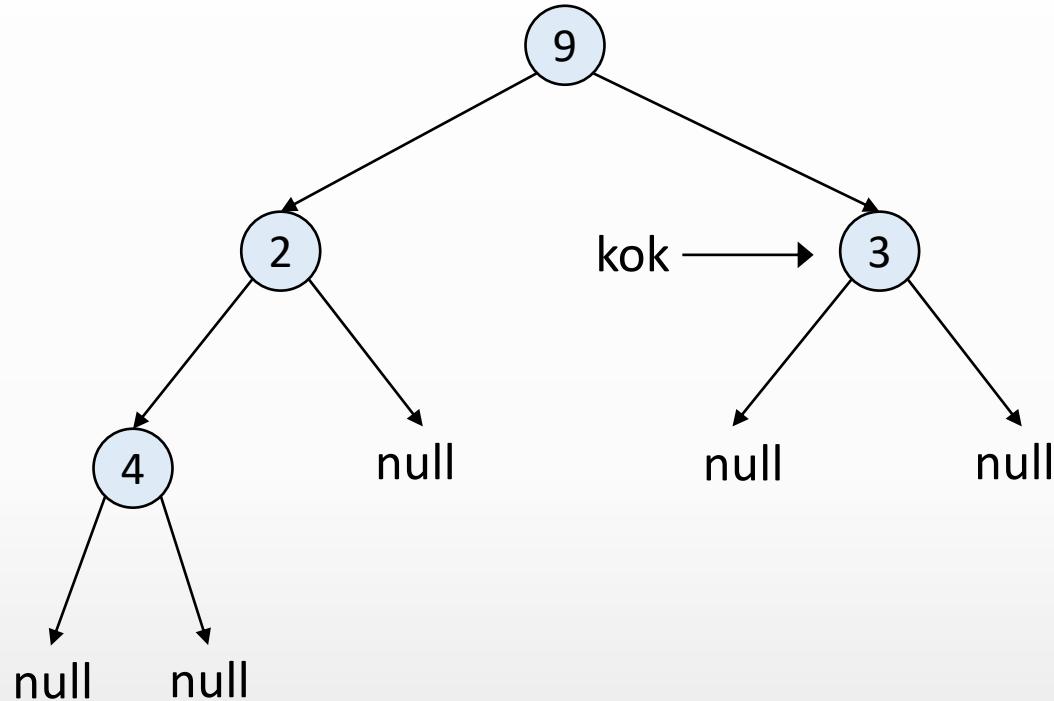
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

```
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 + " ");  
8 }
```



Çağırma Yığıtı (Call Stack)



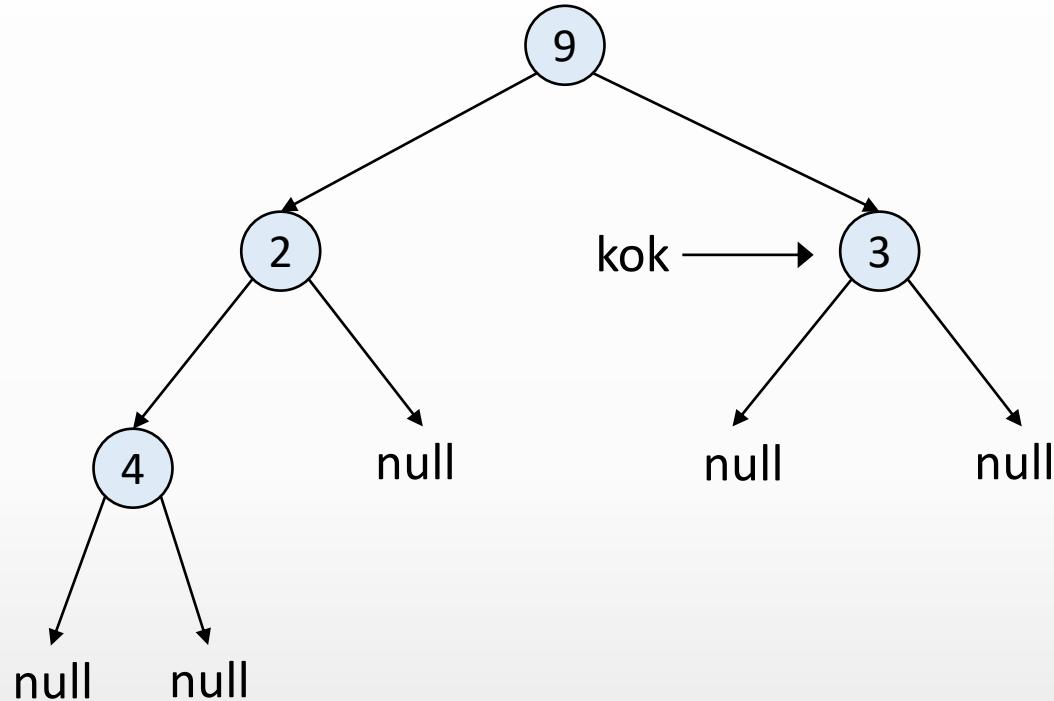
Çıktı: 4 2

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

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



Çağırma Yığıtı (Call Stack)



Cıktı: 4 2



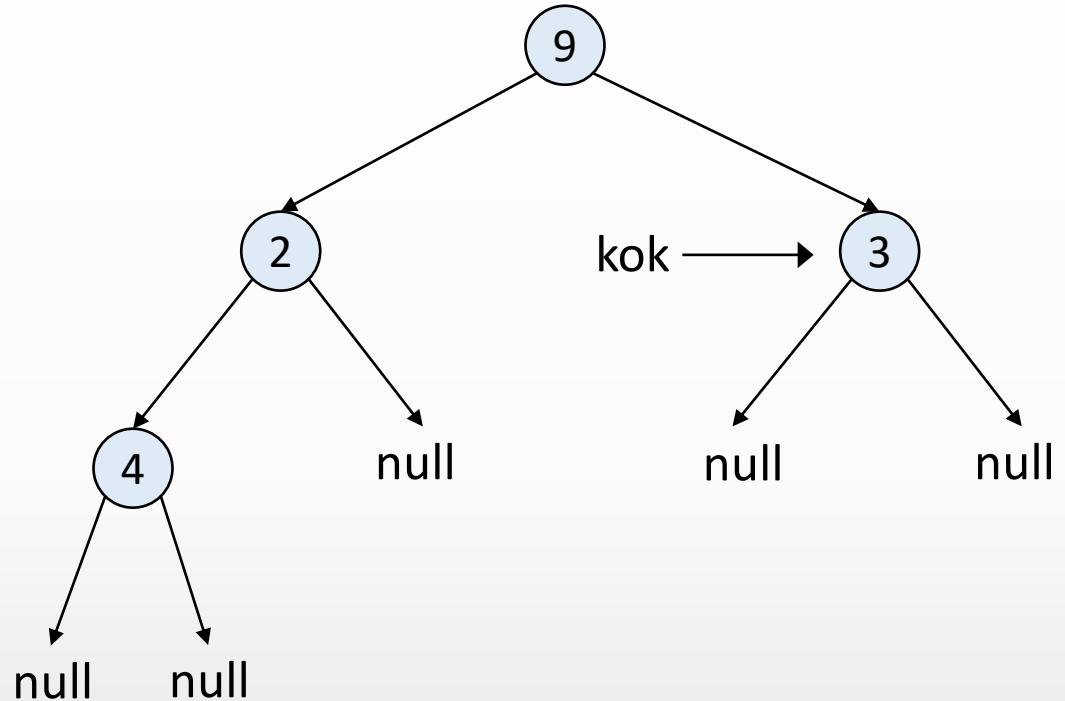
Metot Çağrımı	Satır Numarası	Kök
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```
1 public void kokSonda(AgacDugumu kok) {  
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Çağırma Yığıtı (Call Stack)

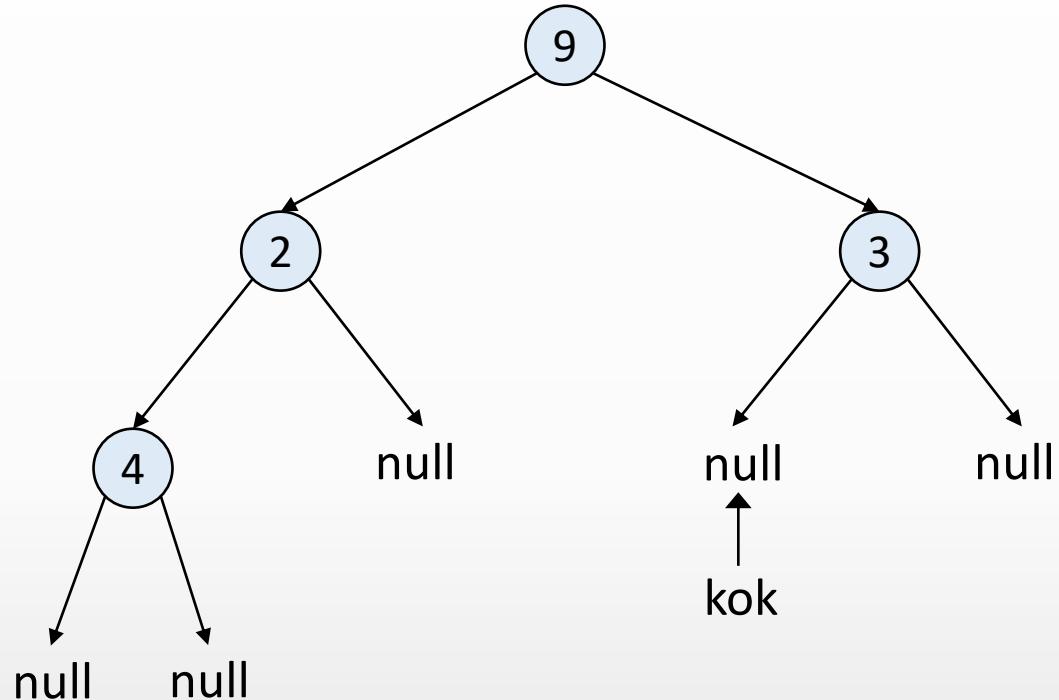


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
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7     System.out.print(kok.veri + " ");  
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Çağırma Yığıtı (Call Stack)



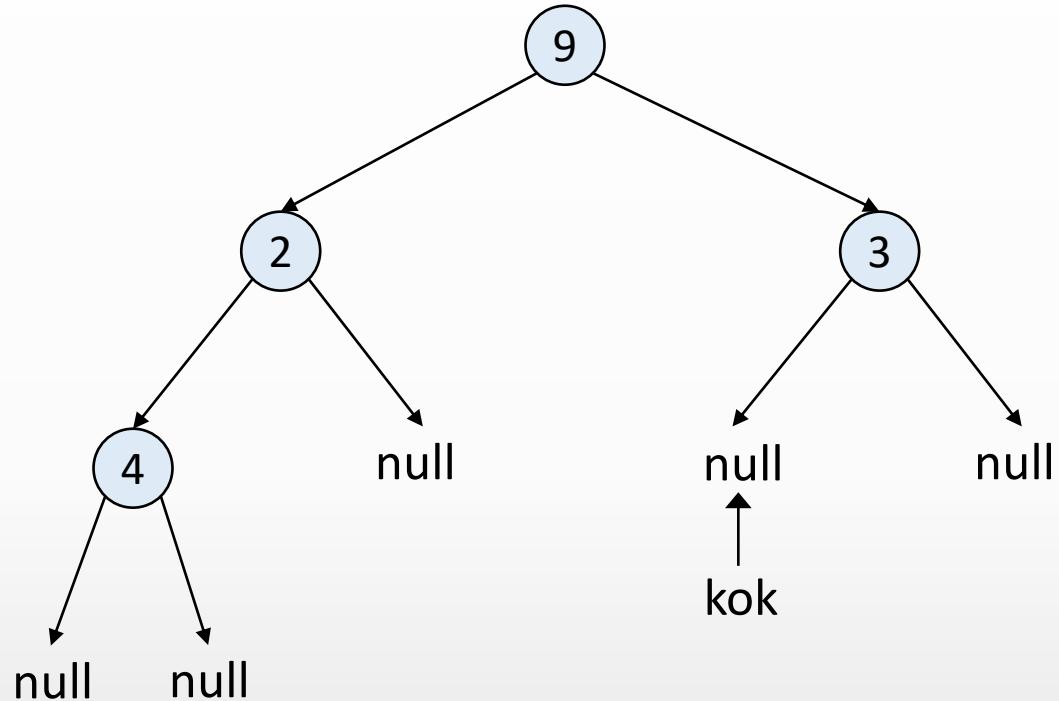
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
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Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
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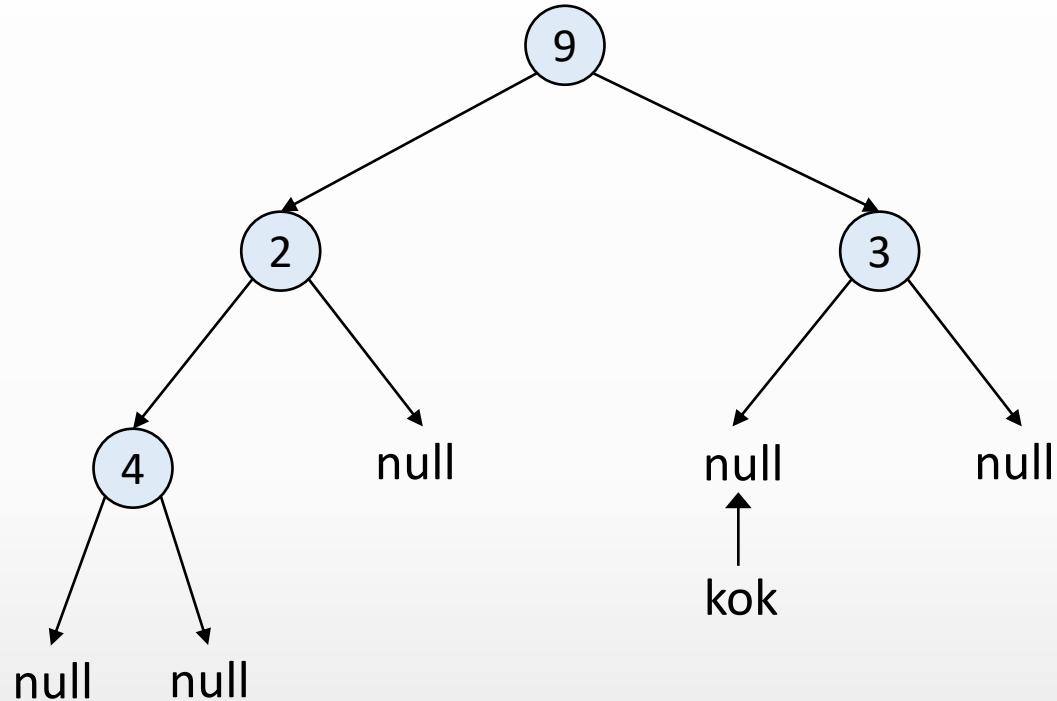


Cıktı: 4 2

```
1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
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Çağırma Yığıtı (Call Stack)



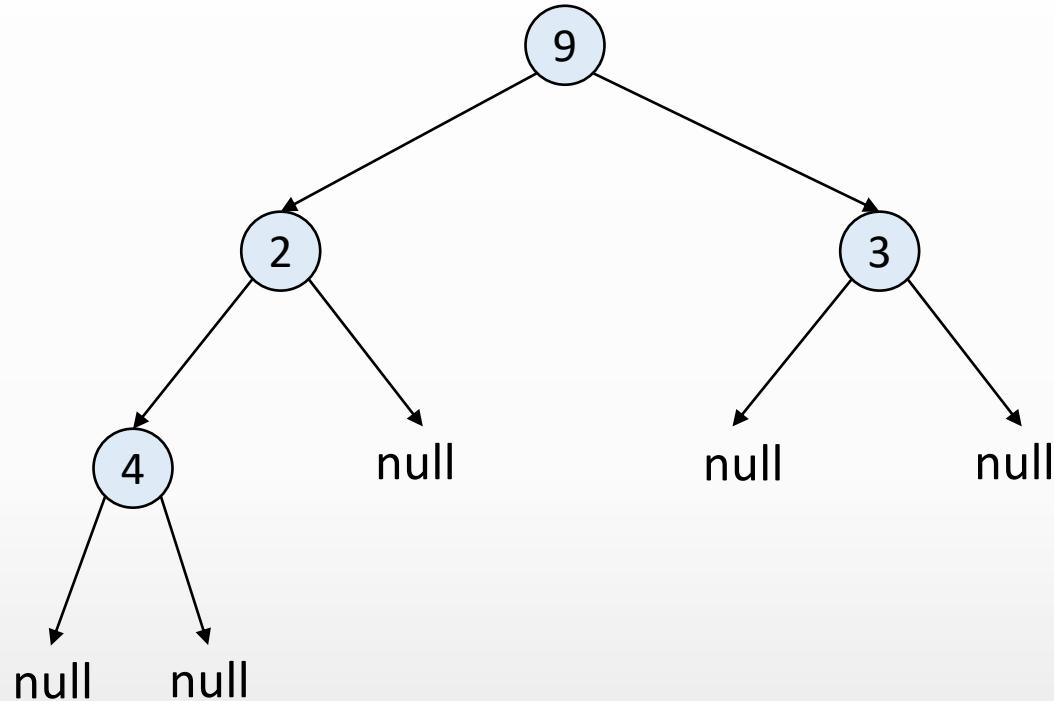
Çıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
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kokSonda()	5	3
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Çağırma Yığıtı (Call Stack)



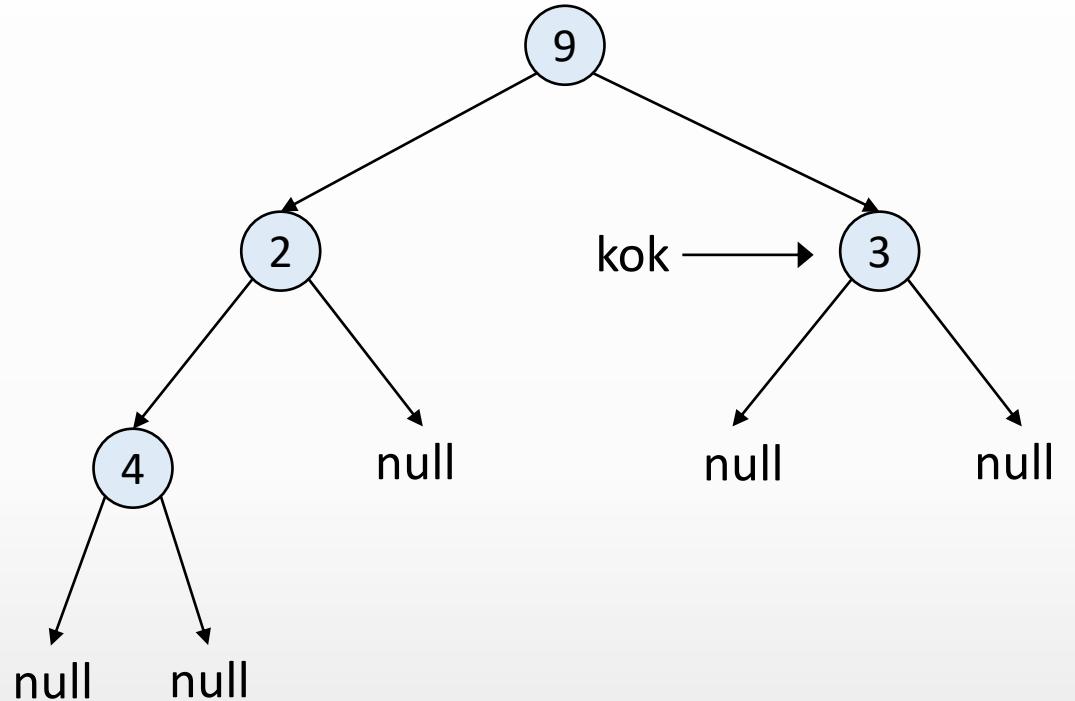
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

Cıktı: 4 2

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

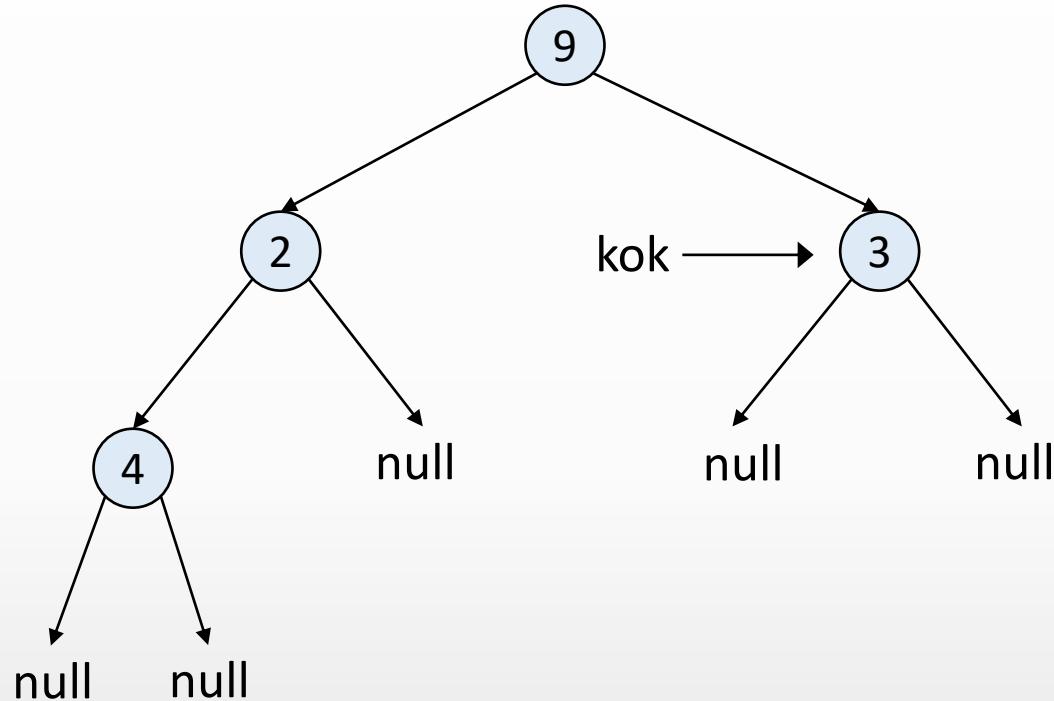


Metot Çağrımı	Satır Numarası	Kök
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```
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Çağırma Yığıtı (Call Stack)



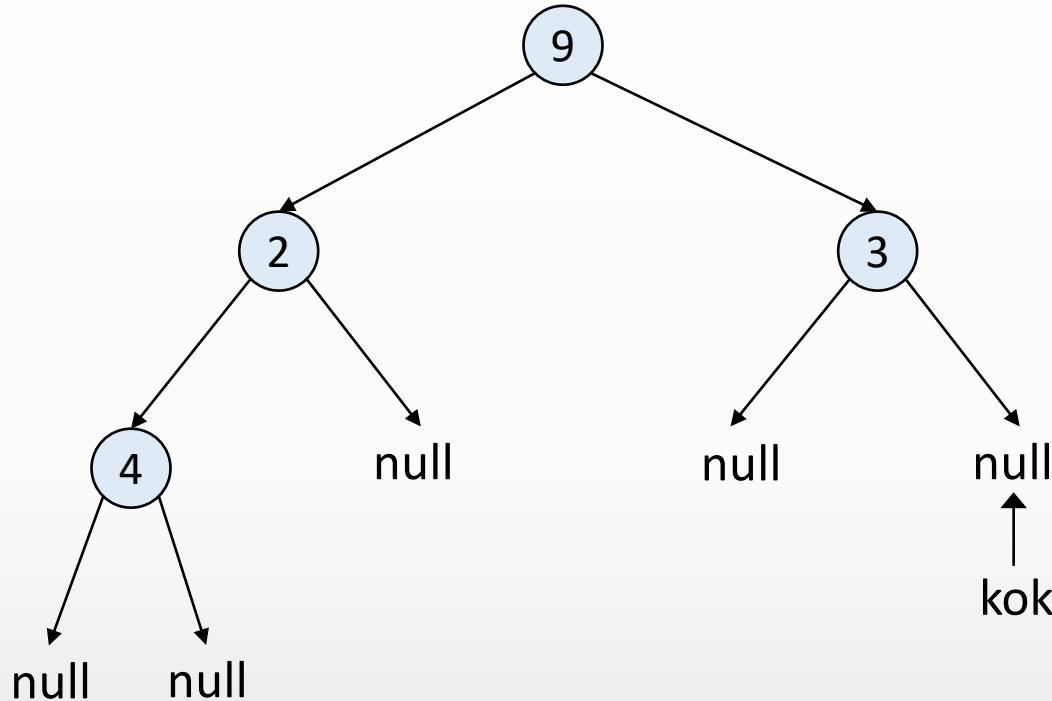
Çıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
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Çağırma Yığıtı (Call Stack)



Cıktı: 4 2

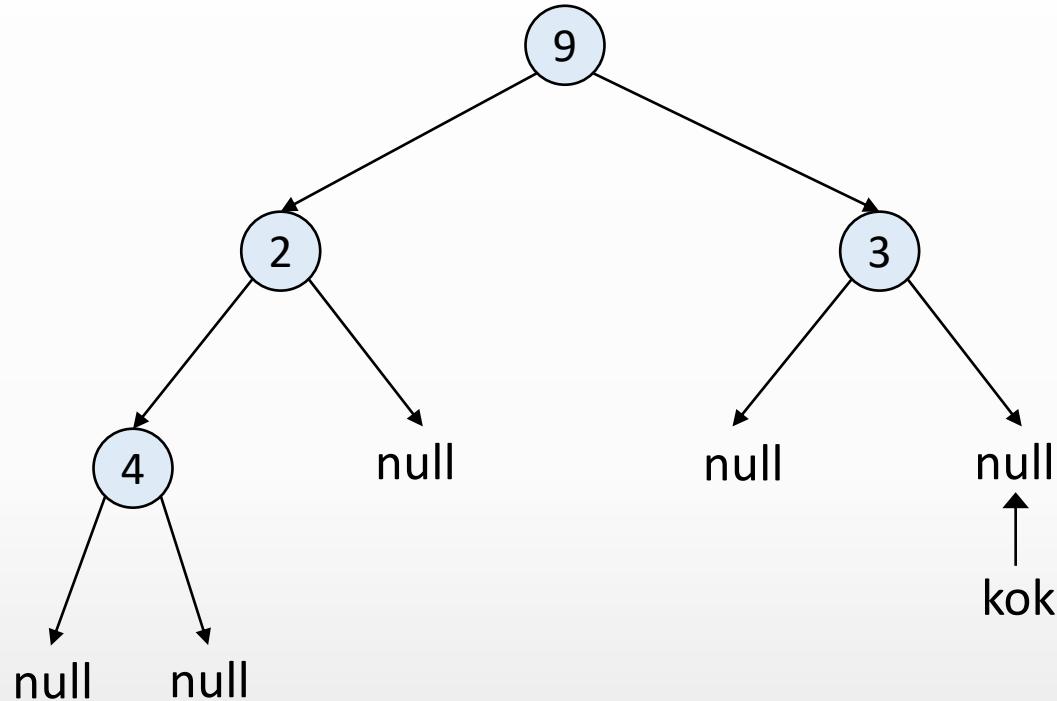
Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



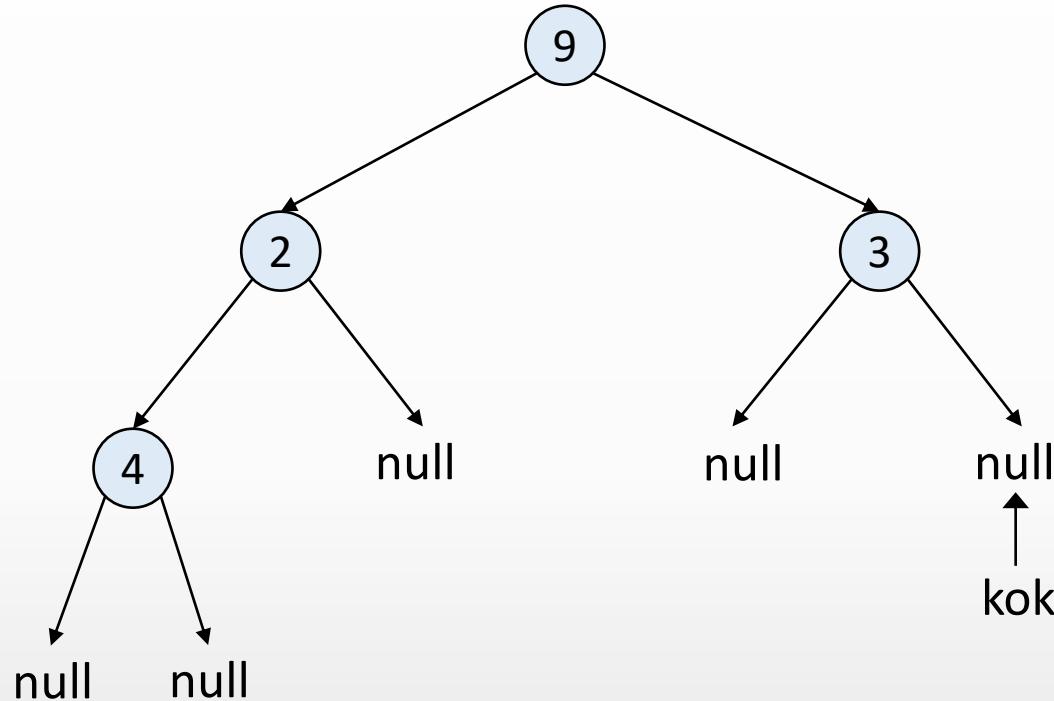
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Çağırma Yığıtı (Call Stack)



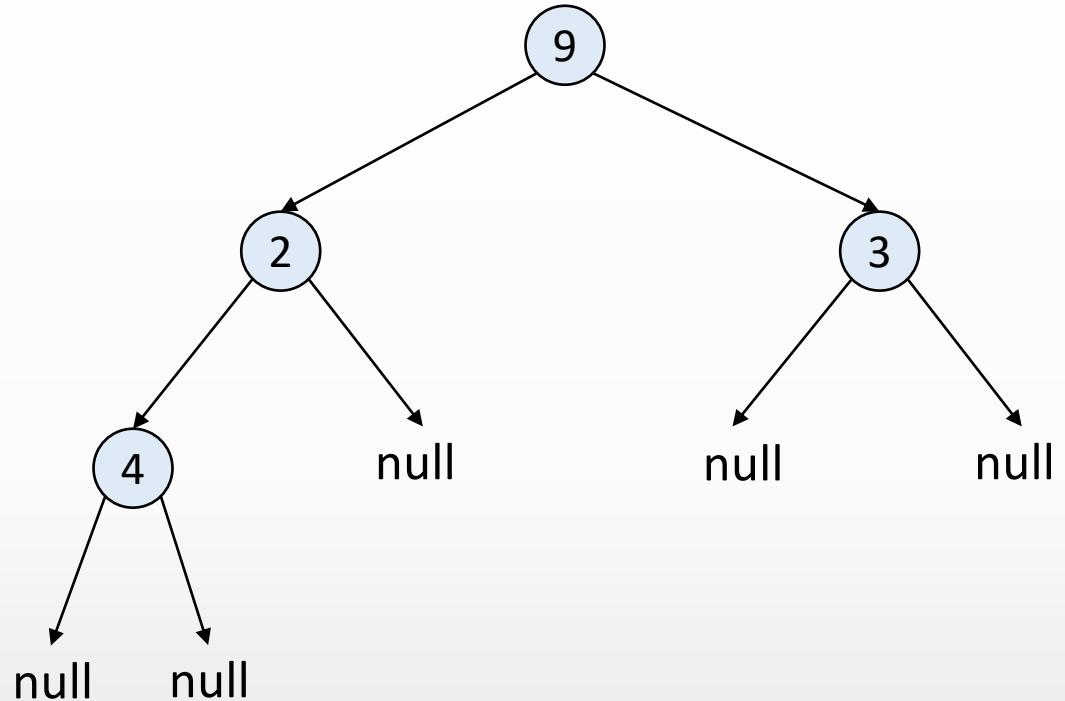
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Metot Çağrımı	Satır Numarası	Kök
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Çağırma Yığıtı (Call Stack)



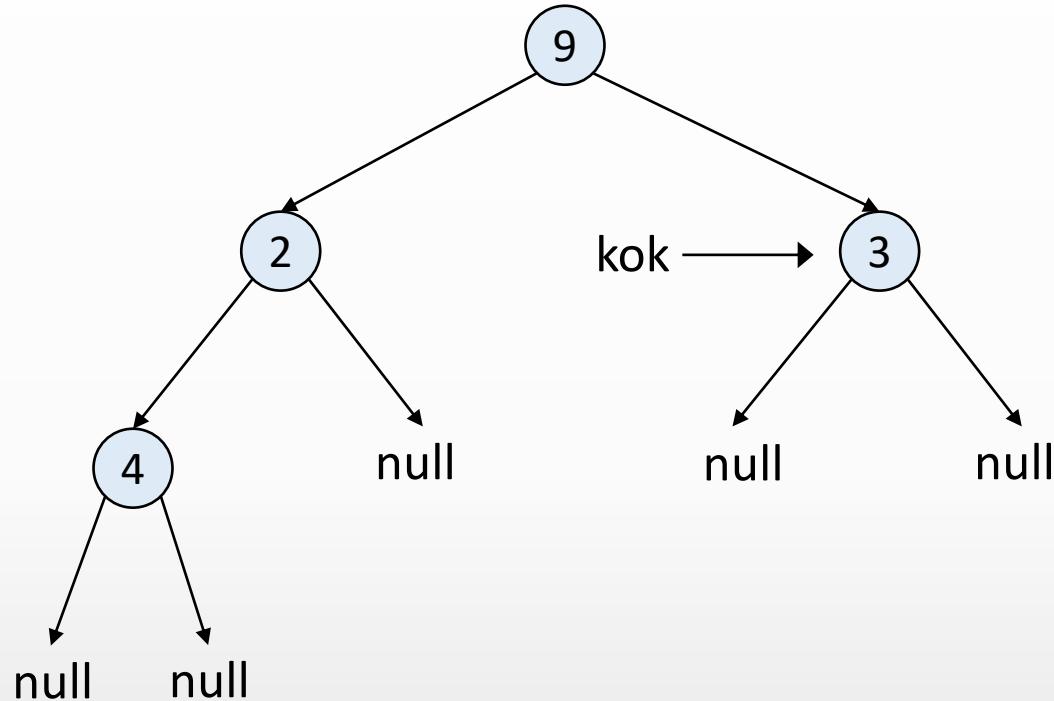
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Çağırma Yığıtı (Call Stack)



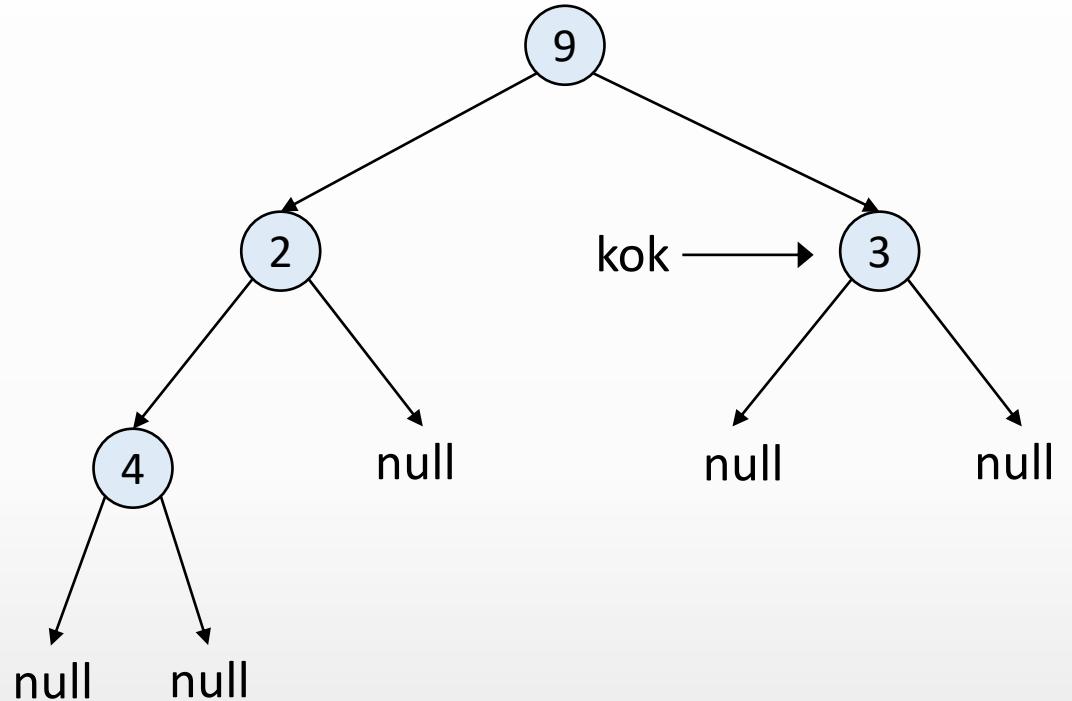
Çıktı: 4 2

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

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



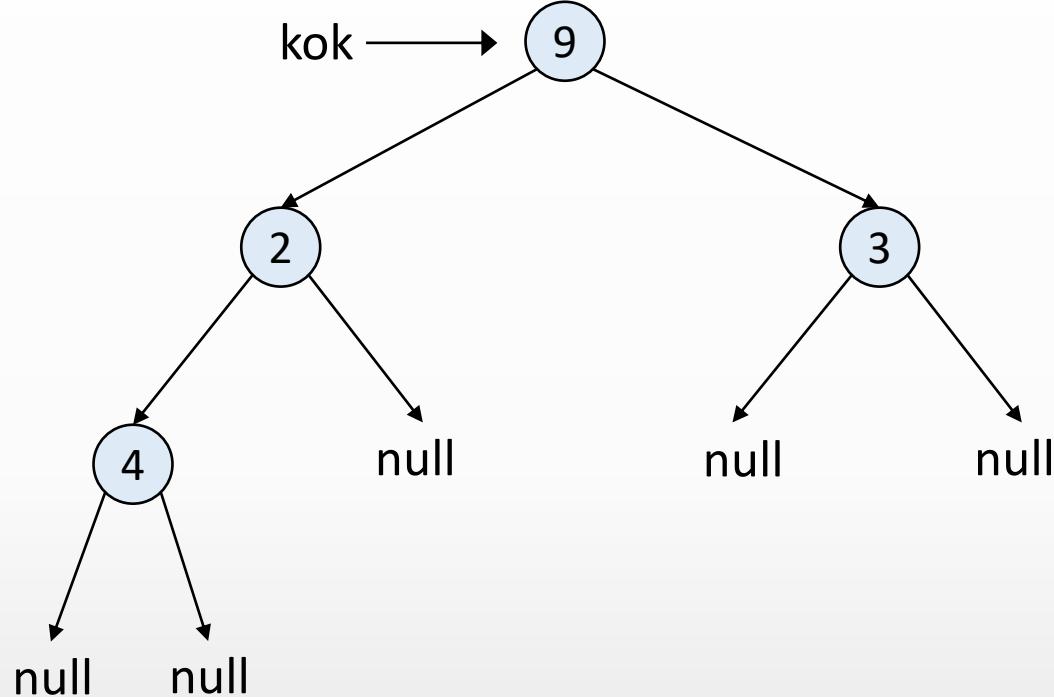
Cıktı: 4 2 3



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



```
1 public void kokSonda(AgacDugumu kok) {  
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6     kokSonda(kok.sag);  
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8 }
```



Cıktı: 4 2 3

Çağırma Yığıtı (Call Stack)

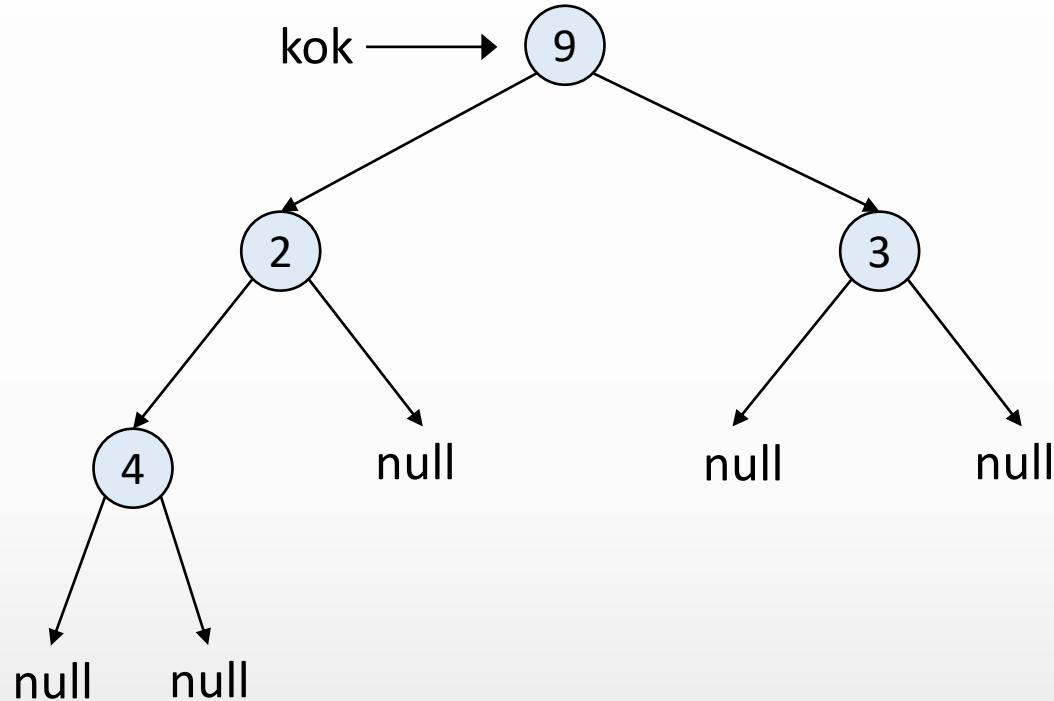
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

```
1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
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Çağırma Yığıtı (Call Stack)



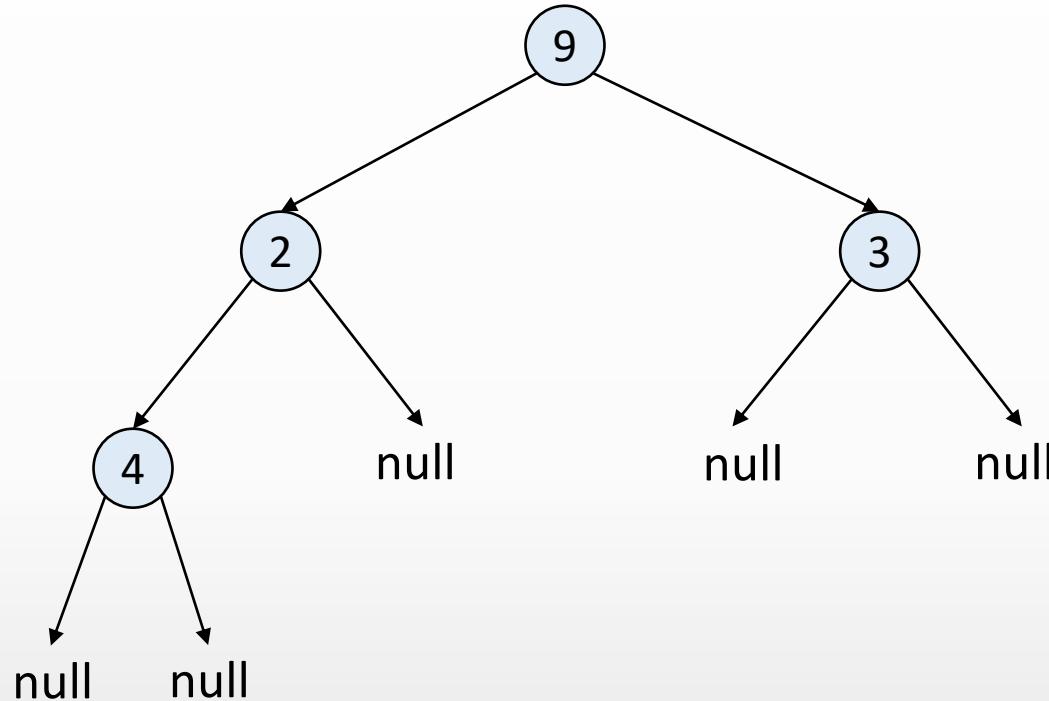
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

Çıktı: 4 2 3 9

```
1 public void kokSonda(AgacDugumu kok) {  
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6     kokSonda(kok.sag);  
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8 }
```



Çağrıma Yığıtı (Call Stack)



Cıktı: 4 2 3 9

Metot Çağrımı

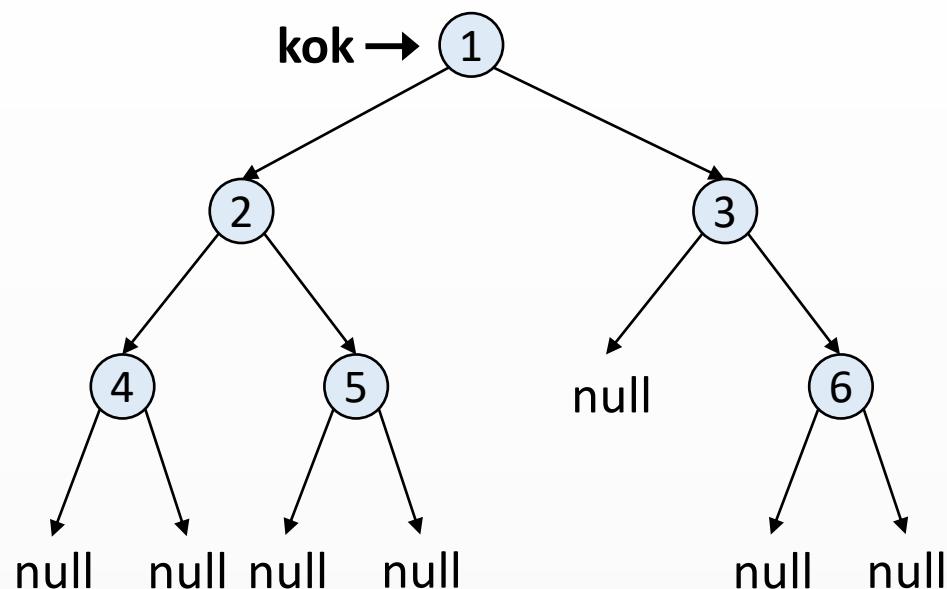
Satır Numarası

Kök

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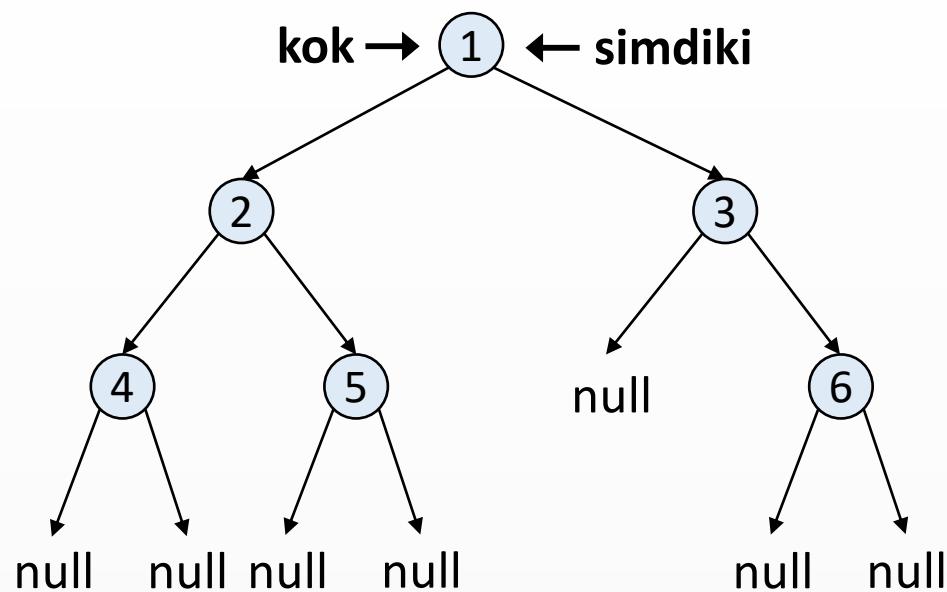
Yığın ile Kök Sonda Dolaşımı





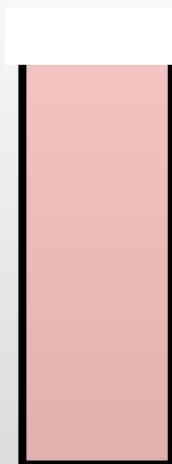
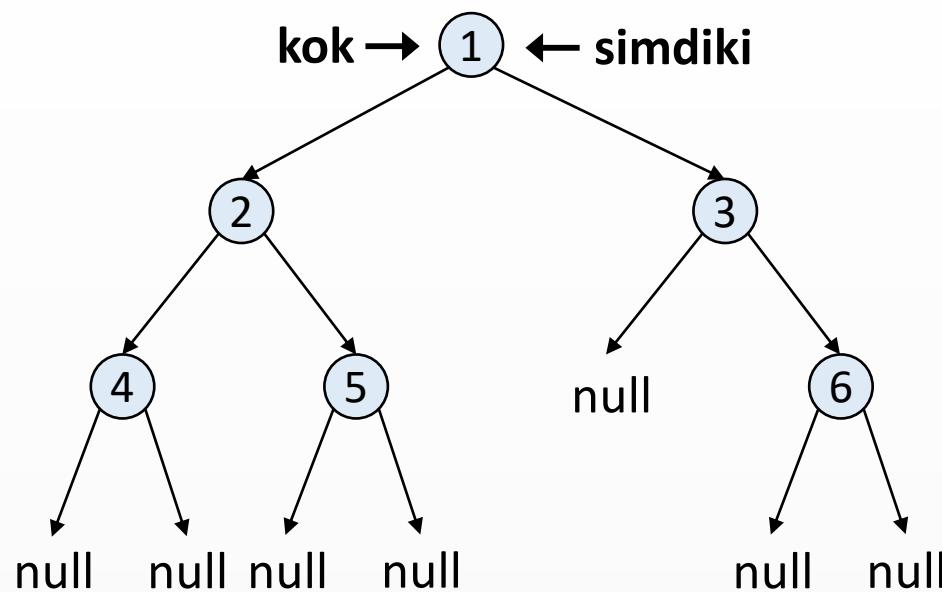
Çıktı:

```
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:

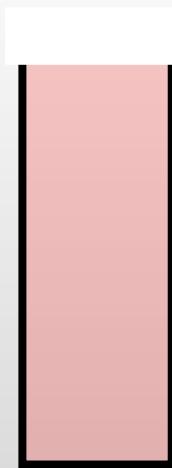
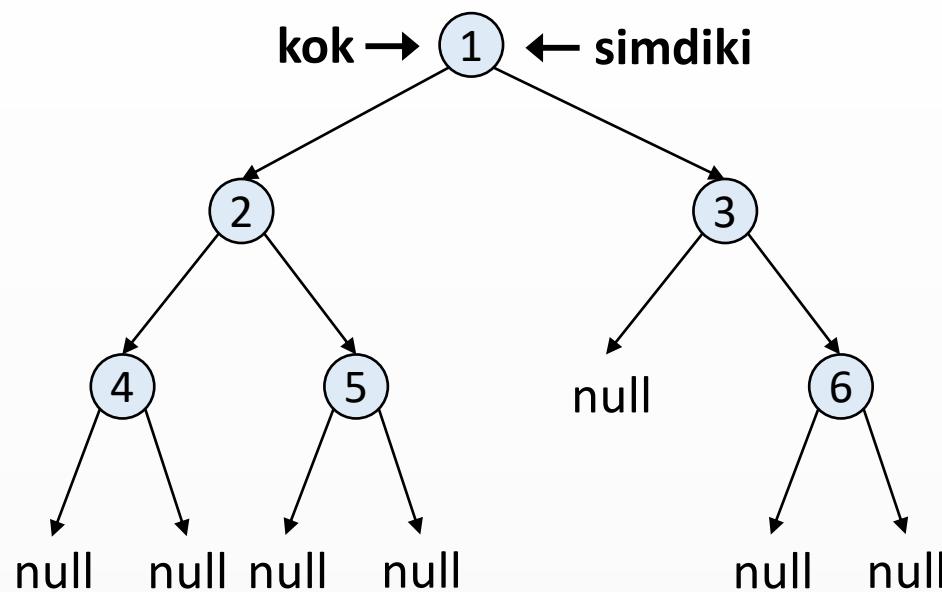
→ AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
 if(simdiki != null) {
 yigit.push(simdiki);
 simdiki = simdiki.sol;
 }
 else {
 AgacDugumu gecici = yigit.peek().sag;
 if(gecici == null) {
 gecici = yigit.pop();
 System.out.print(gecici.veri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



Yığıt

Çıktı:

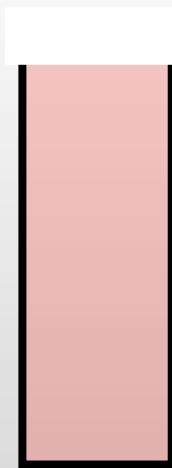
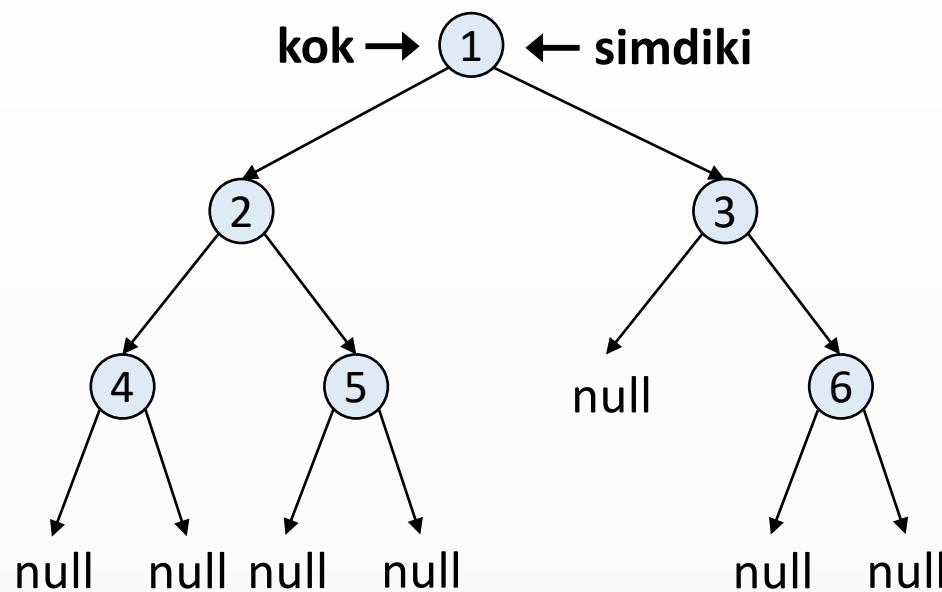
```
AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
while(simdiki != null || !yigit.isEmpty()) {  
    if(simdiki != null) {  
        yigit.push(simdiki);  
        simdiki = simdiki.sol;  
    }  
    else {  
        AgacDugumu gecici = yigit.peek().sag;  
        if(gecici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

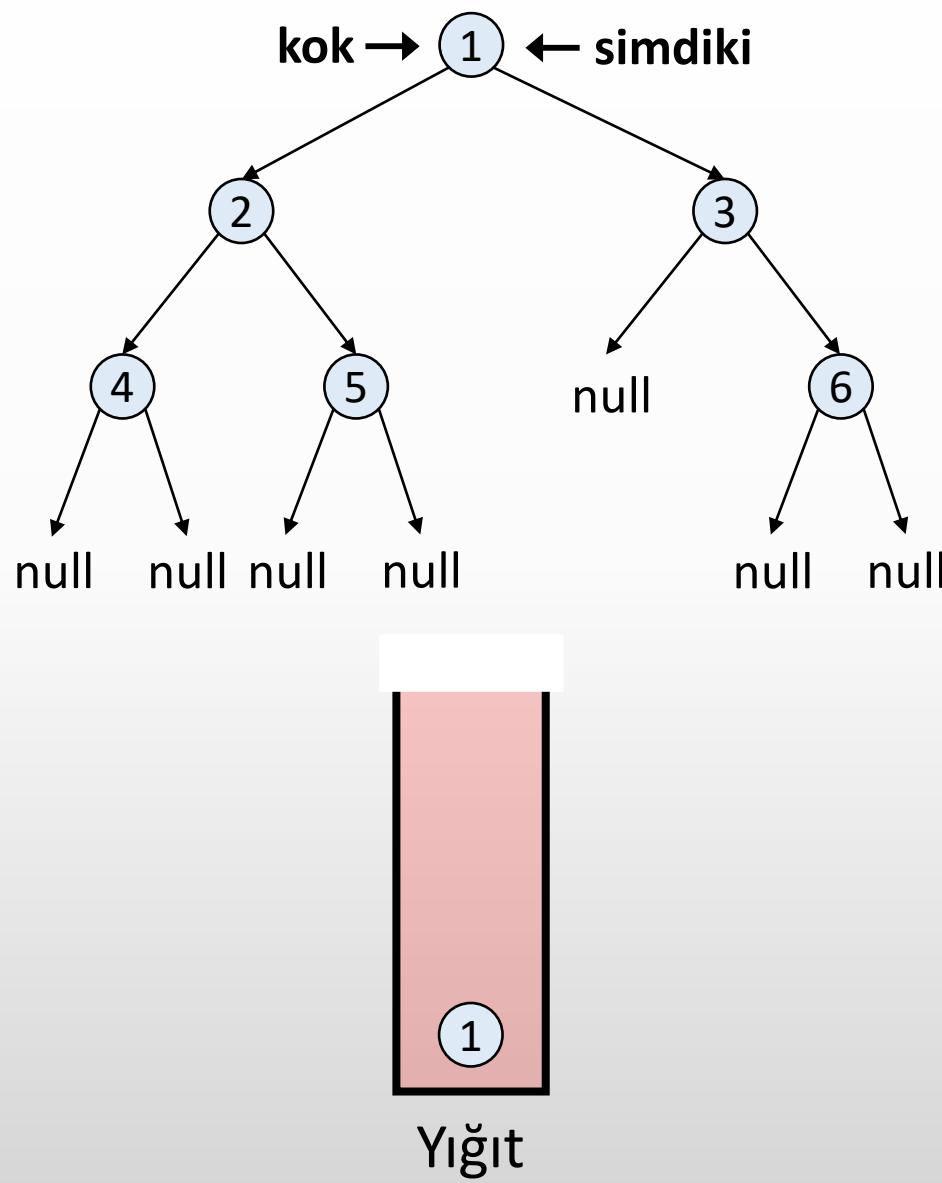
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
    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

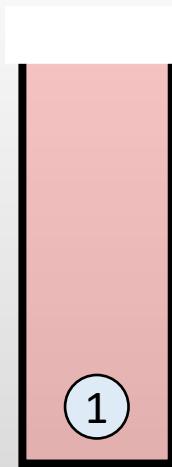
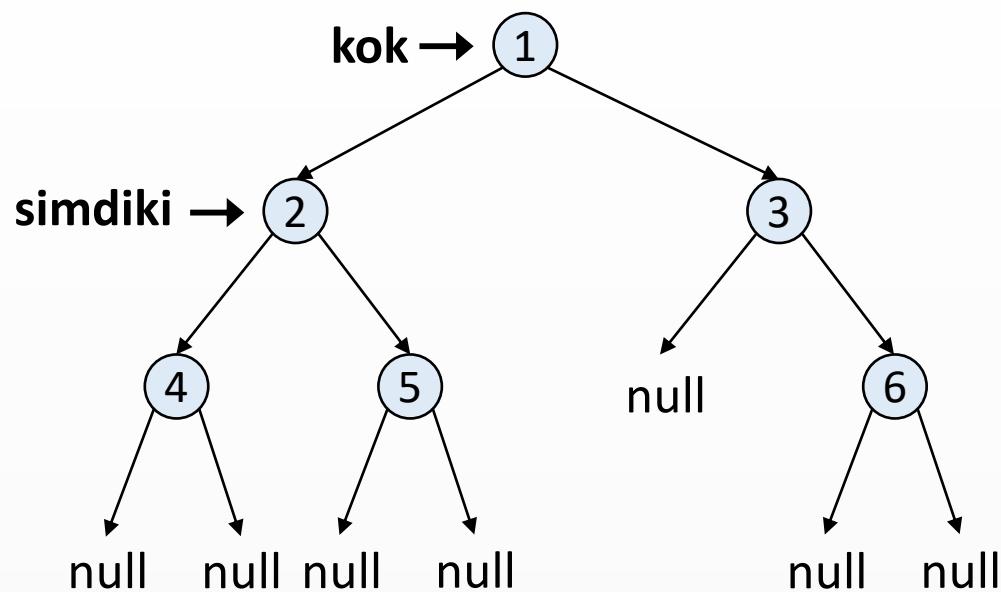
Çıktı:

```
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;
        }
    }
}
```



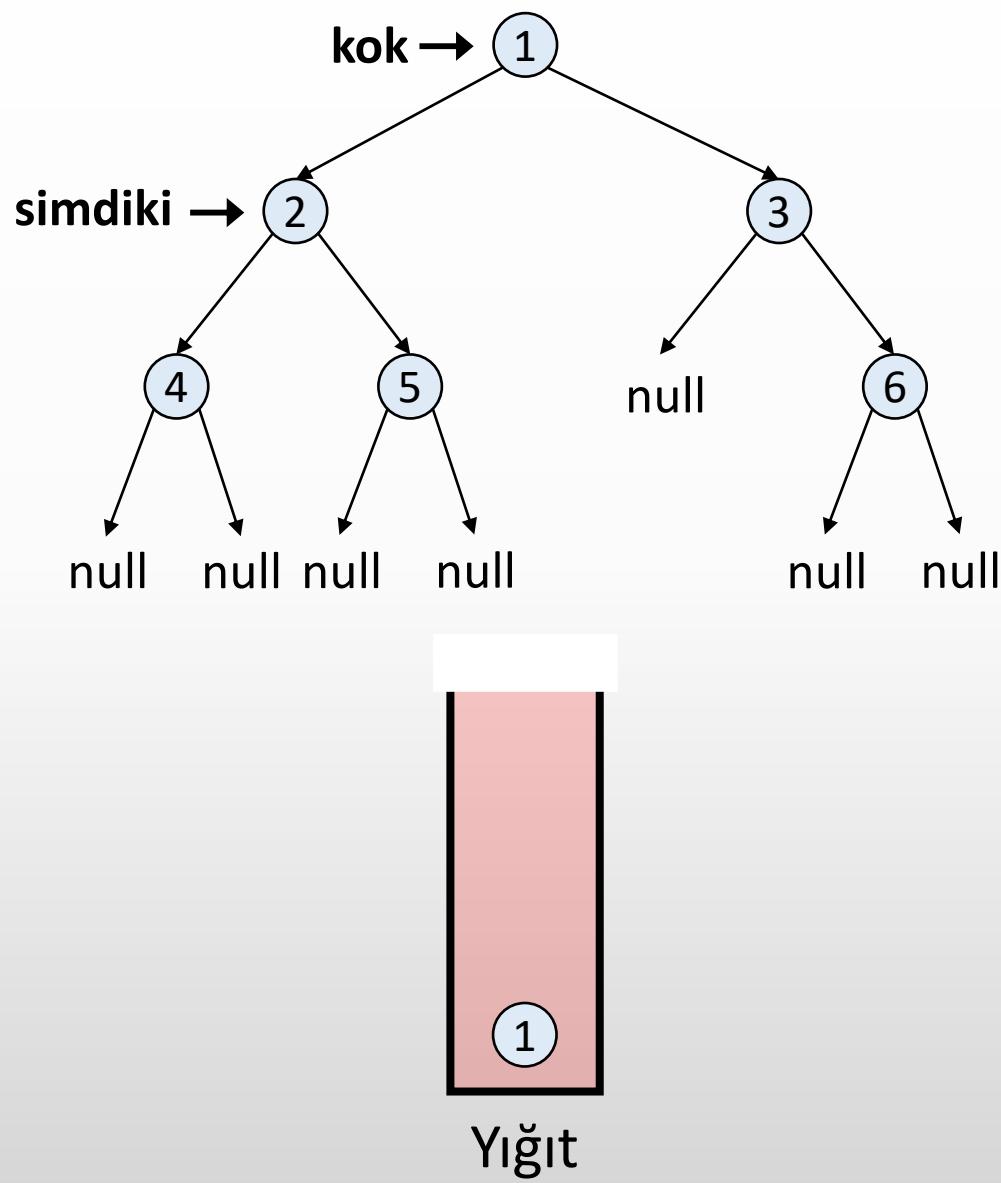
Çıktı:

```
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;
        }
    }
}
```



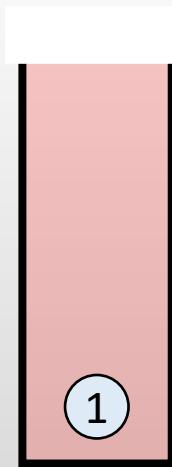
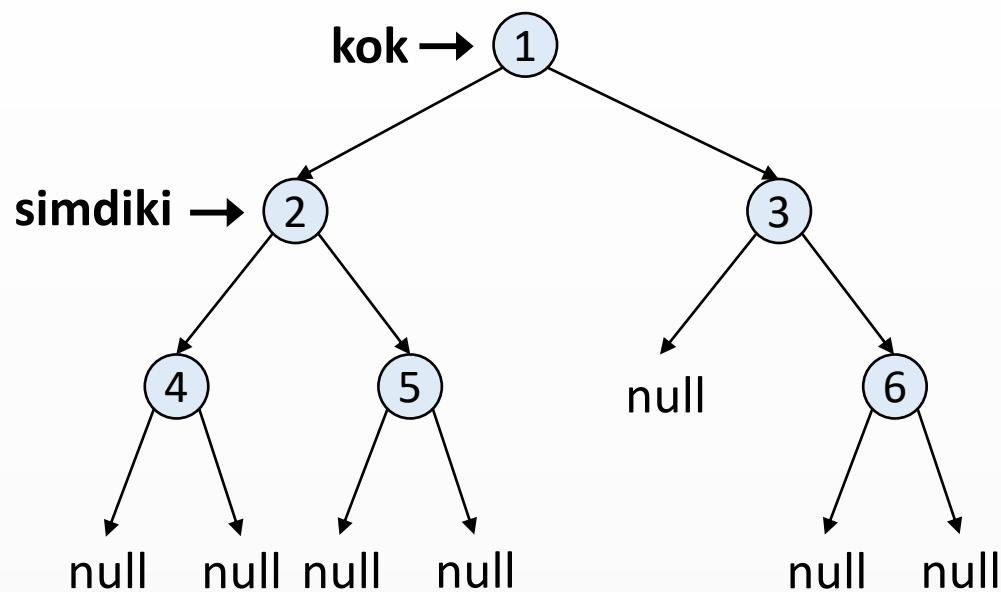
Çıktı:

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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:

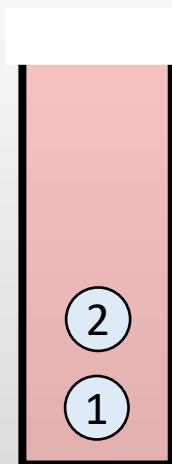
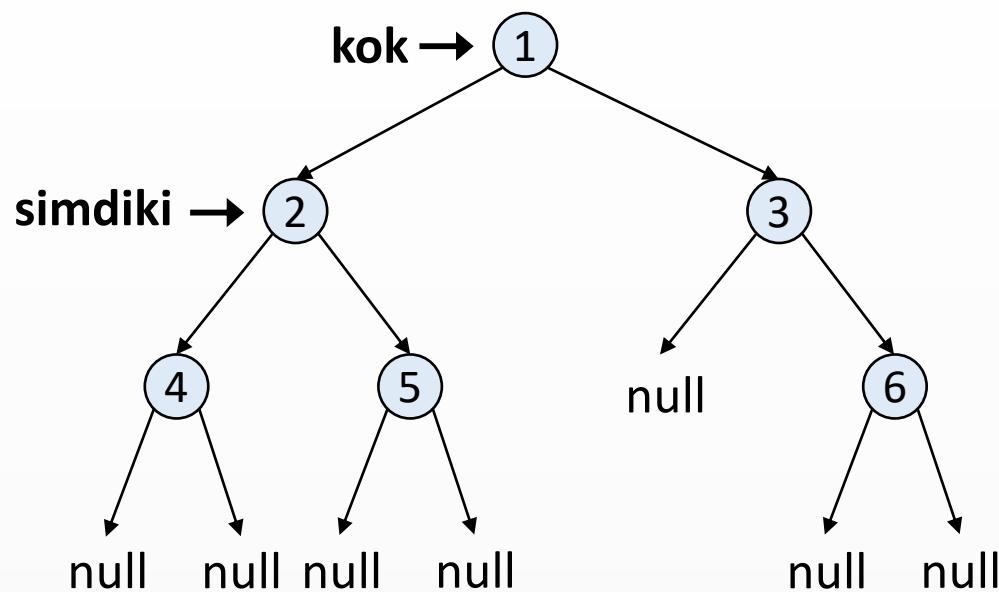
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
    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

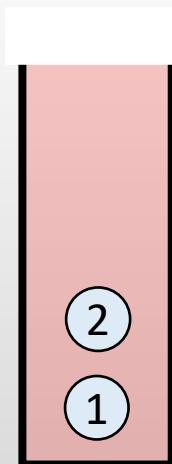
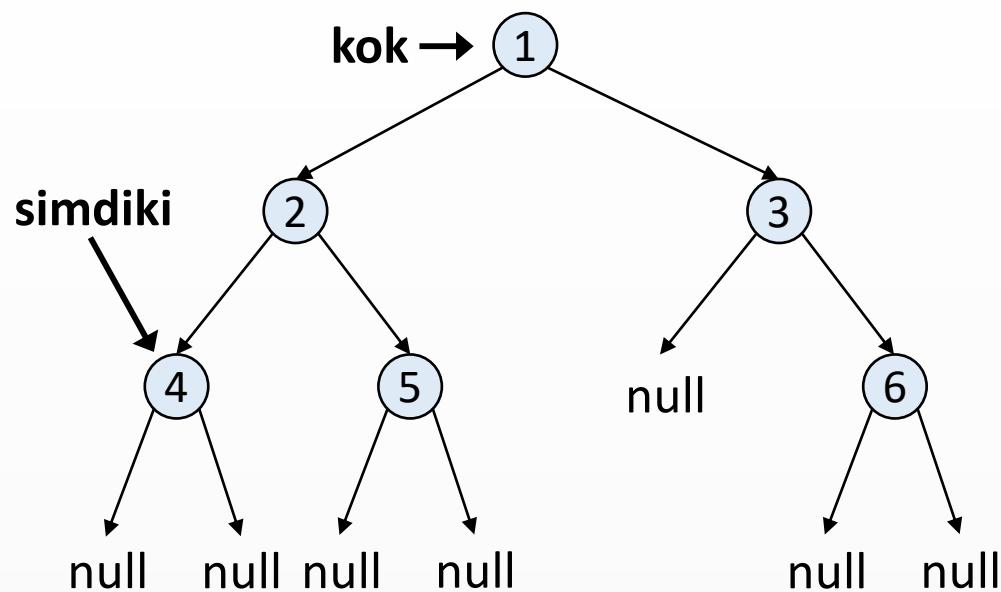
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
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        AgacDugumu gecici = yigit.peek().sag;
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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



Yığıt

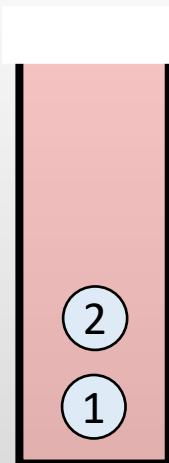
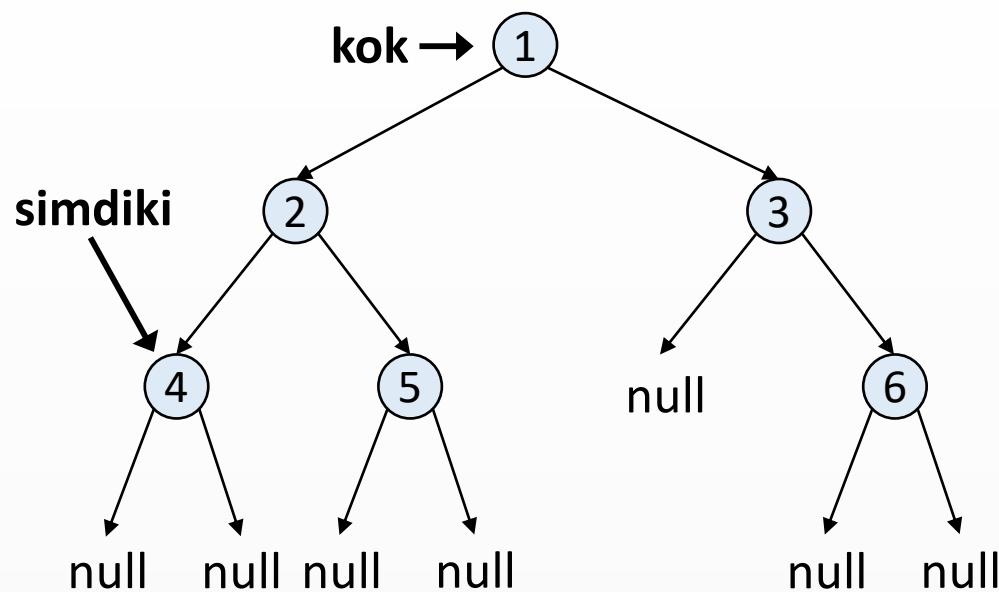
Çıktı:

```
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:

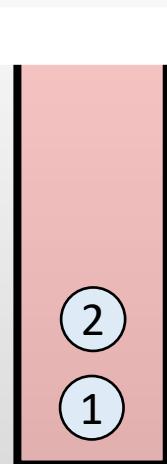
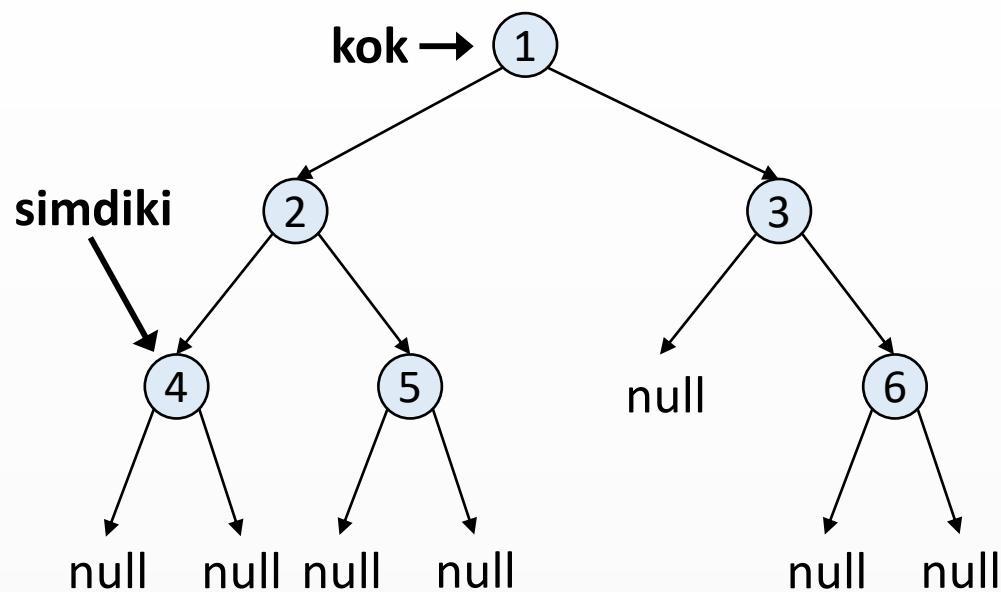
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AgacDugumu simdiki = kok;
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        }
    }
}
```



Yığıt

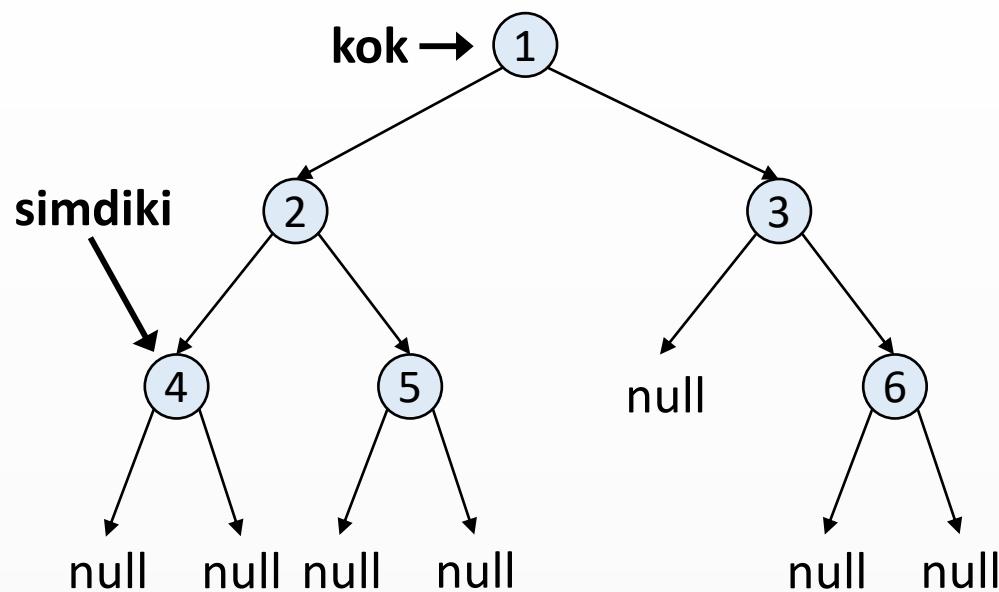
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            }  
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        else {  
            simdiki = gecici;  
        }  
    }  
}
```



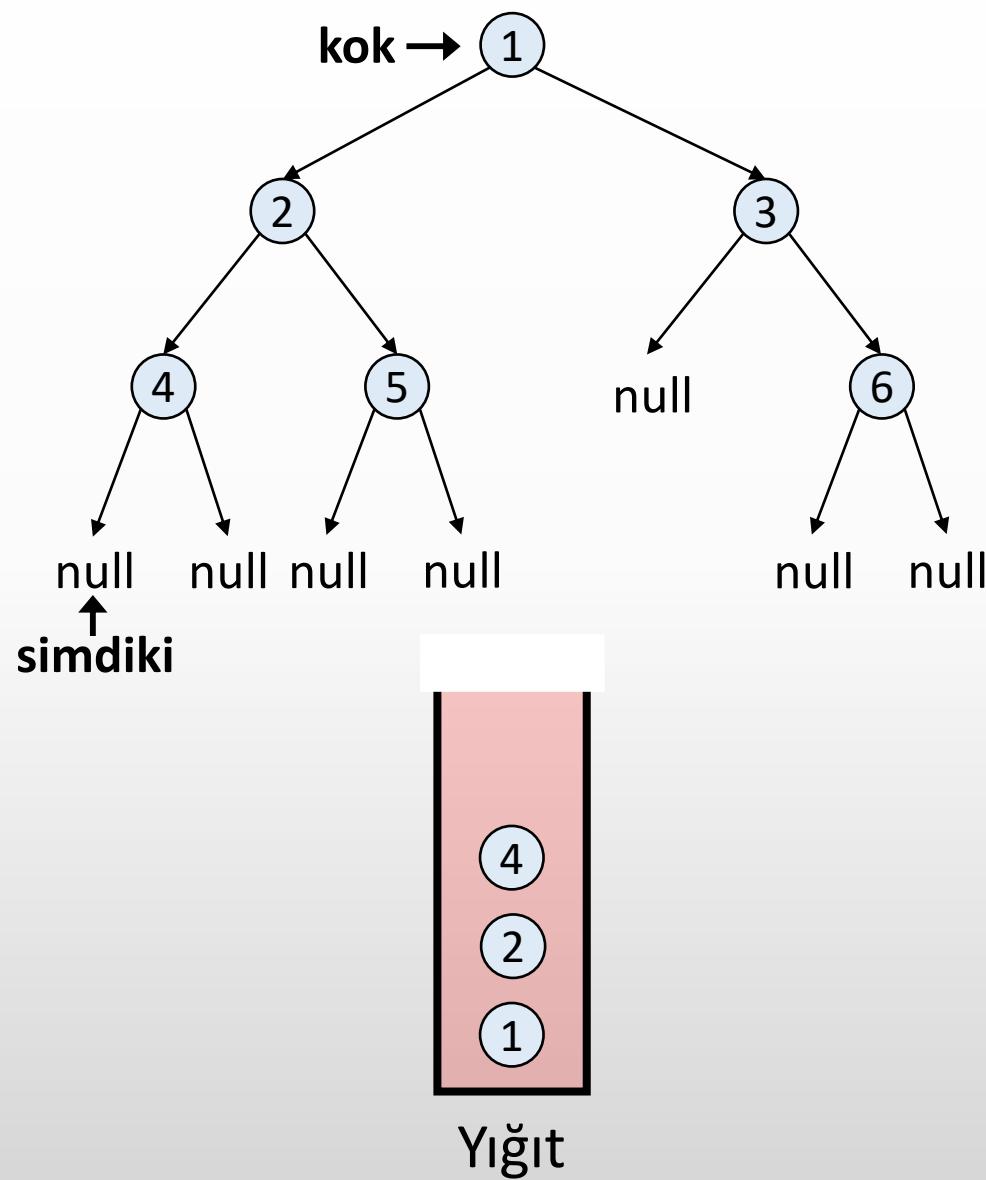
Çıktı:

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



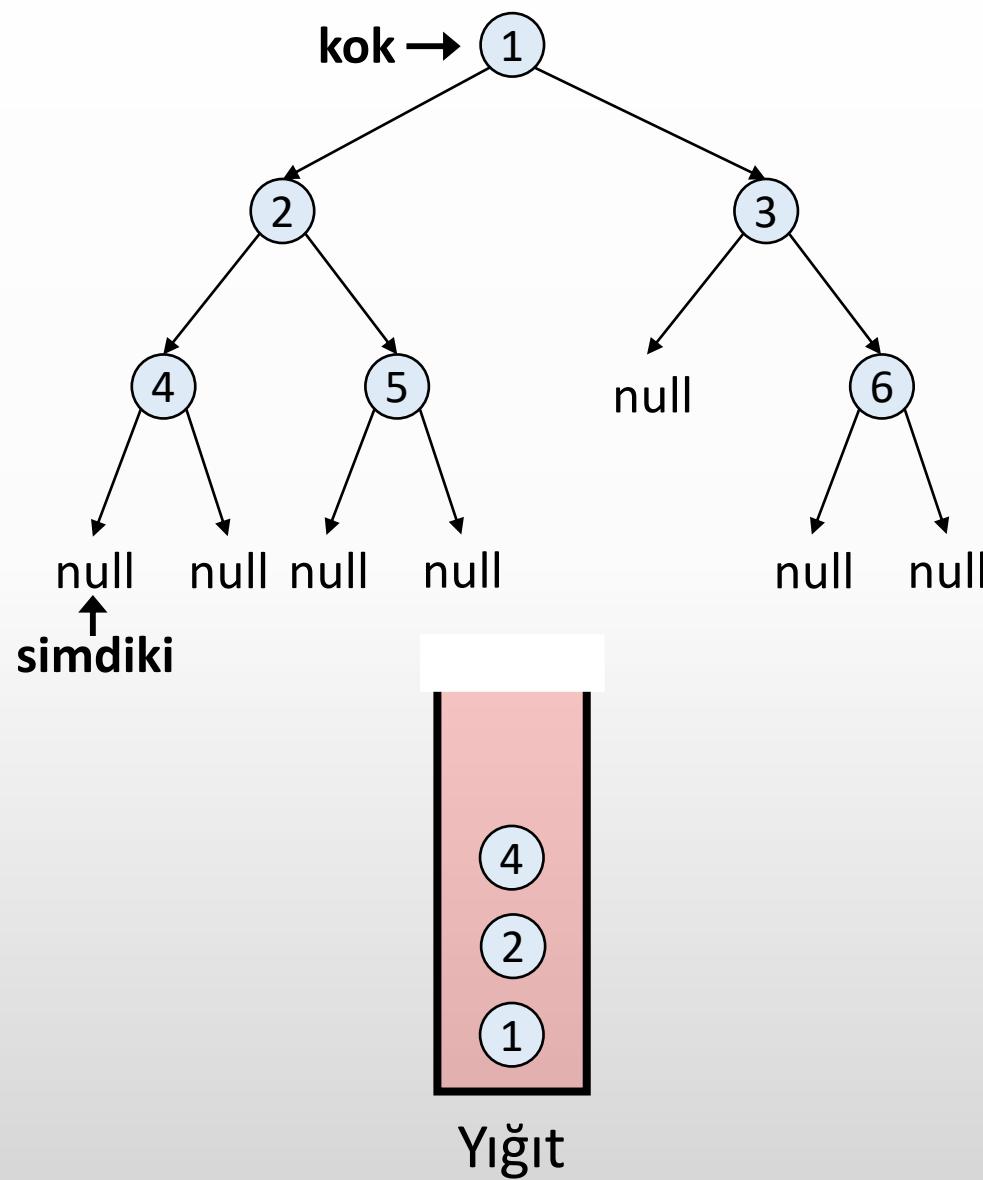
Çıktı:

```
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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            System.out.print(gecici.veri + " ");  
            while(!yigit.isEmpty() &&  
                  gecici == yigit.peek().sag) {  
                gecici = yigit.pop();  
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            }  
        }  
        else {  
            simdiki = gecici;  
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    }  
}
```



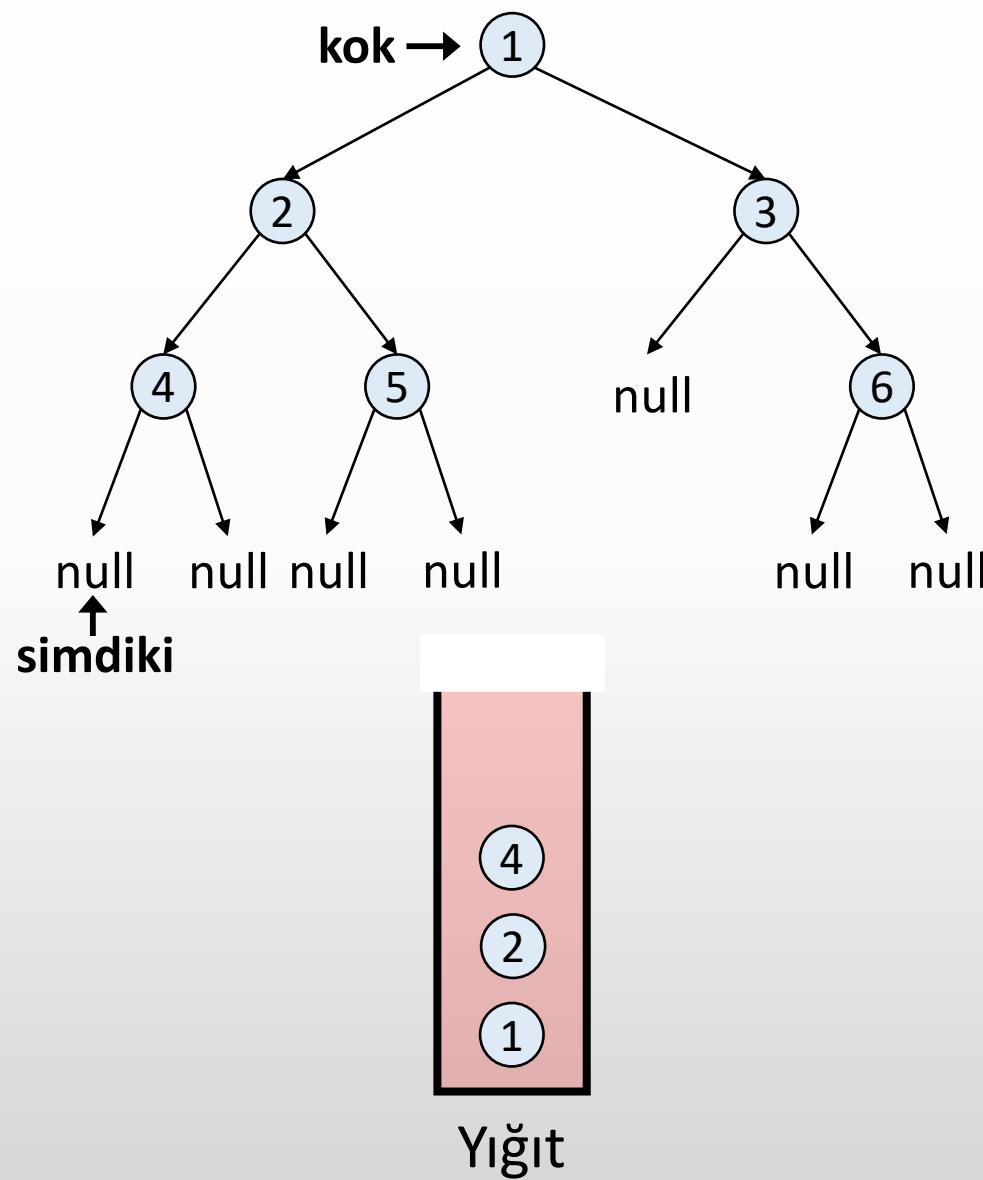
Çıktı:

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    }
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```



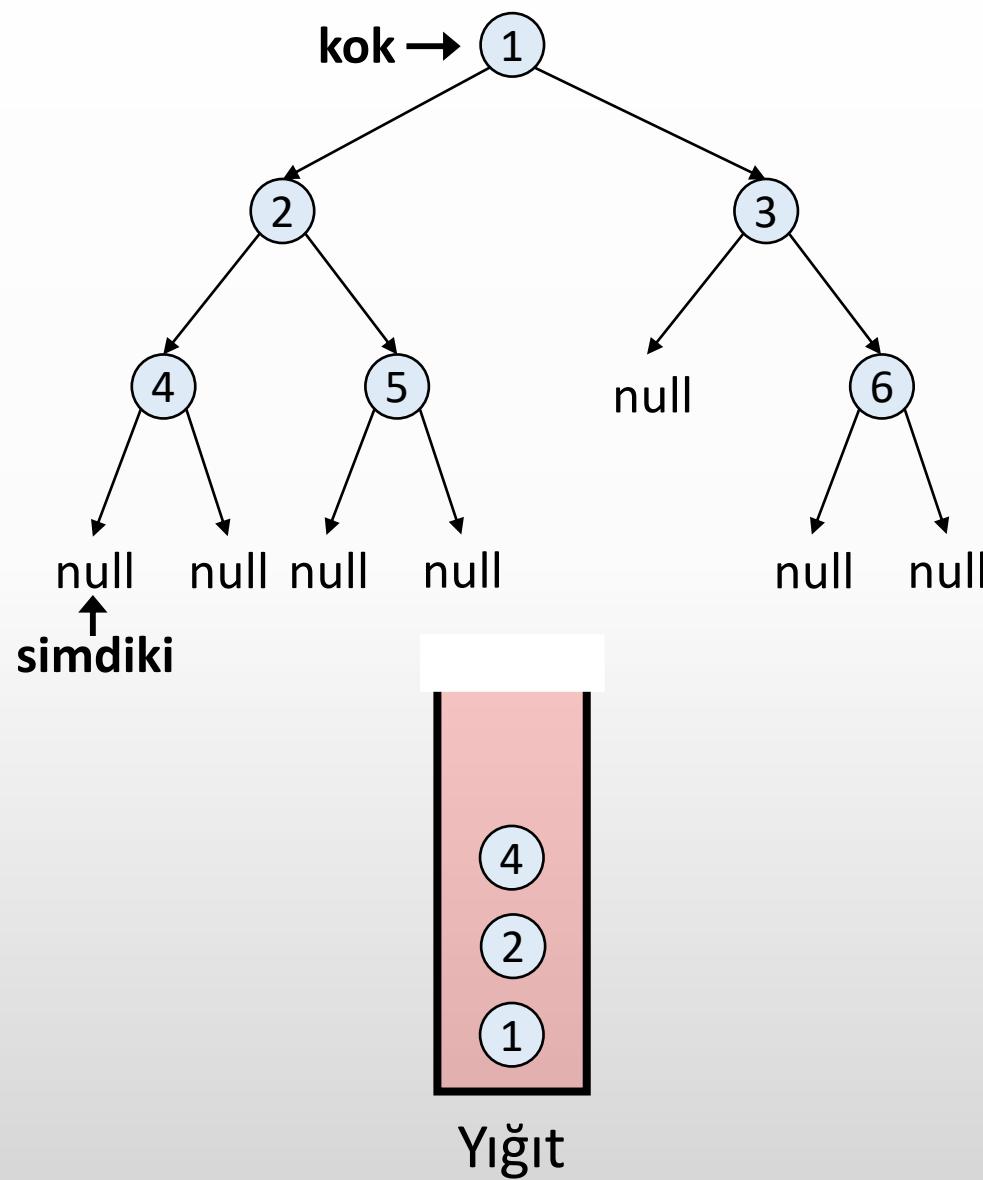
Çıktı:

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



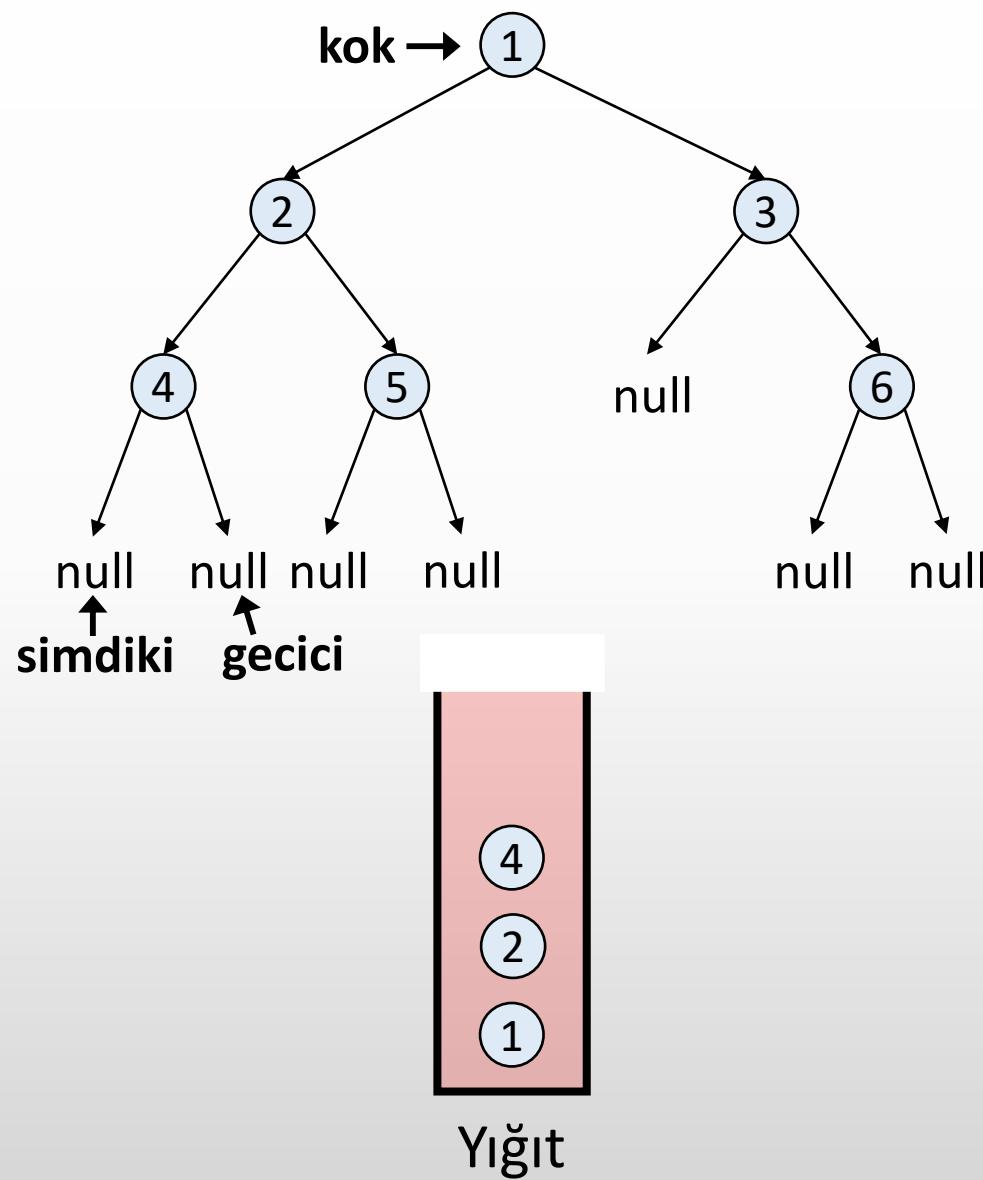
Çıktı:

```
AgacDugumu simdiki = kok;
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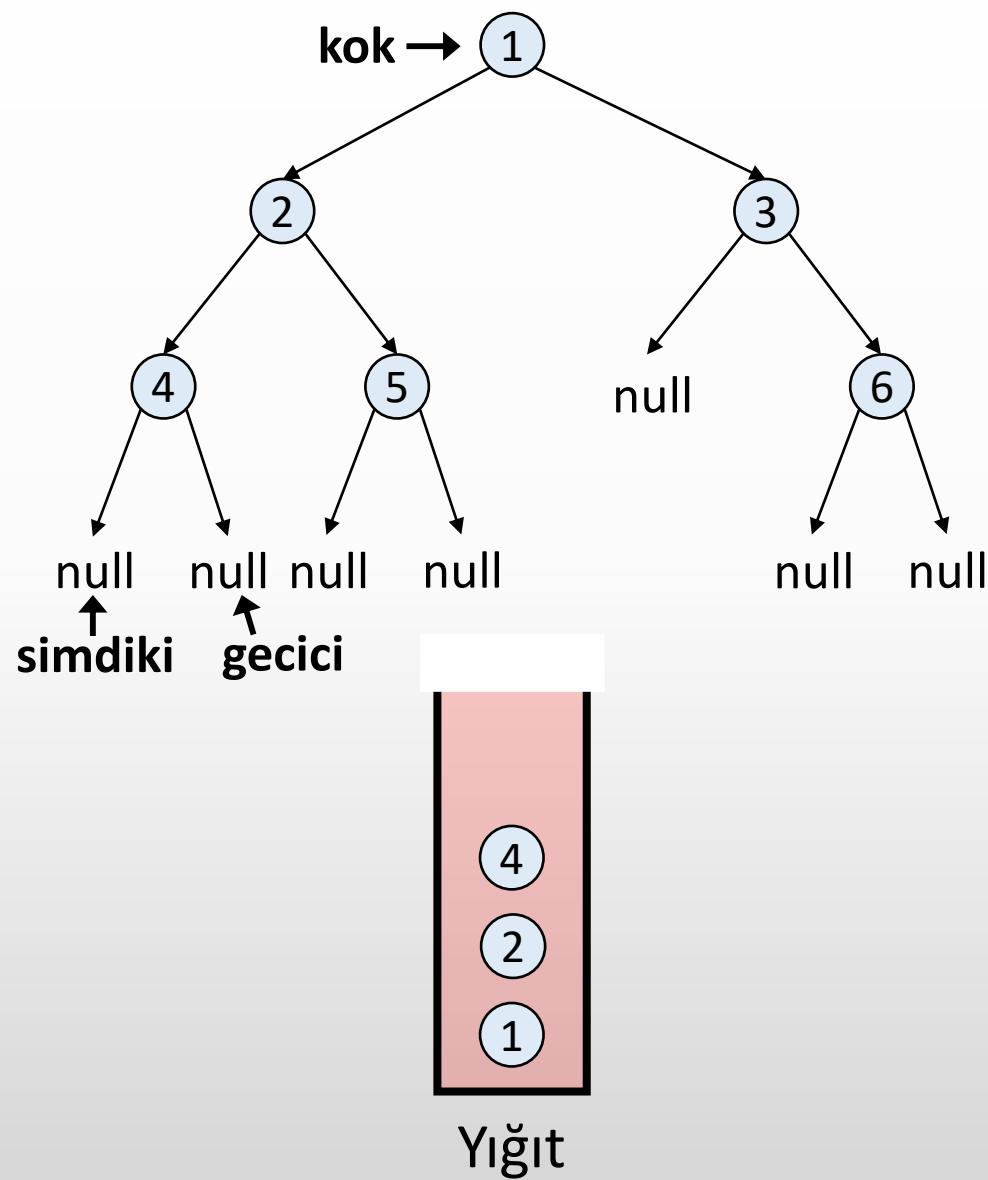
Çıktı:

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AgacDugumu simdiki = kok;  
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while(simdiki != null || !yigit.isEmpty()) {  
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    }  
}
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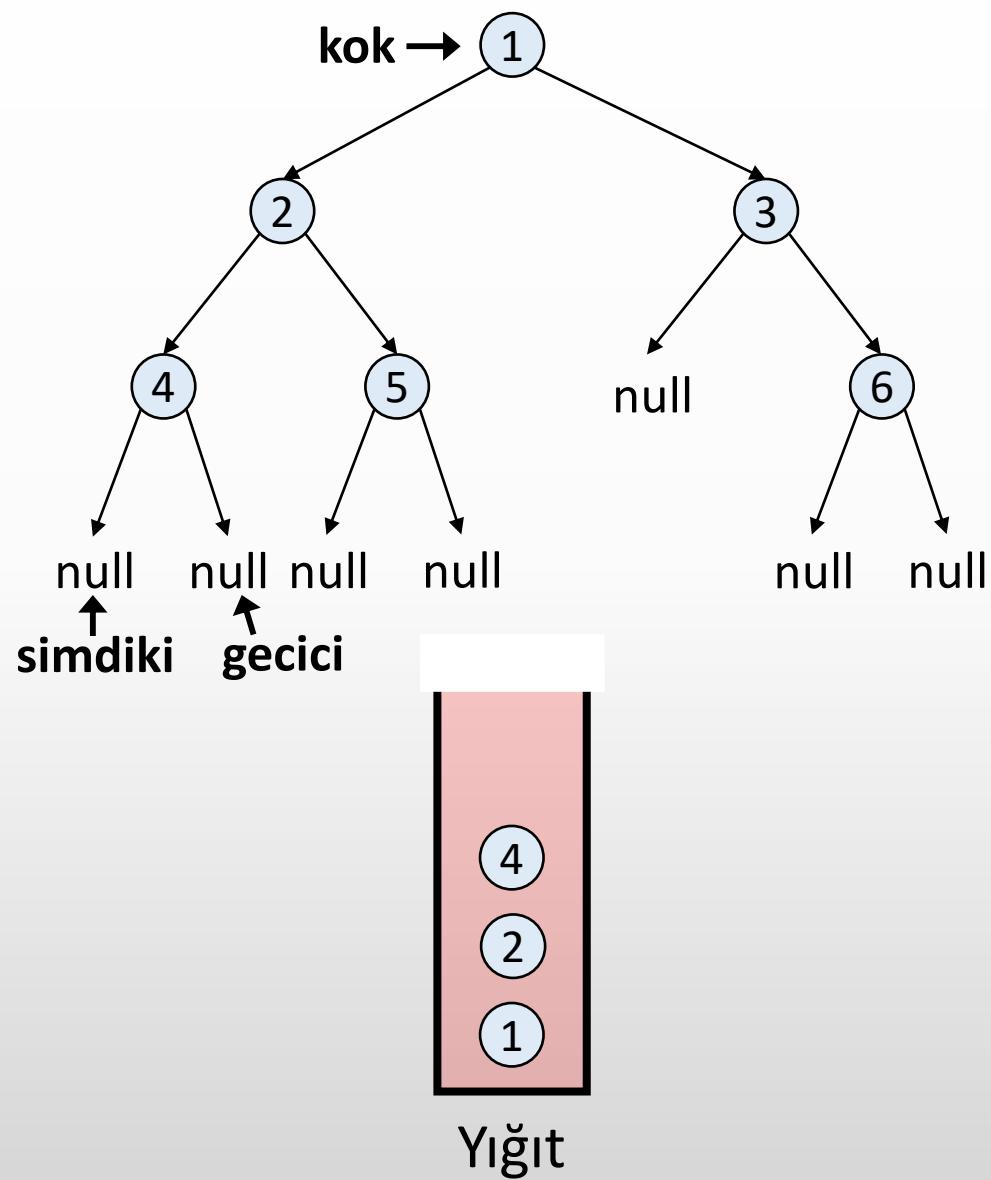
Çıktı:

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AgacDugumu simdiki = kok;
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while(simdiki != null || !yigit.isEmpty()) {
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        }
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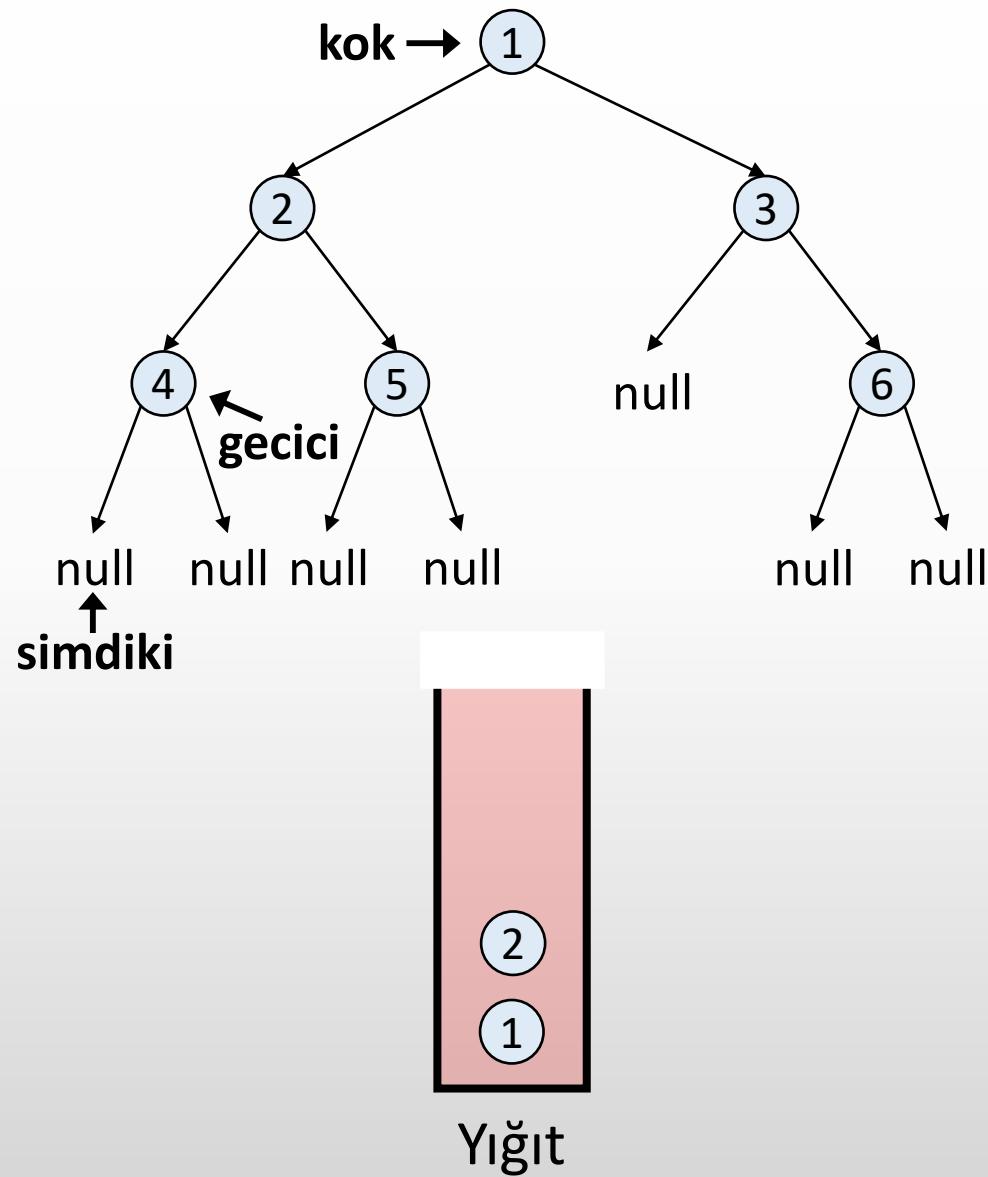
Çıktı:

```
AgacDugumu simdiki = kok;
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        }
        else {
            simdiki = gecici;
        }
    }
}
```



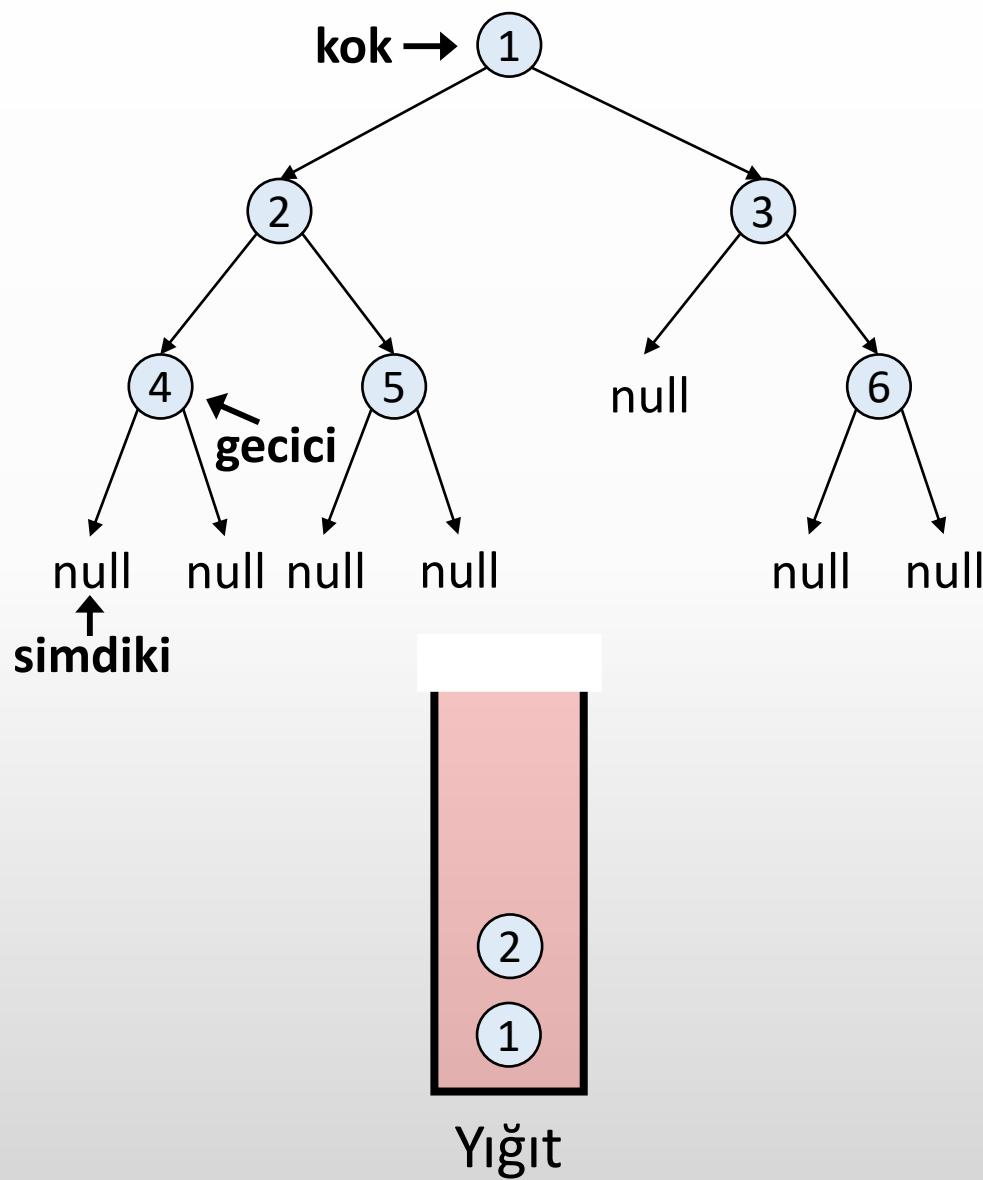
Çıktı:

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



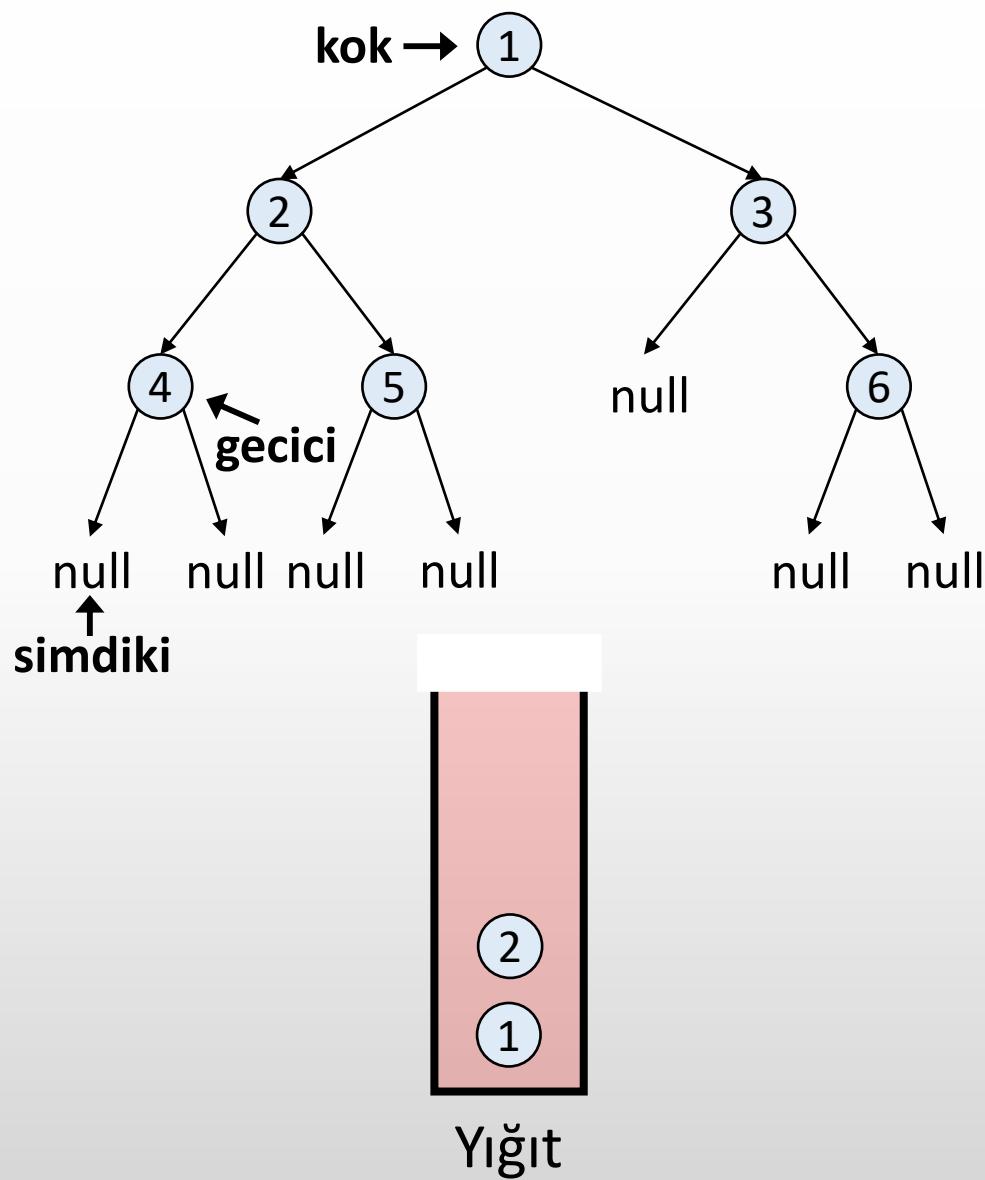
Çıktı:

```
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;
        }
    }
}
```



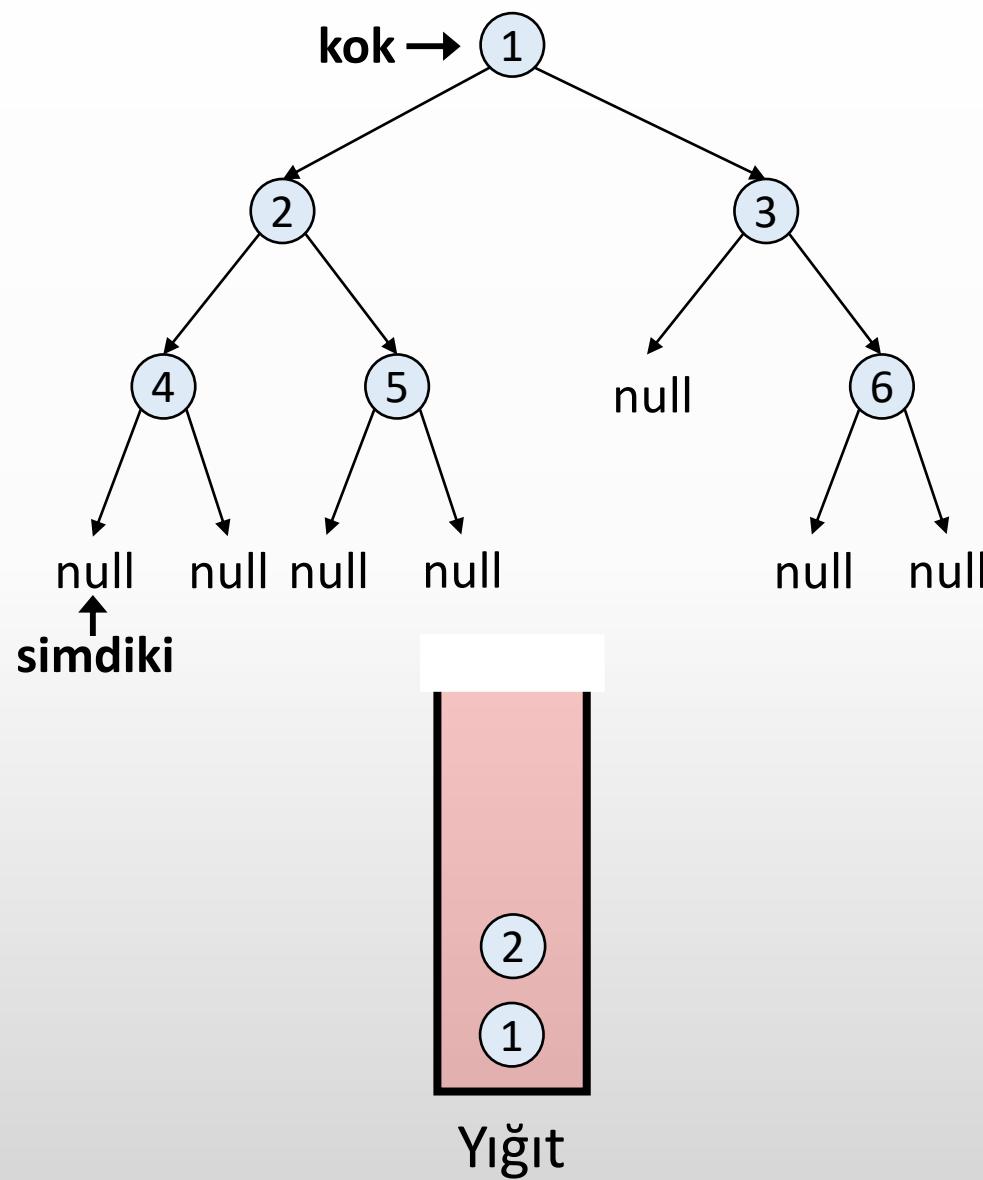
Çıktı: 4

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
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        }
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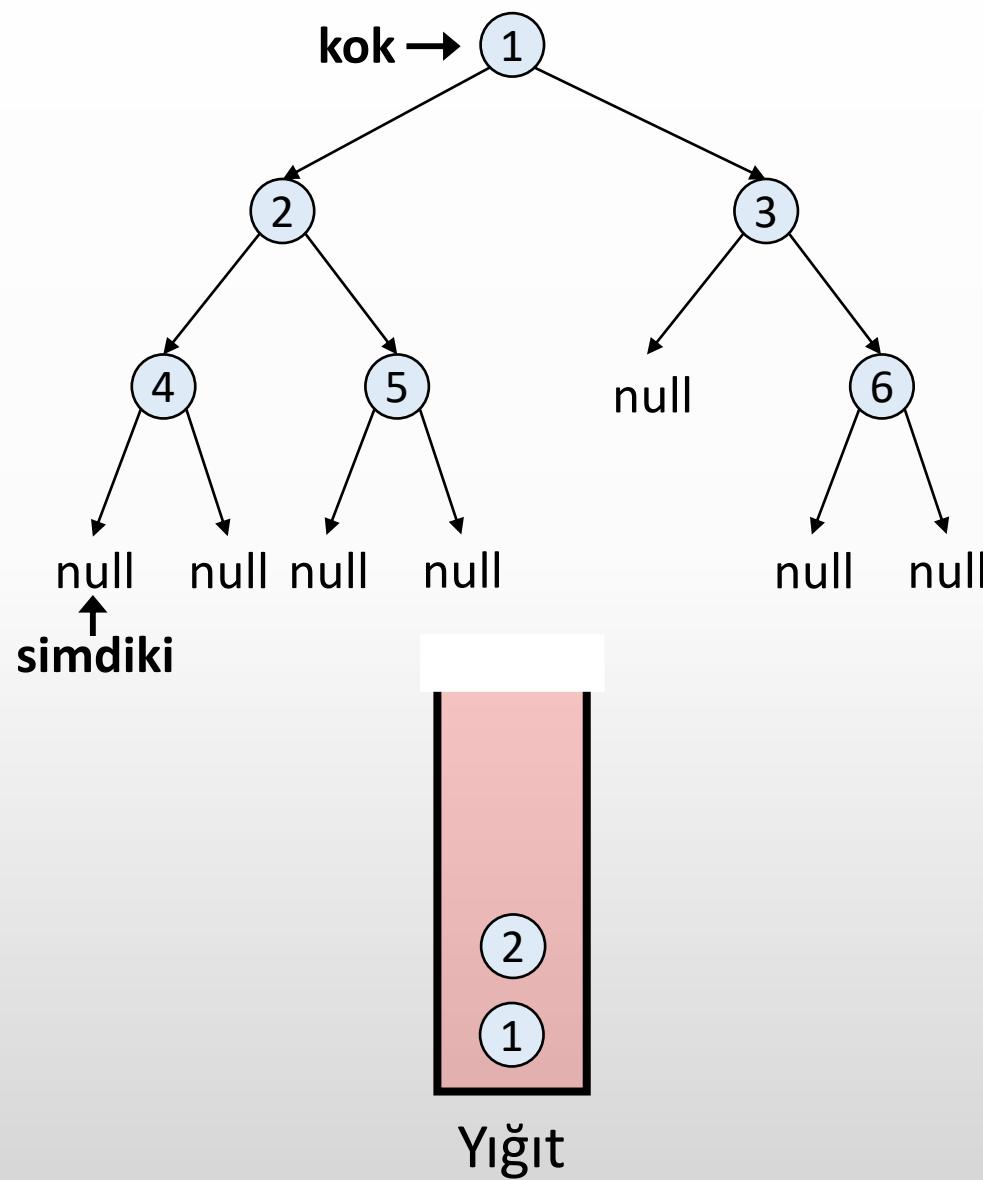
Çıktı: 4

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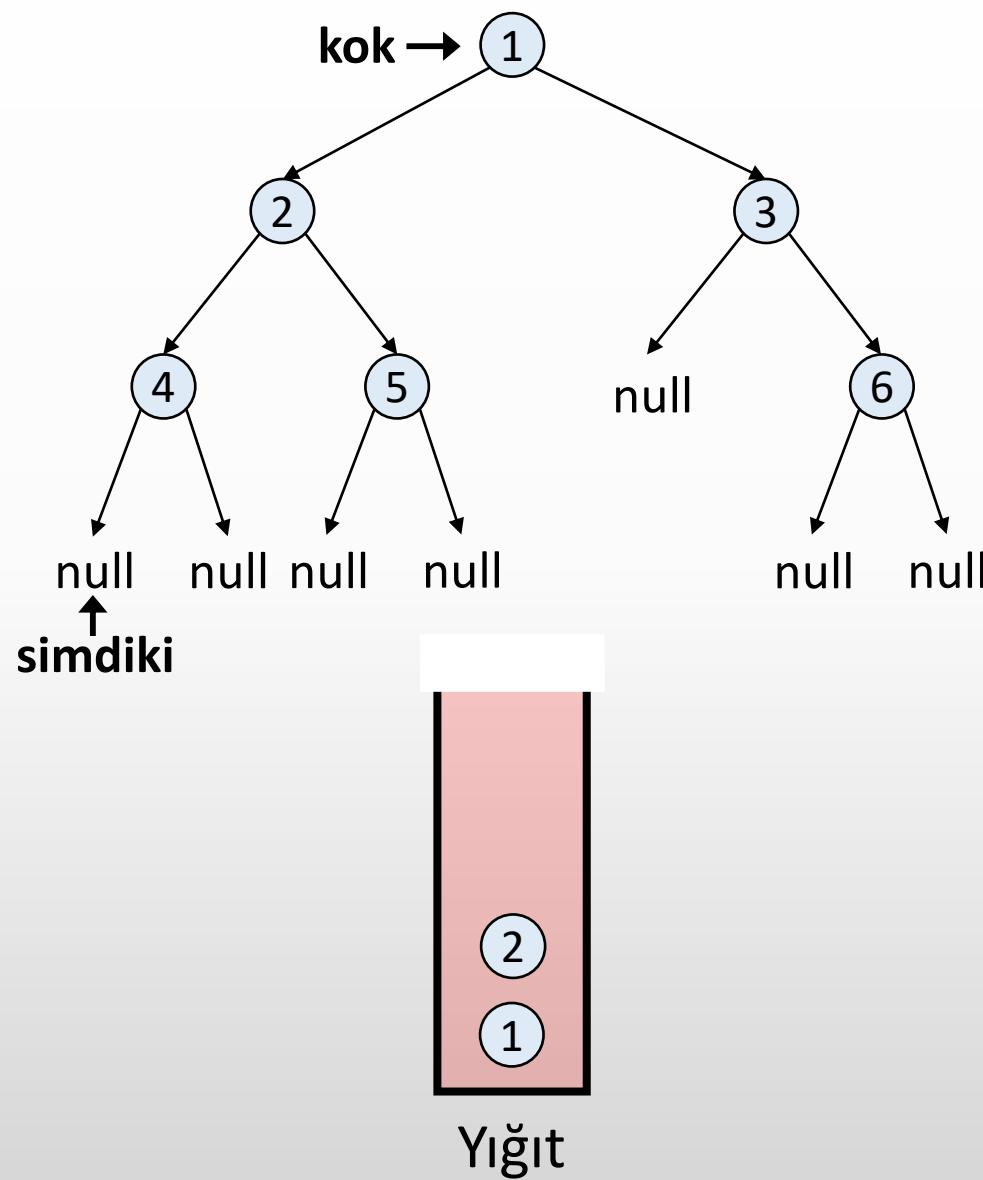
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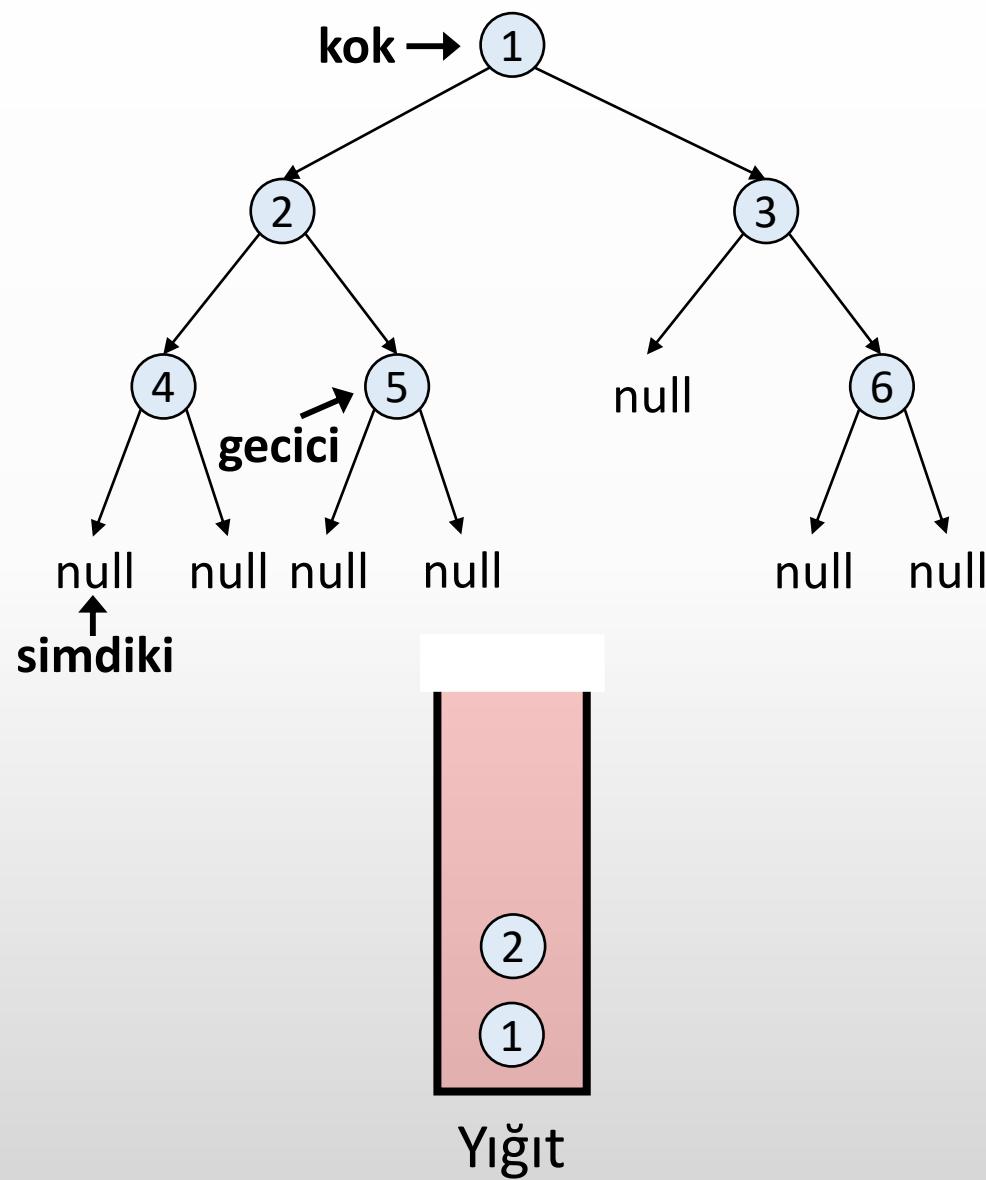
Çıktı: 4

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AgacDugumu simdiki = kok;
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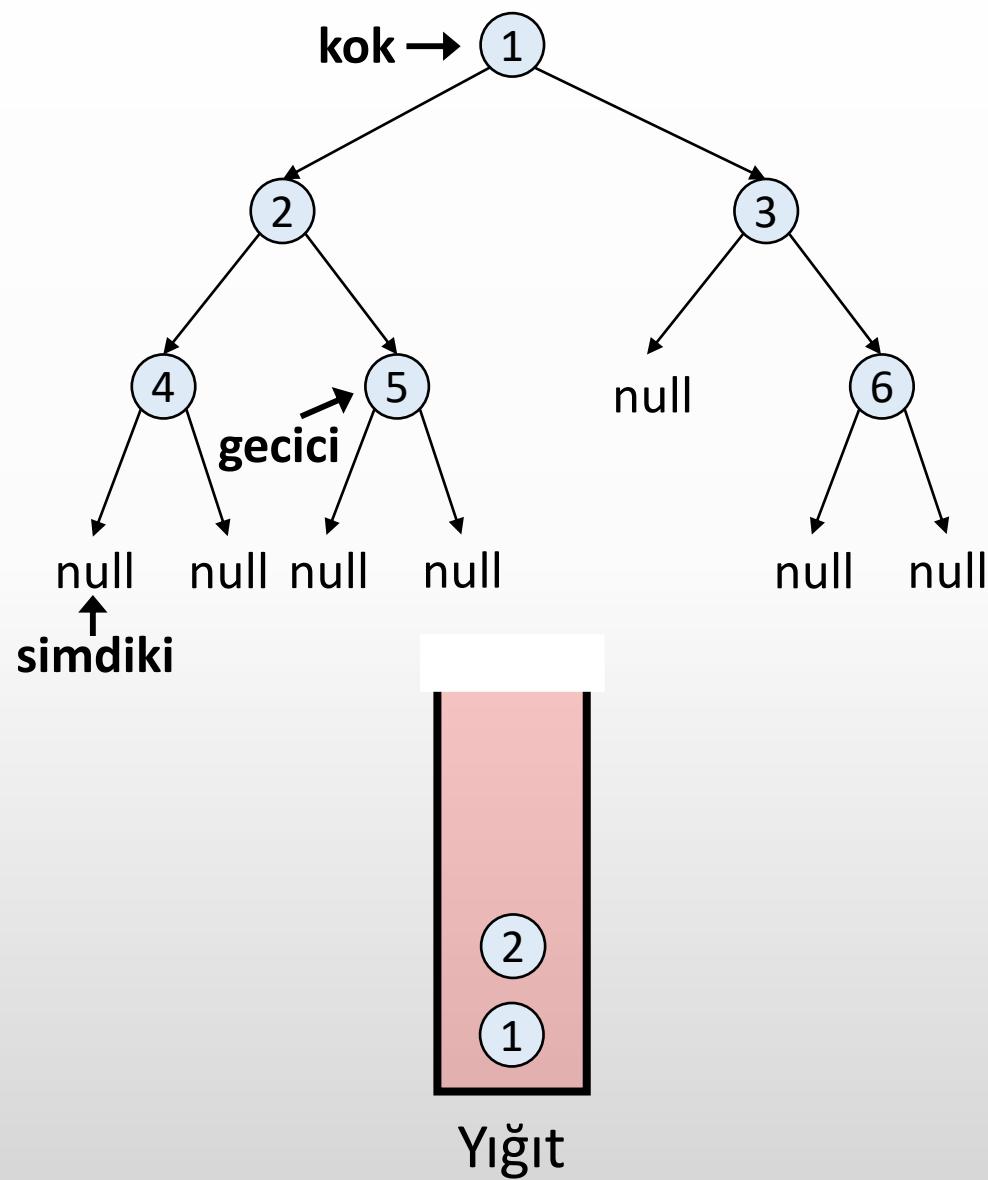
Çıktı: 4

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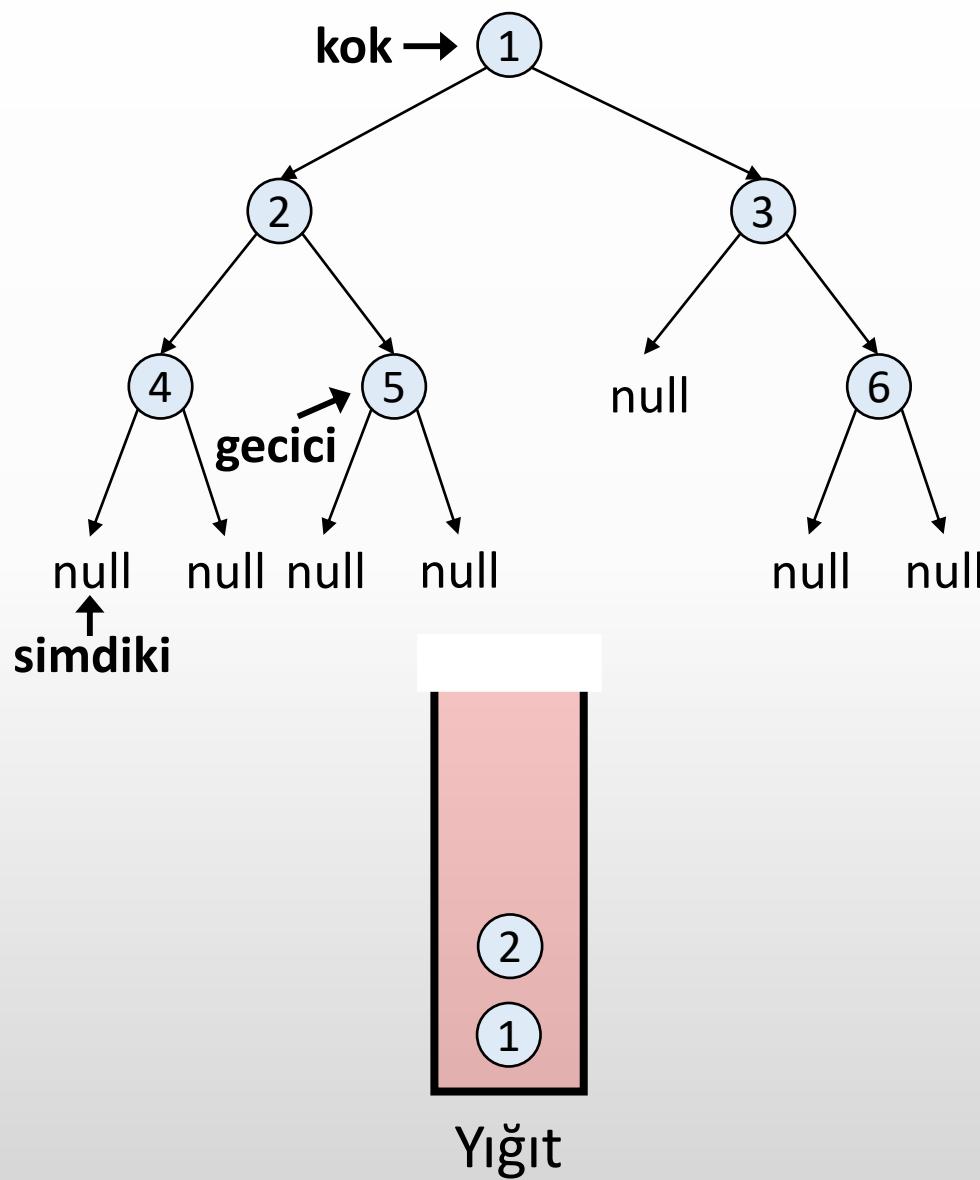
Çıktı: 4

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        }
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    }
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```



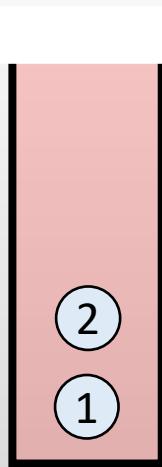
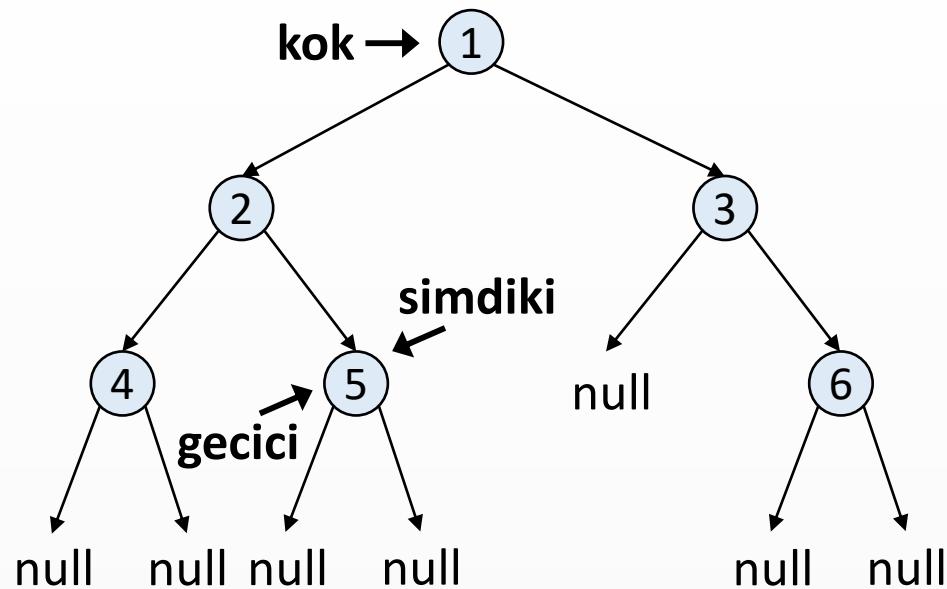
Çıktı: 4

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AgacDugumu simdiki = kok;
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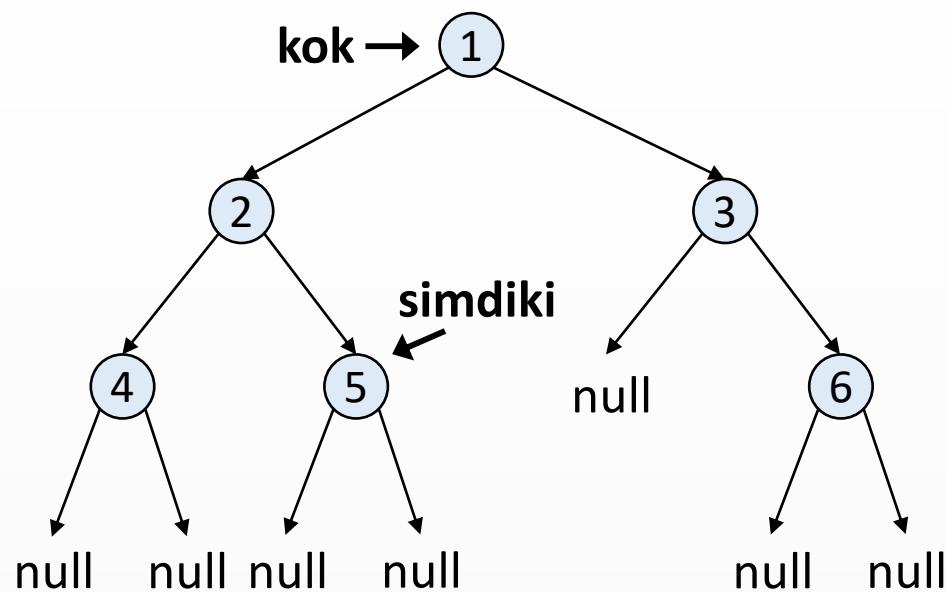
Çıktı: 4

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



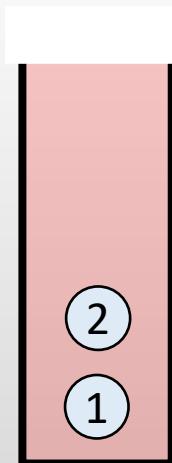
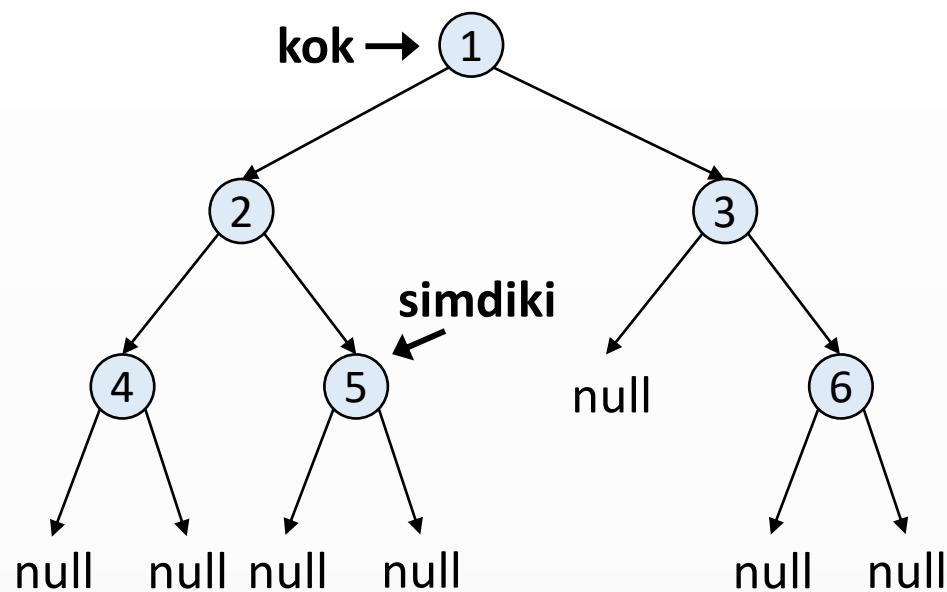
Çıktı: 4

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            simdiki = gecici;
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    }
}
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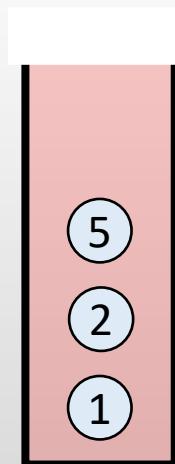
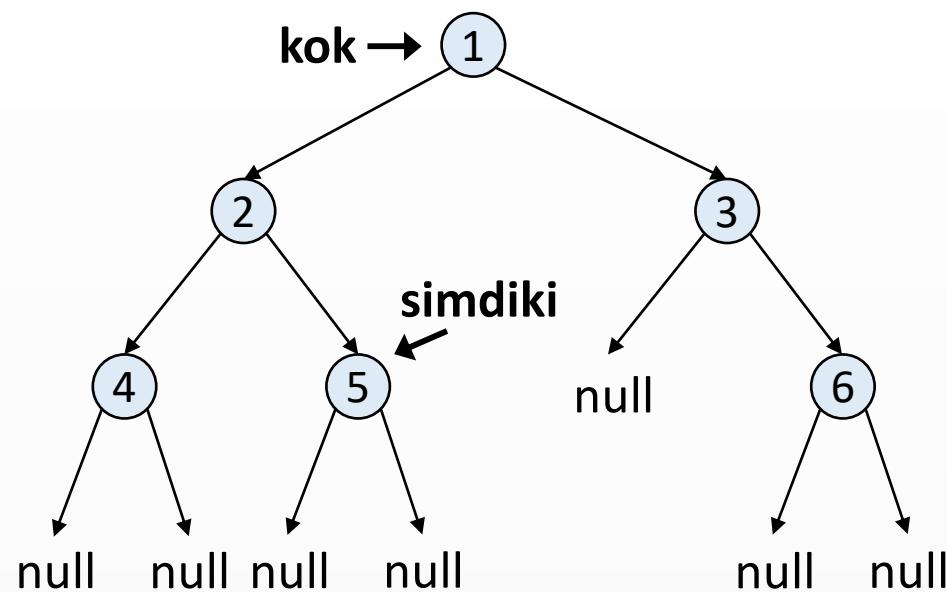
Çıktı: 4

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```



Çıktı: 4

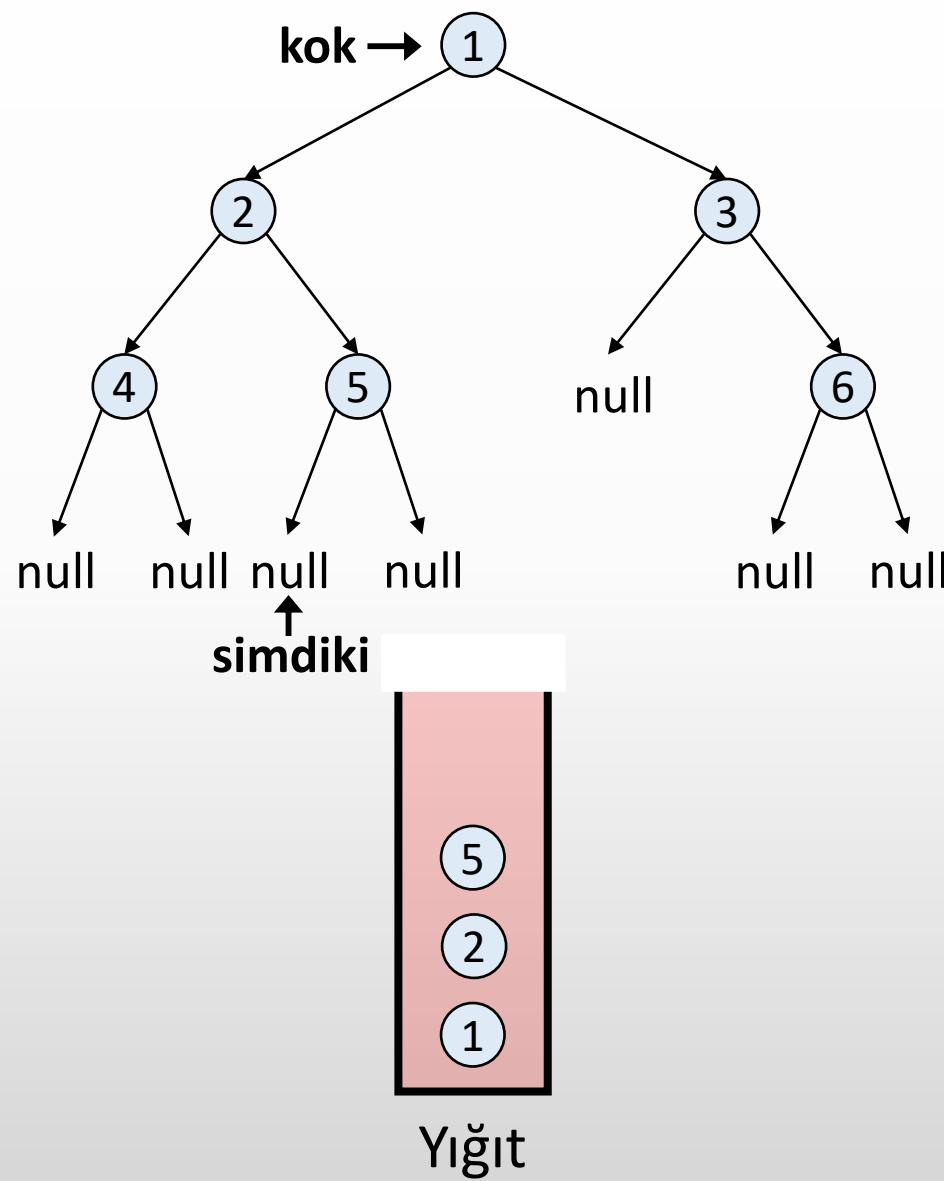
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Yığıt

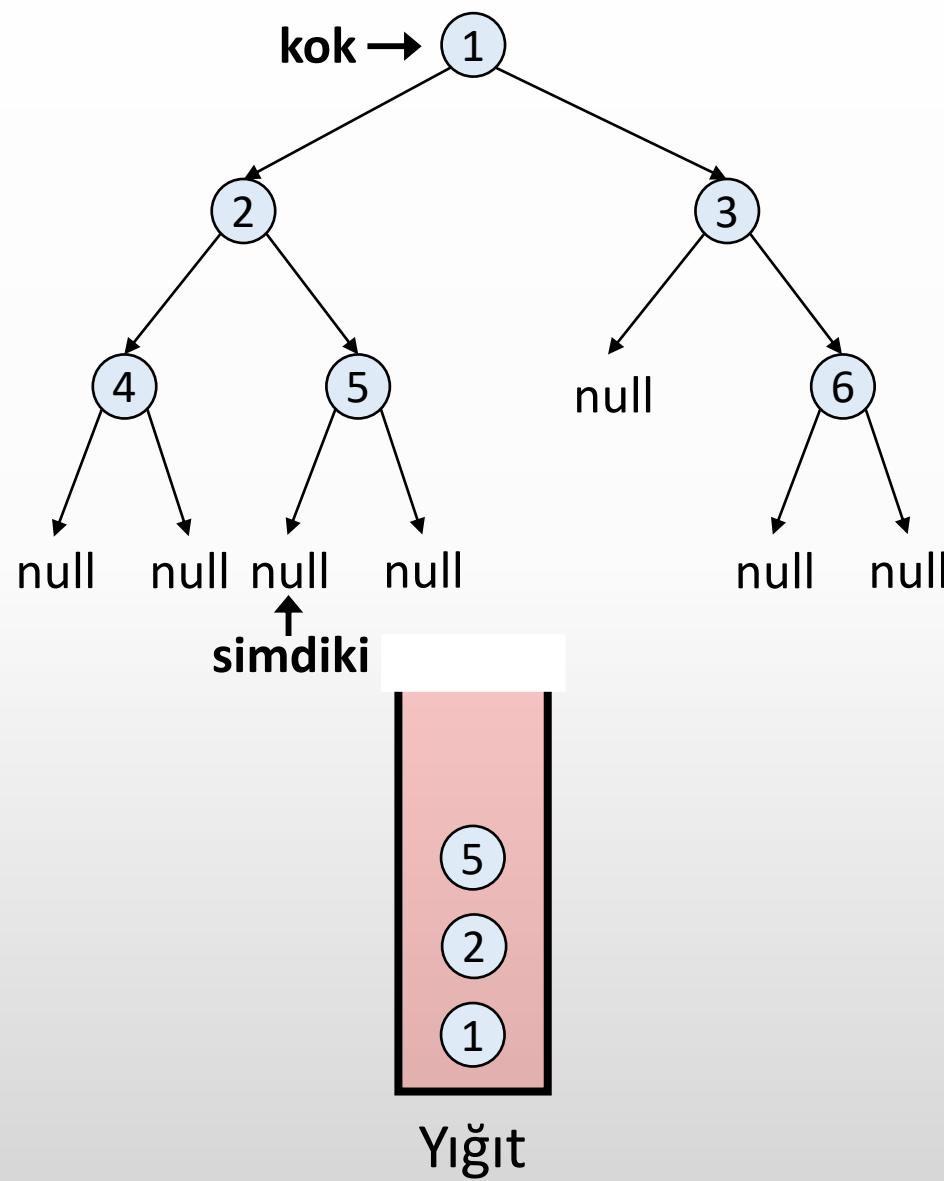
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                System.out.print(gecici.veri + " ");
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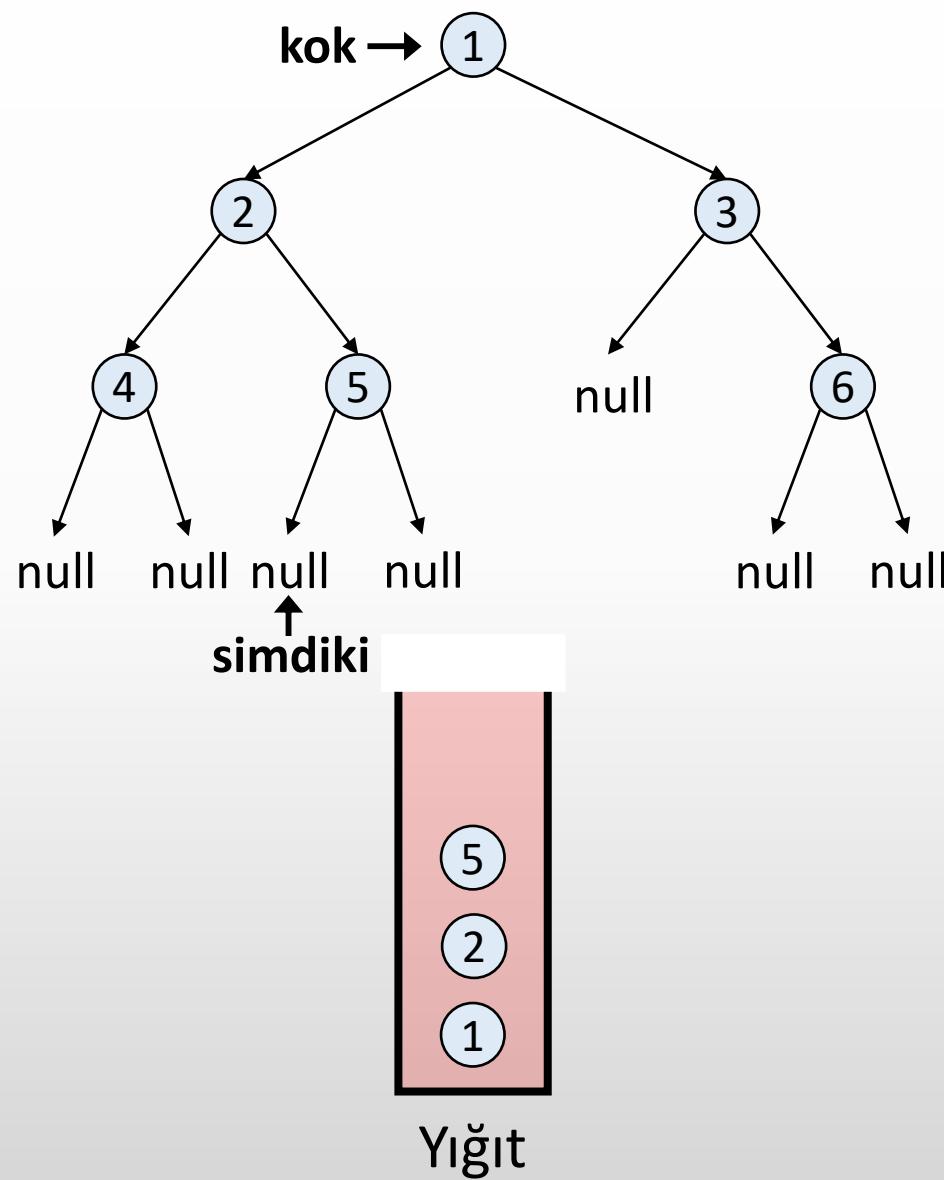
Çıktı: 4

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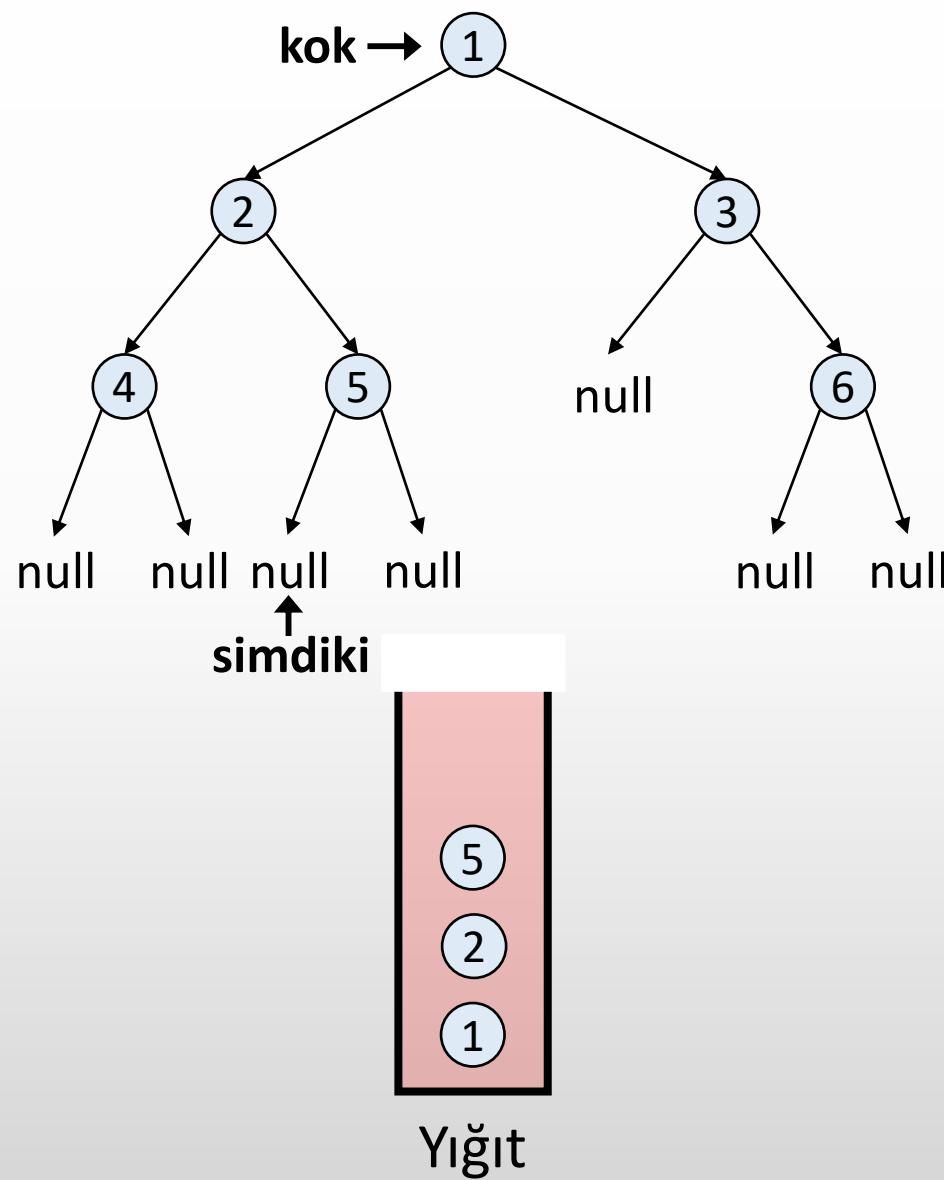
Çıktı: 4

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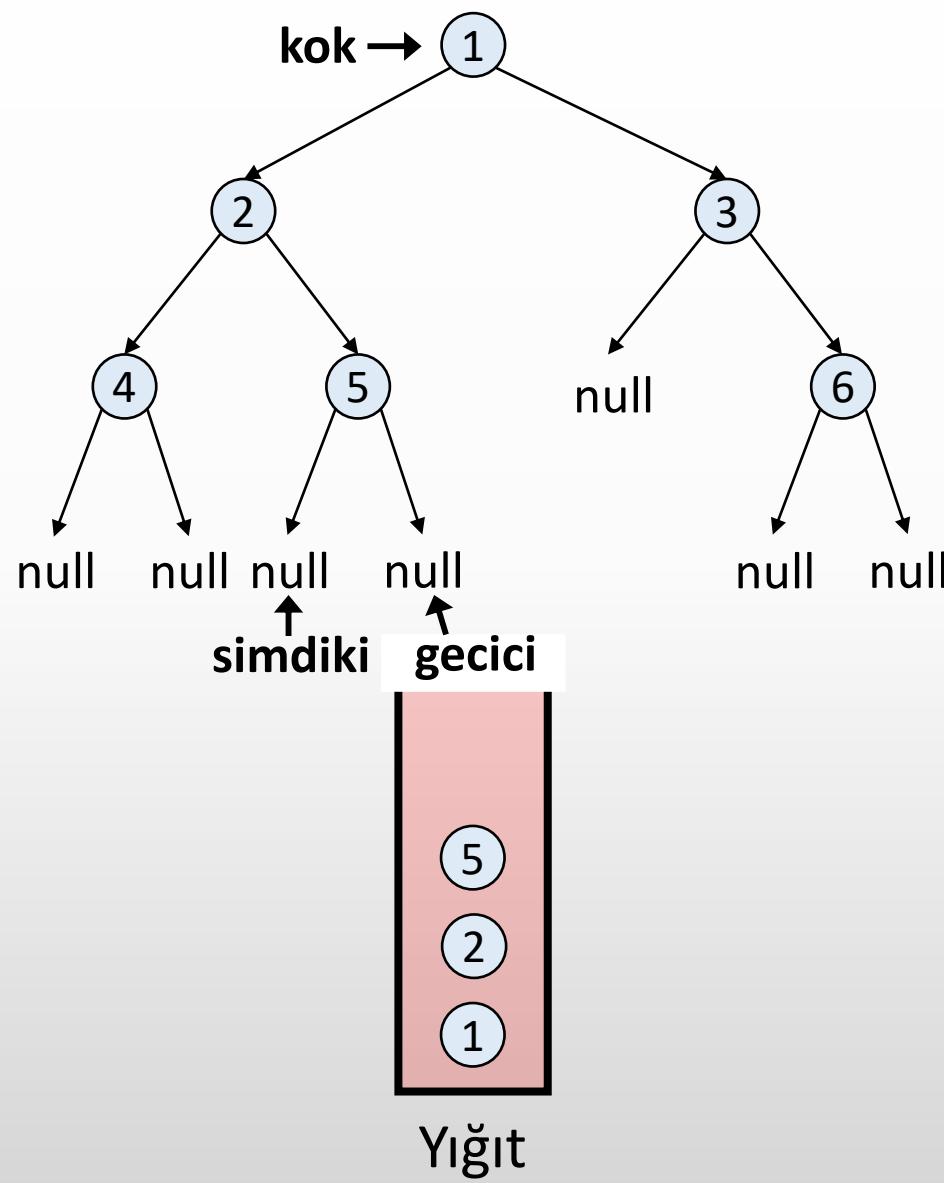
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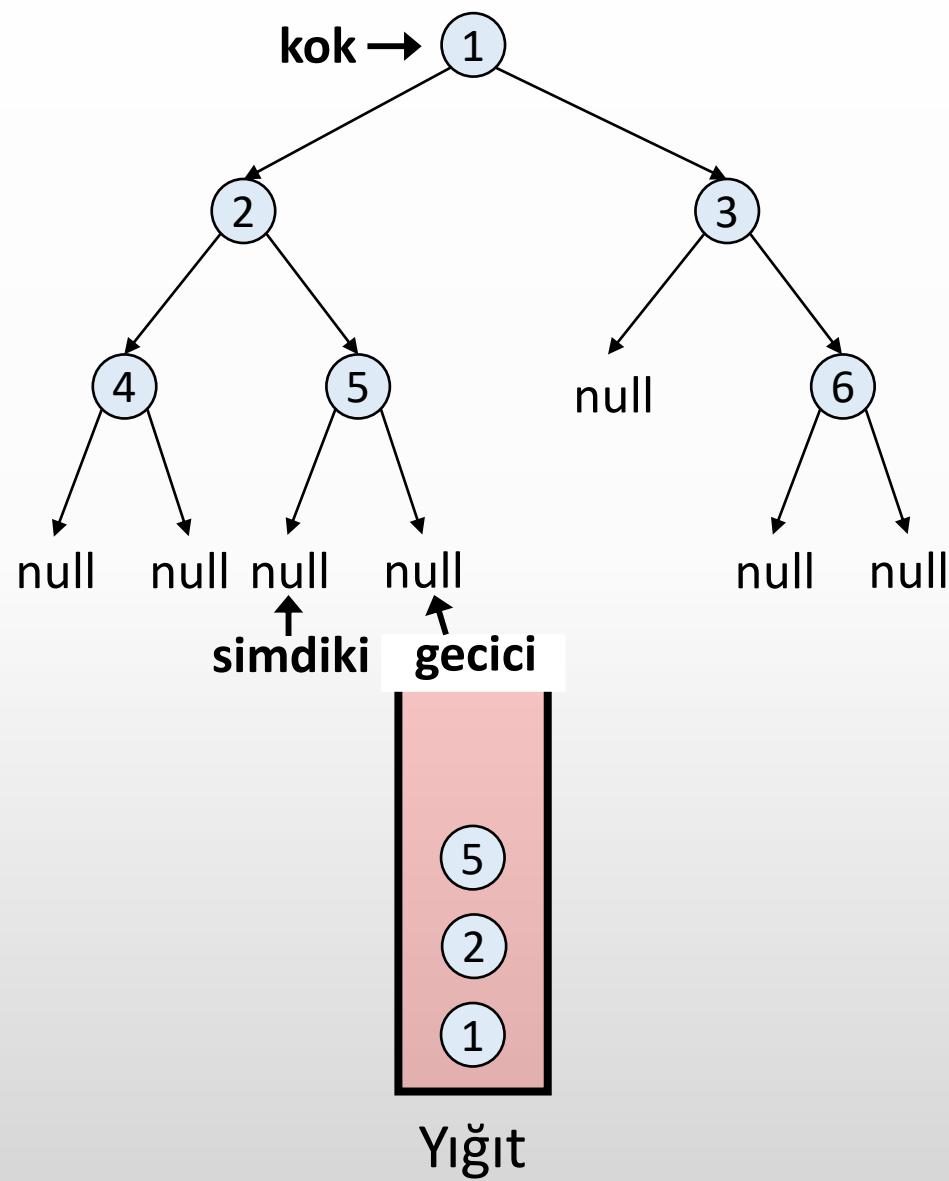
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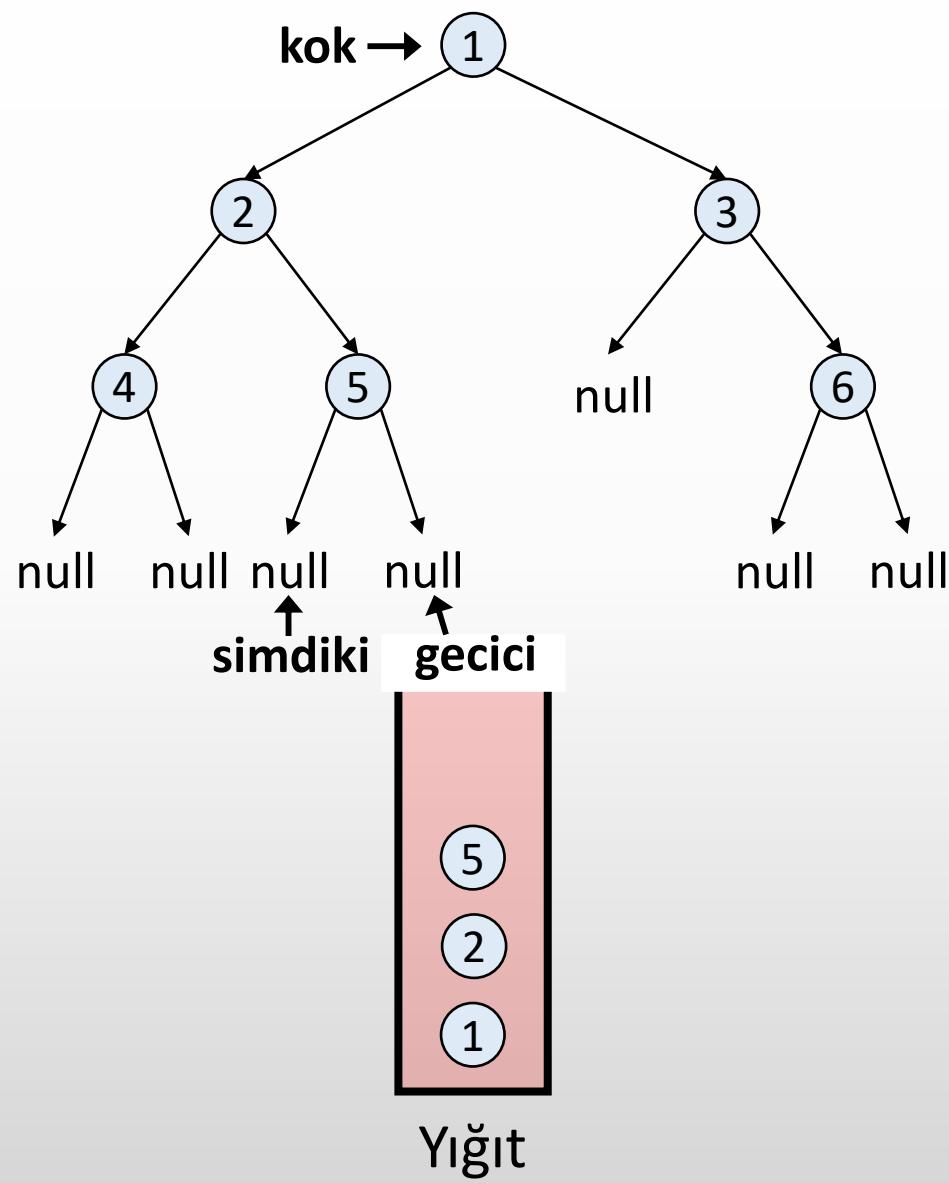
Çıktı: 4

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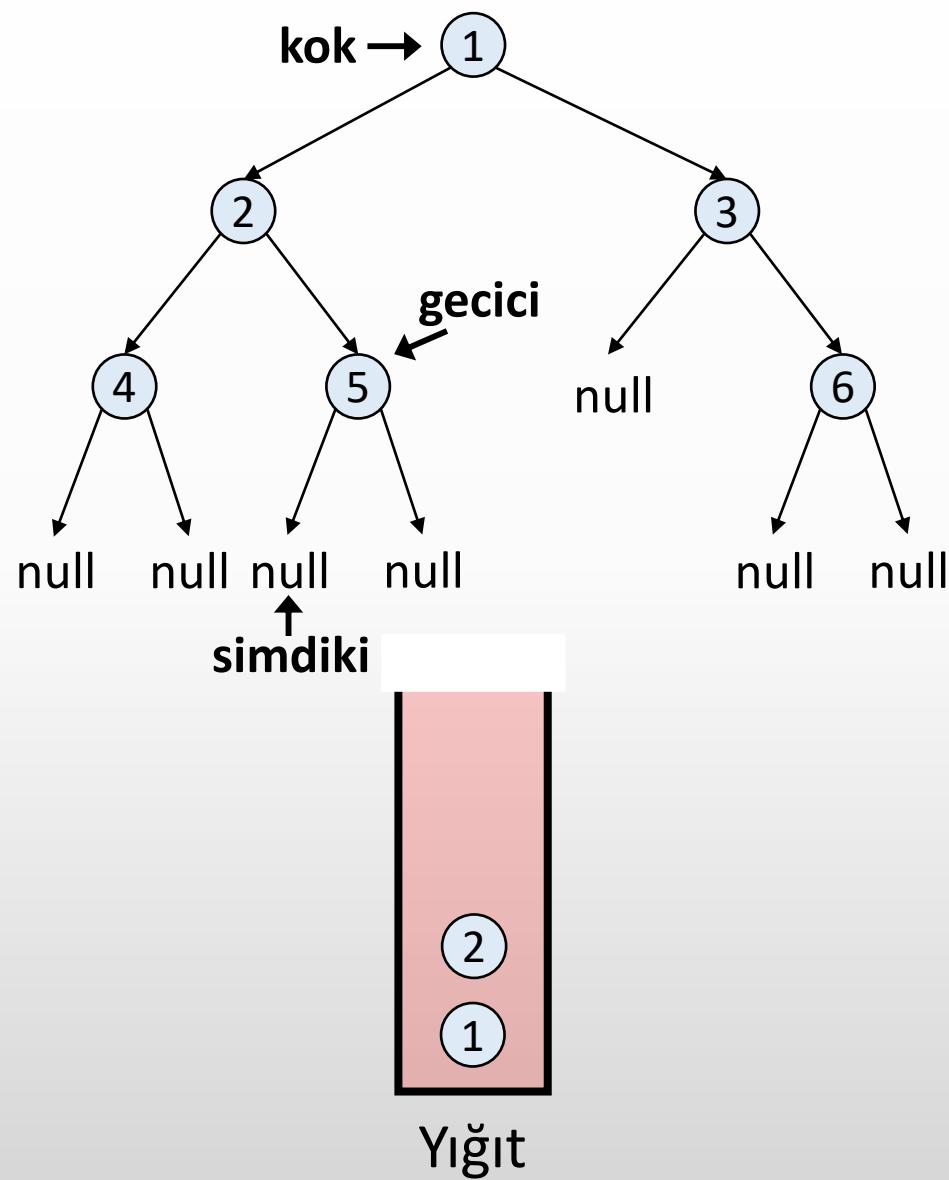
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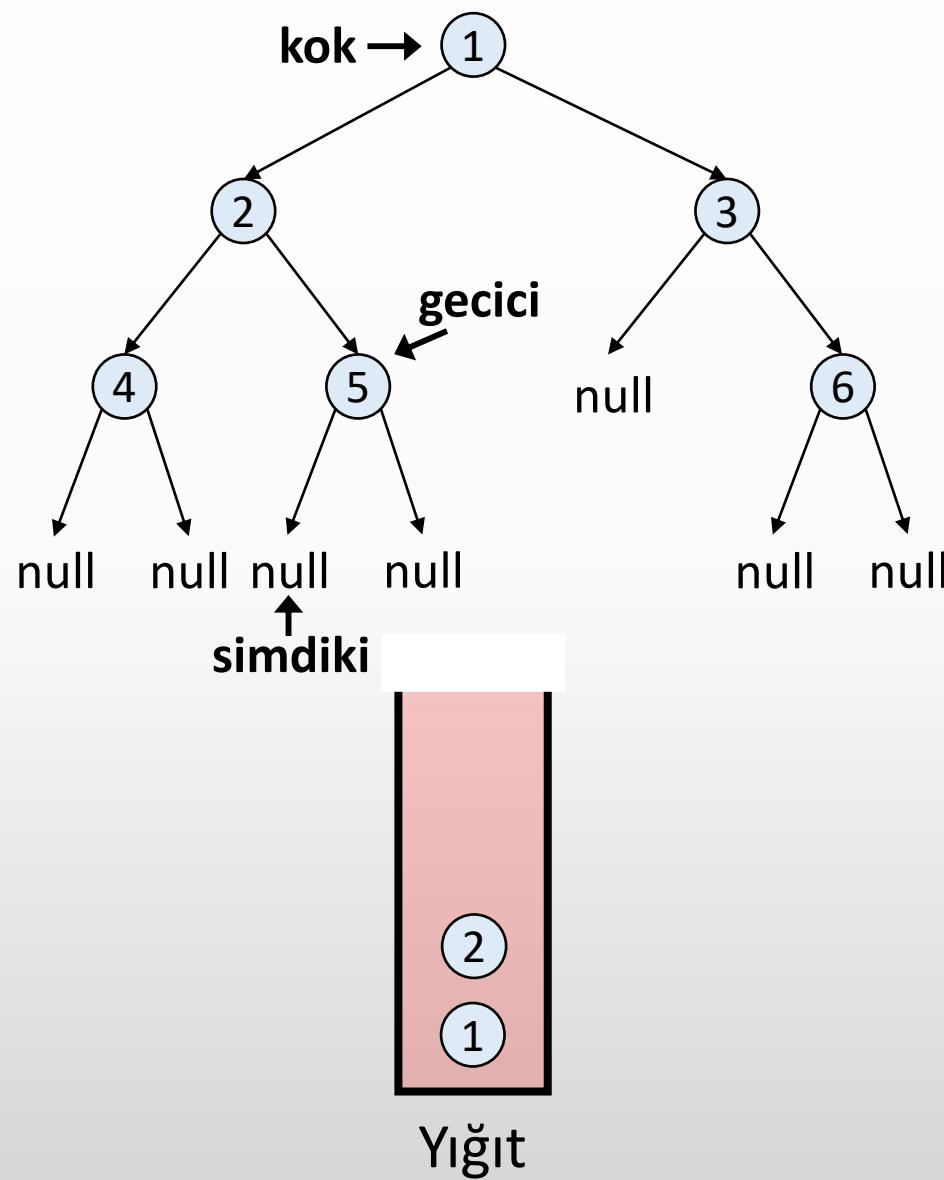
Çıktı: 4

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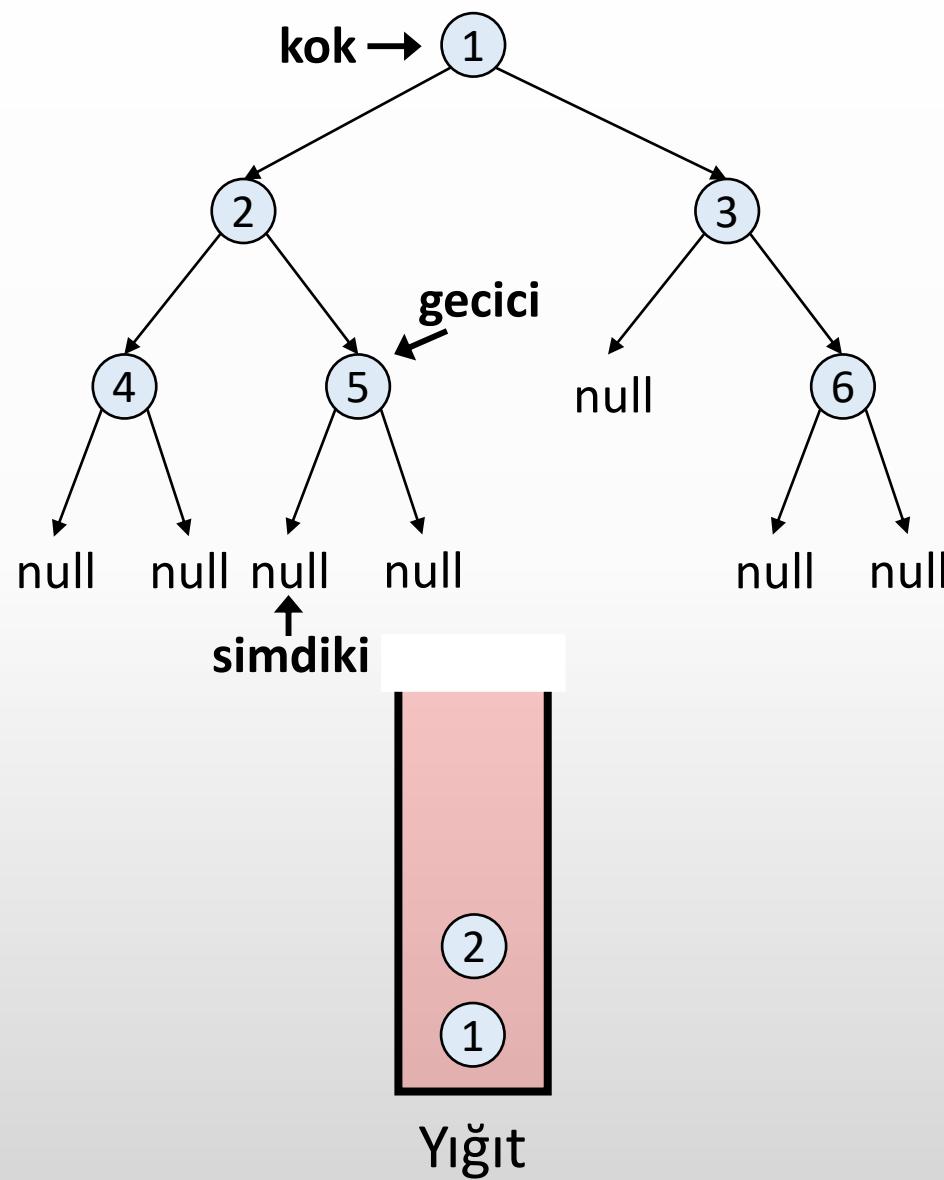
Çıktı: 4

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AgacDugumu simdiki = kok;
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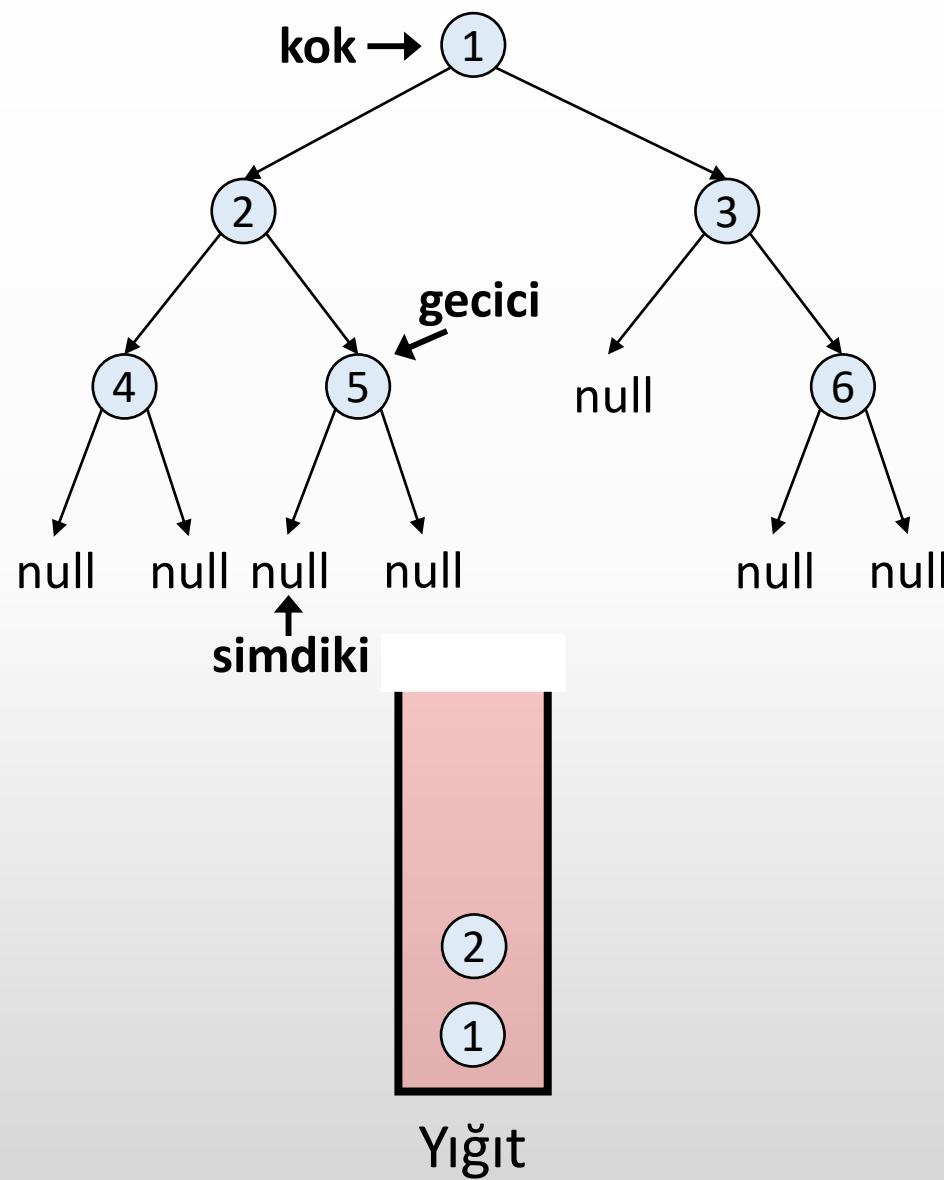
Çıktı: 4 5

```
AgacDugumu simdiki = kok;
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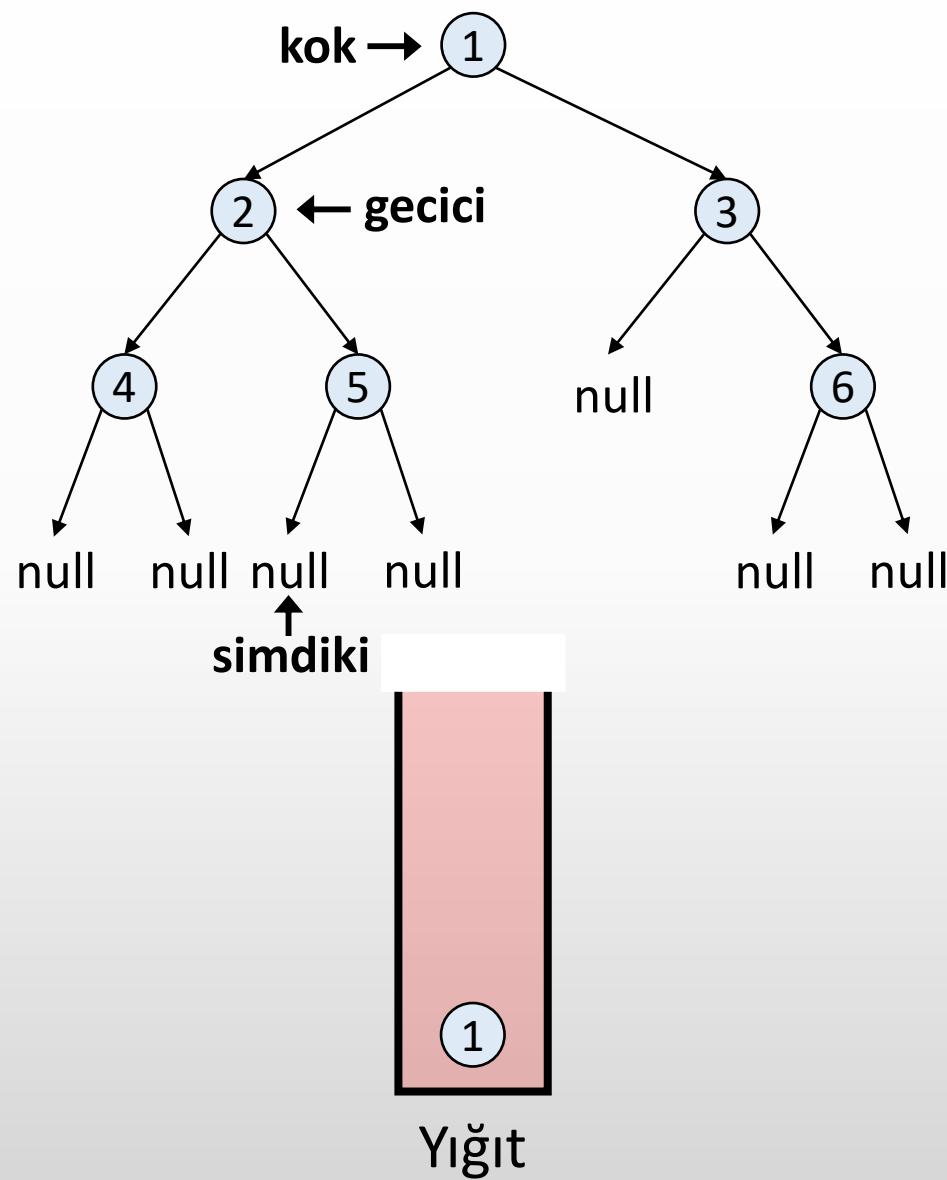
Çıktı: 4 5

```
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;  
        }  
    }  
}
```



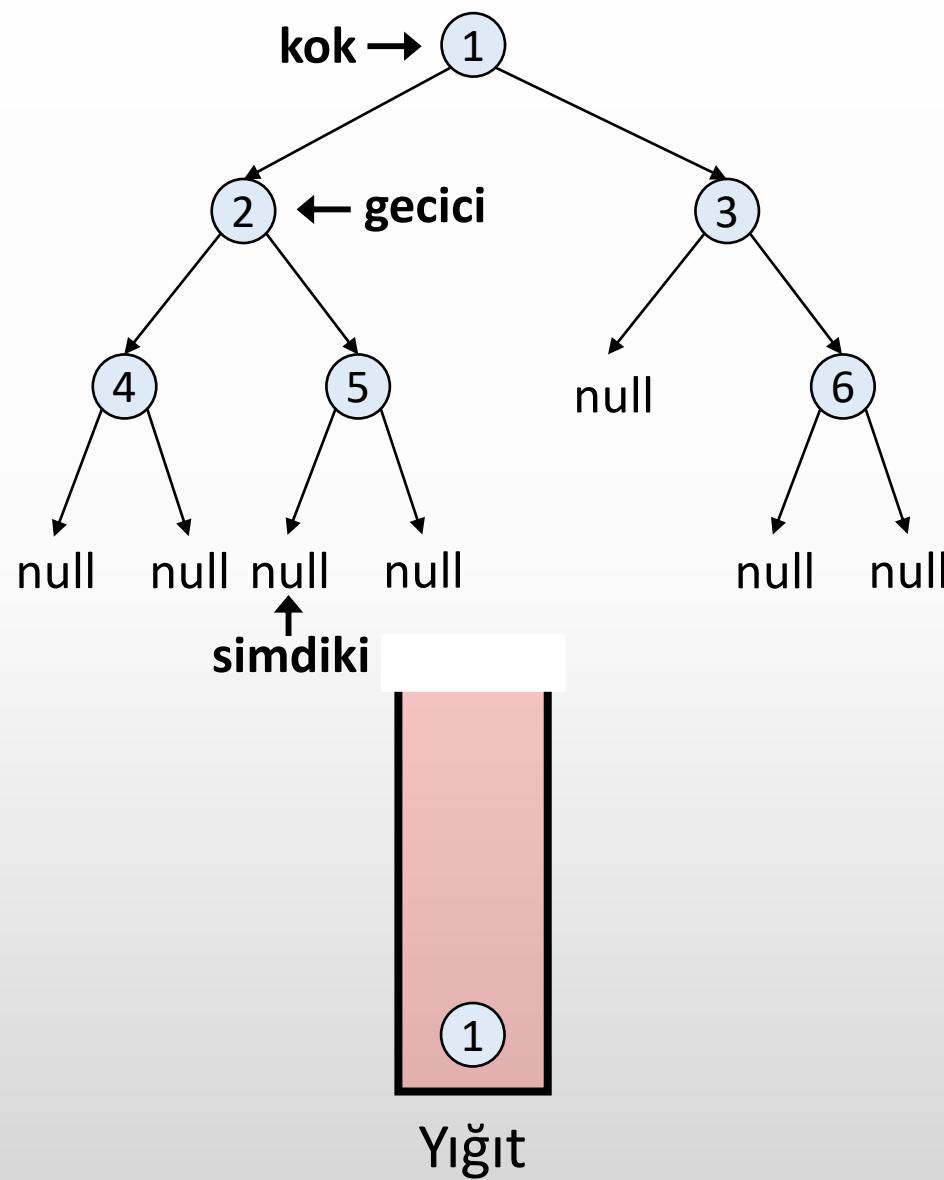
Çıktı: 4 5

```
AgacDugumu simdiki = kok;
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while(simdiki != null || !yigit.isEmpty()) {
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                System.out.print(gecici.veri + " ");
            }
        } else {
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        }
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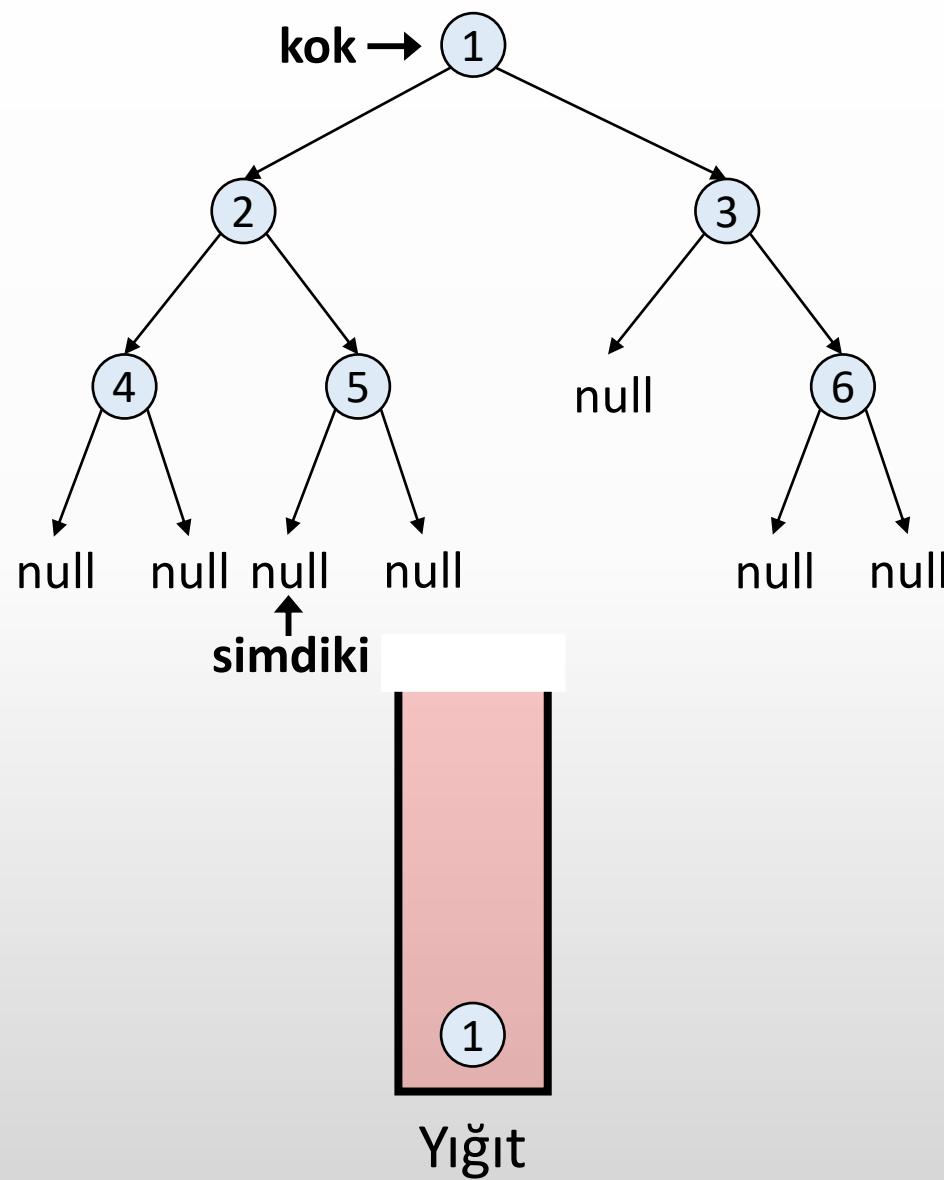
Çıktı: 4 5

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



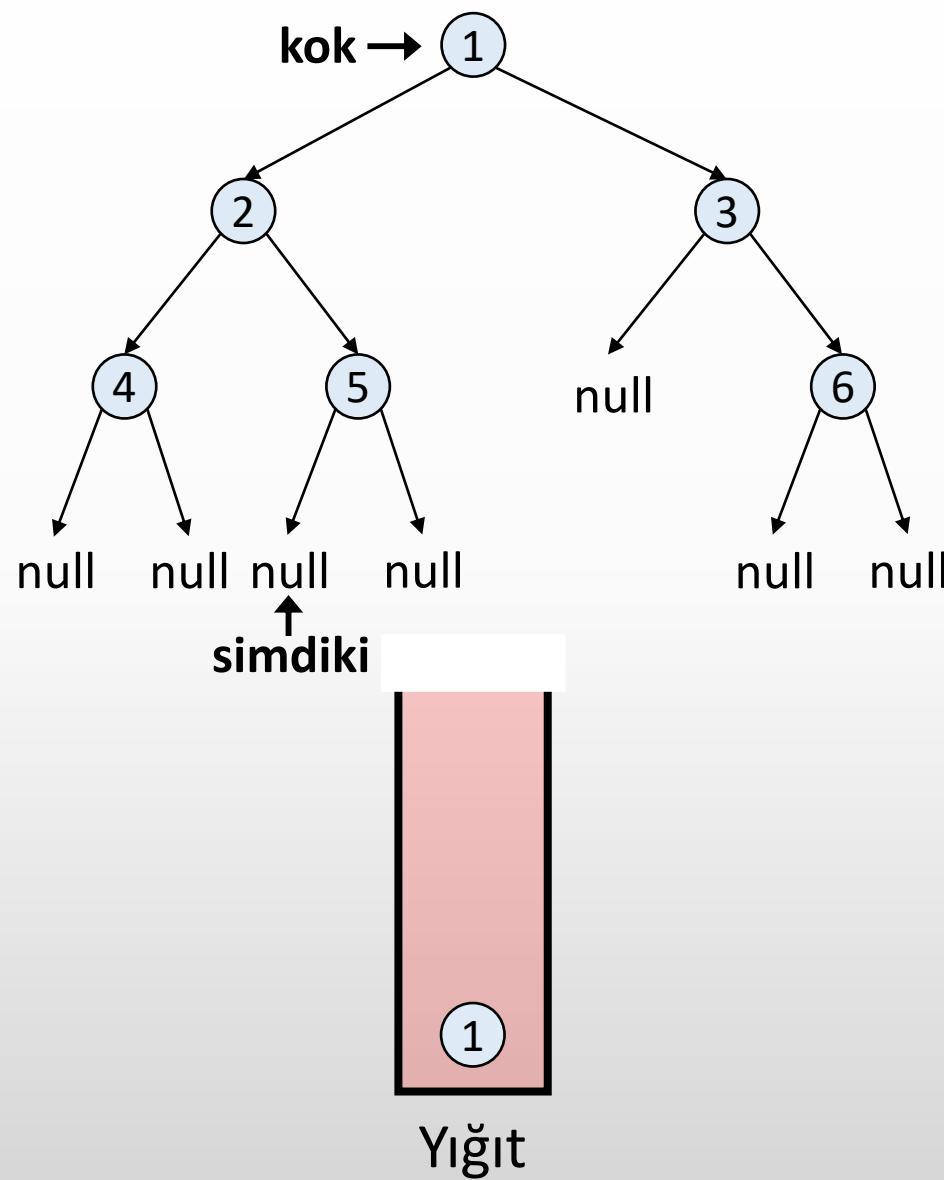
Çıktı: 4 5 2

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AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
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        }
        else {
            simdiki = gecici;
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    }
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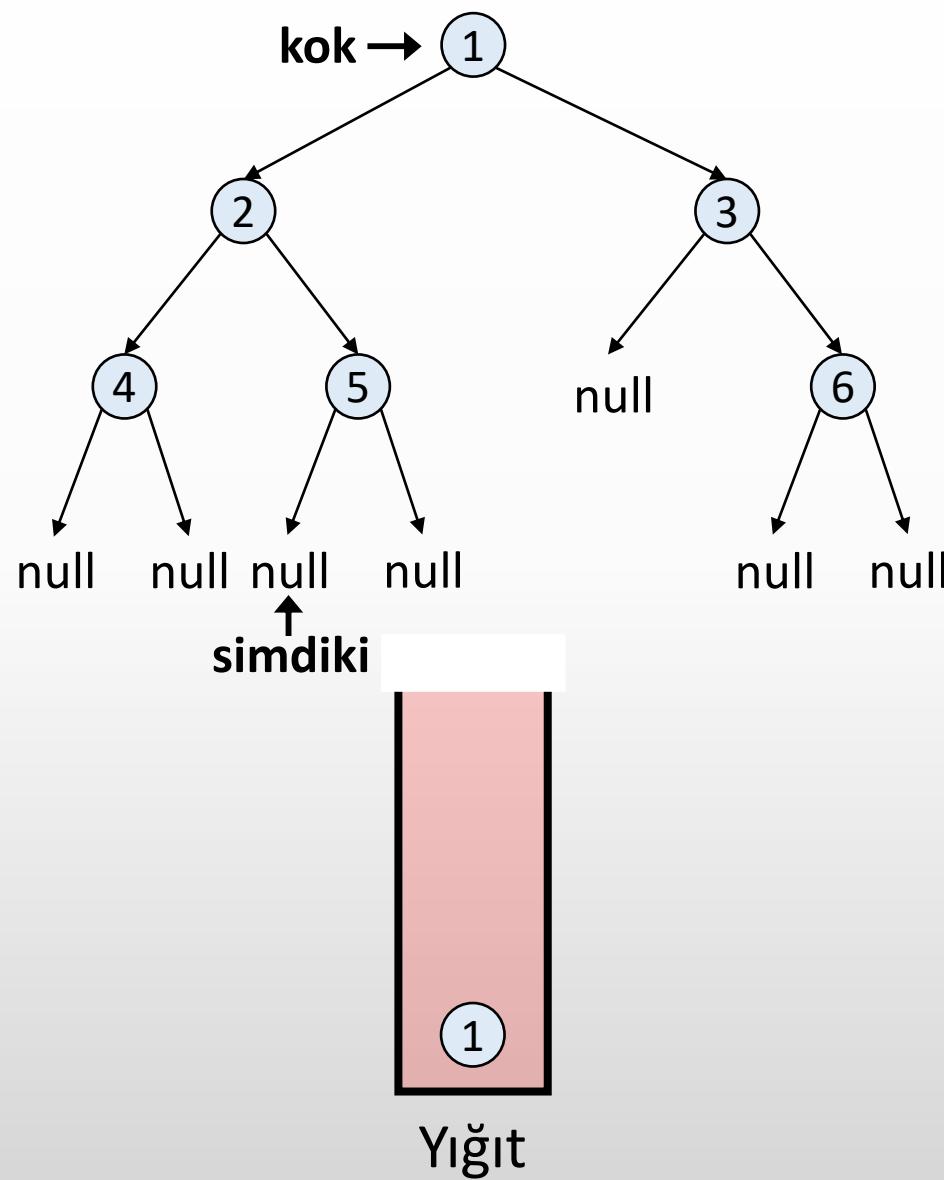
Çıktı: 4 5 2

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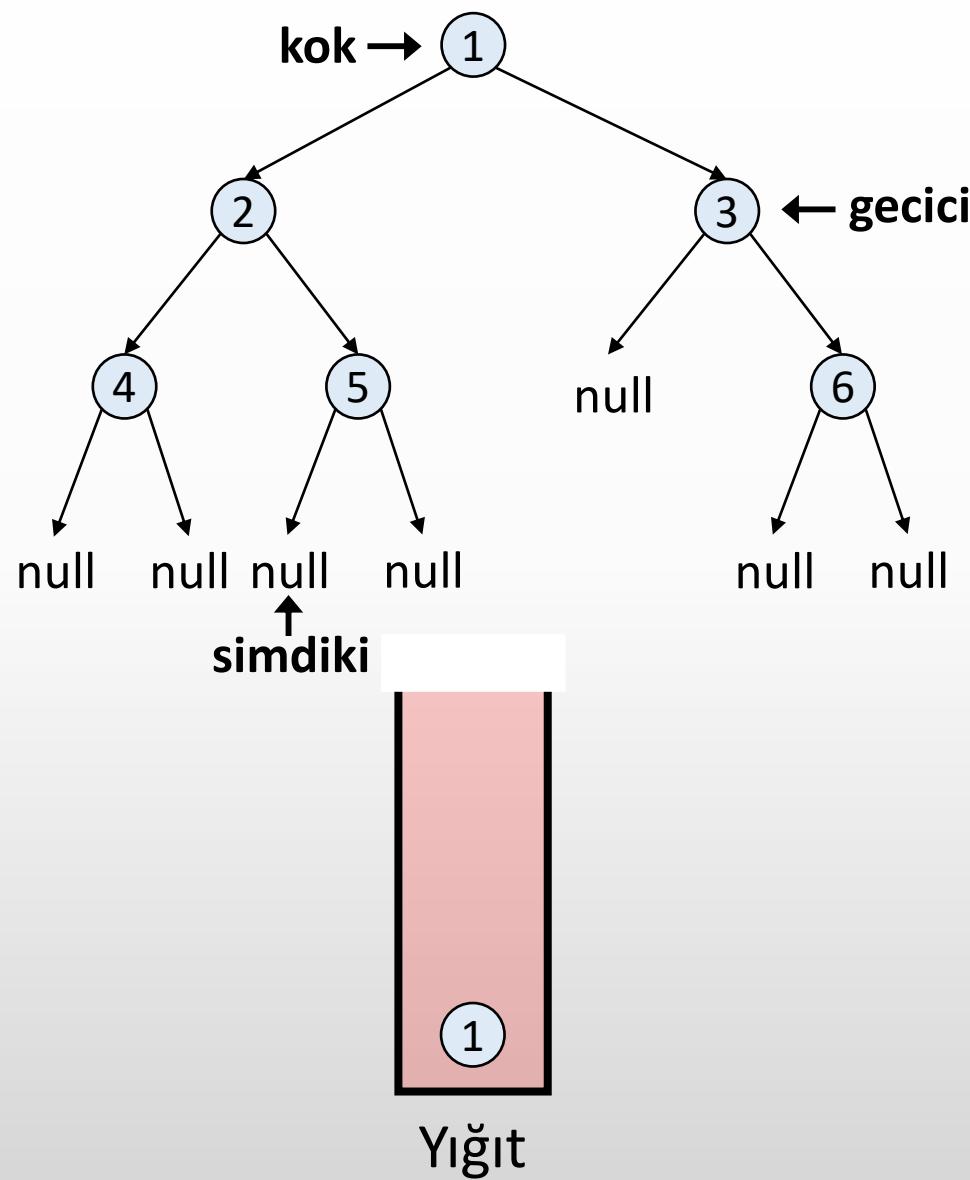
Çıktı: 4 5 2

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AgacDugumu simdiki = kok;  
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            System.out.print(gecici.veri + " ");  
        }  
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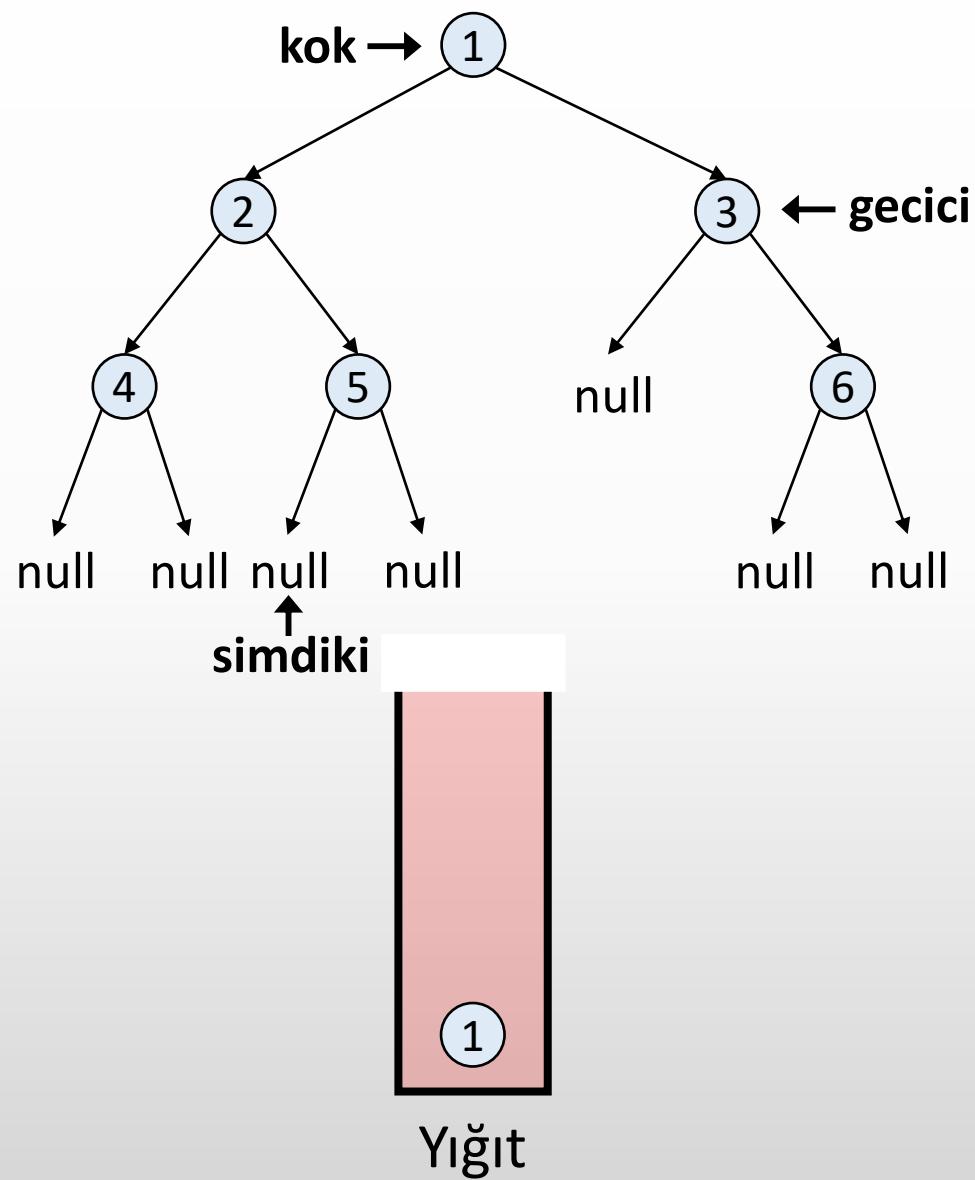
Çıktı: 4 5 2

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    else {  
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    }  
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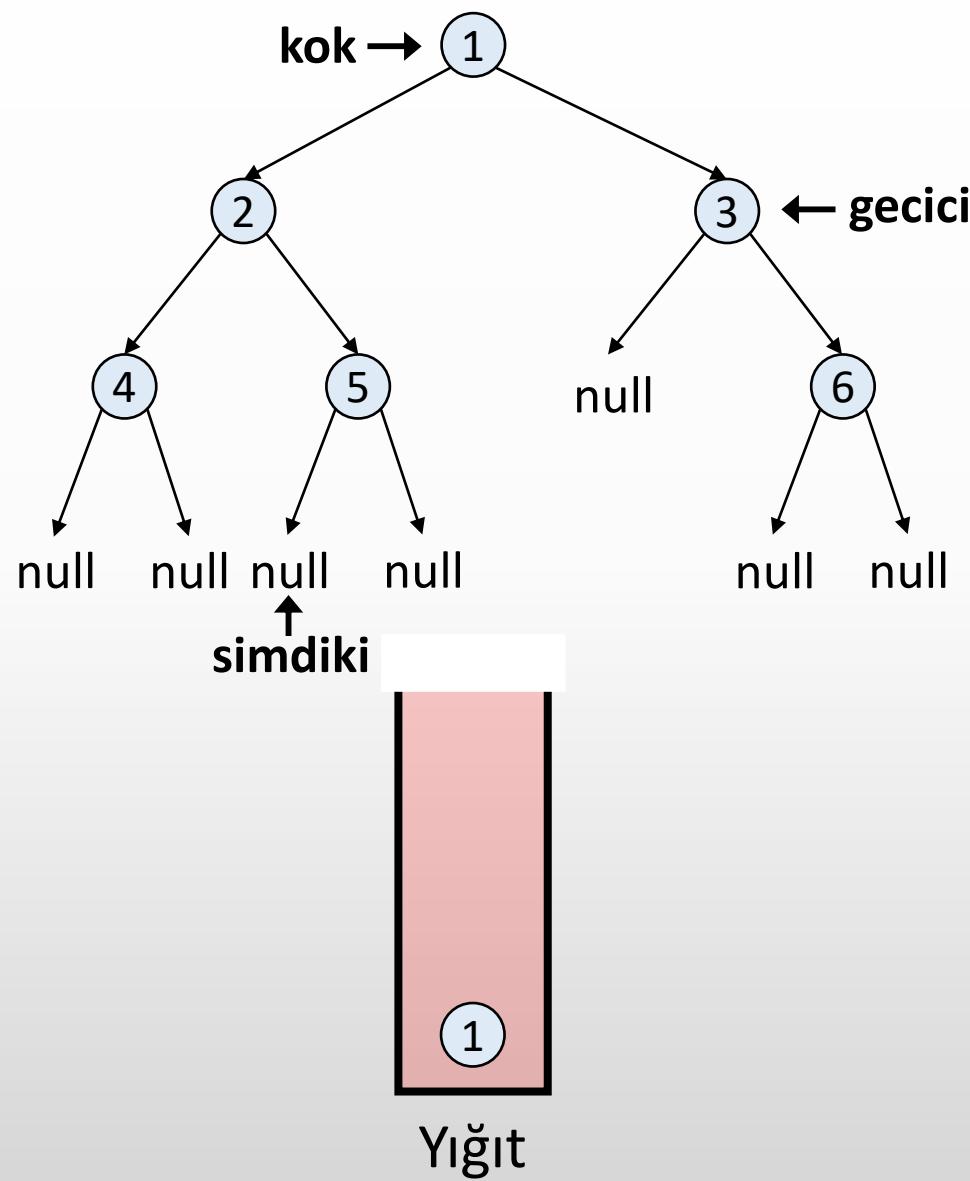
Çıktı: 4 5 2

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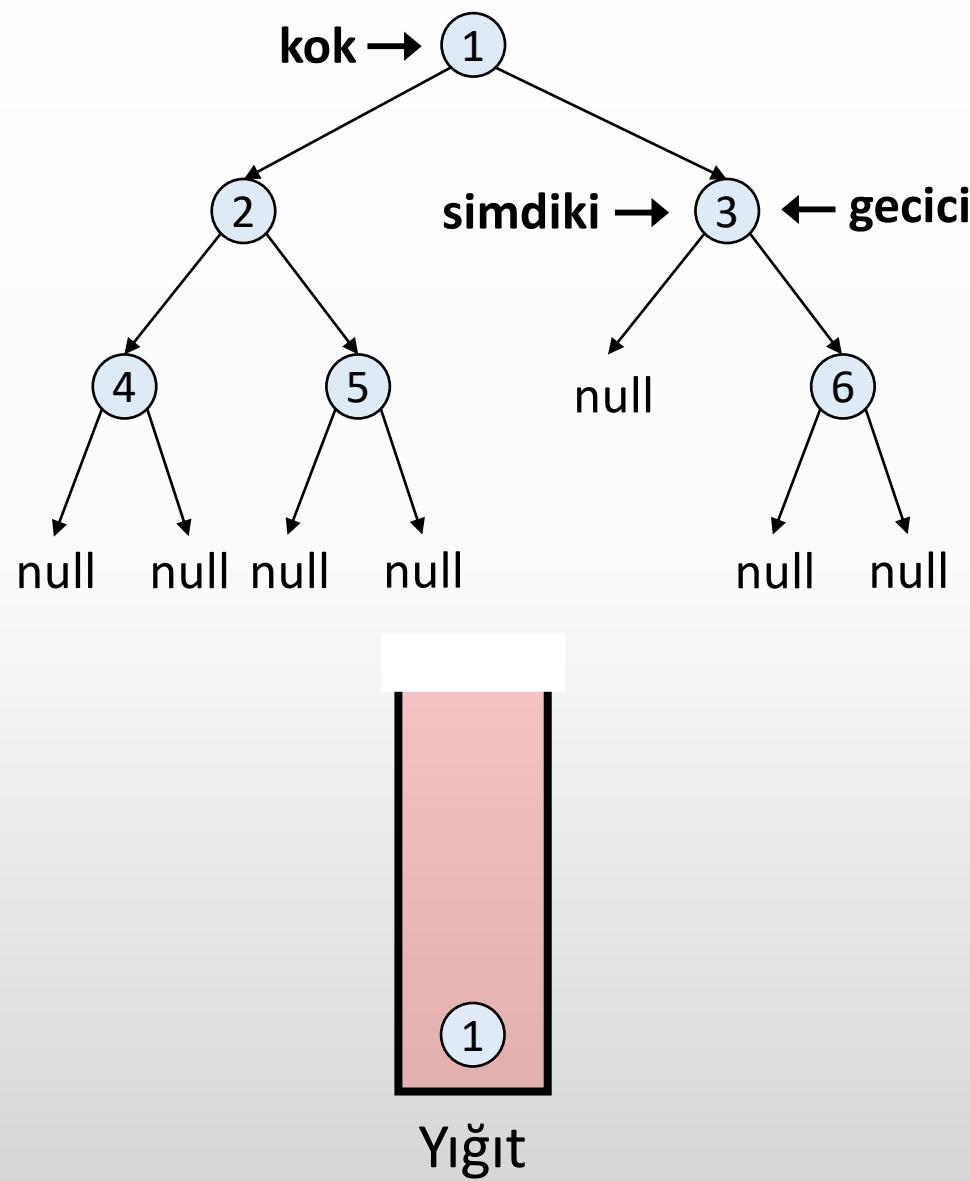
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AgacDugumu simdiki = kok;
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                System.out.print(gecici.veri + " ");
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        }
        else {
            simdiki = gecici;
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    }
}
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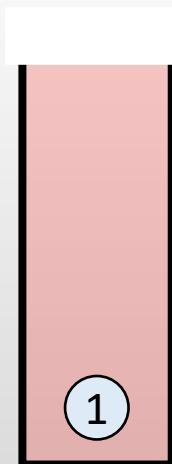
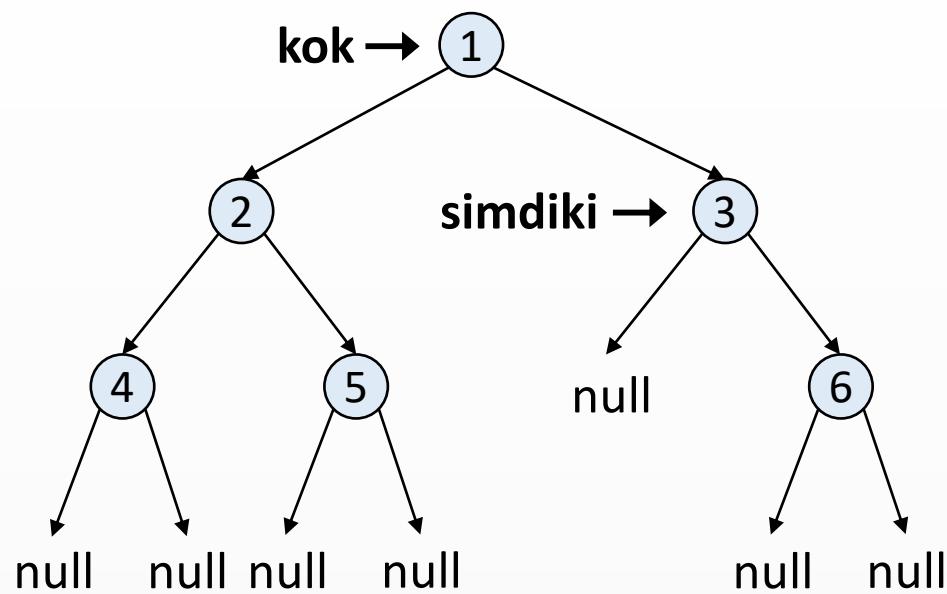
Çıktı: 4 5 2

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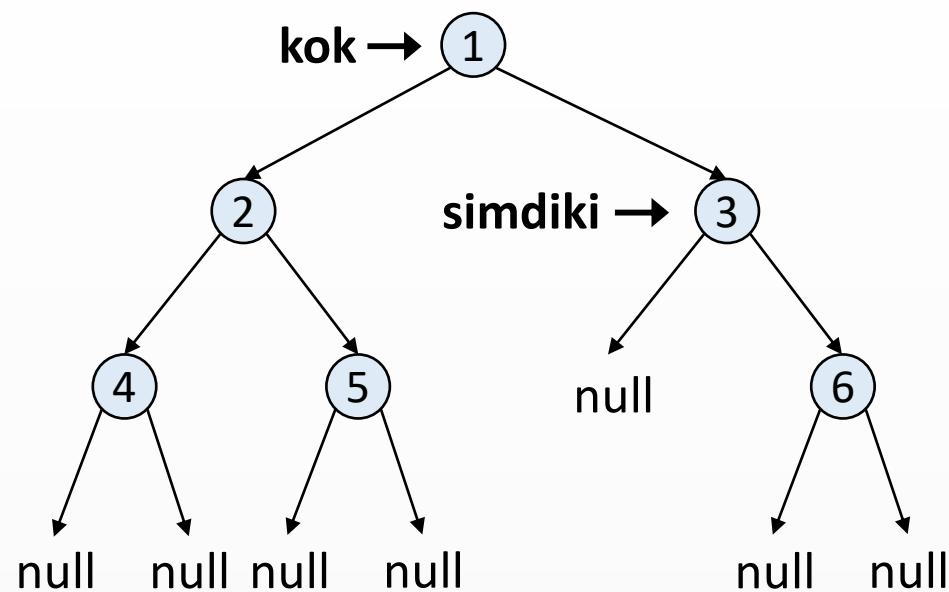
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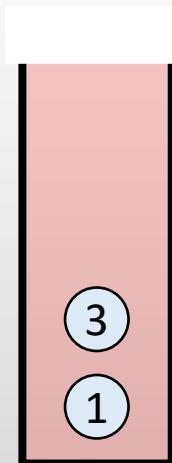
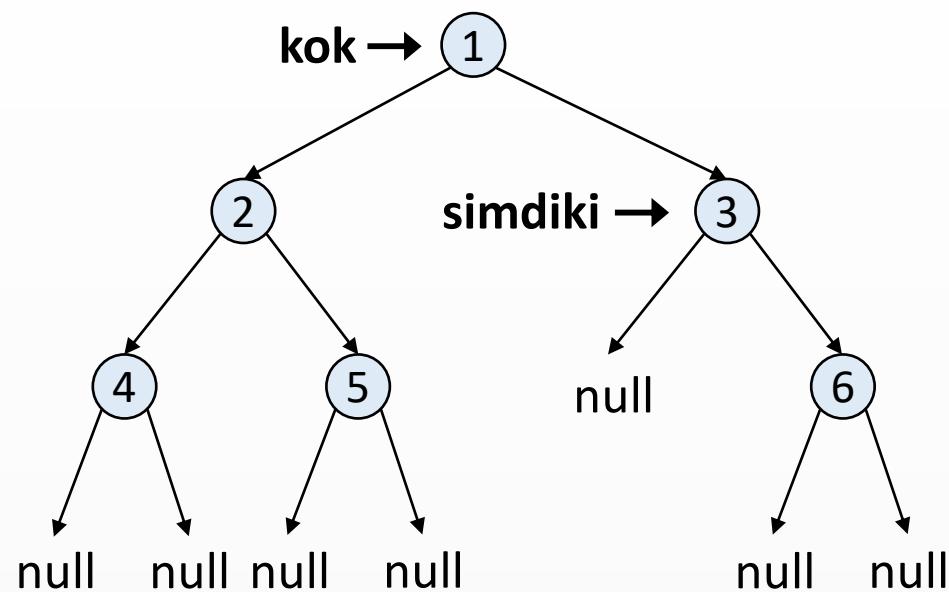
Çıktı: 4 5 2

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Çıktı: 4 5 2

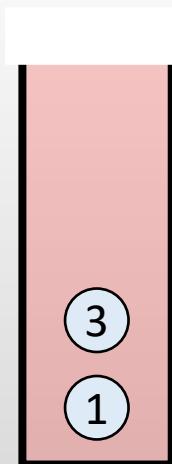
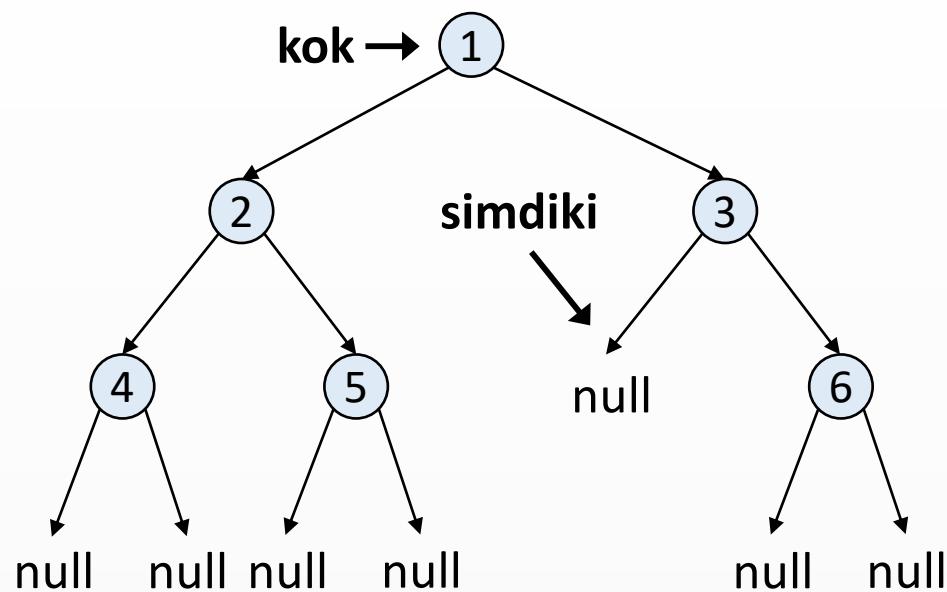
```
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Yığıt

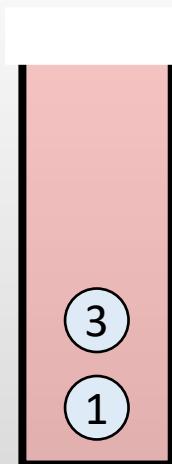
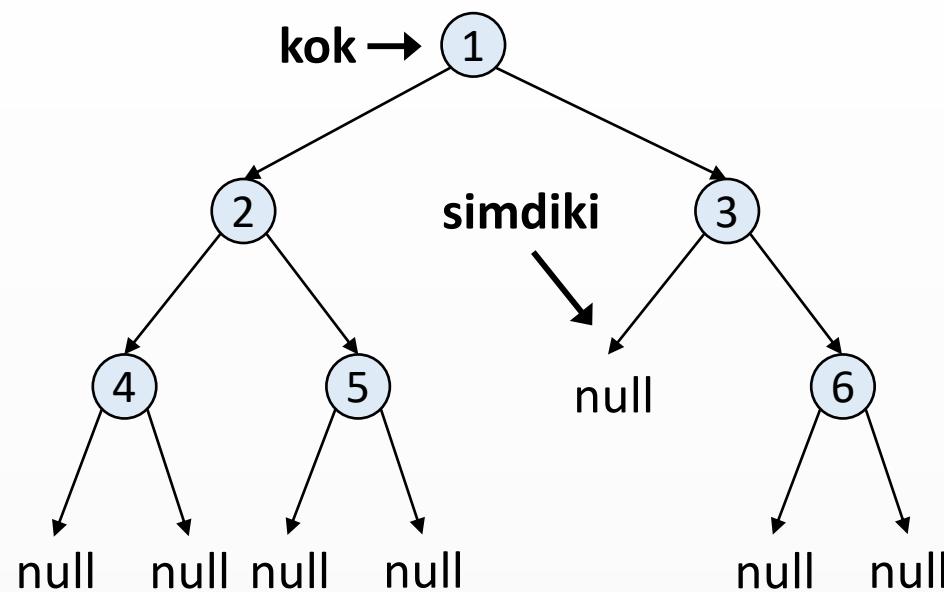
Çıktı: 4 5 2

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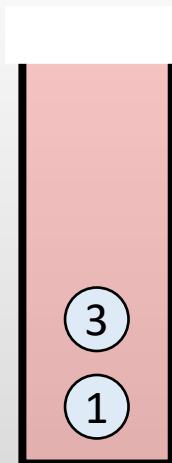
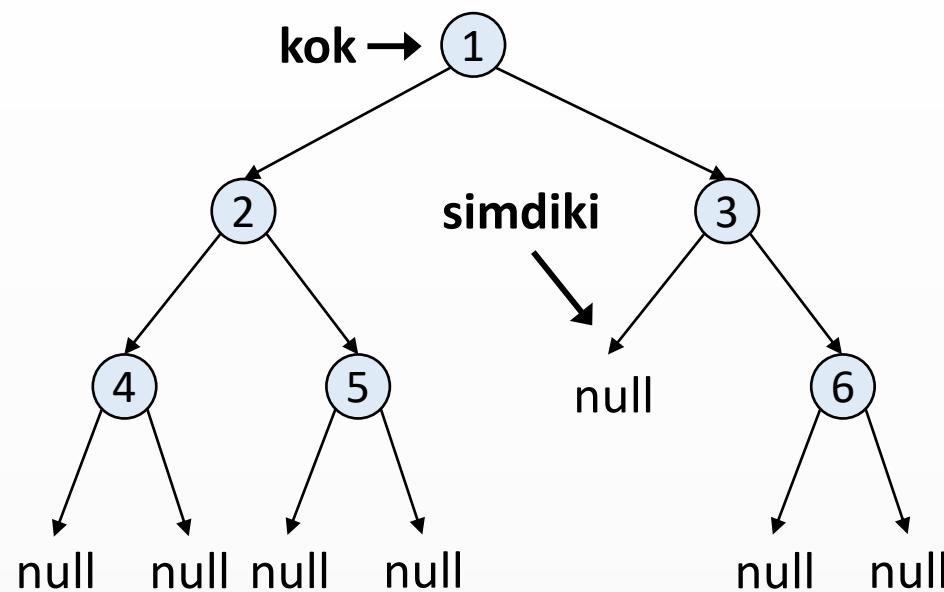
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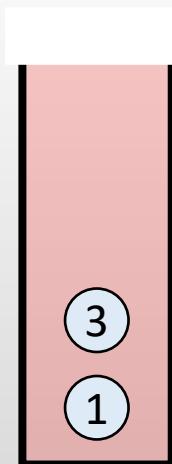
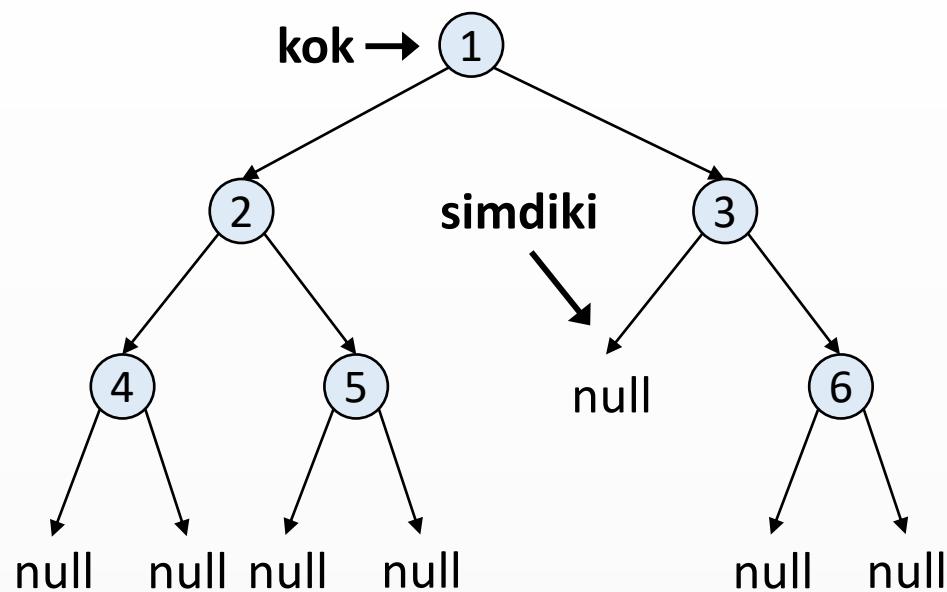
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Çıktı: 4 5 2

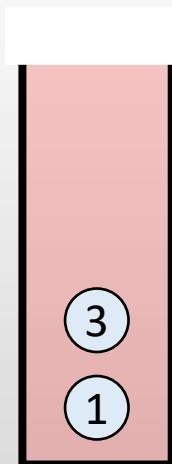
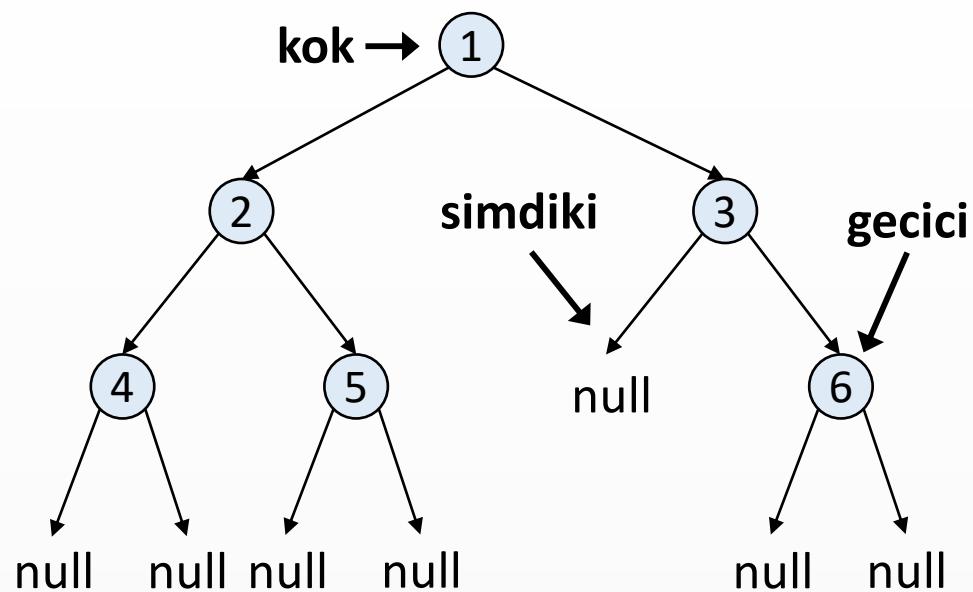
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 System.out.print(gecici.veri + " ");
 }
 **}
 else {
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Yığıt

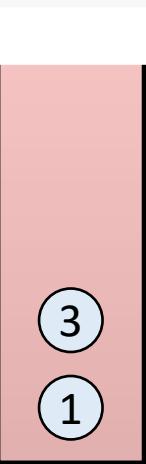
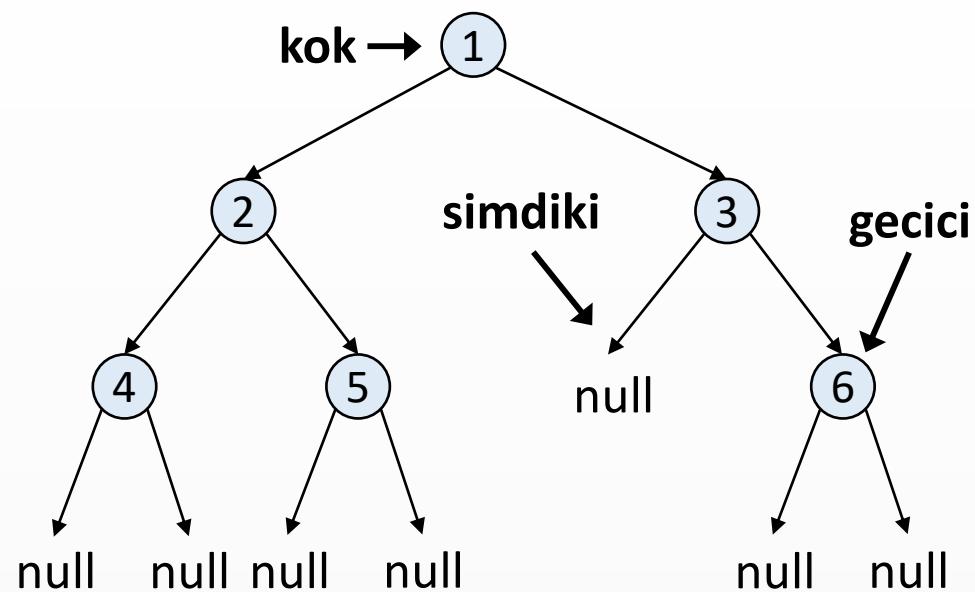
Çıktı: 4 5 2

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Çıktı: 4 5 2

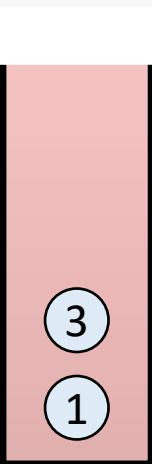
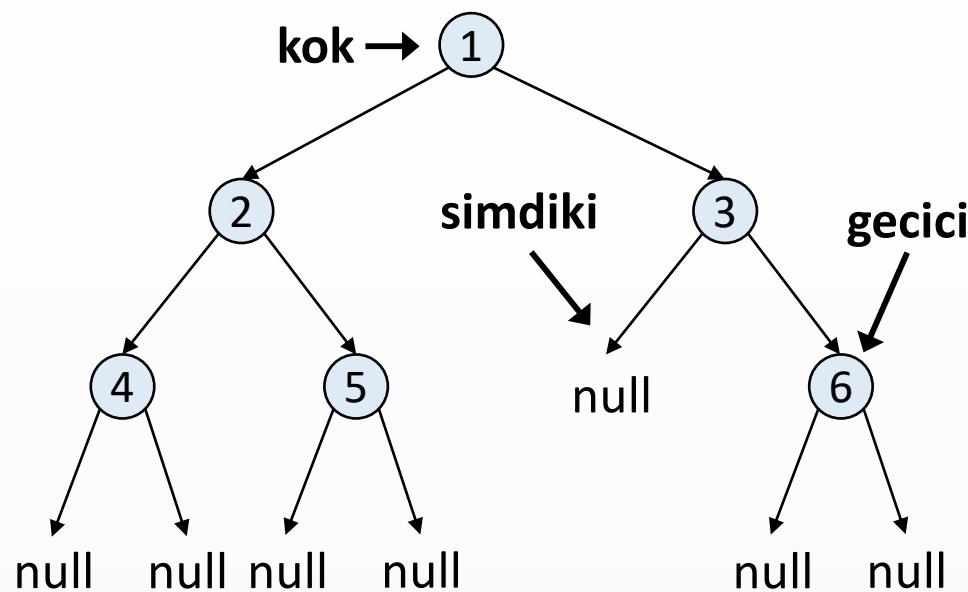
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```



Yigit

Çıktı: 4 5 2

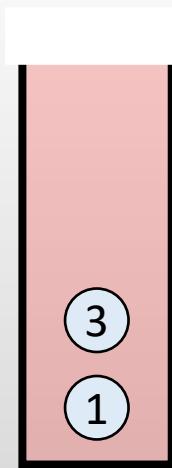
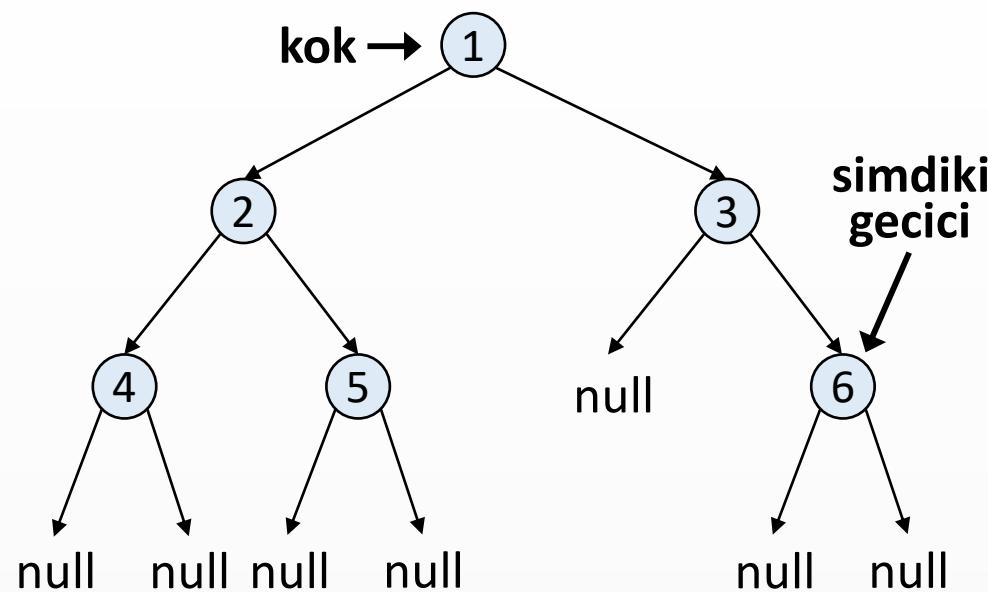
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Yigit

Çıktı: 4 5 2

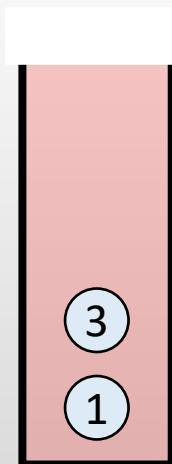
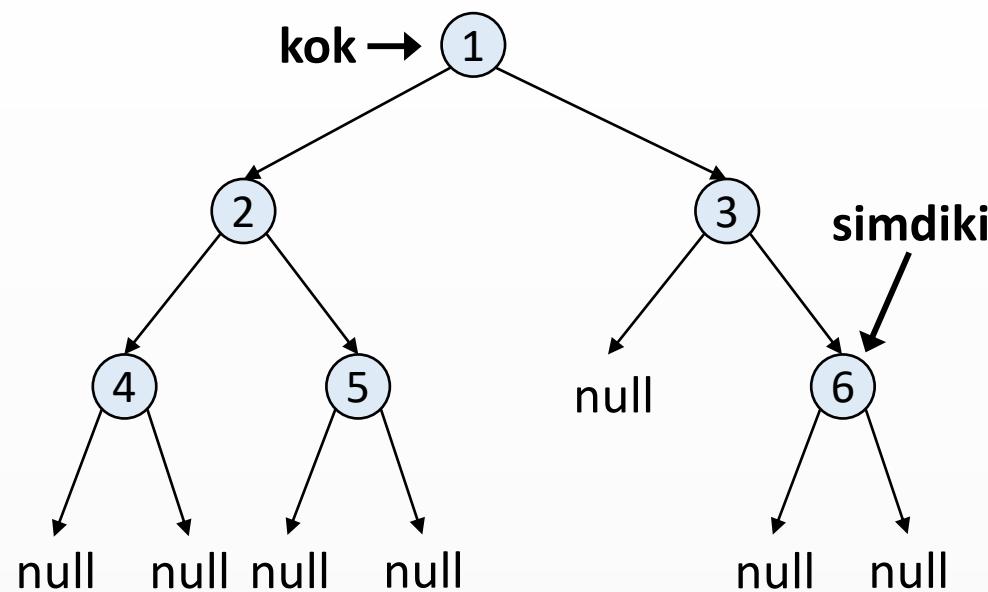
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    } else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
          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

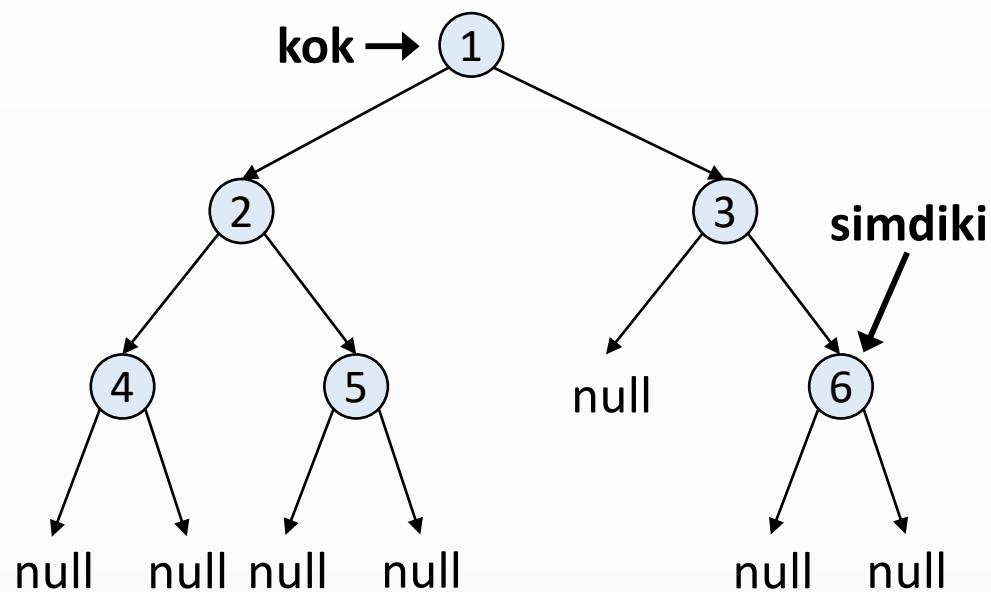
Çıktı: 4 5 2

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



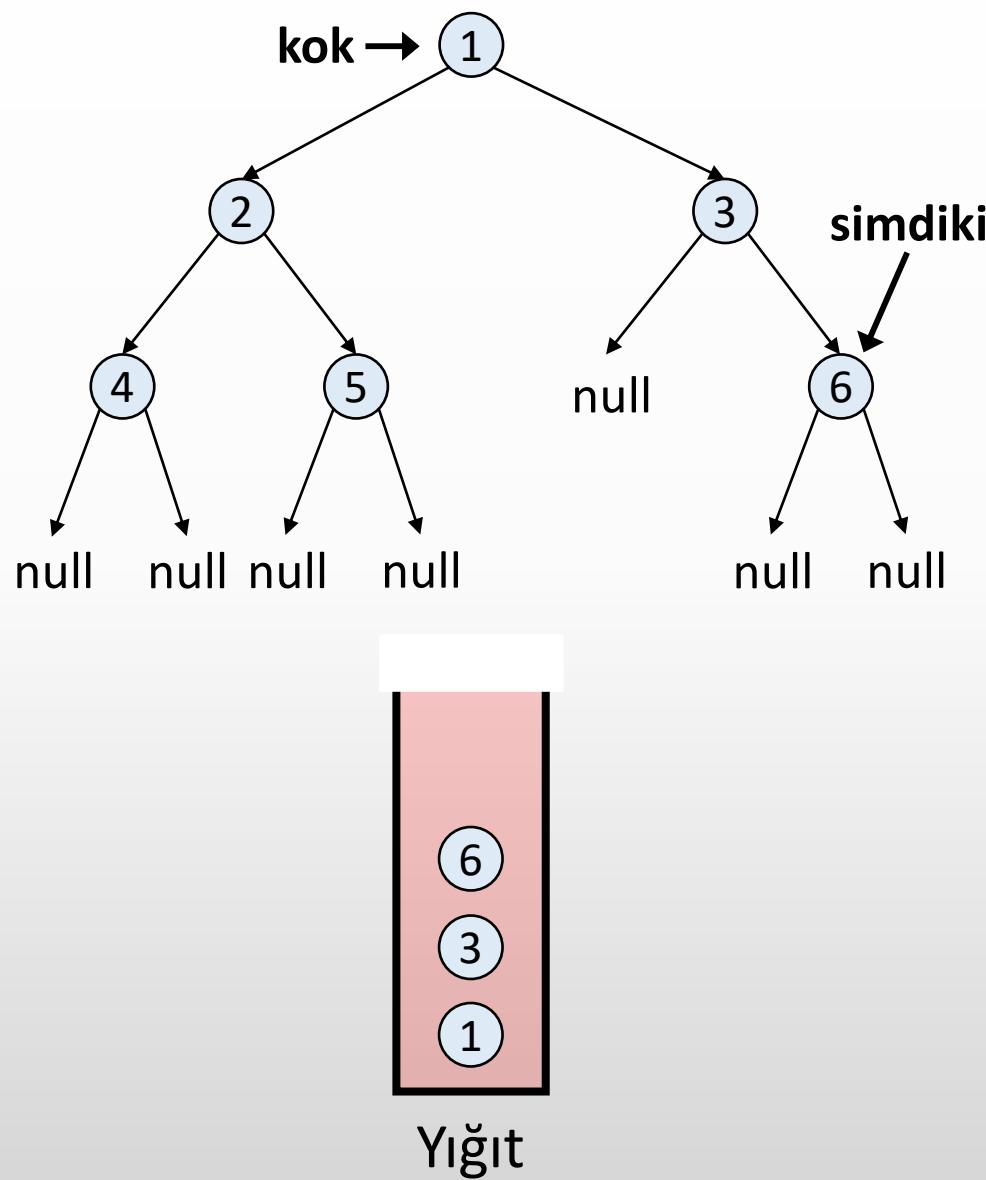
Çıktı: 4 5 2

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



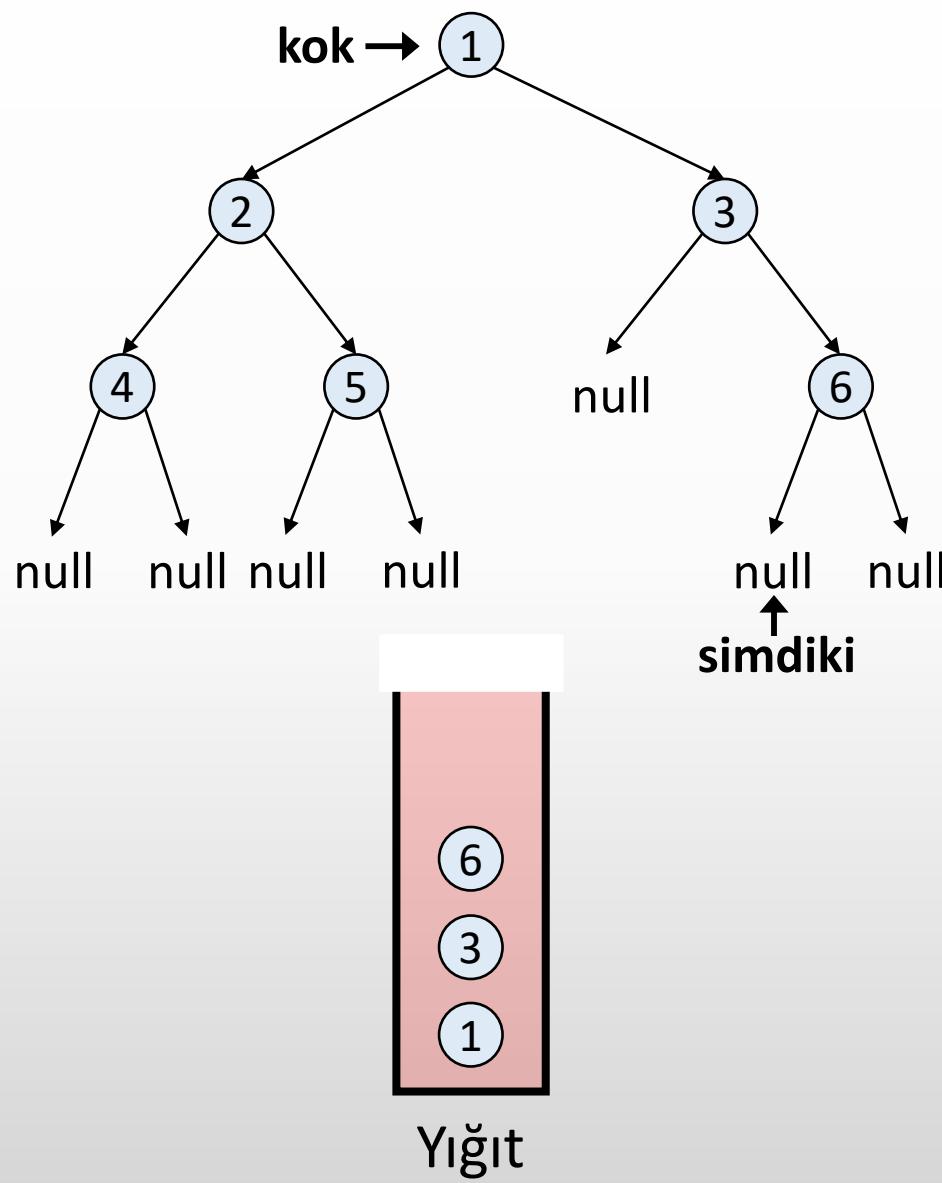
Çıktı: 4 5 2

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



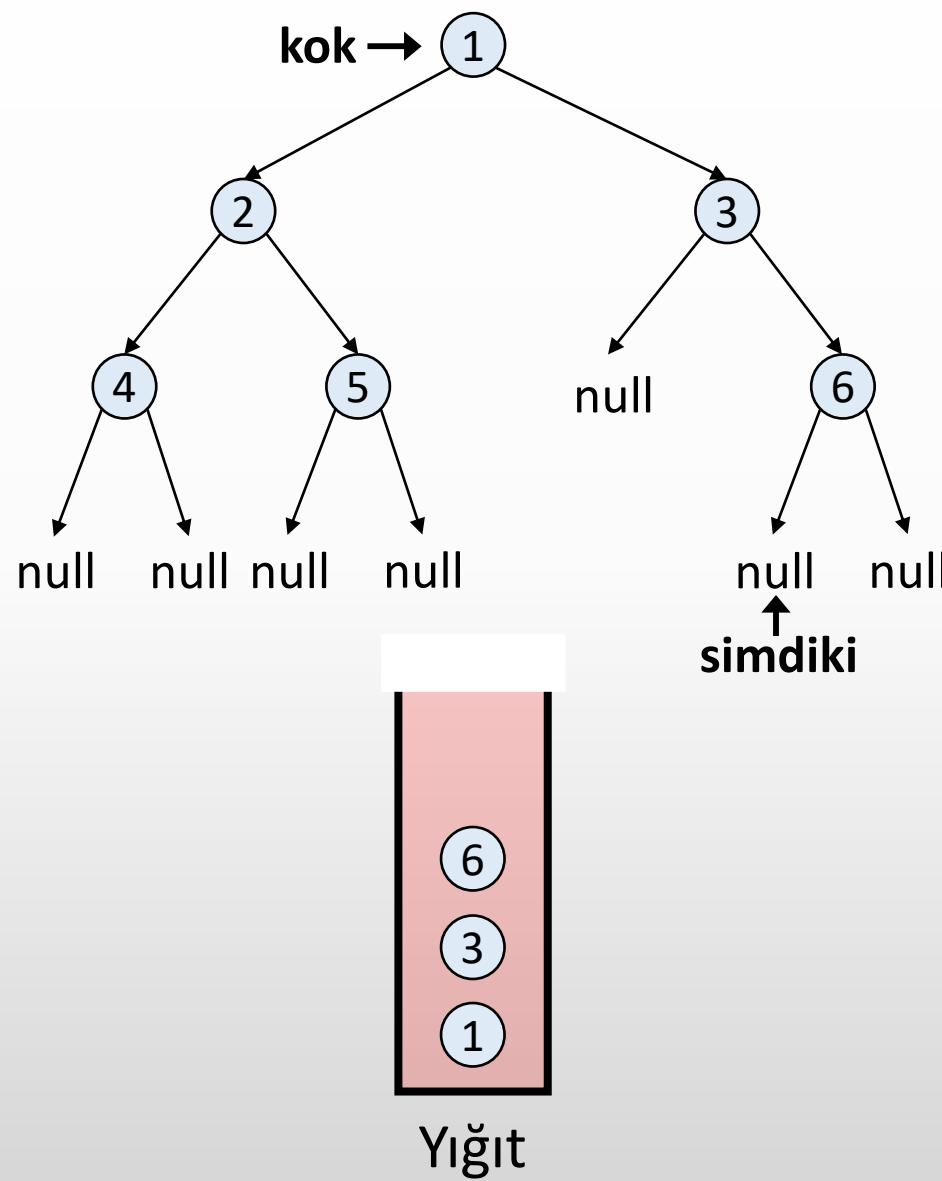
Çıktı: 4 5 2

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



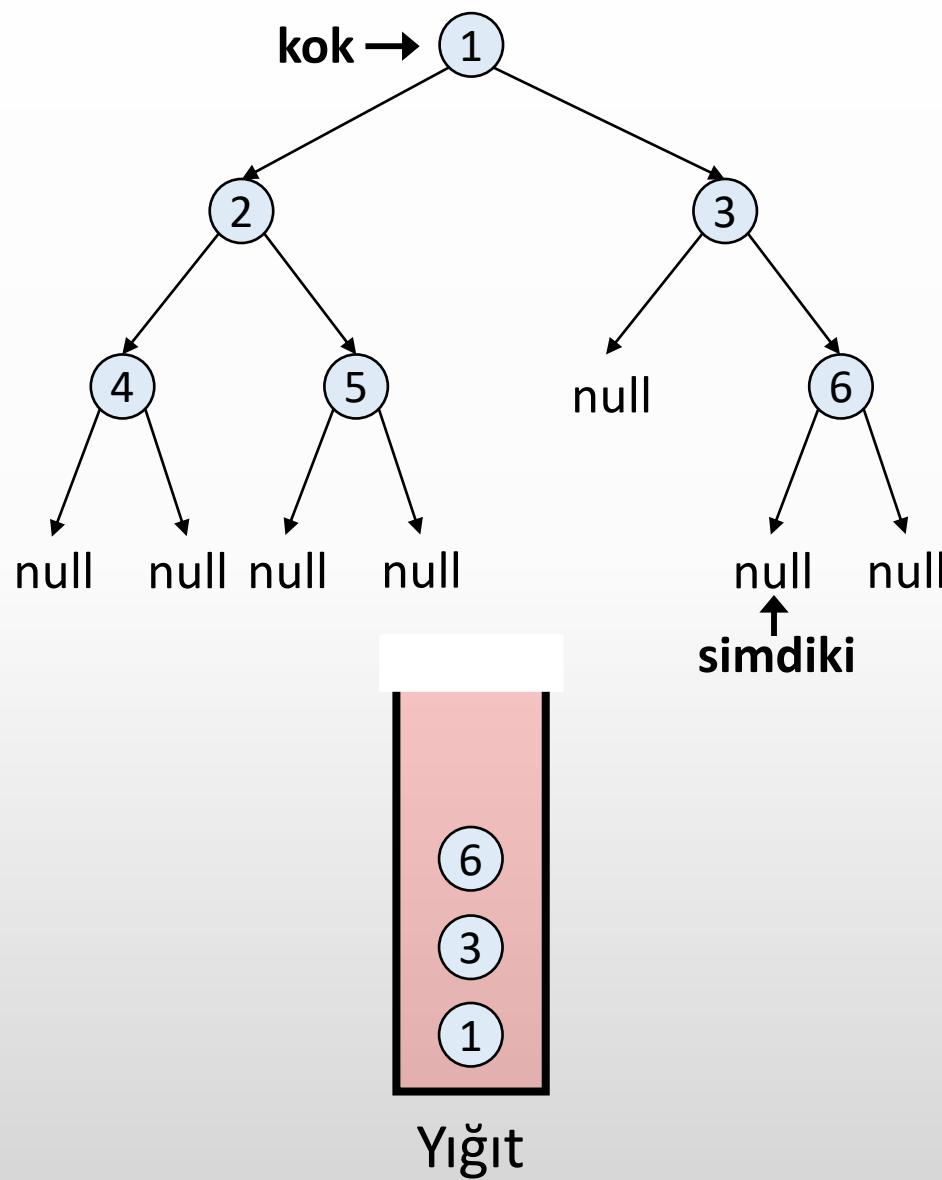
Çıktı: 4 5 2

```
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;
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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;
        }
    }
}
```



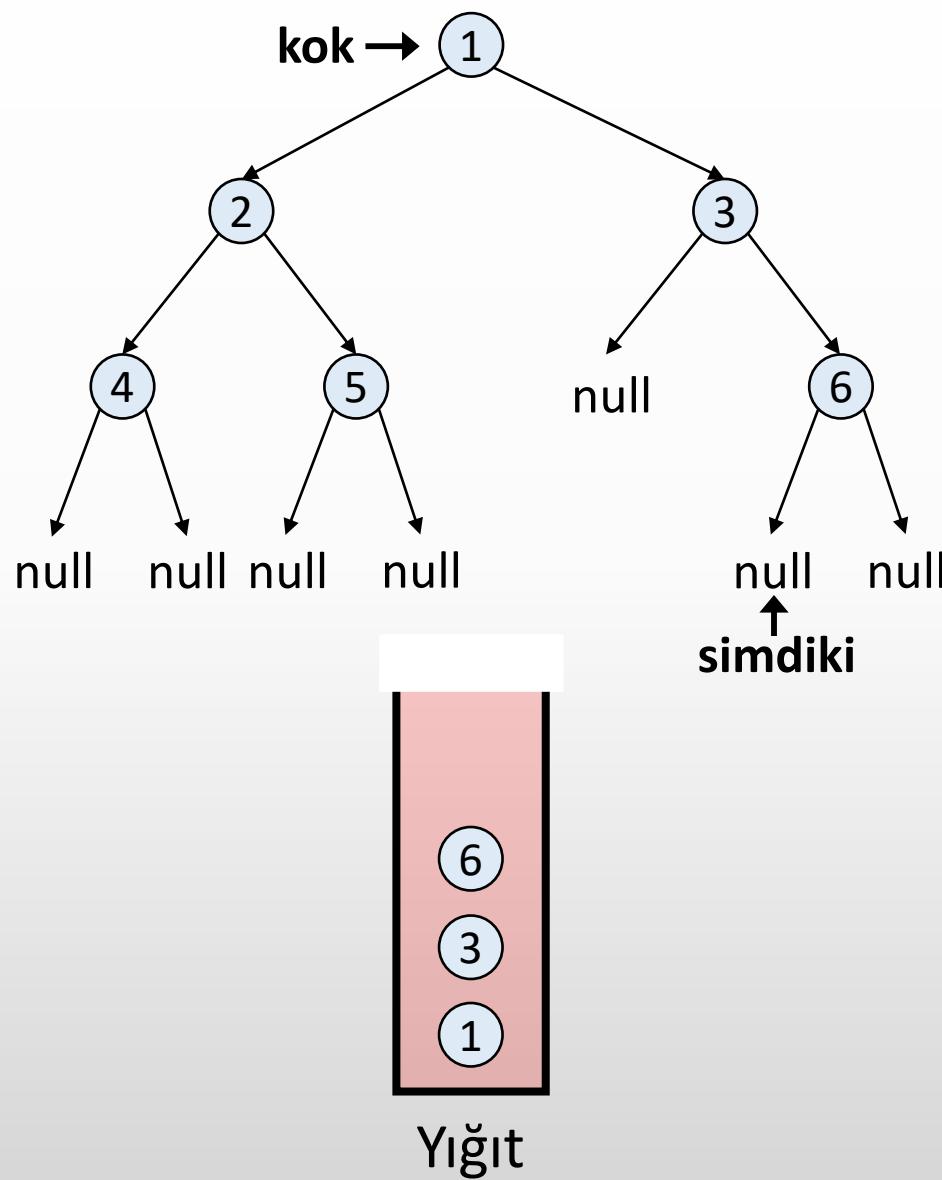
Çıktı: 4 5 2

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



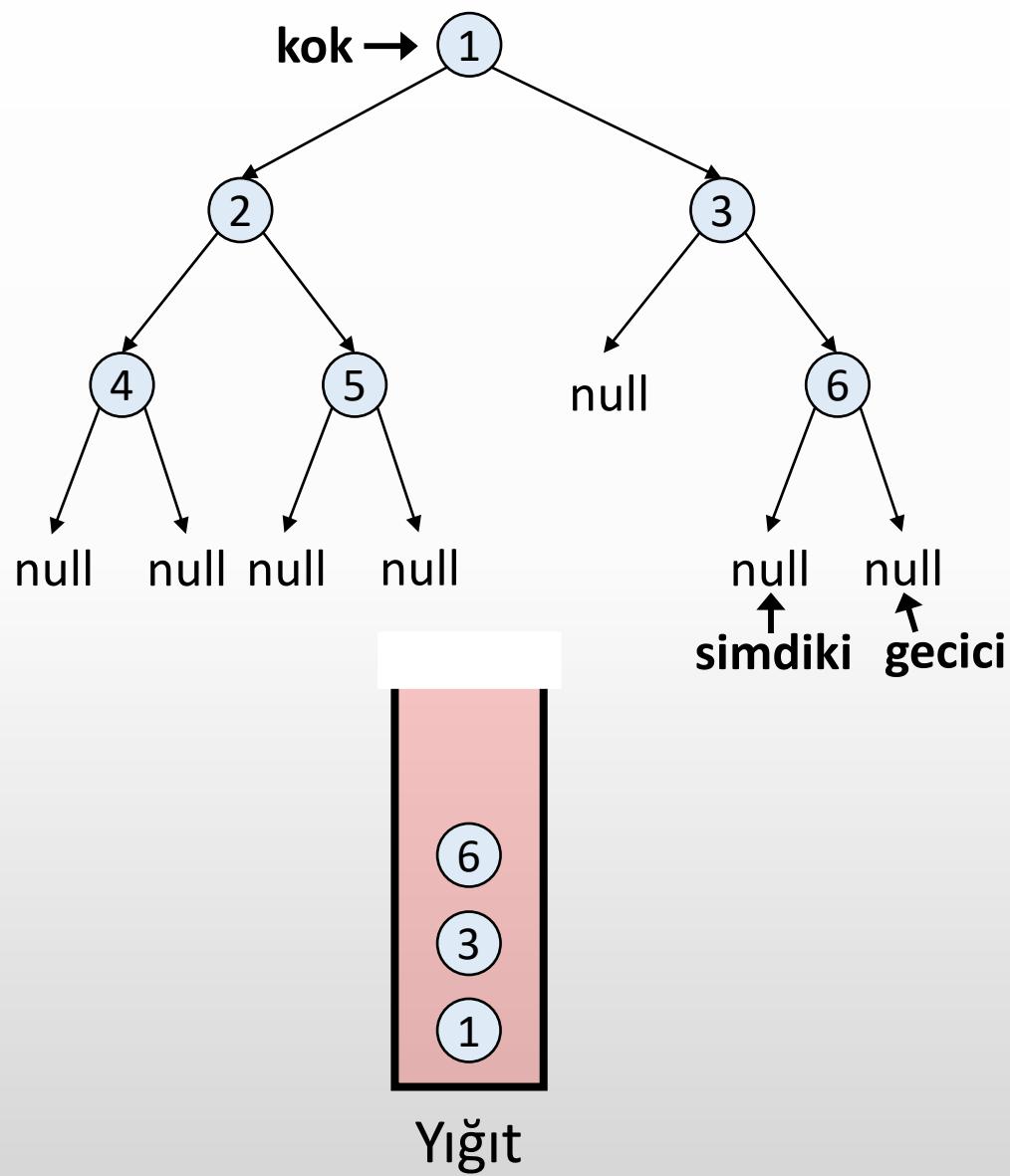
Çıktı: 4 5 2

```
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;
        }
    }
}
```



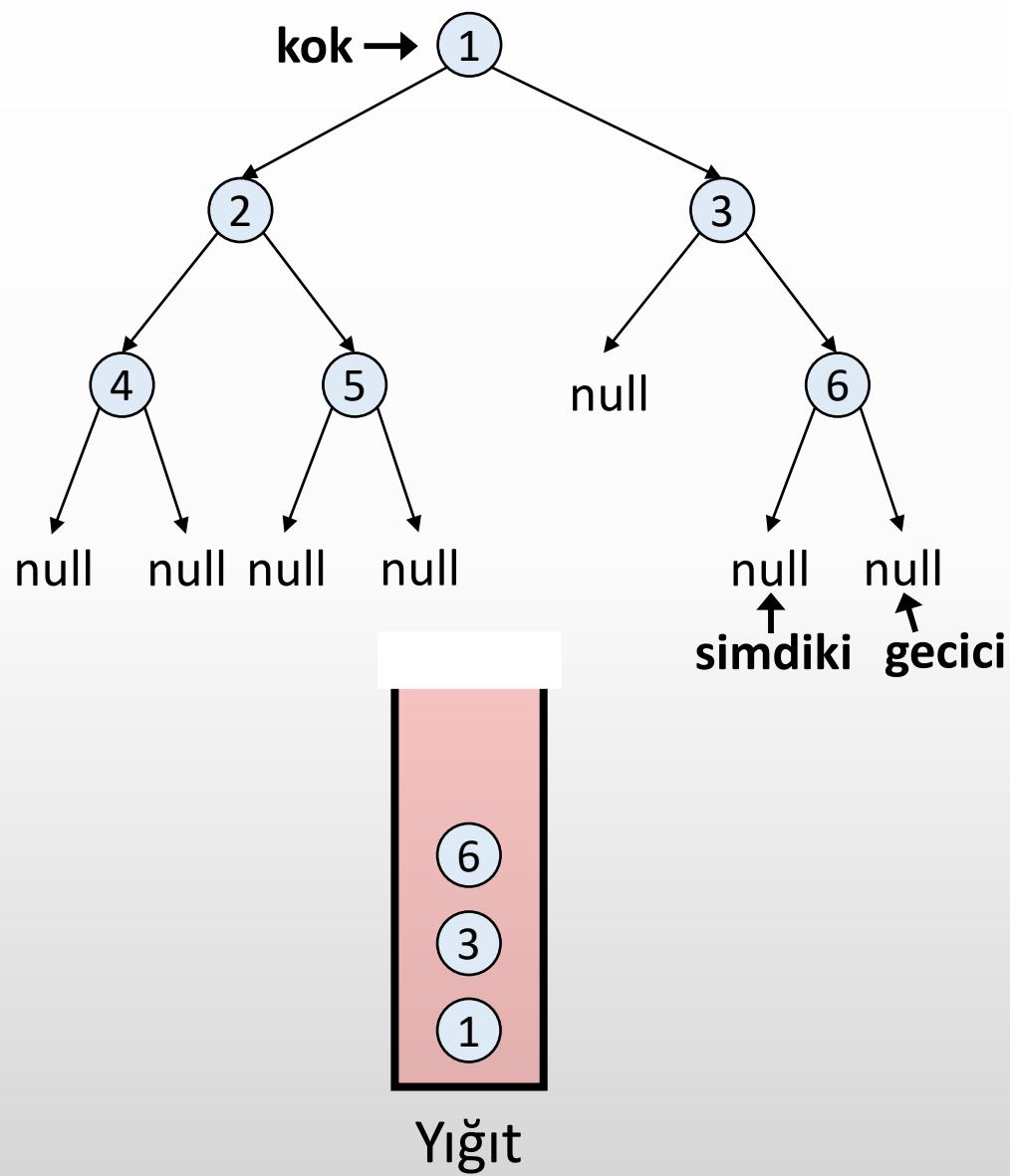
Çıktı: 4 5 2

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



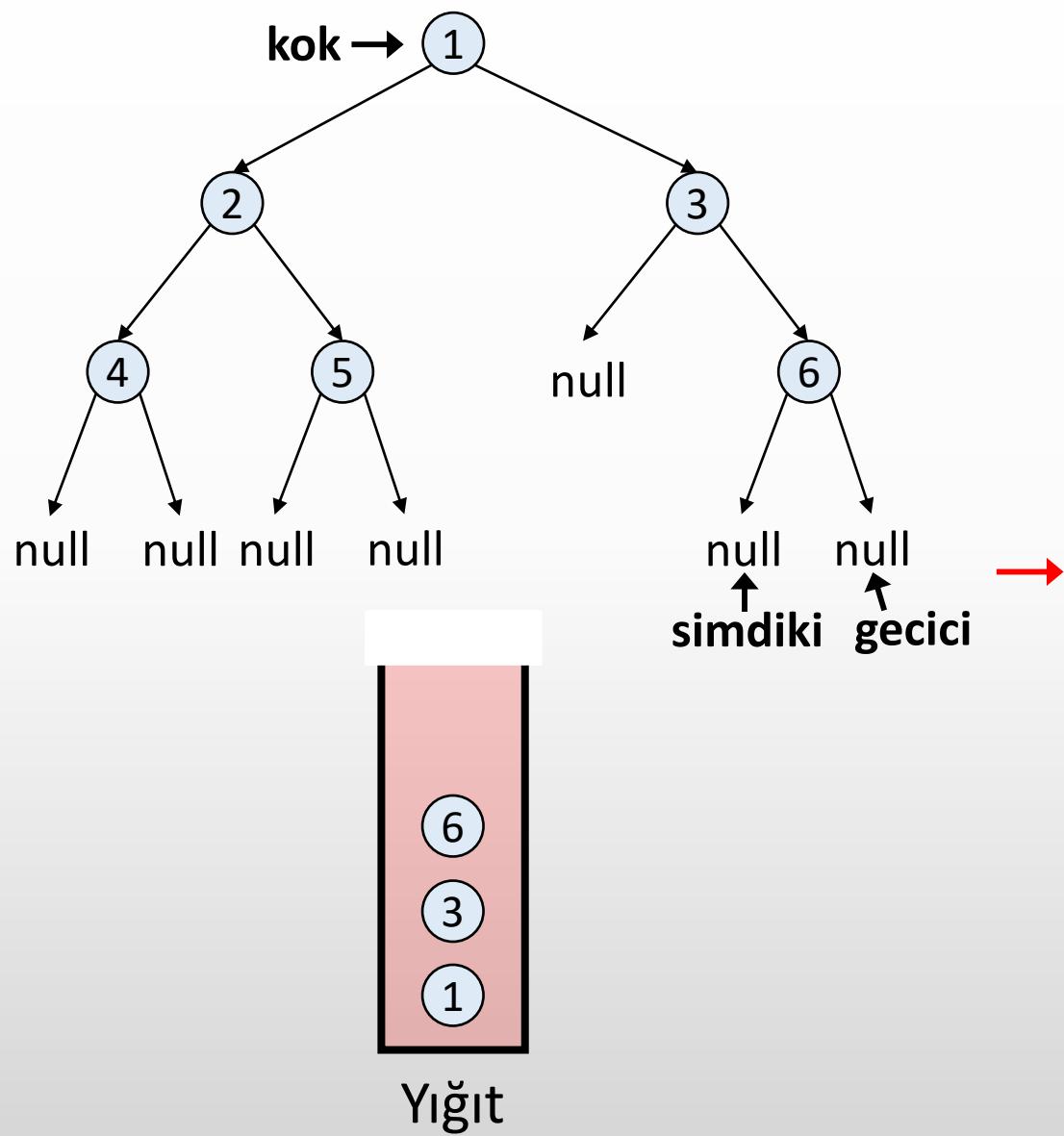
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
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                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
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        }
    }
}
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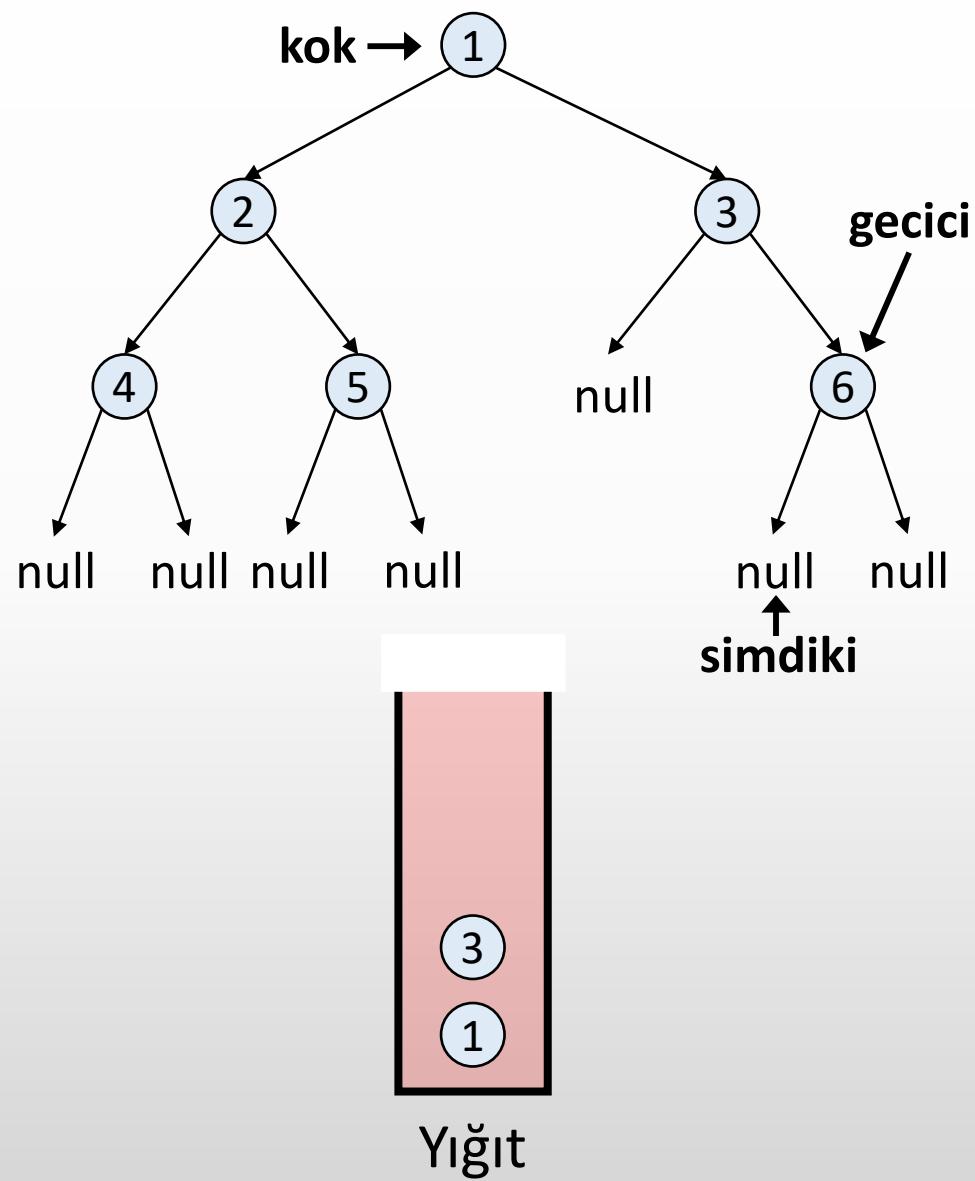
Çıktı: 4 5 2

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



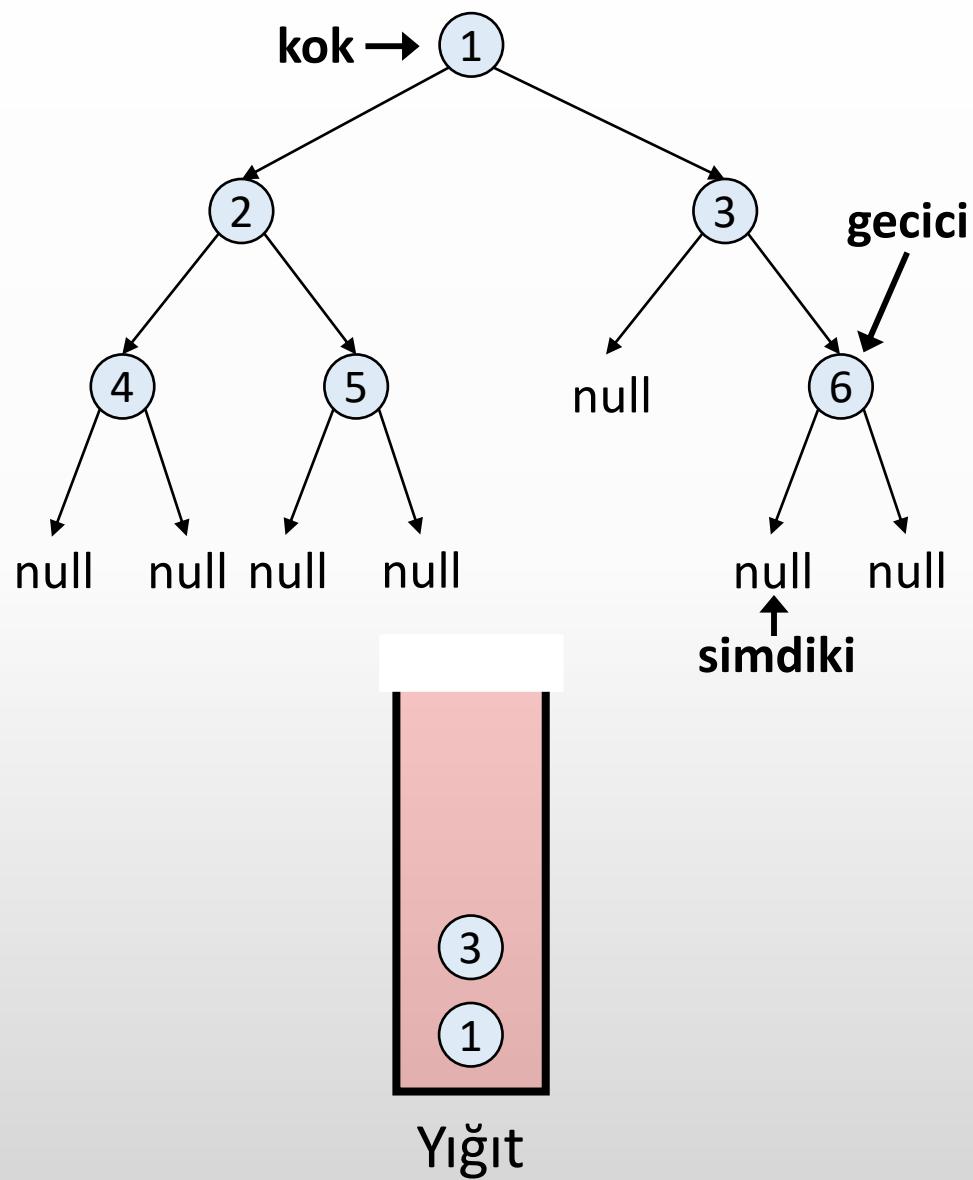
Çıktı: 4 5 2

```
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;
        }
    }
}
```



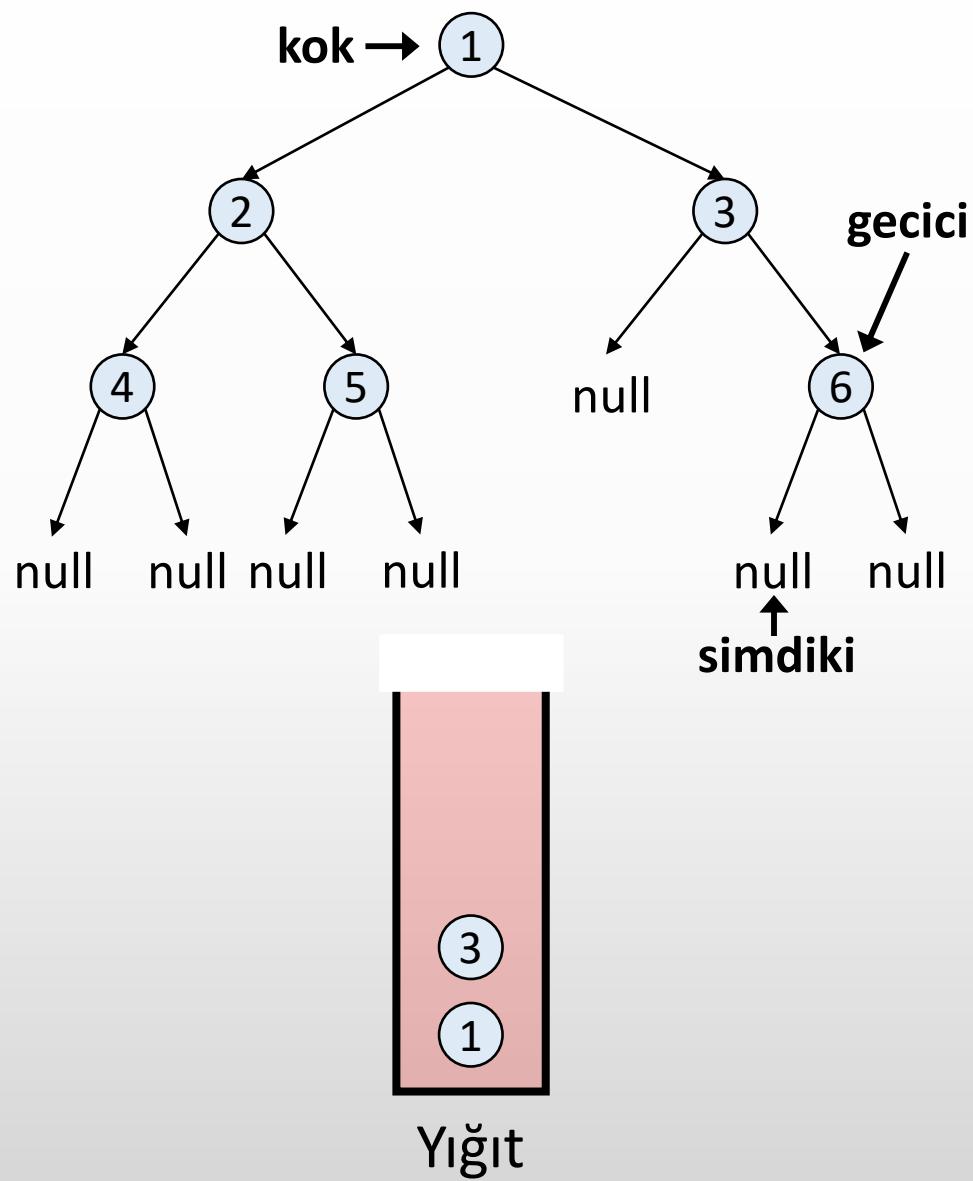
Çıktı: 4 5 2

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



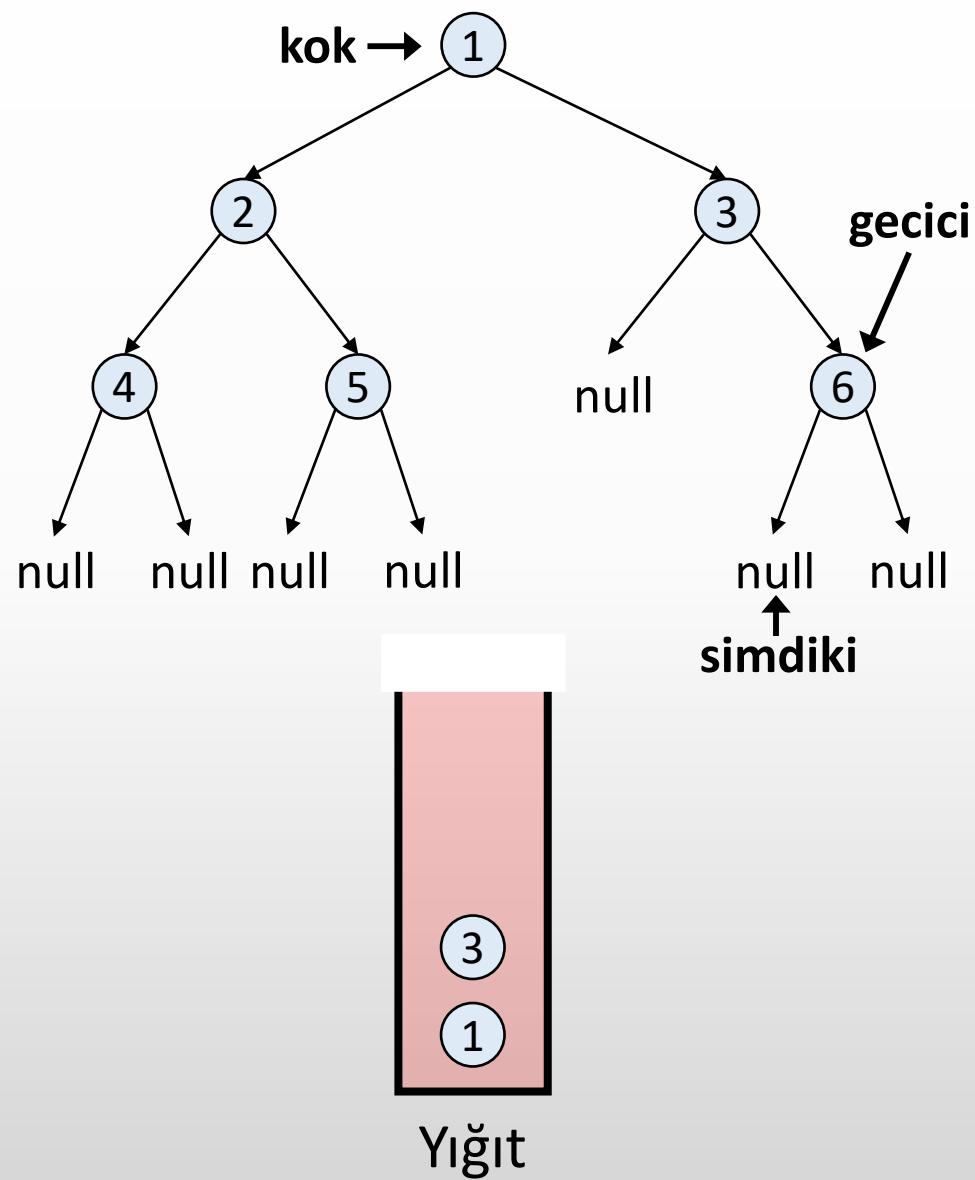
Çıktı: 4 5 2 6

```
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;
        }
    }
}
```



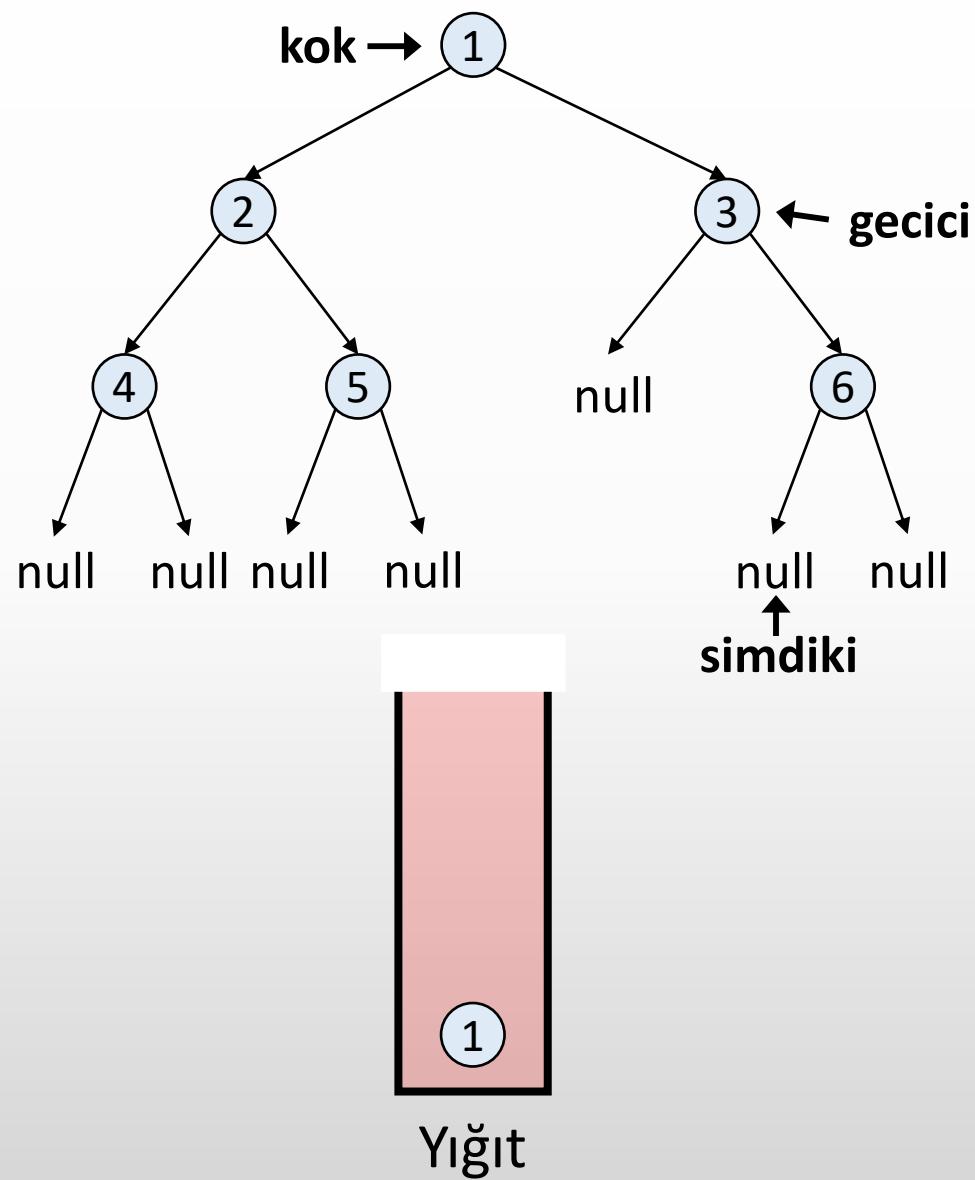
Çıktı: 4 5 2 6

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
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        }
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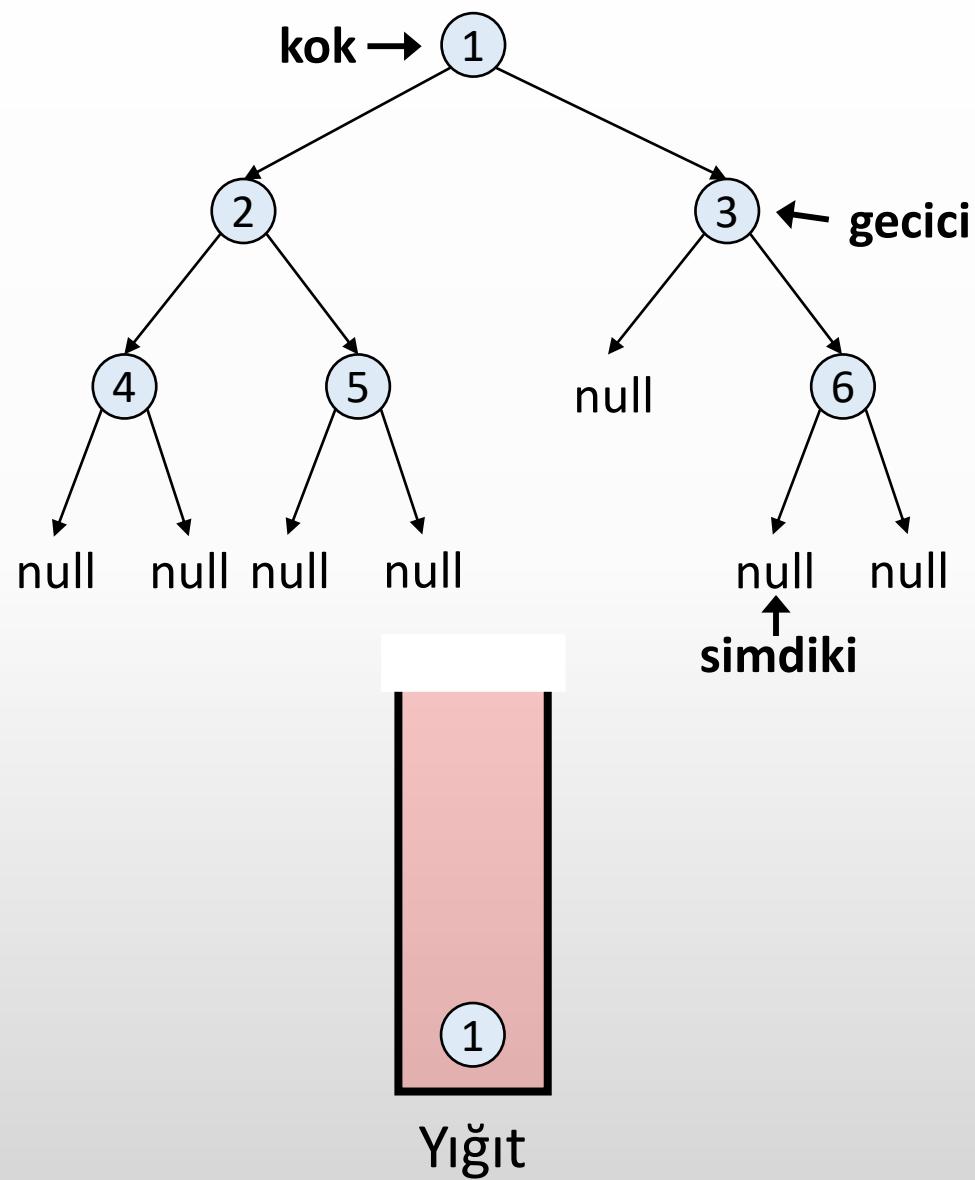
Çıktı: 4 5 2 6

```
AgacDugumu simdiki = kok;  
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while(simdiki != null || !yigit.isEmpty()) {  
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        else {  
            simdiki = gecici;  
        }  
    }  
}
```



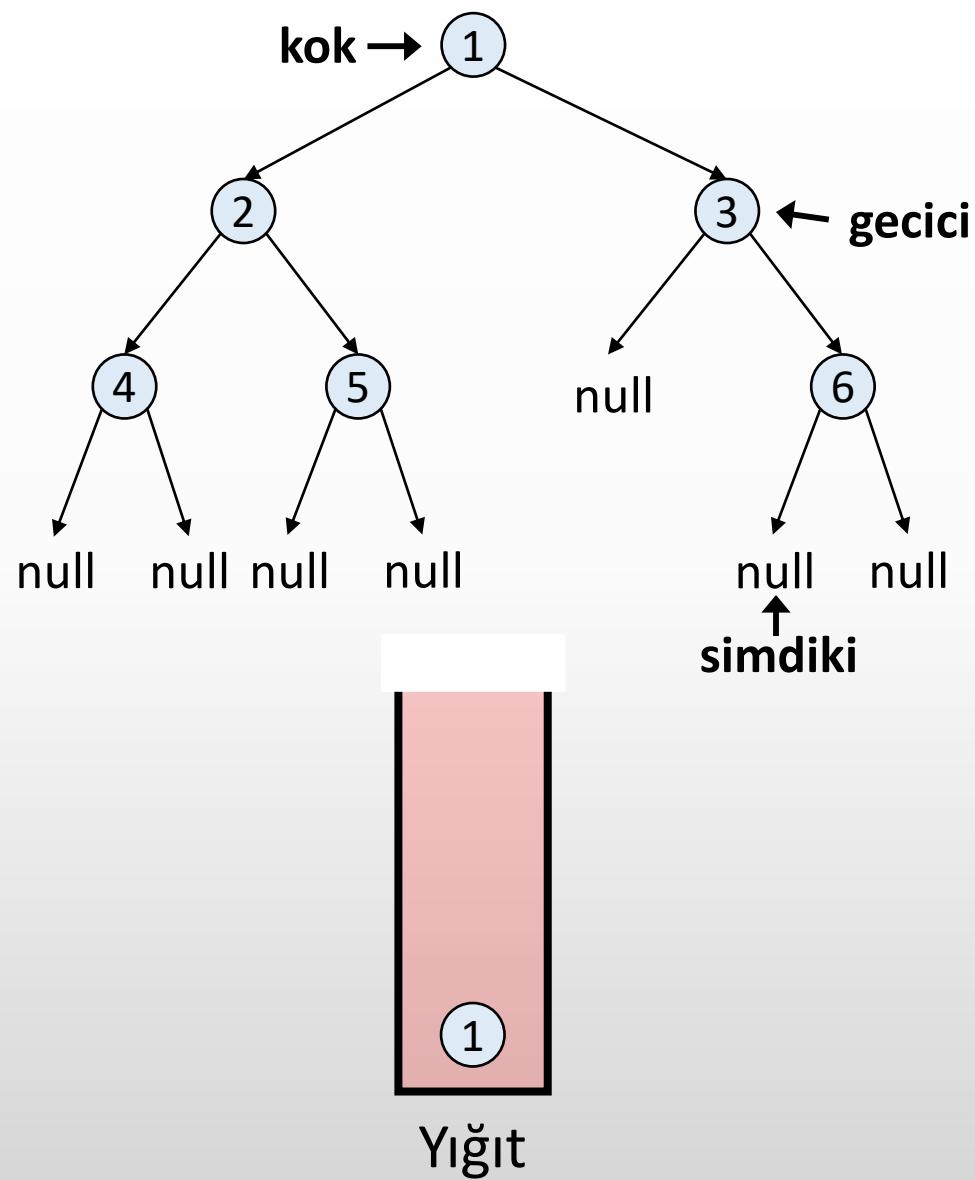
Çıktı: 4 5 2 6

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    }
}
```



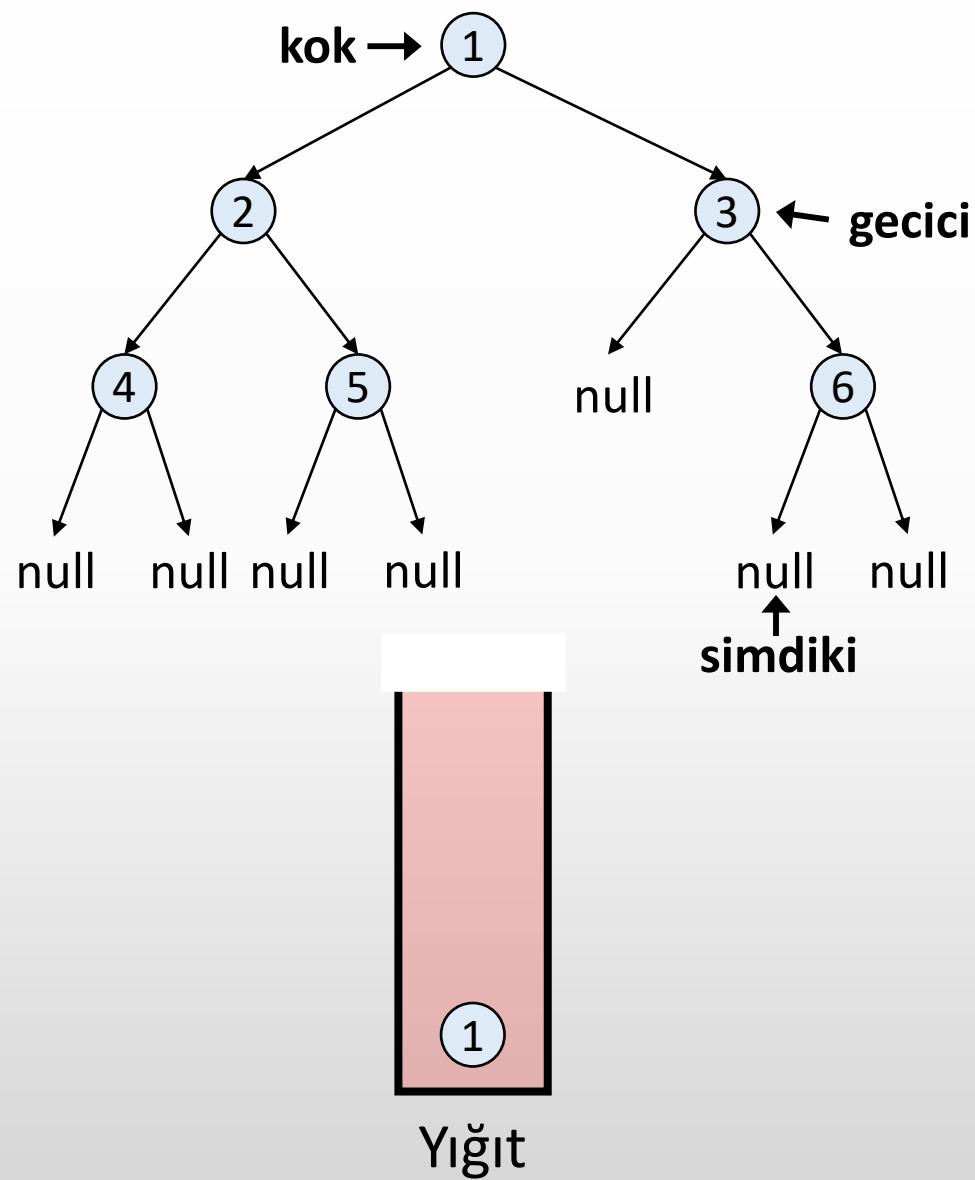
Çıktı: 4 5 2 6 3

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



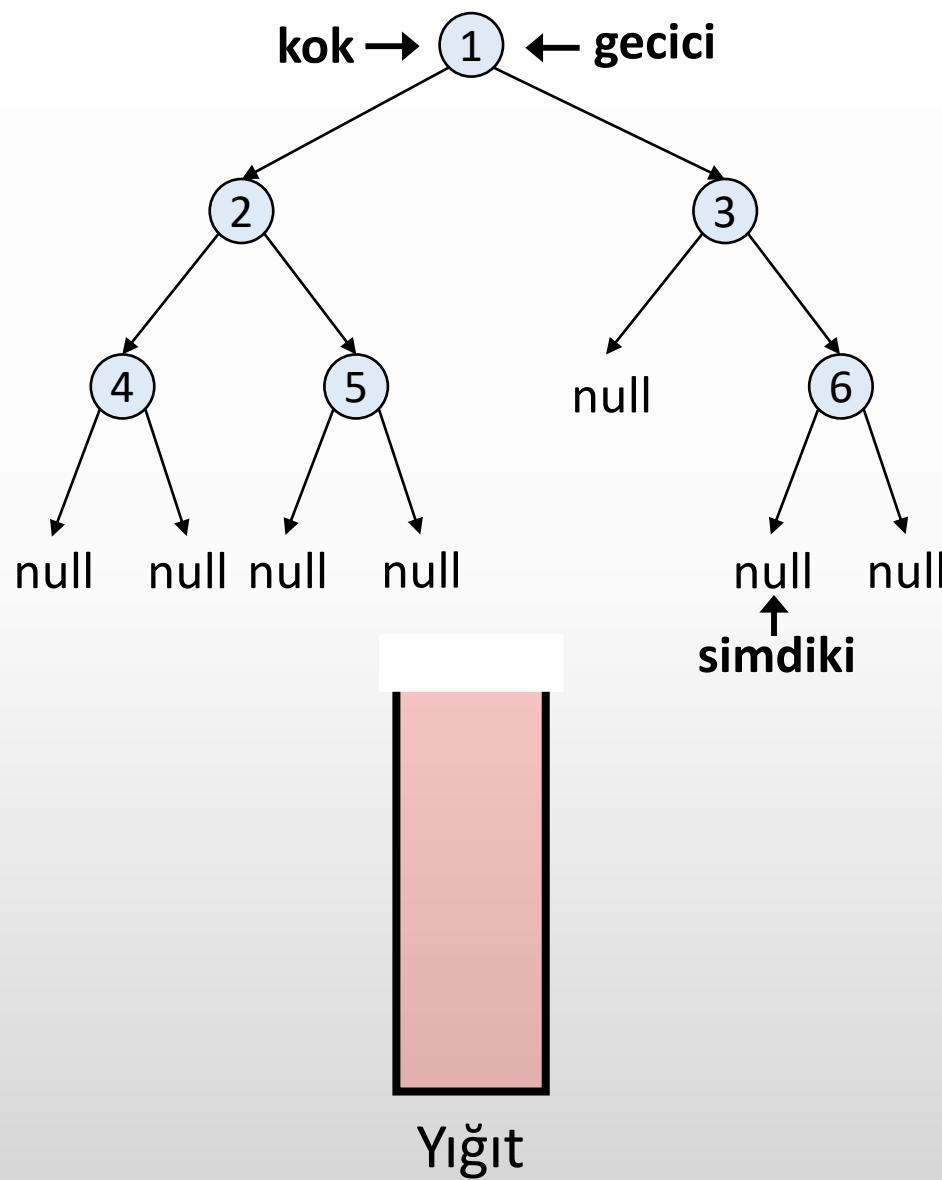
Çıktı: 4 5 2 6 3

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



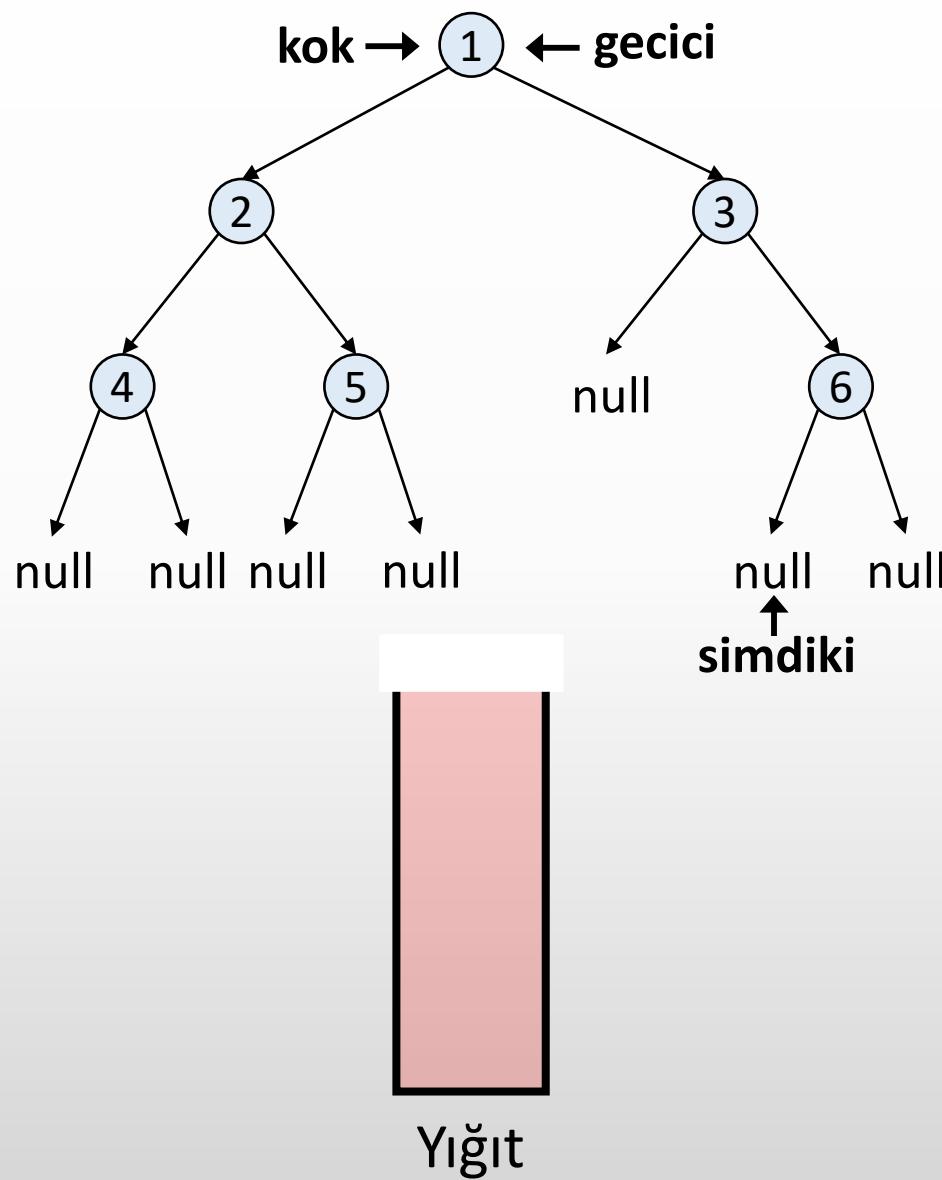
Çıktı: 4 5 2 6 3

```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
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        else {
            simdiki = gecici;
        }
    }
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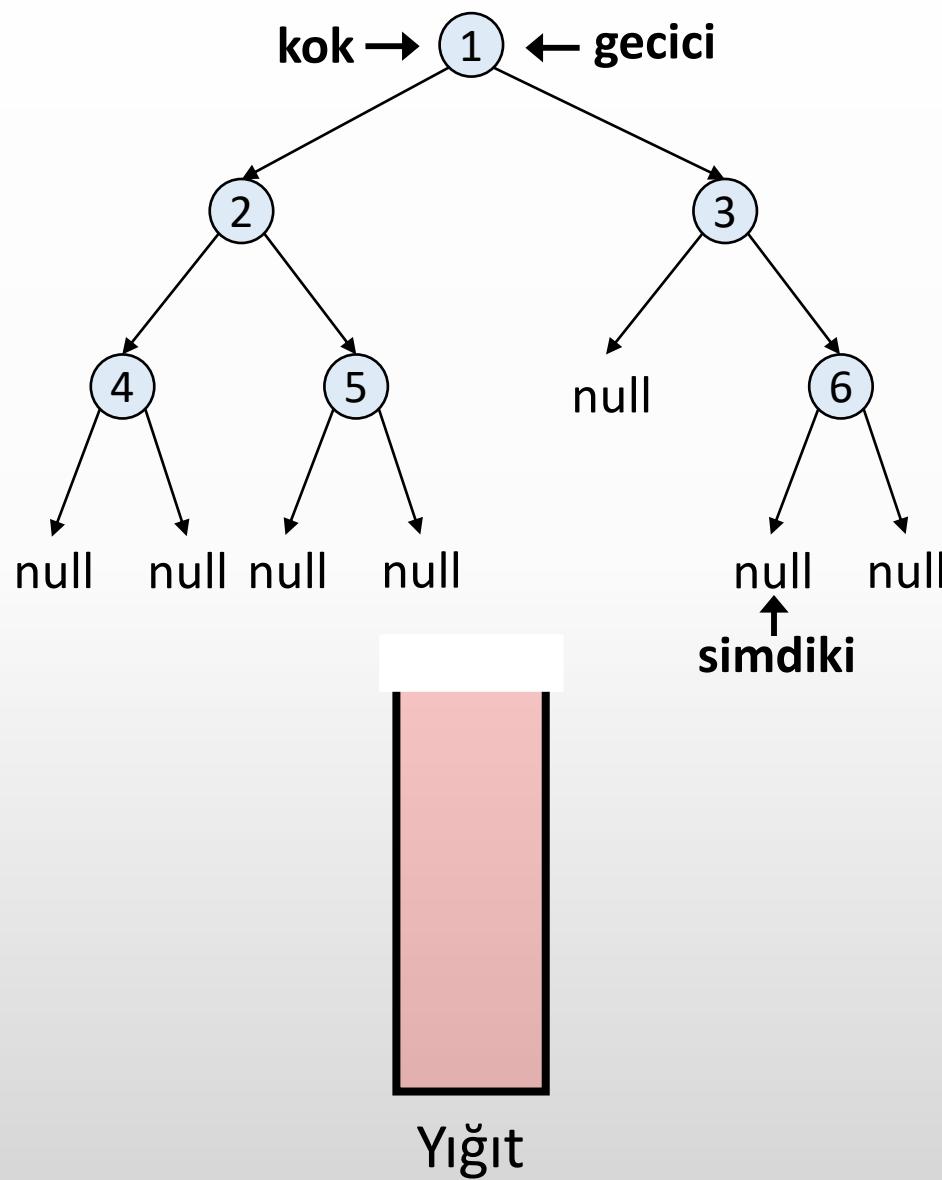
Çıktı: 4 5 2 6 3

```
AgacDugumu simdiki = kok;
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                gecici == yigit.peek().sag) {
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            }
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        else {
            simdiki = gecici;
        }
    }
}
```



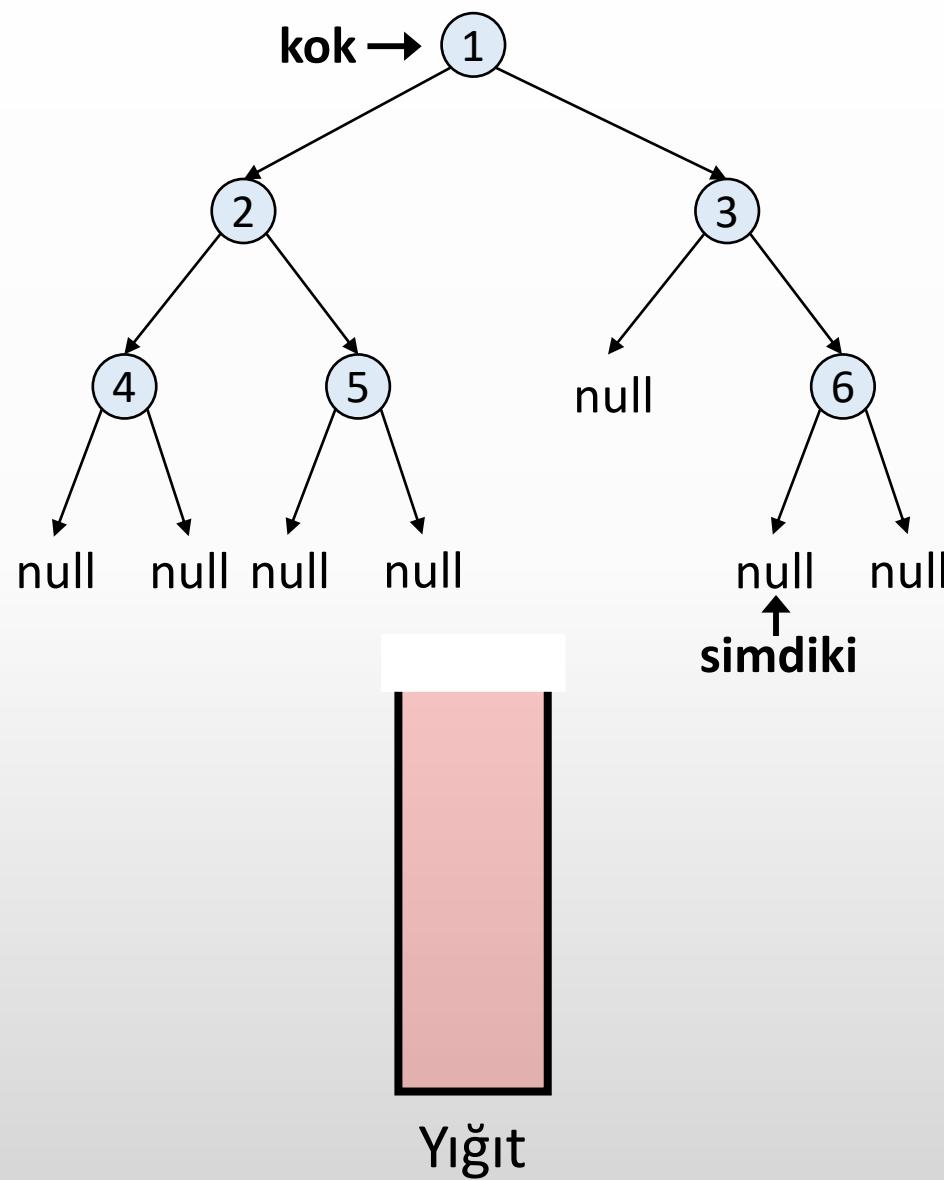
Çıktı: 4 5 2 6 3 1

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



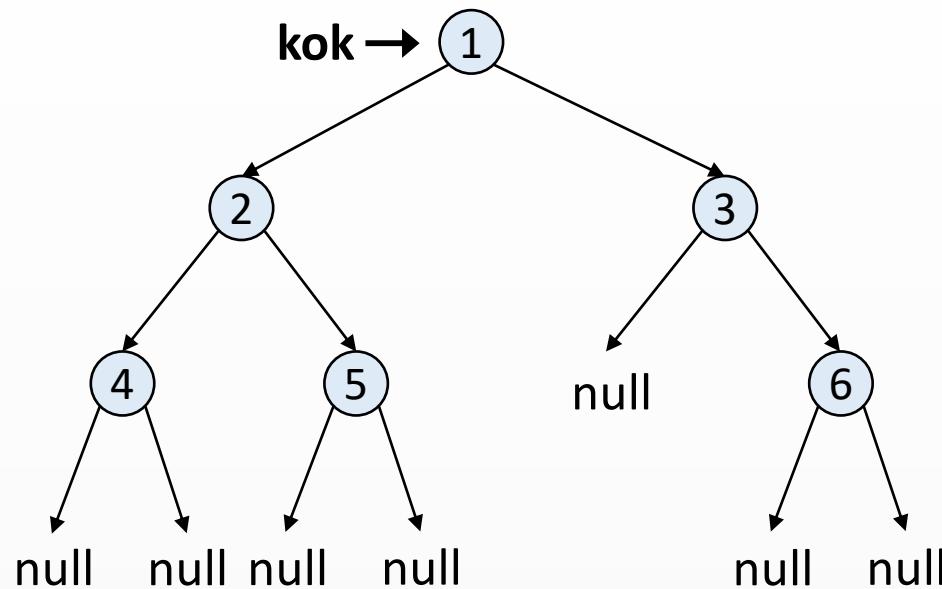
Çıktı: 4 5 2 6 3 1

```
AgacDugumu simdiki = kok;
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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: 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;
        }
    }
}

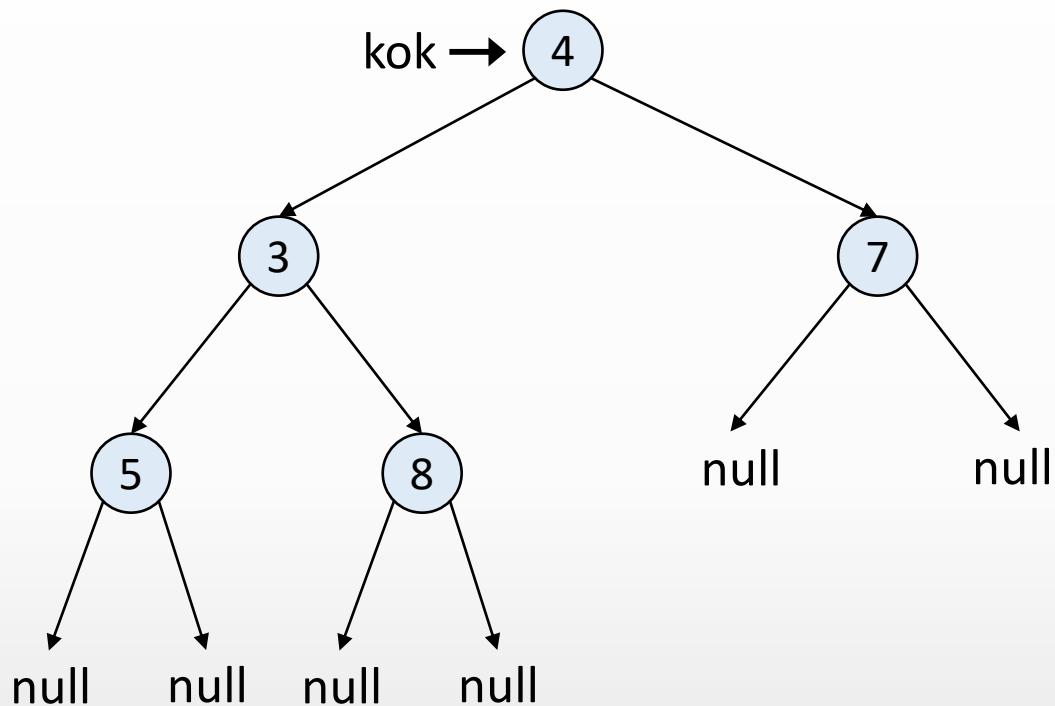
```

İkili Ağaçta En Büyük Değeri Bulma

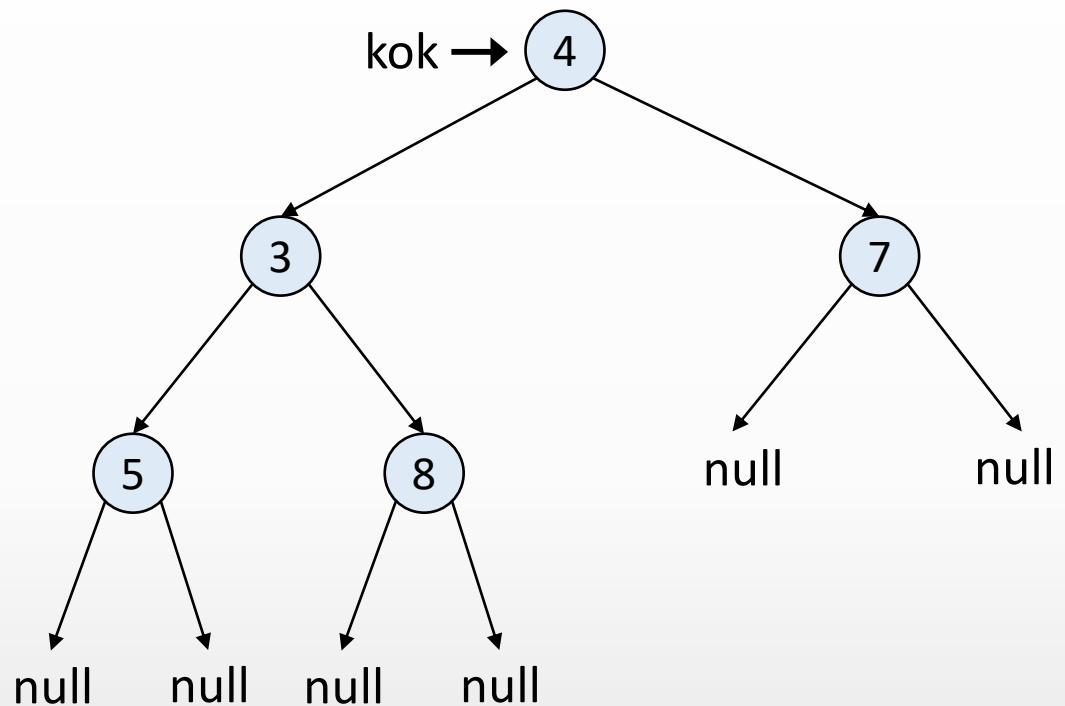




metot çağrımı	satır no	kok	sonuc	sol	sag
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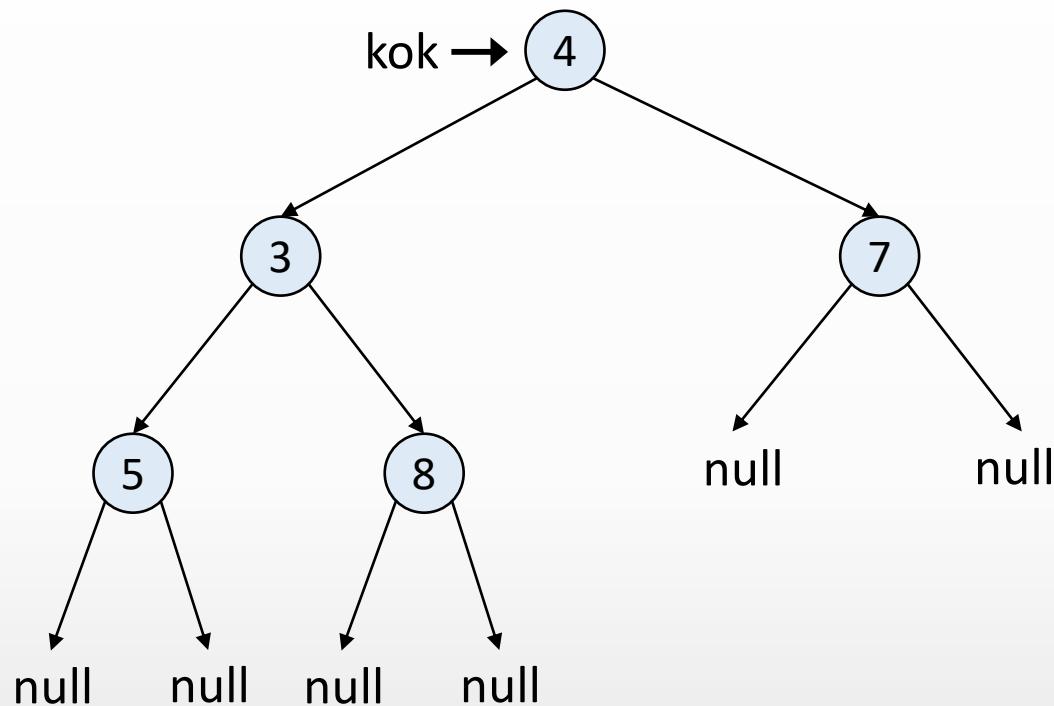
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

→

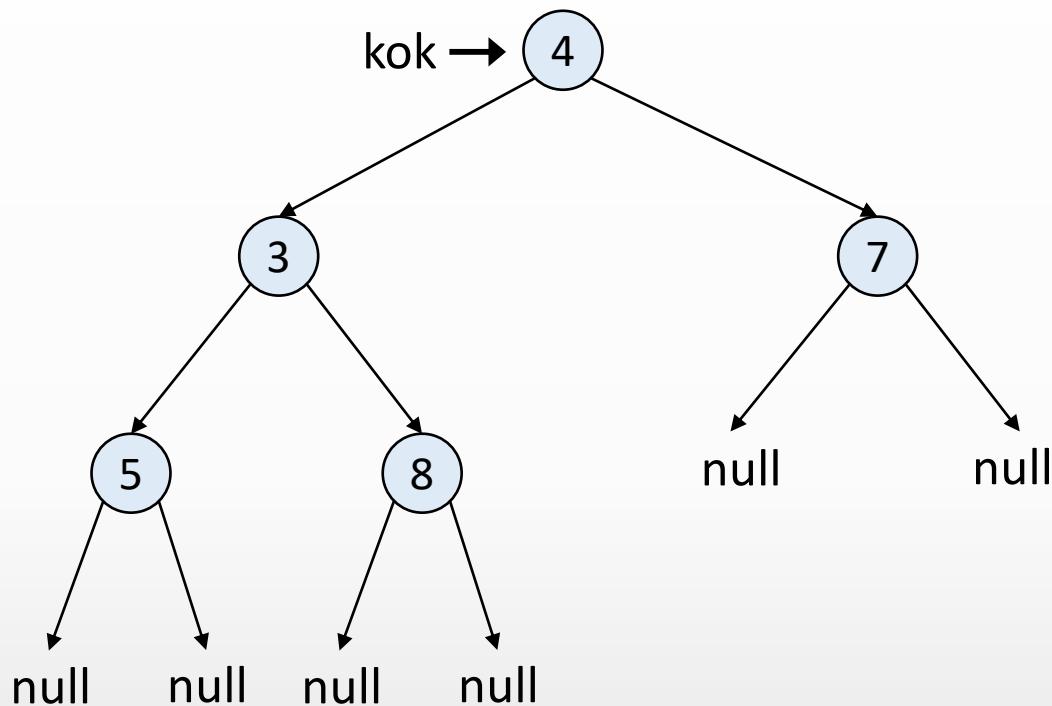
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

→

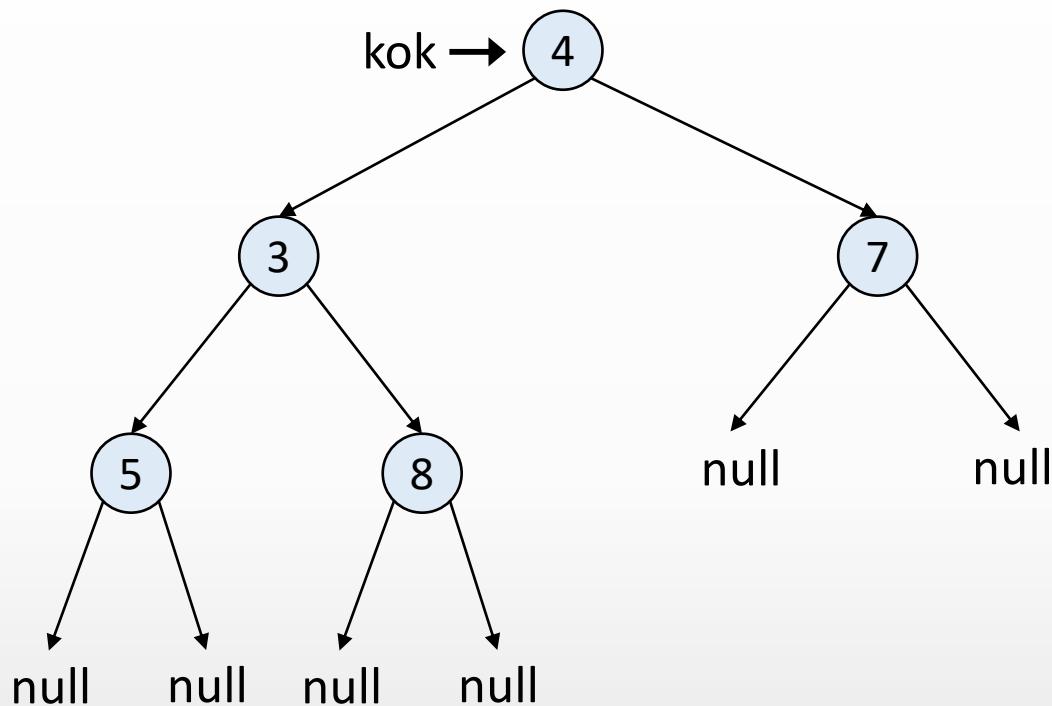
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4	4		



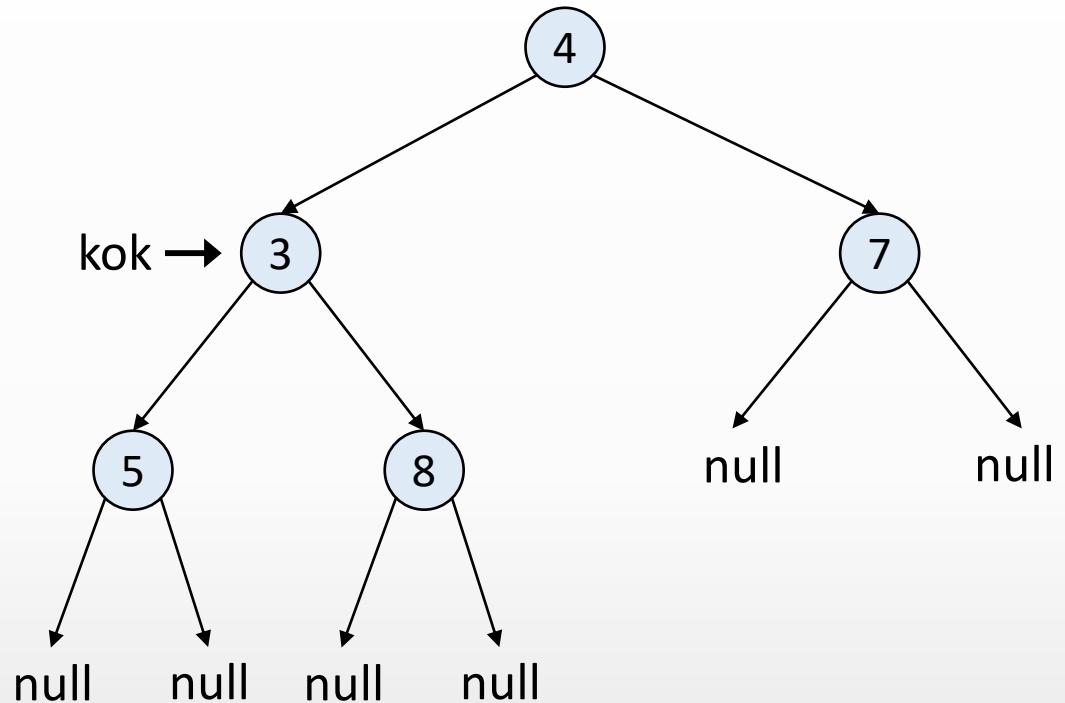
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



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

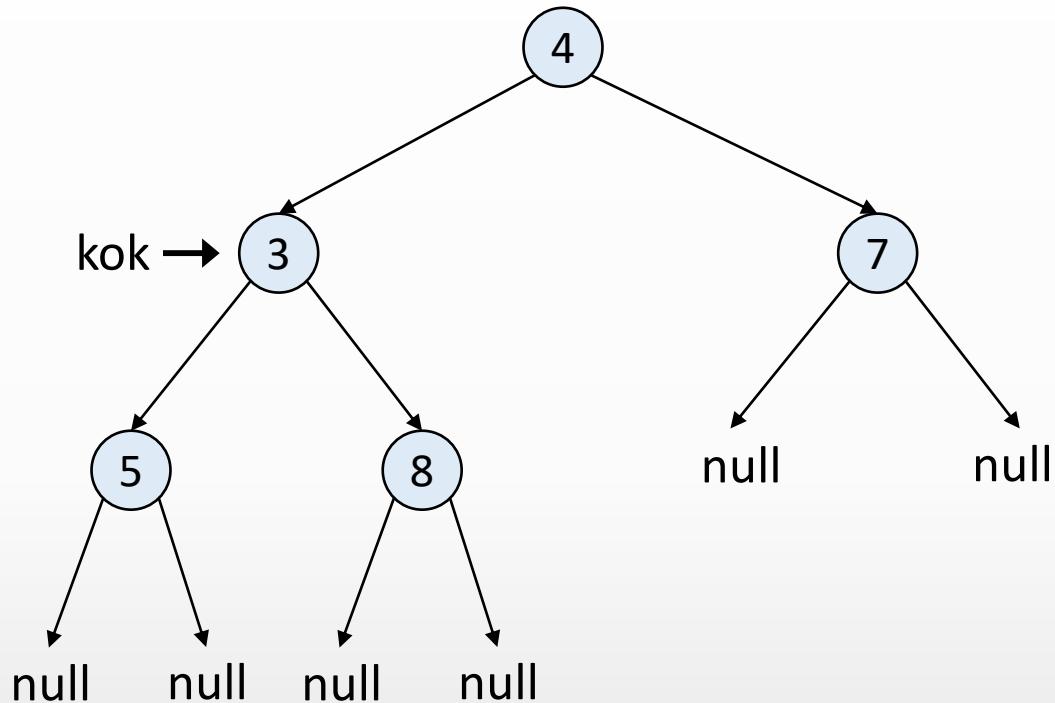


```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



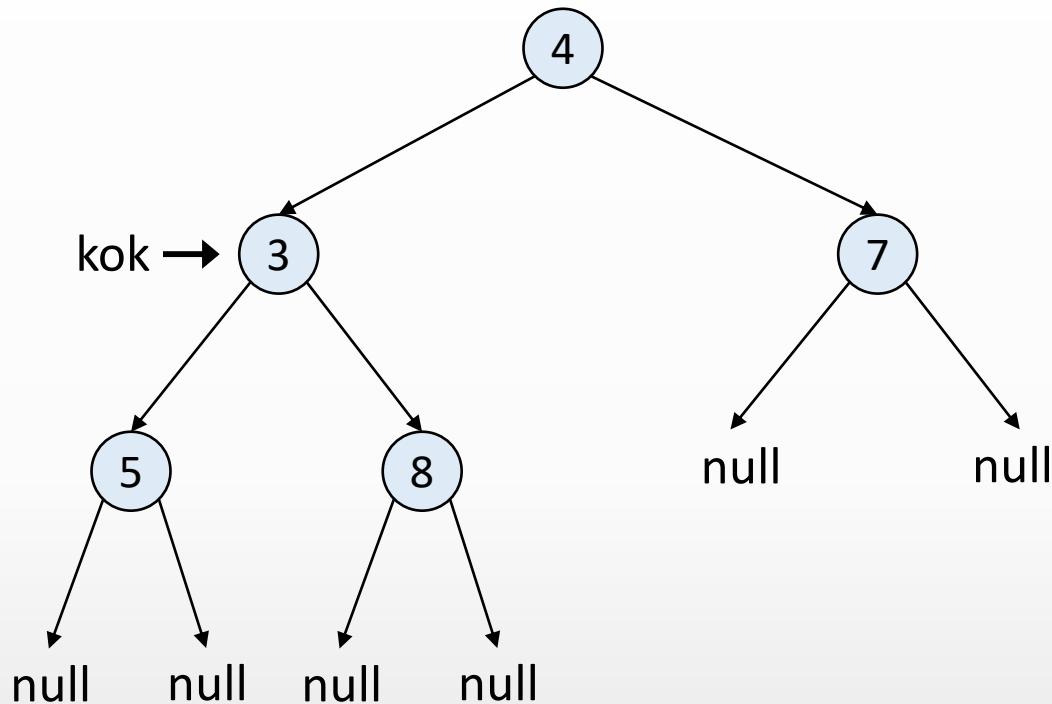
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			

```
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 çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			

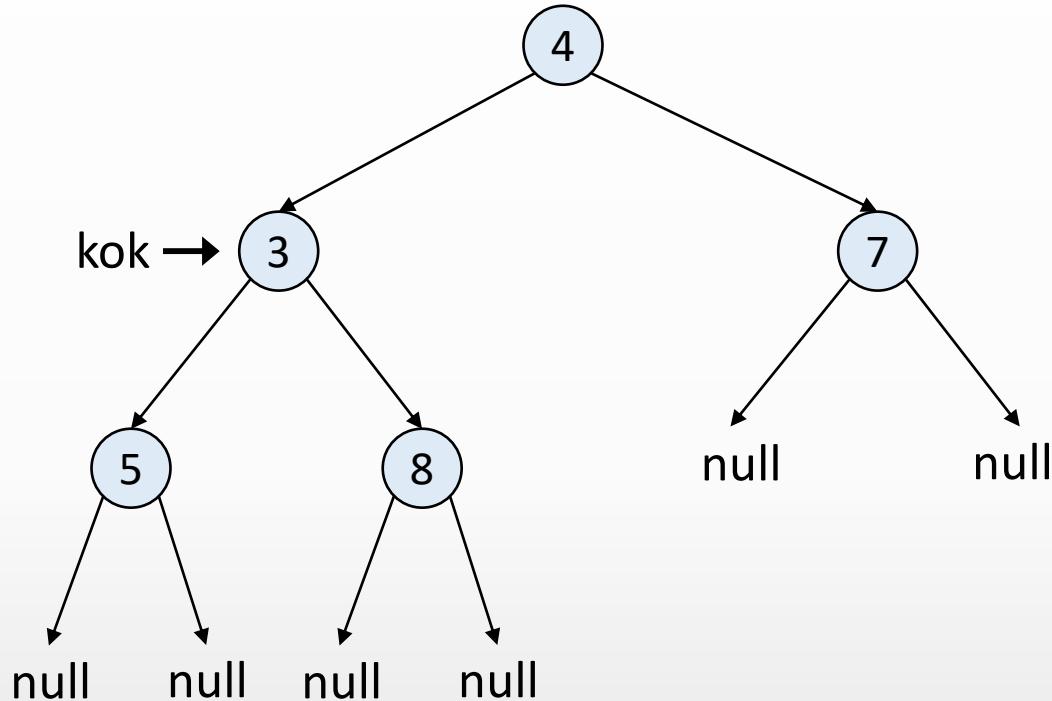
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



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



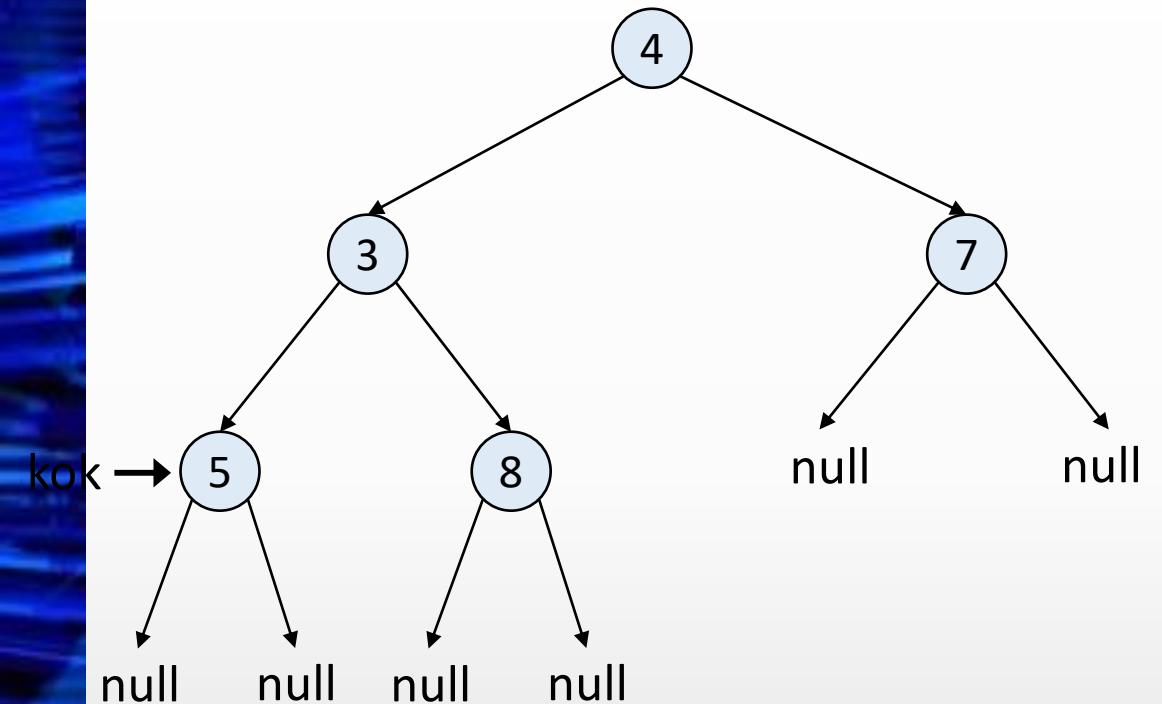
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



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

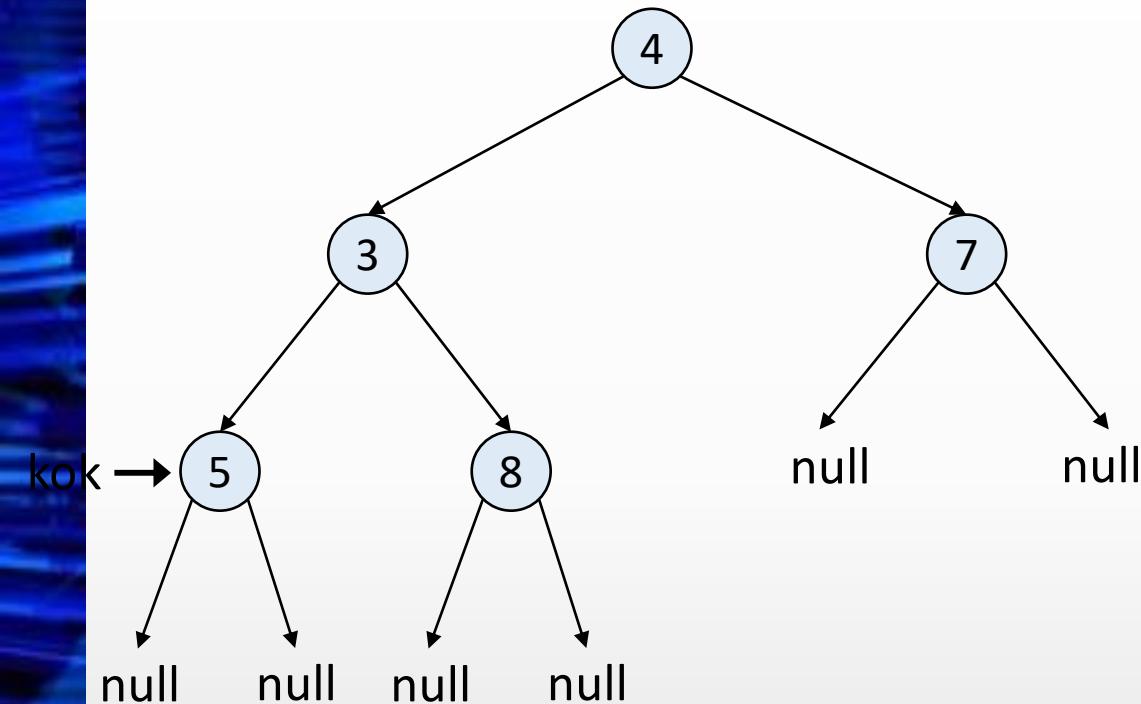


```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



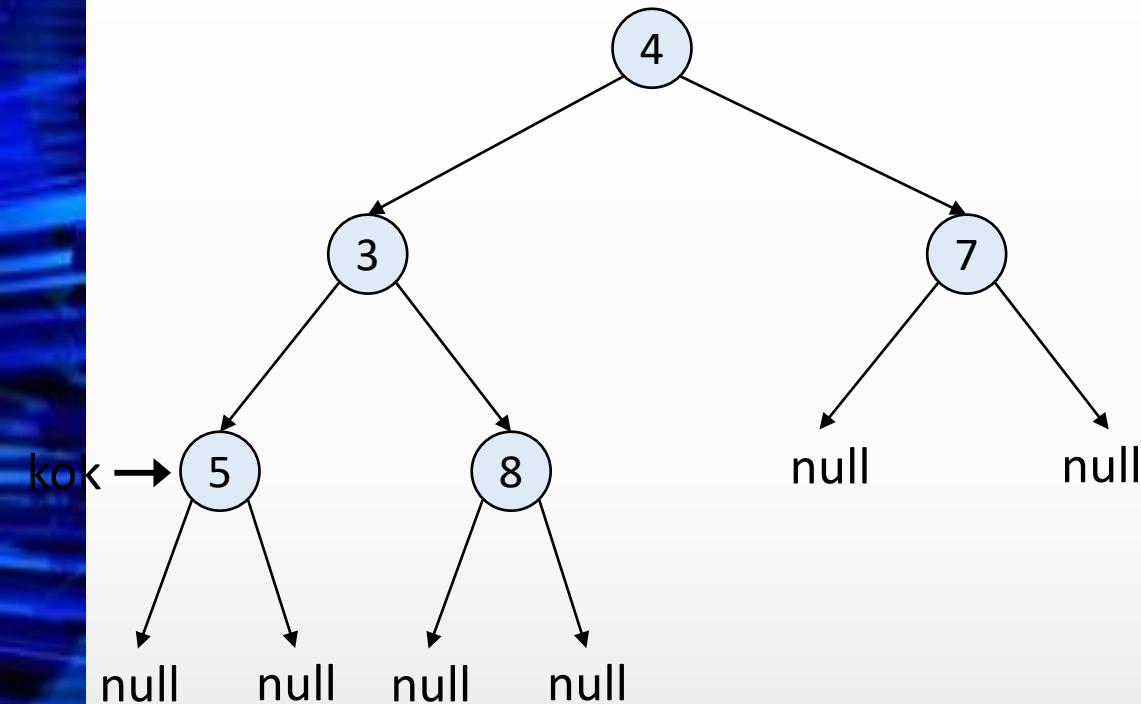
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			

```
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 }
```



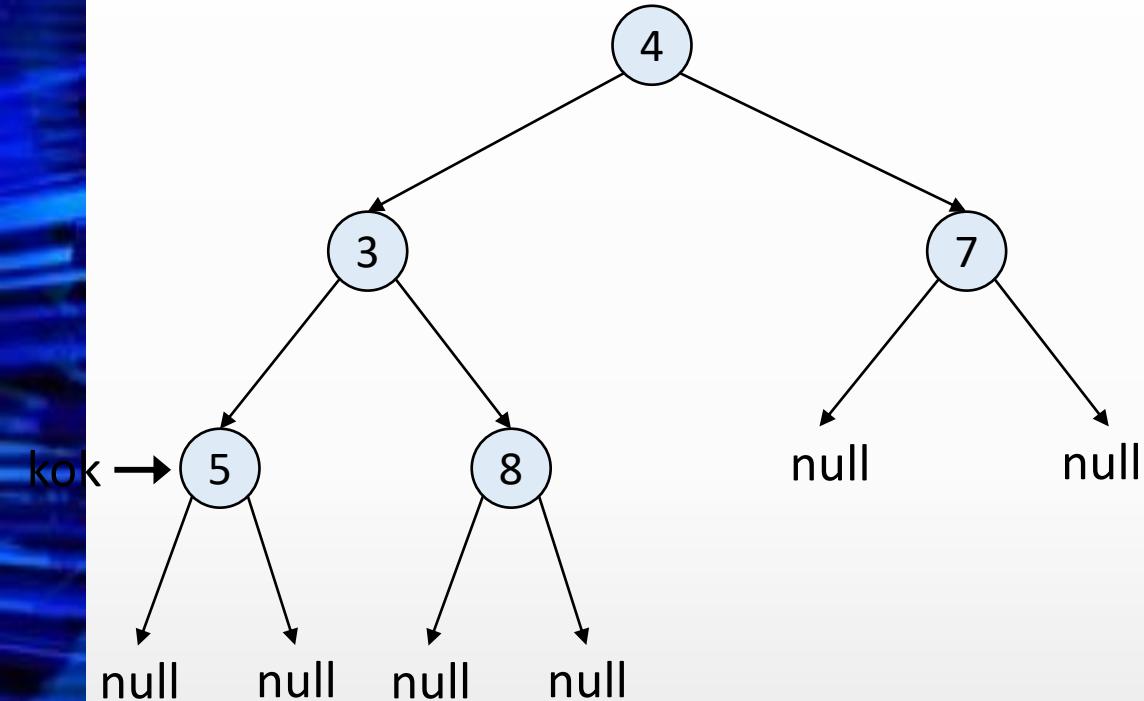
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			

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



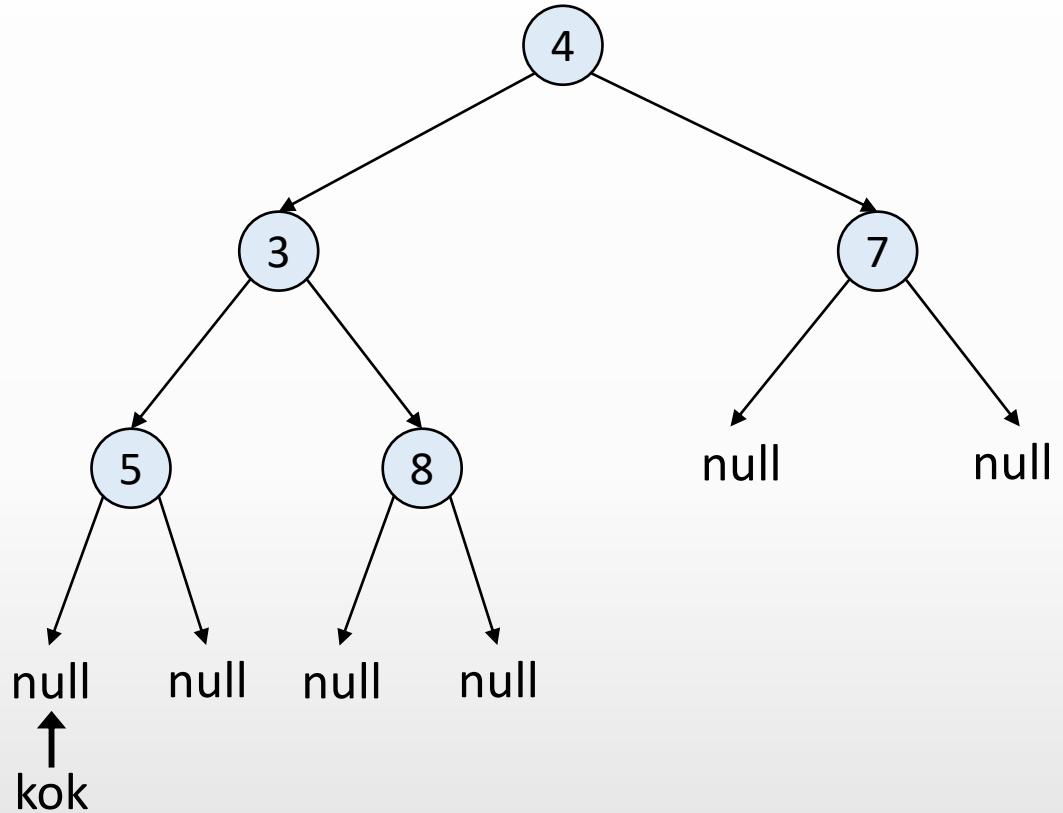
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5	5		

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



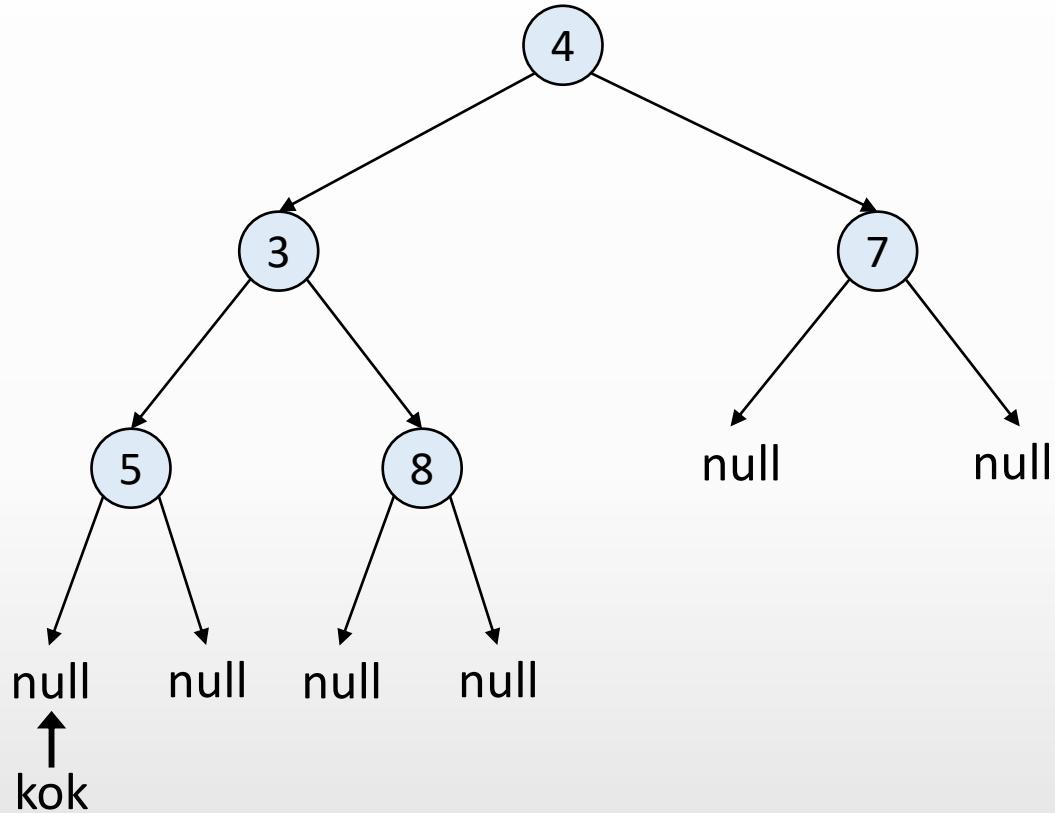
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

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



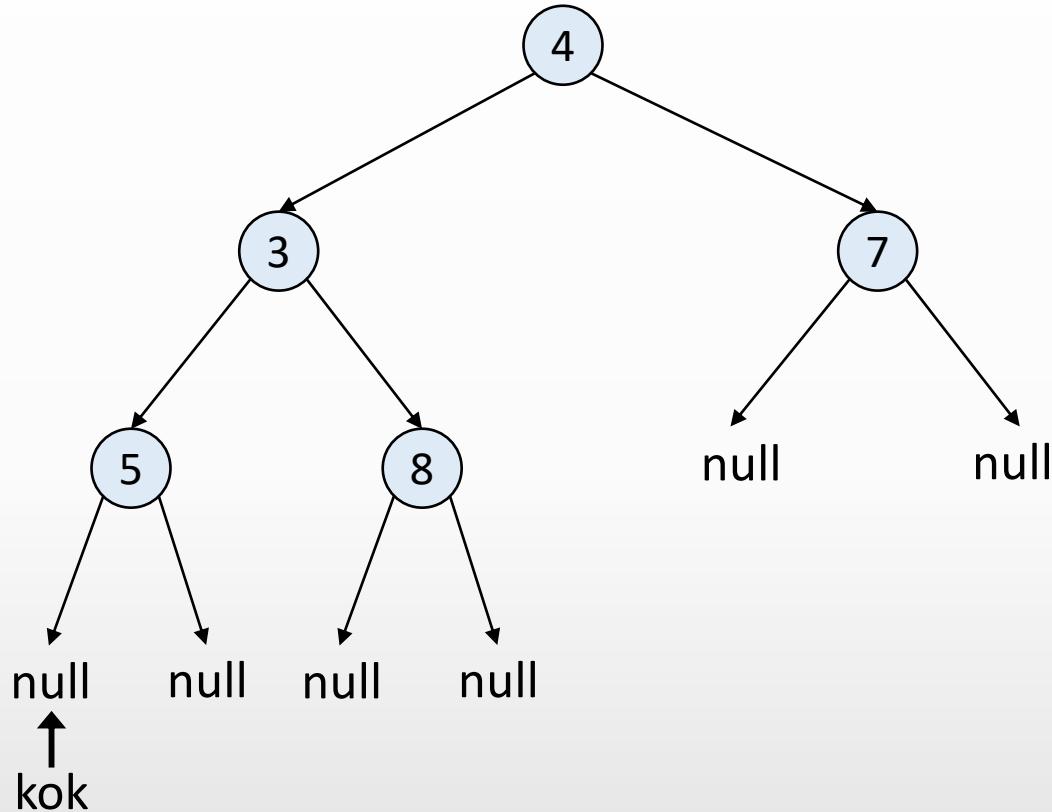
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			

```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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 çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			

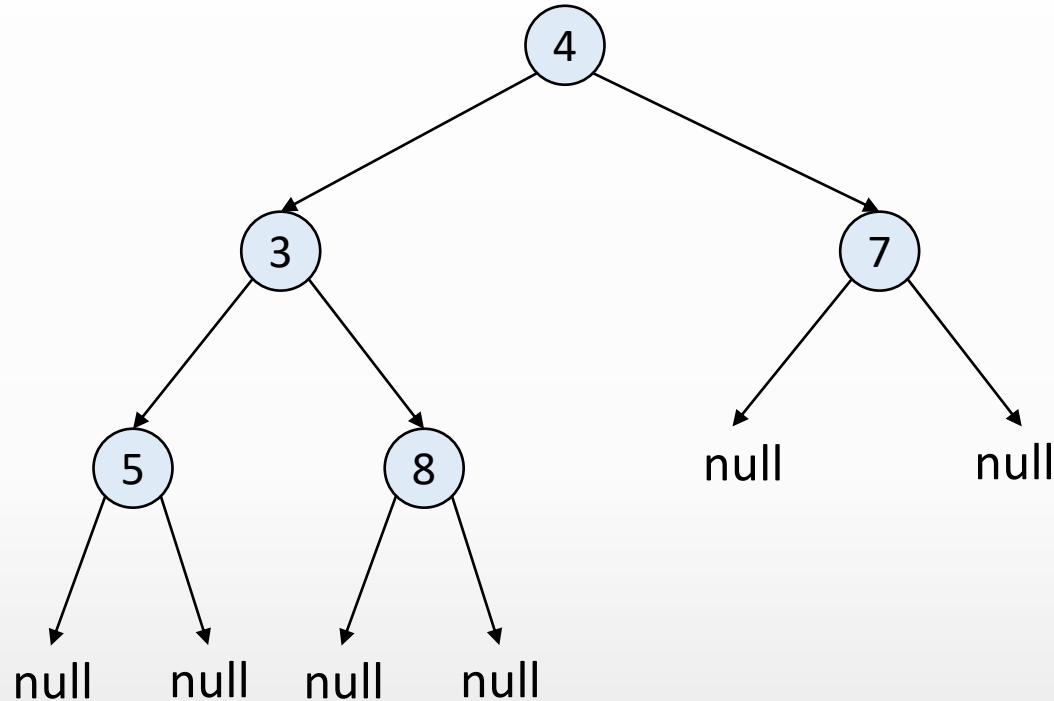
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

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

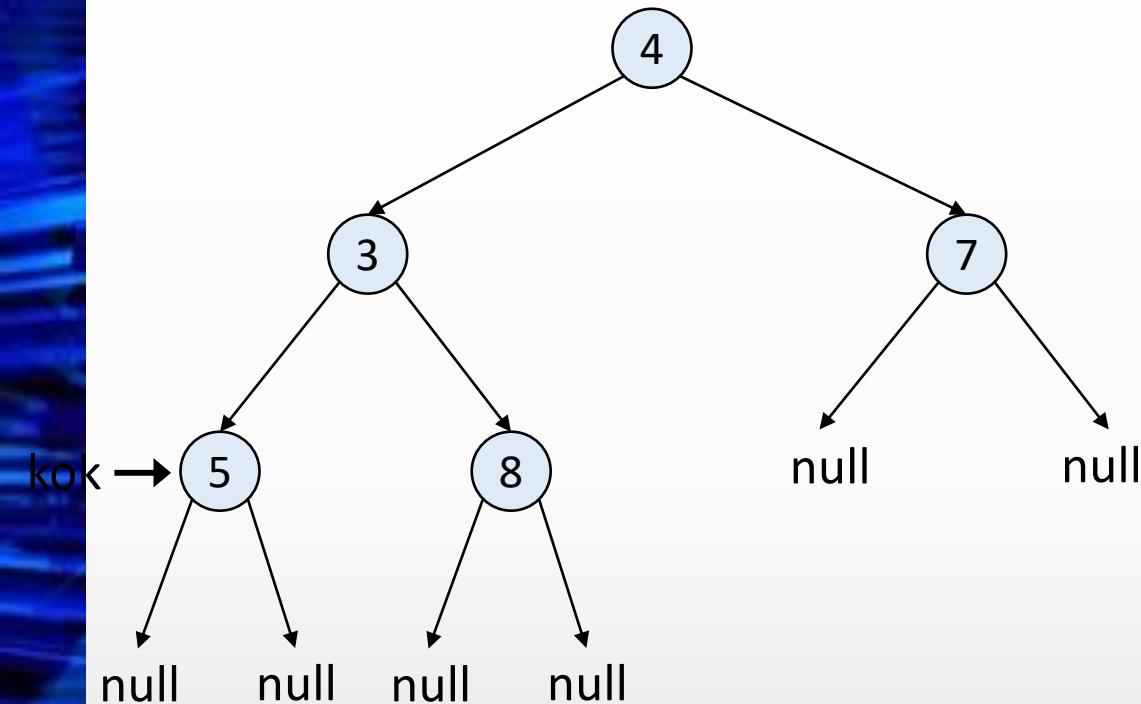
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

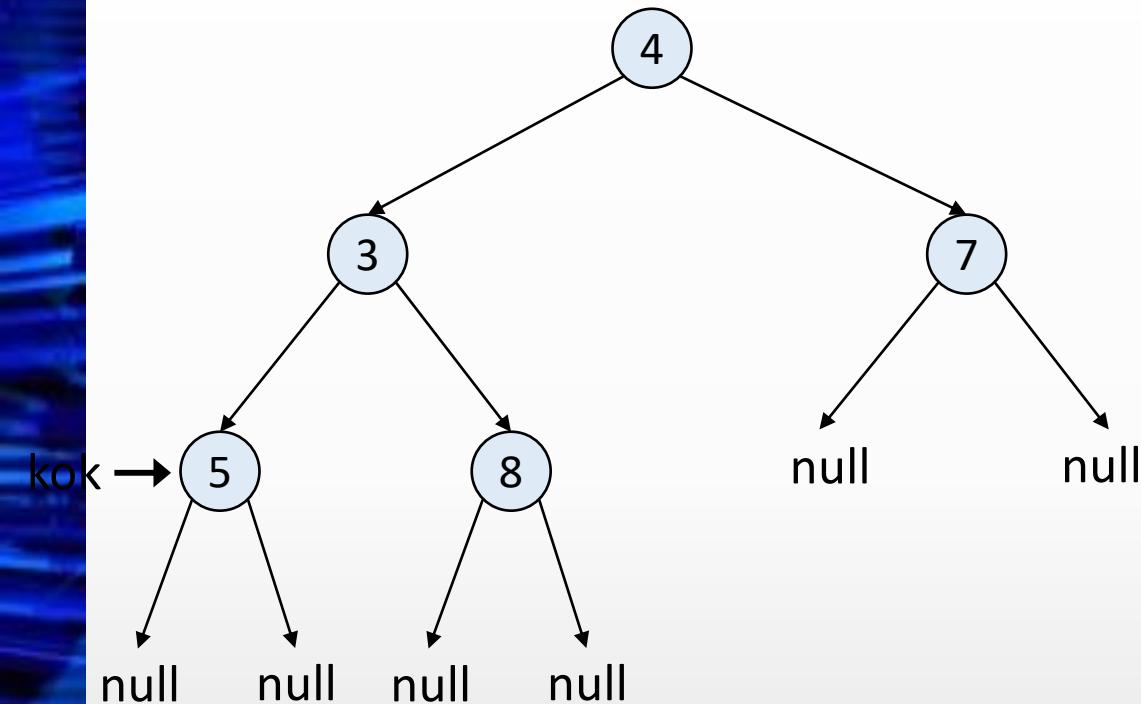
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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 çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5	IMV	

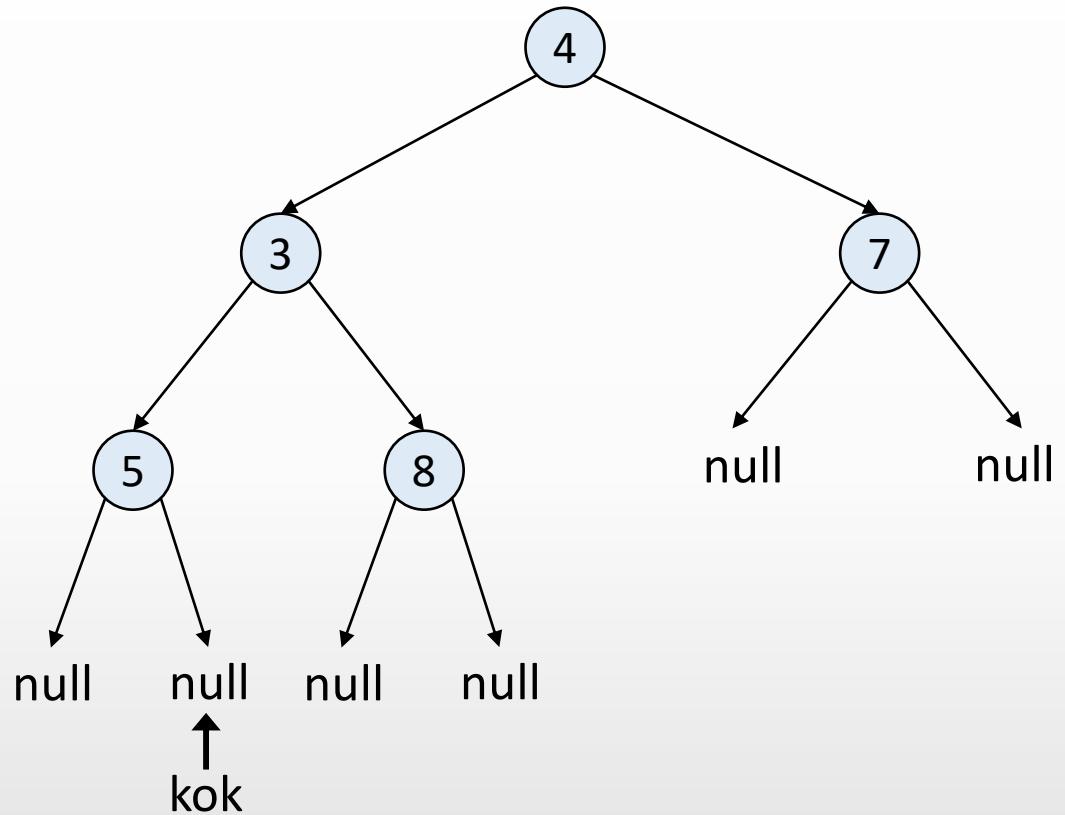
```
1 public int enBuyukBul(AgacDugumu kok) {  
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3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
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9         sonuc = sol;  
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11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



IMV = -2147483648

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

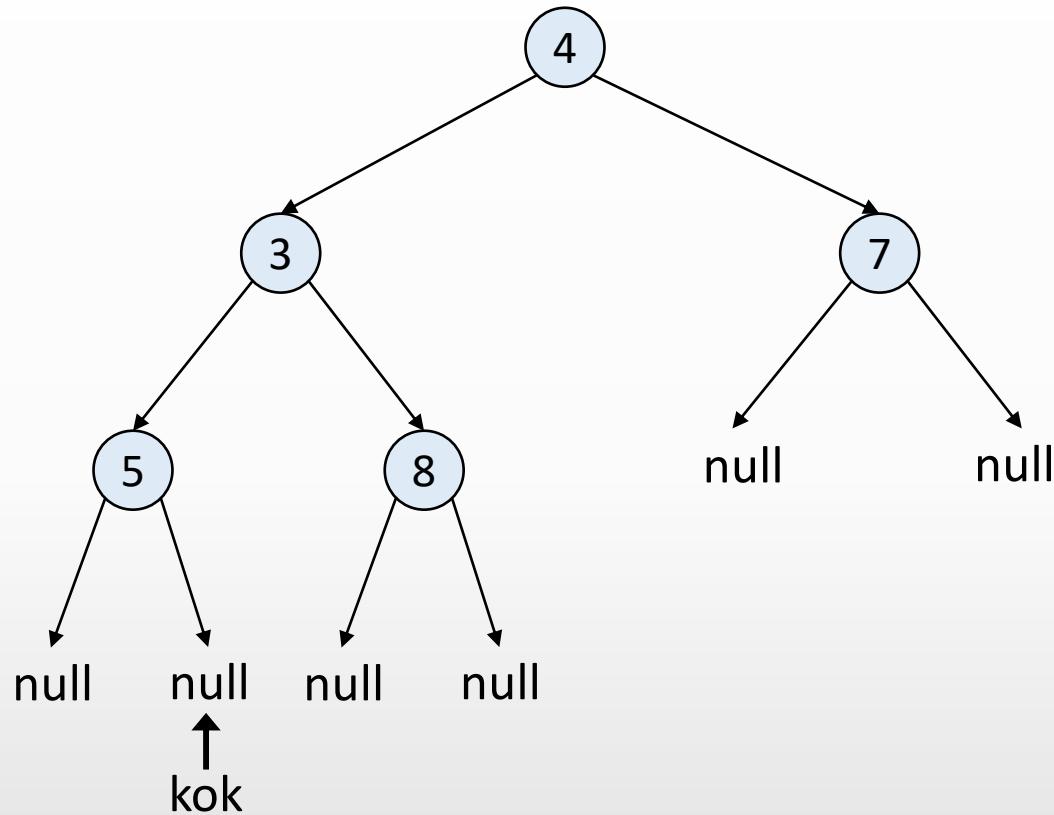
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

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

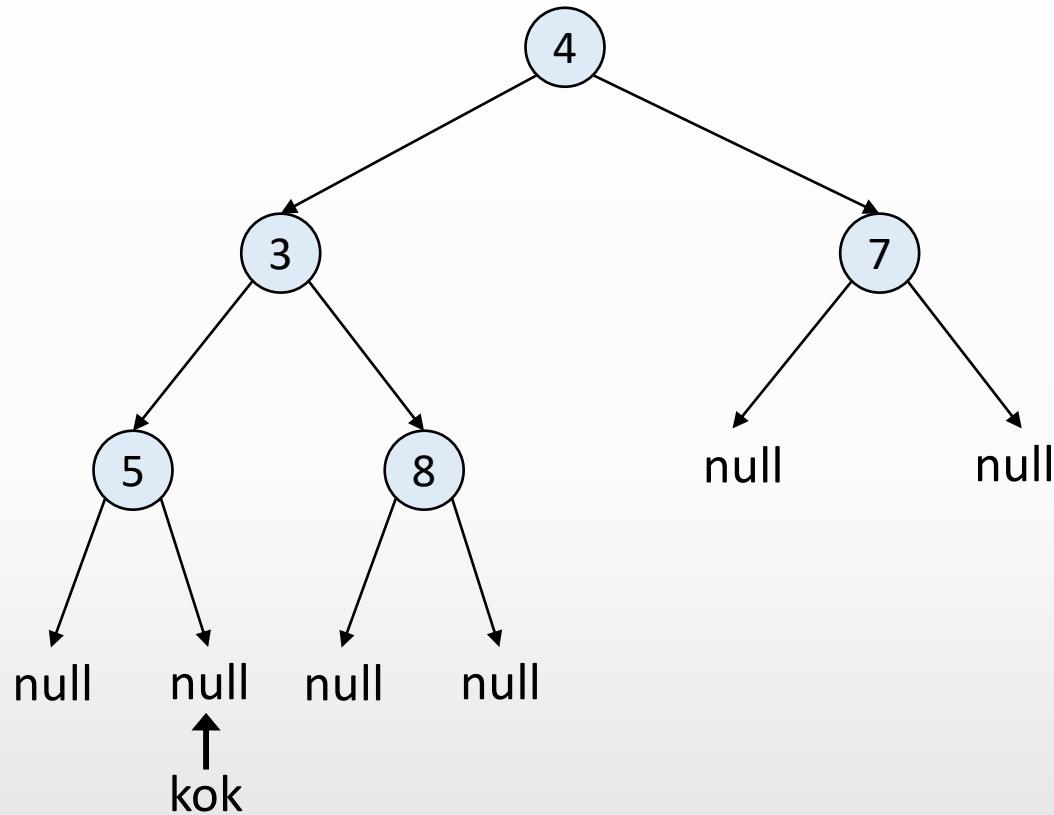
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
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9         sonuc = sol;  
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11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



IMV = -2147483648

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

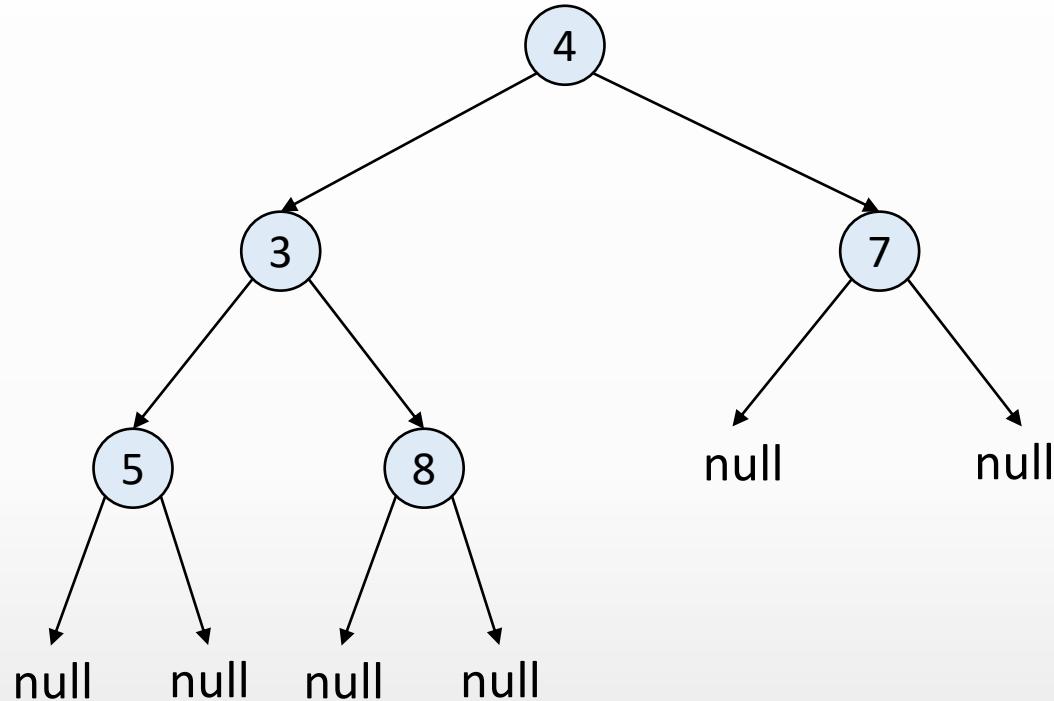
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IMV = -2147483648

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

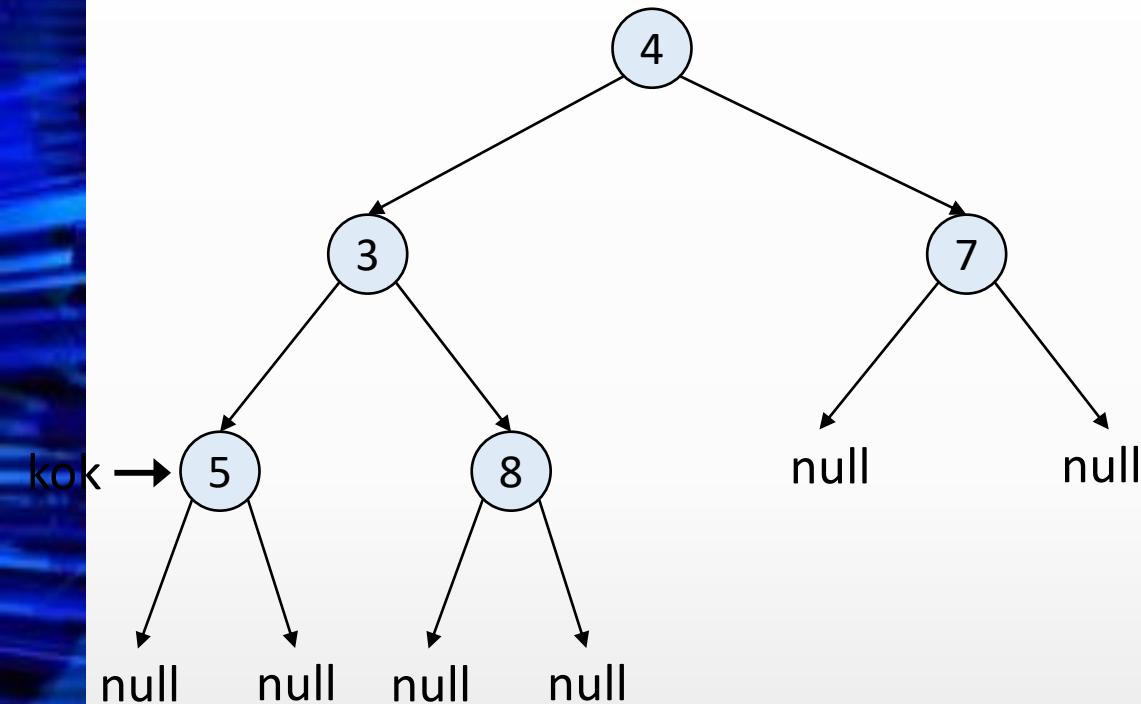
```
1 public int enBuyukBul(AgacDugumu kok) {  
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8     if(sol > sonuc)  
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```



IMV = -2147483648

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

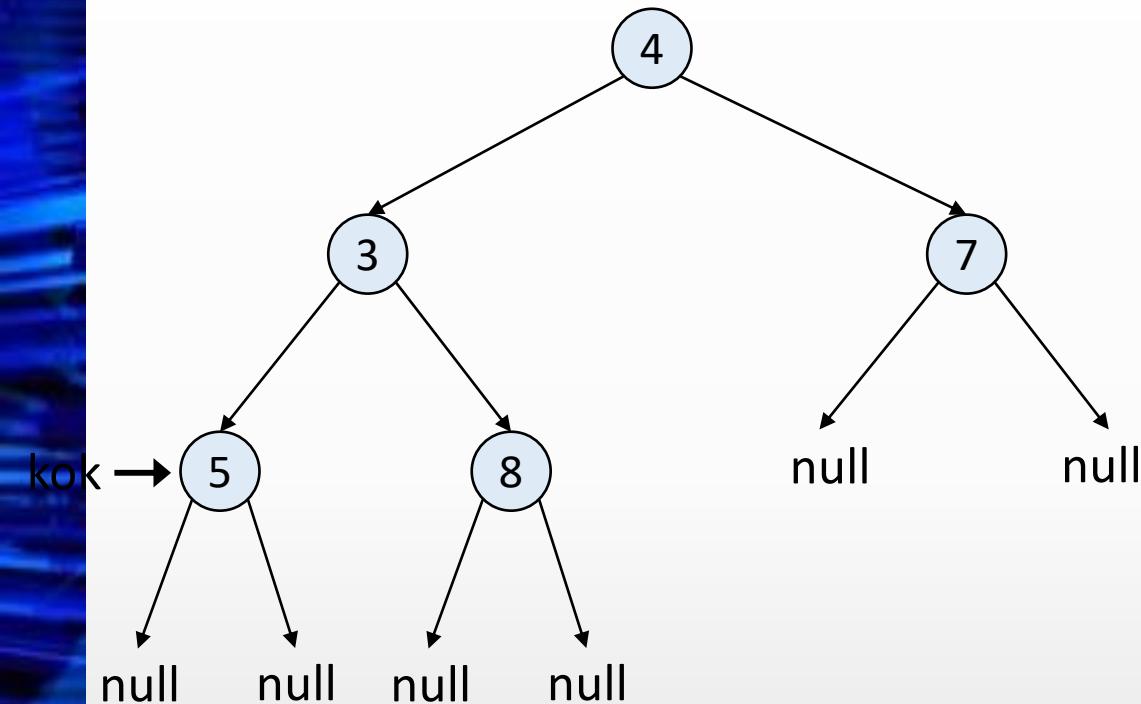
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11        sonuc = sag;  
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13 }
```



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



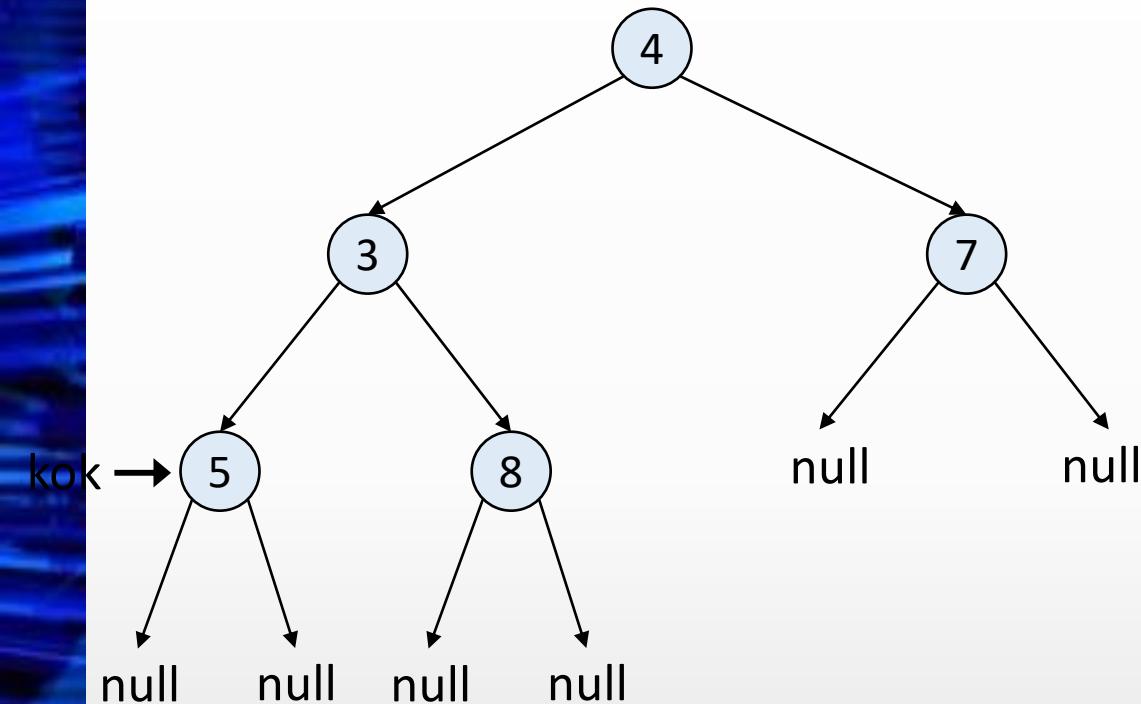
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

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

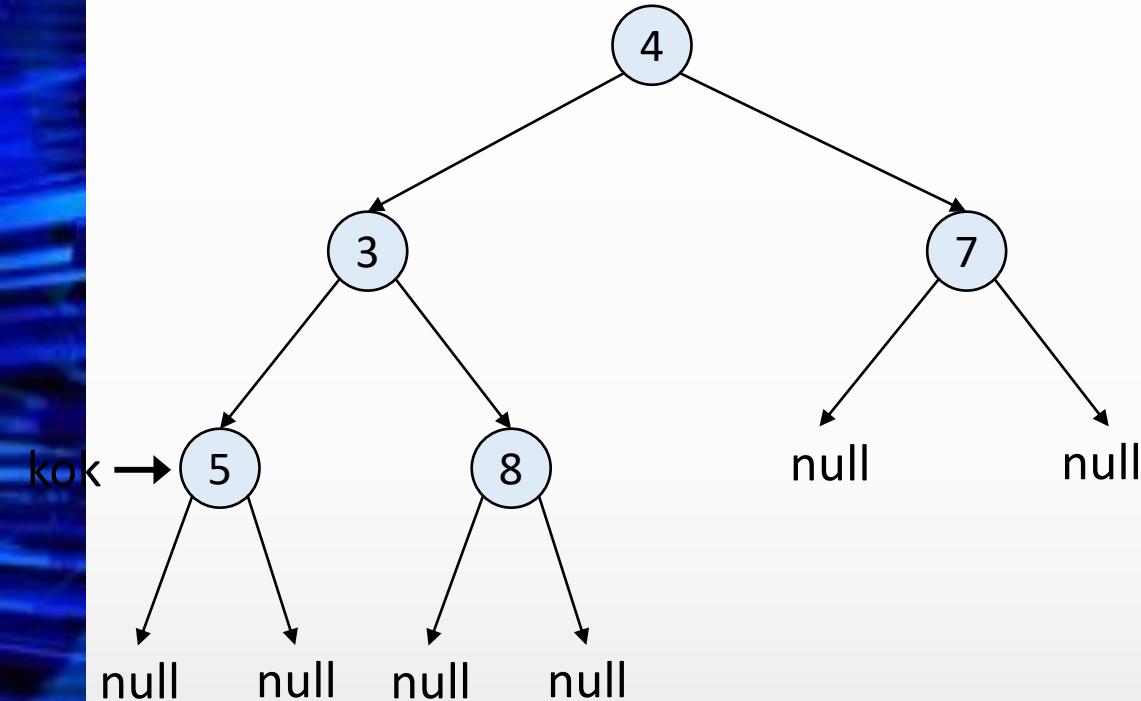
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8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)  
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12    return sonuc;  
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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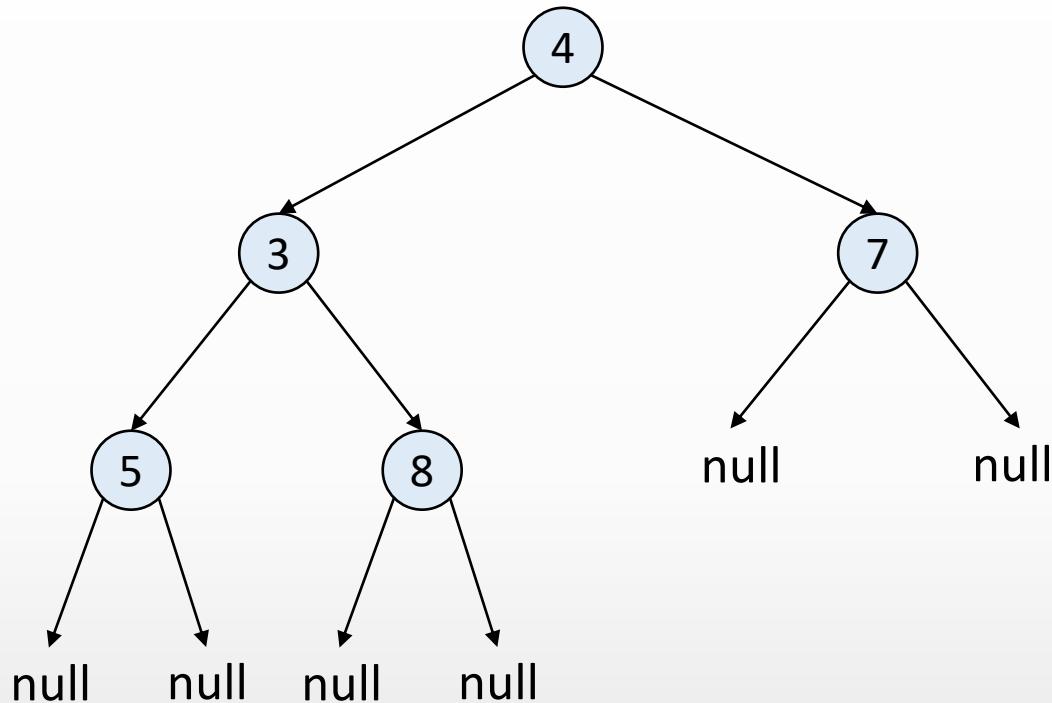
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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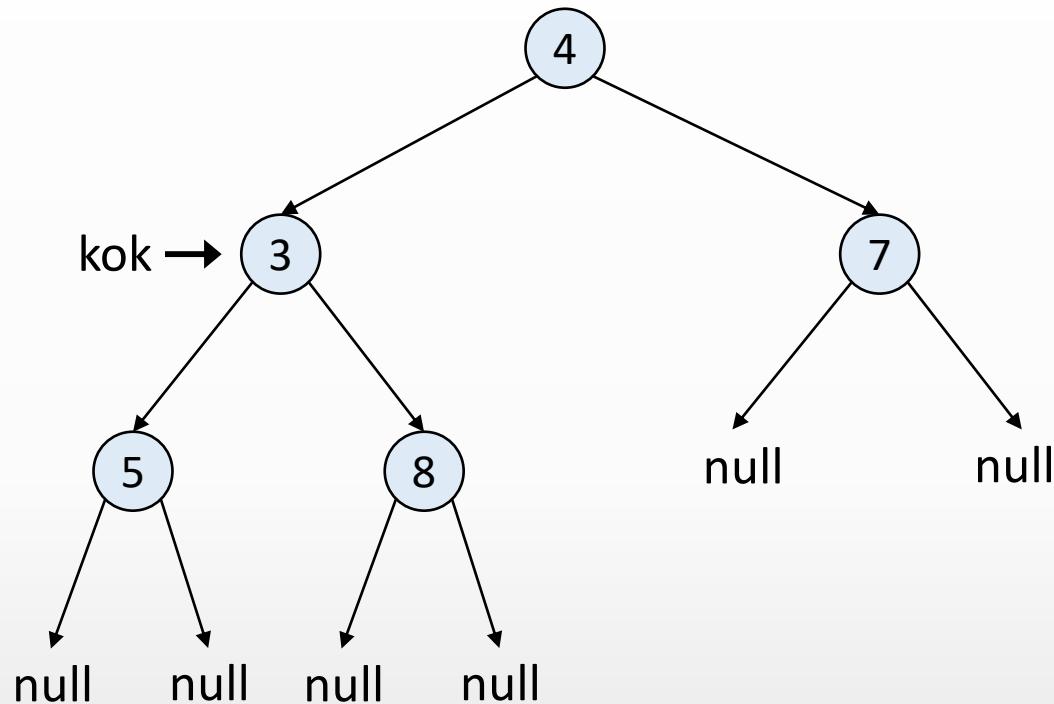
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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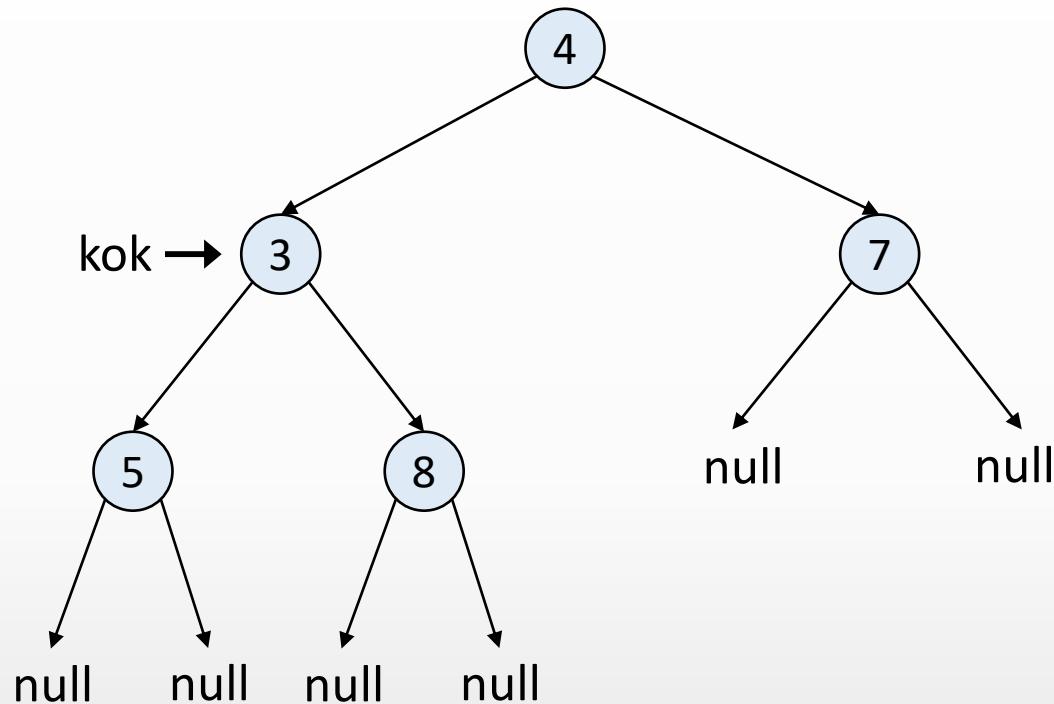


IMV = -2147483648

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

→

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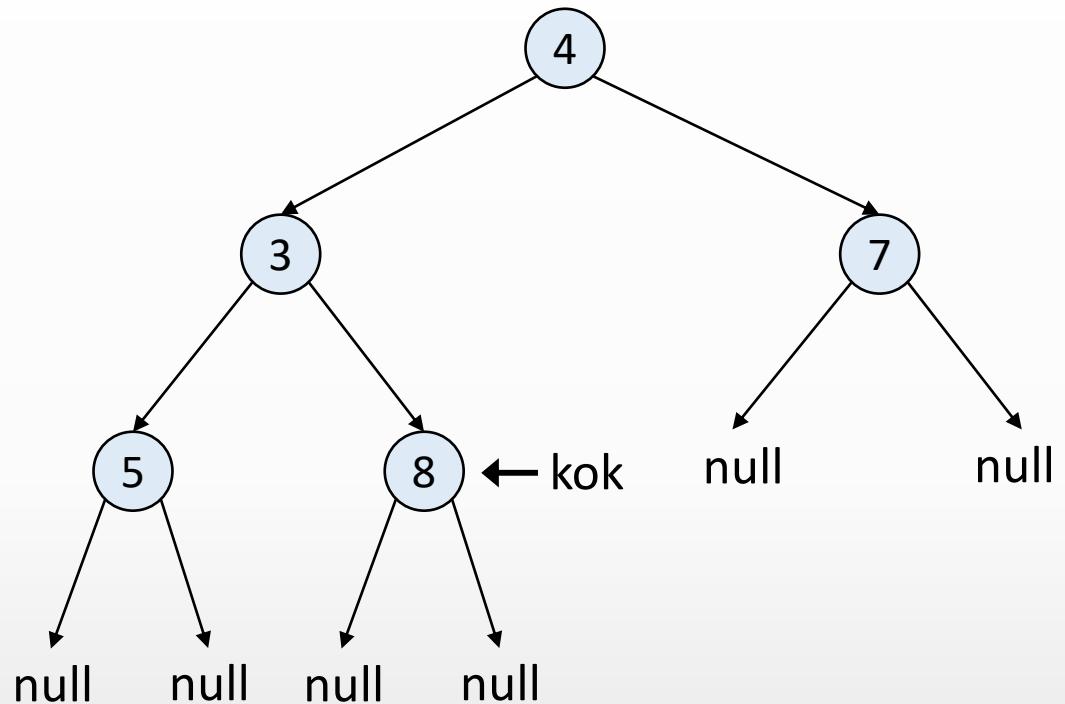
IMV = -2147483648



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



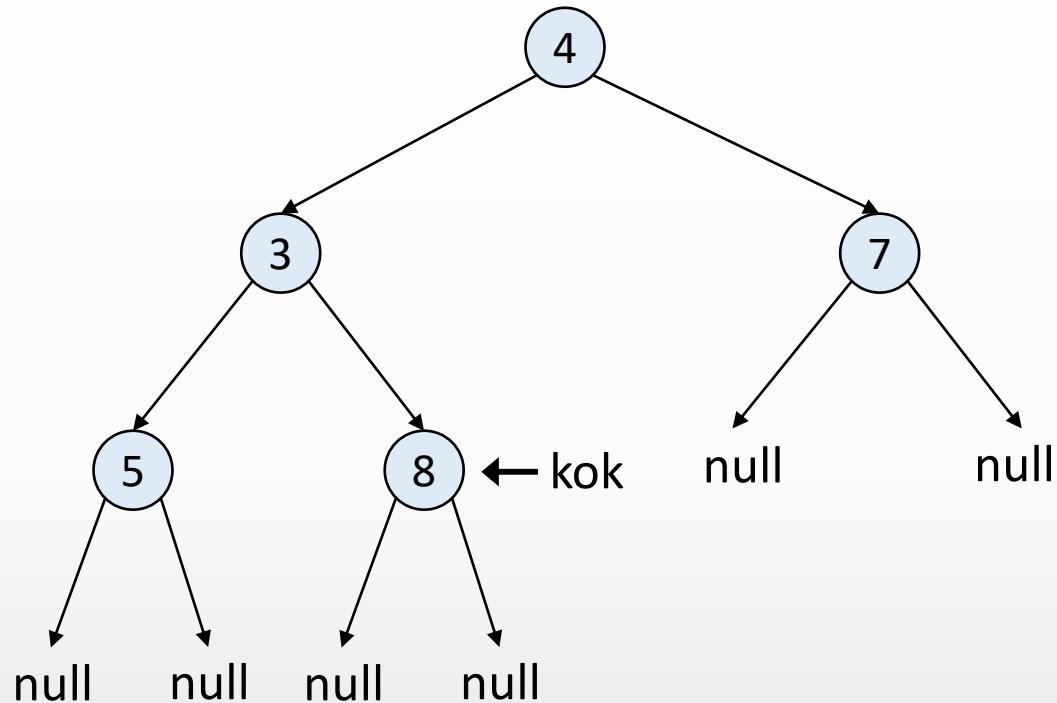
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IMV = -2147483648

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

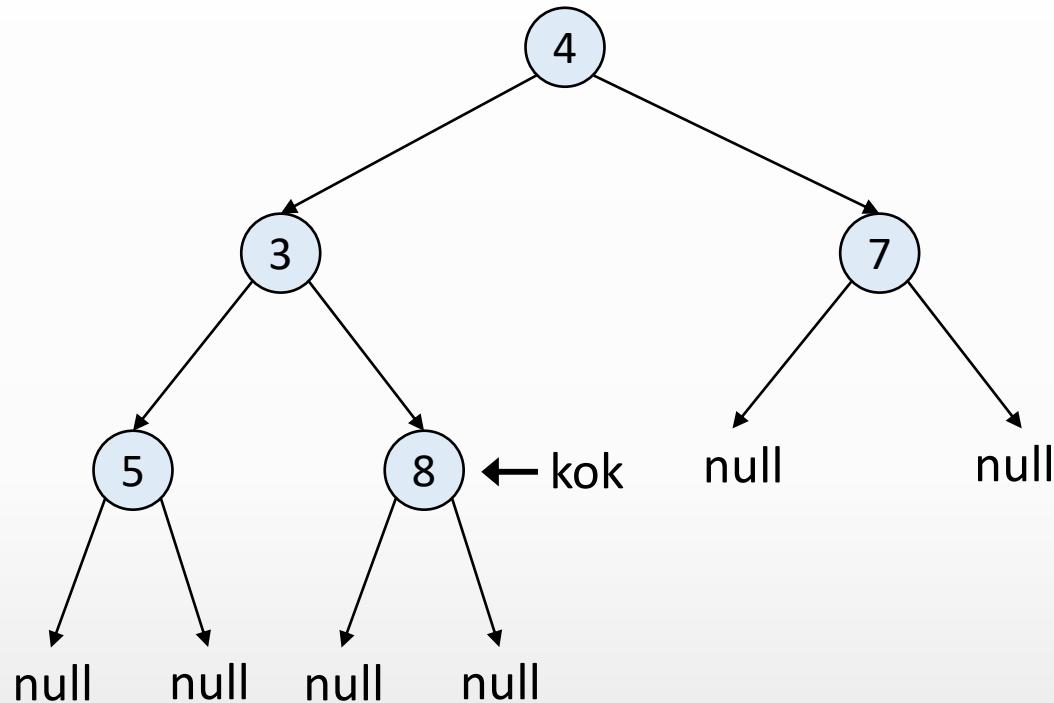
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7     int sag = enBuyukBul(kok.sag);  
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul		8			

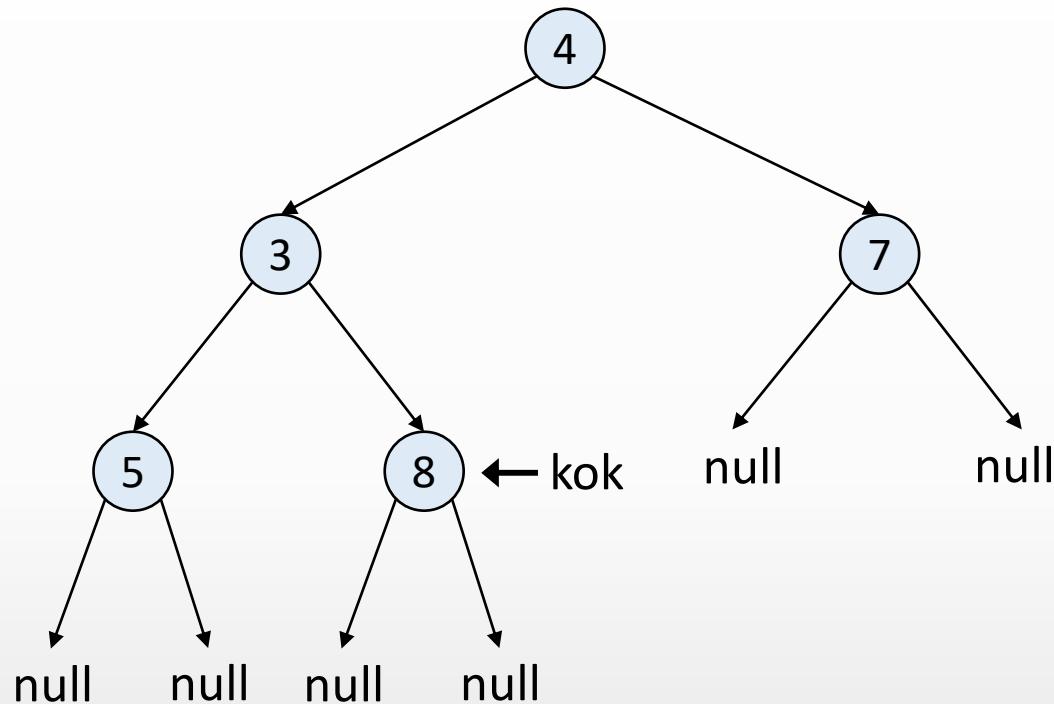
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul		8	8		

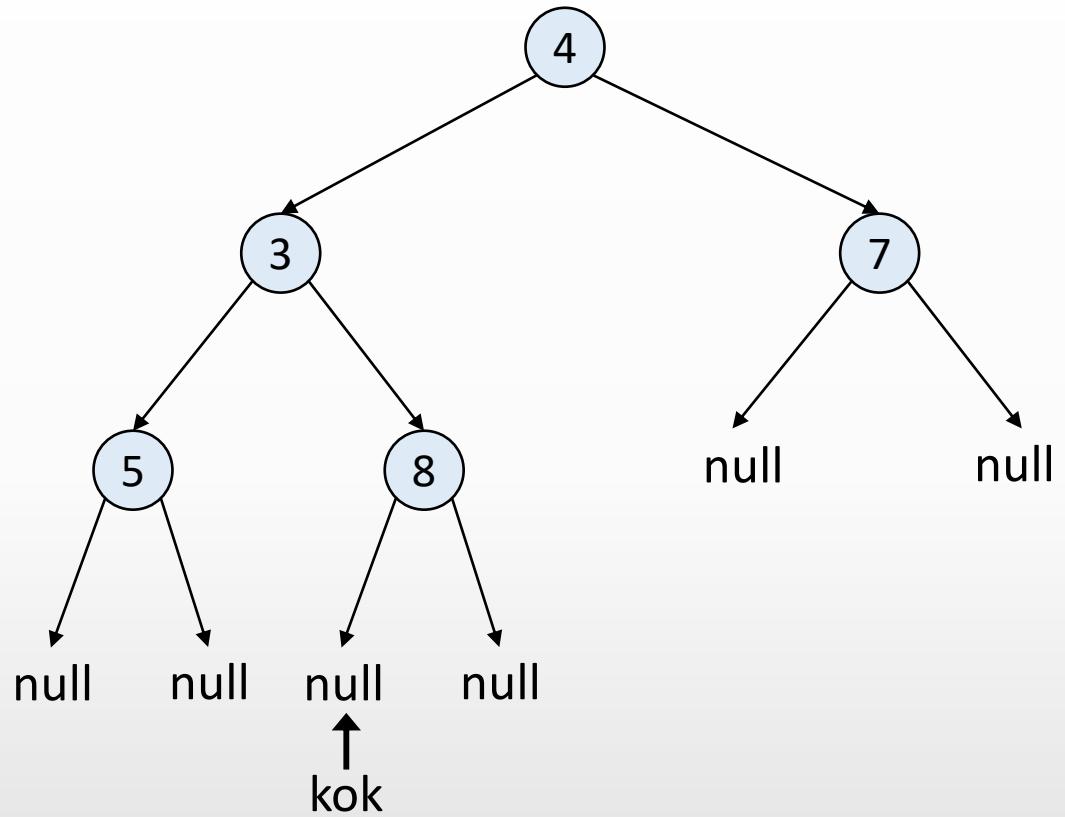
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	6	8	8		

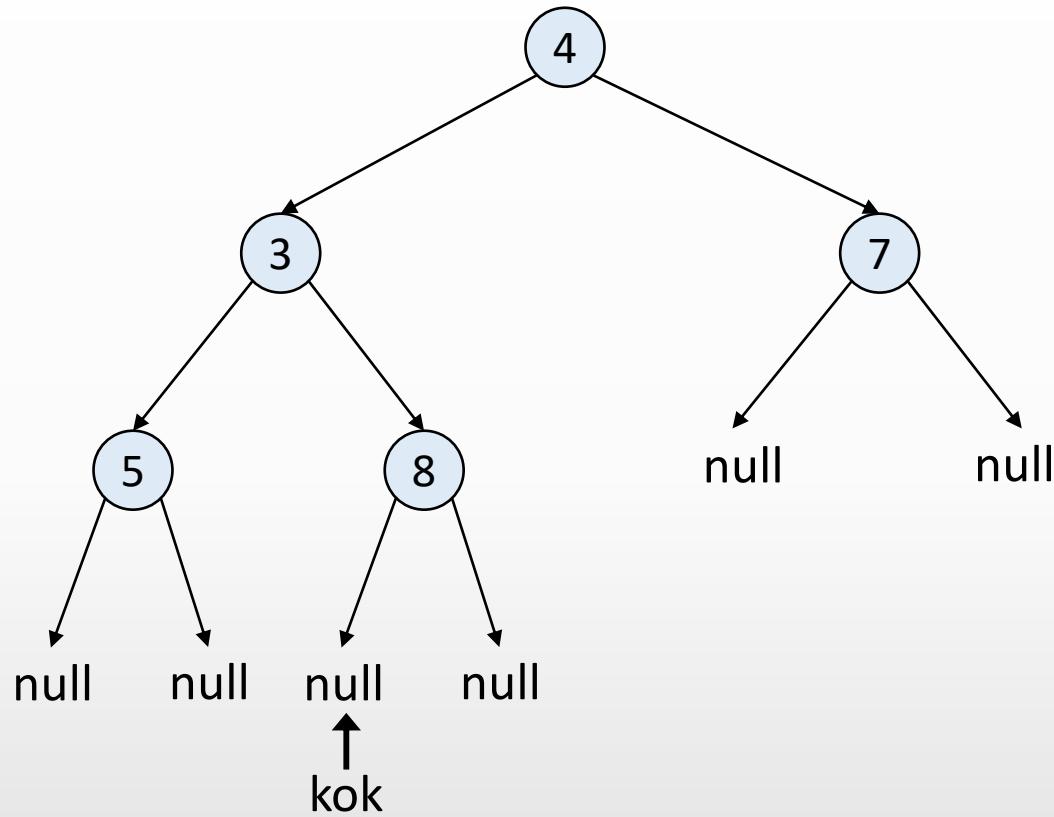
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IMV = -2147483648

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

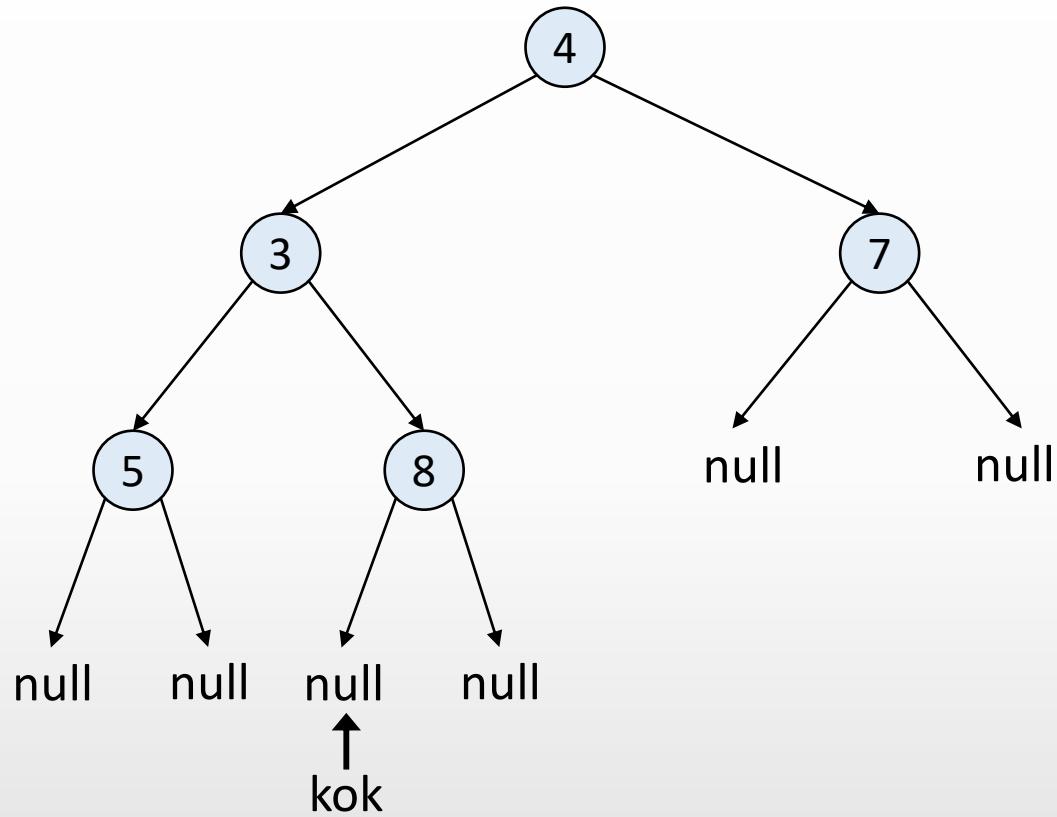
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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enBuyukBul	6	8	8		
enBuyukBul		null			

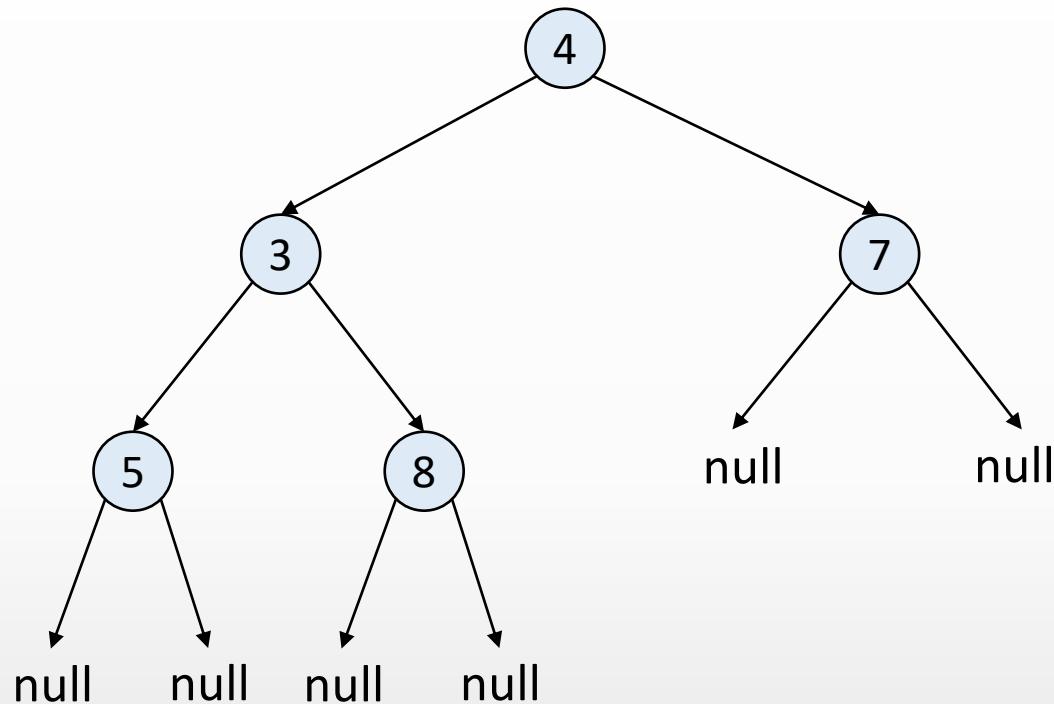
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IMV = -2147483648

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

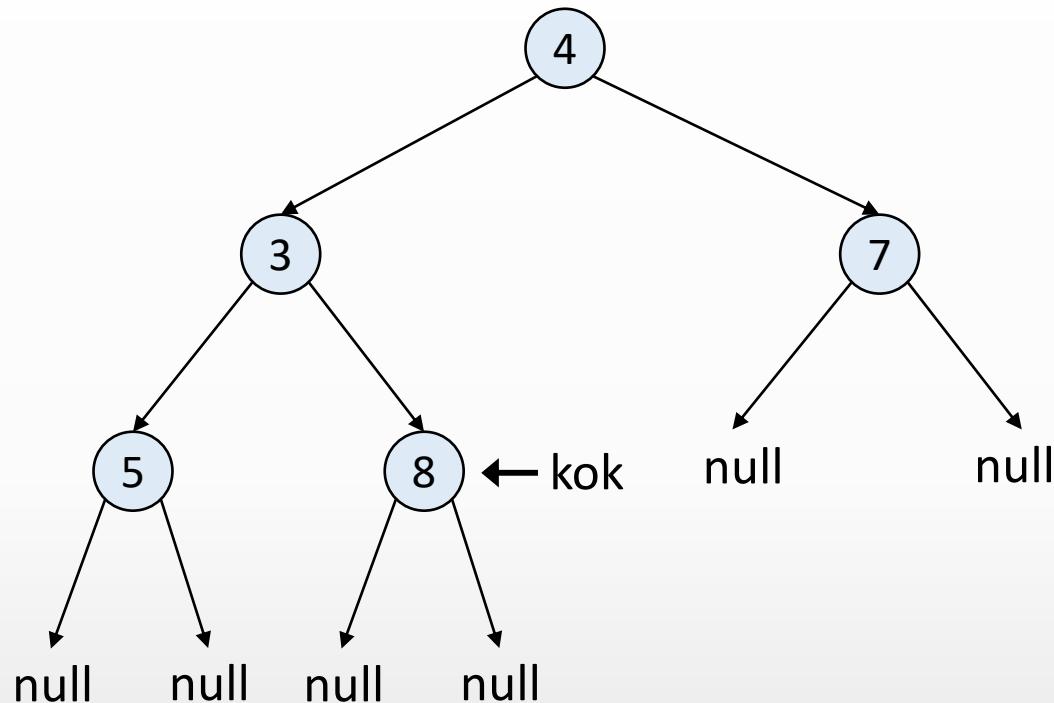
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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enBuyukBul	6	8	8		

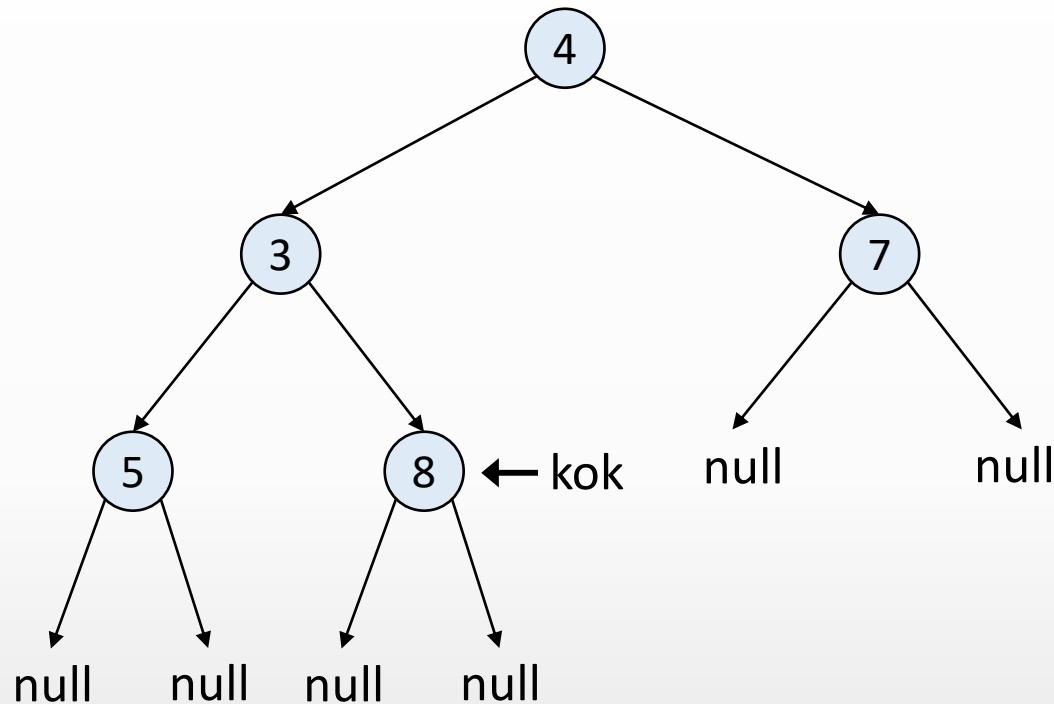
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IMV = -2147483648

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

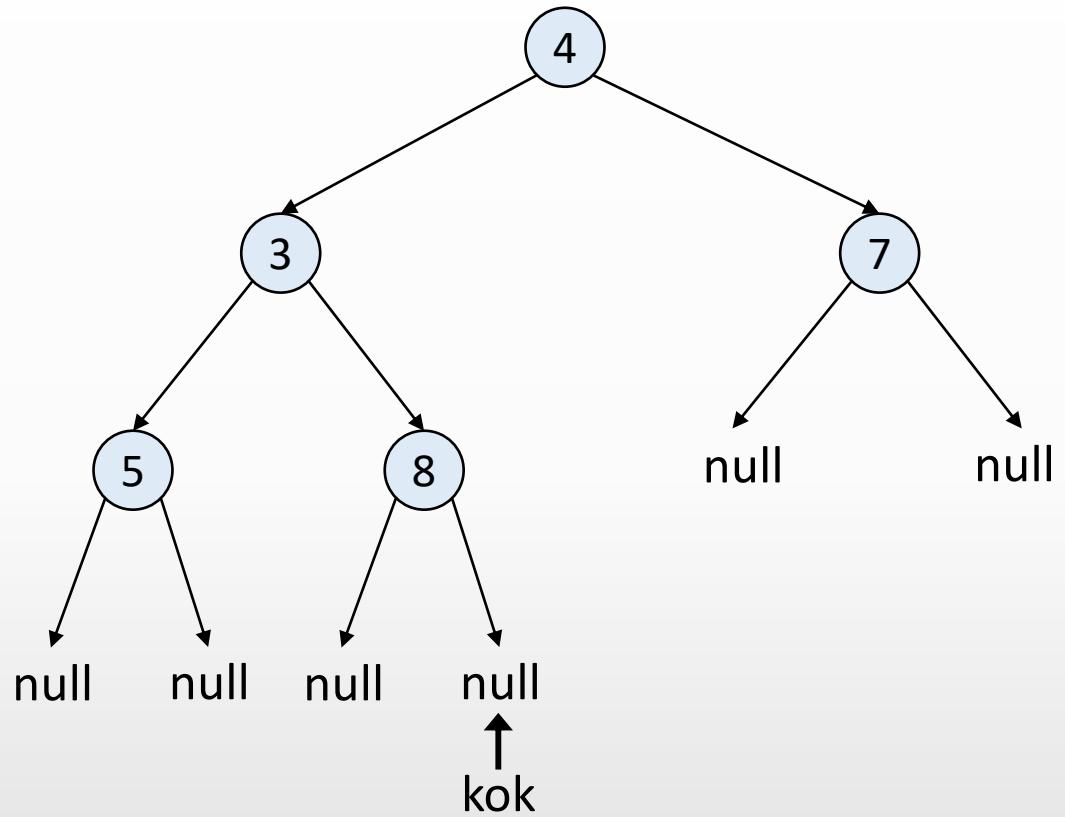
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metot çağrımı	satır no	kok	sonuc	sol	sag
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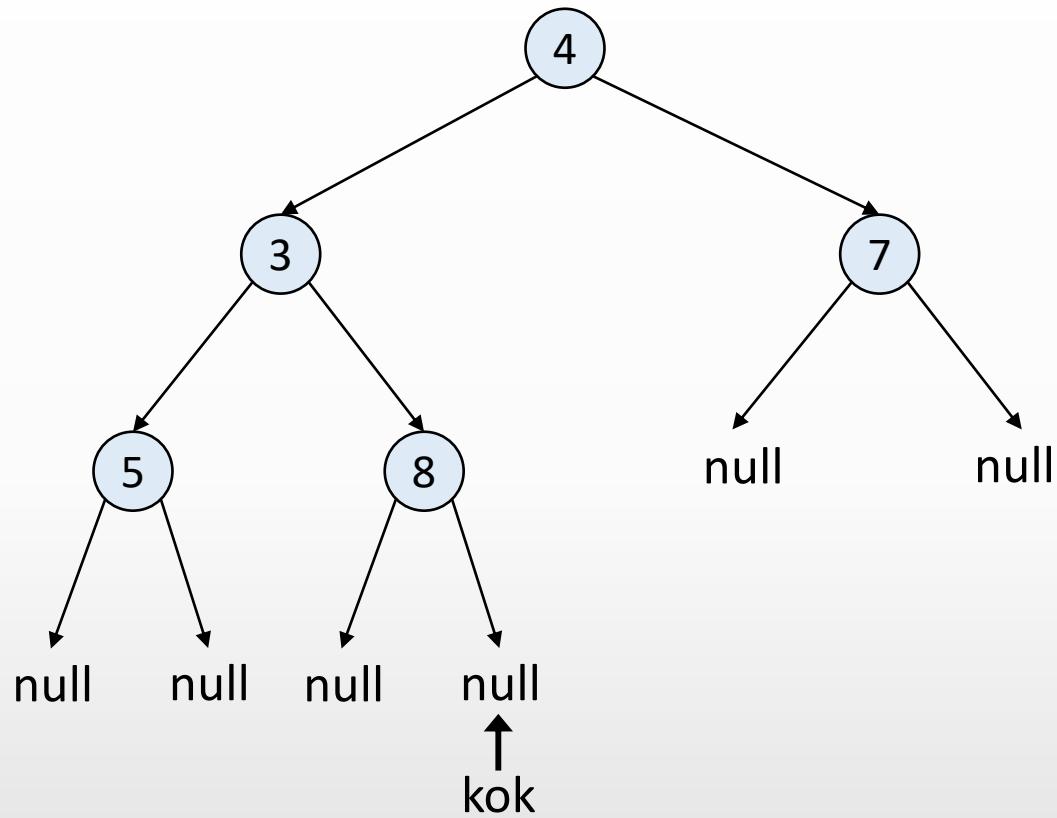
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	7	8	8	IMV	
enBuyukBul		null			

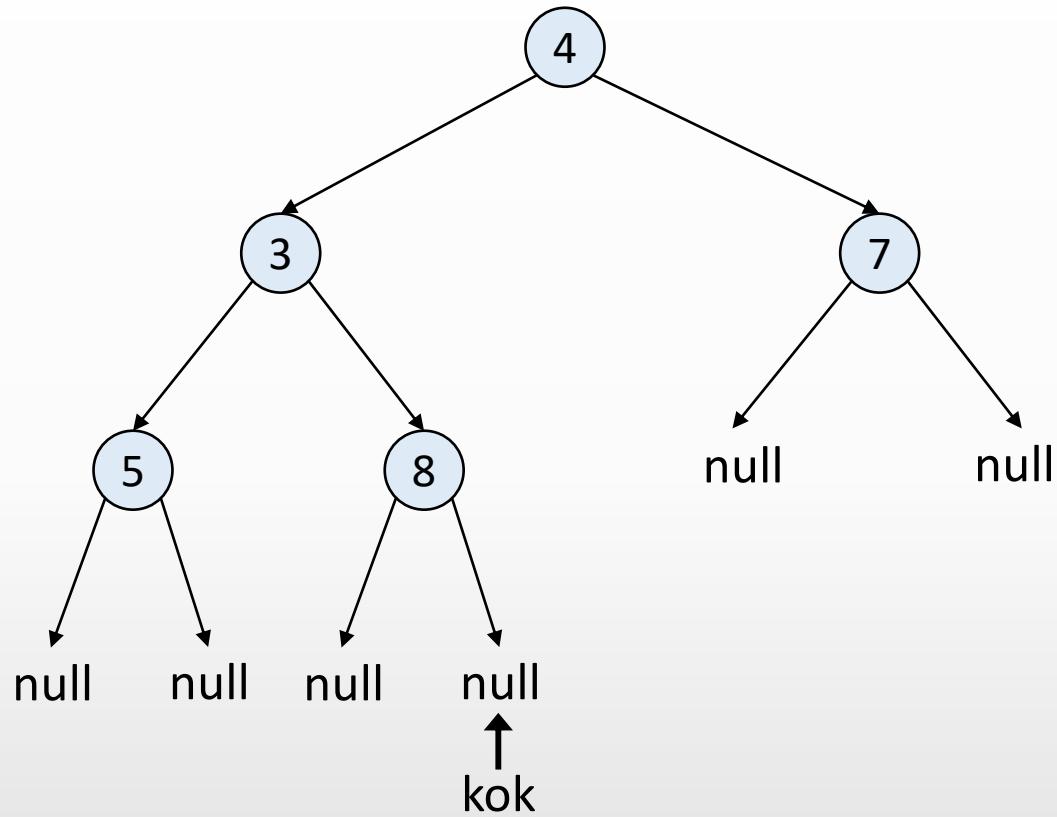
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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enBuyukBul	7	8	8	IMV	
enBuyukBul		null			

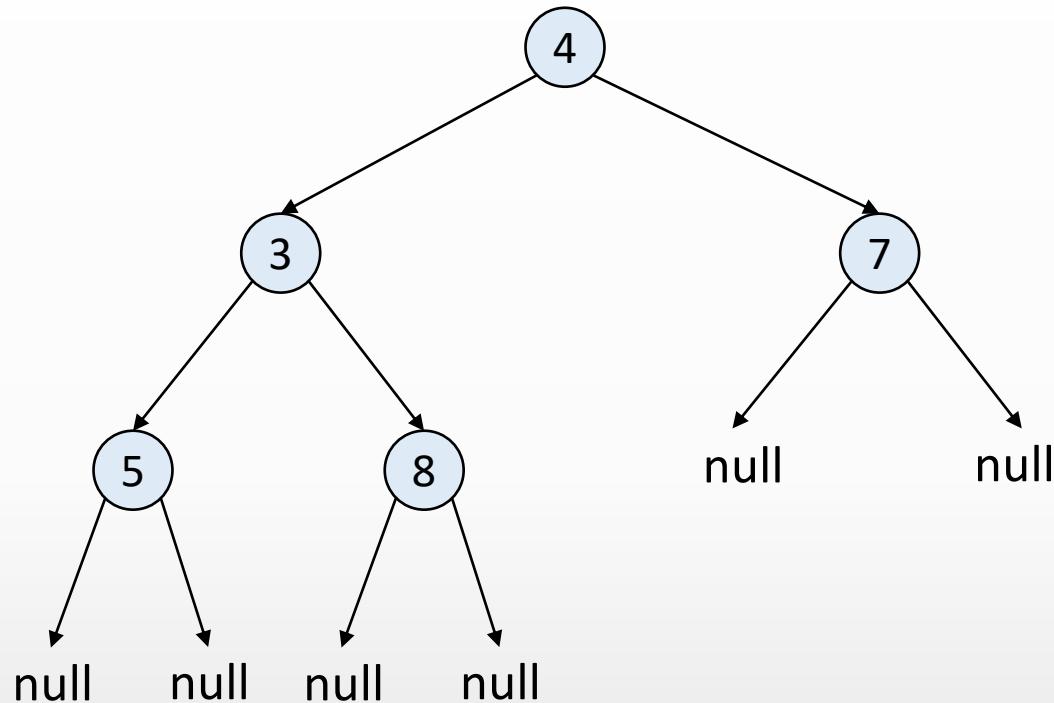
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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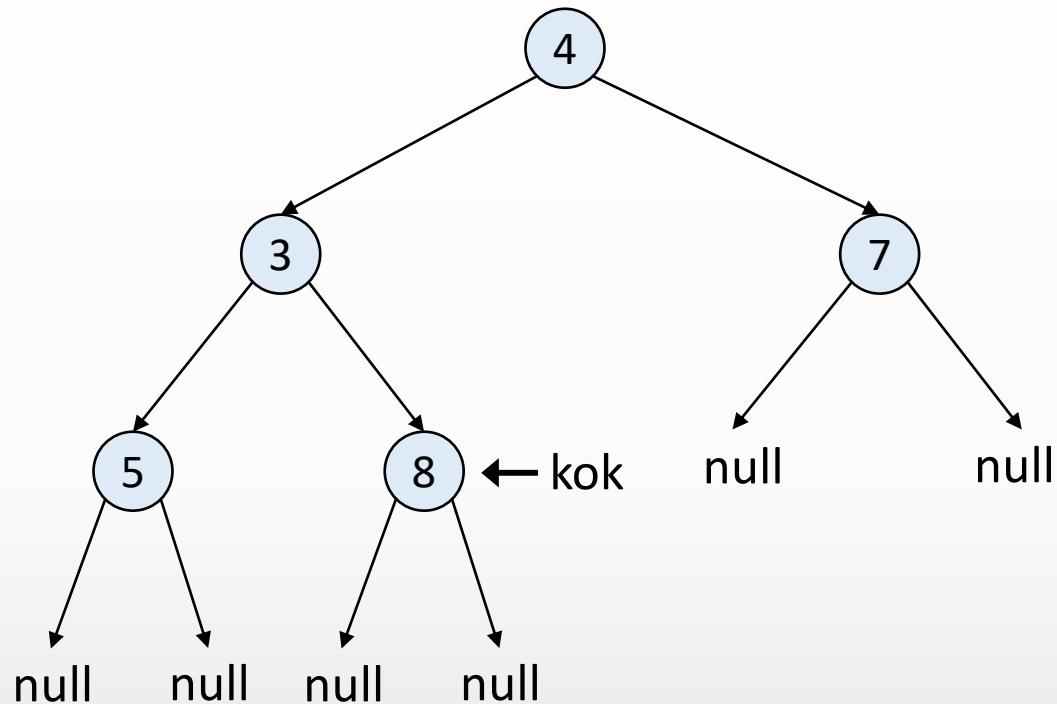
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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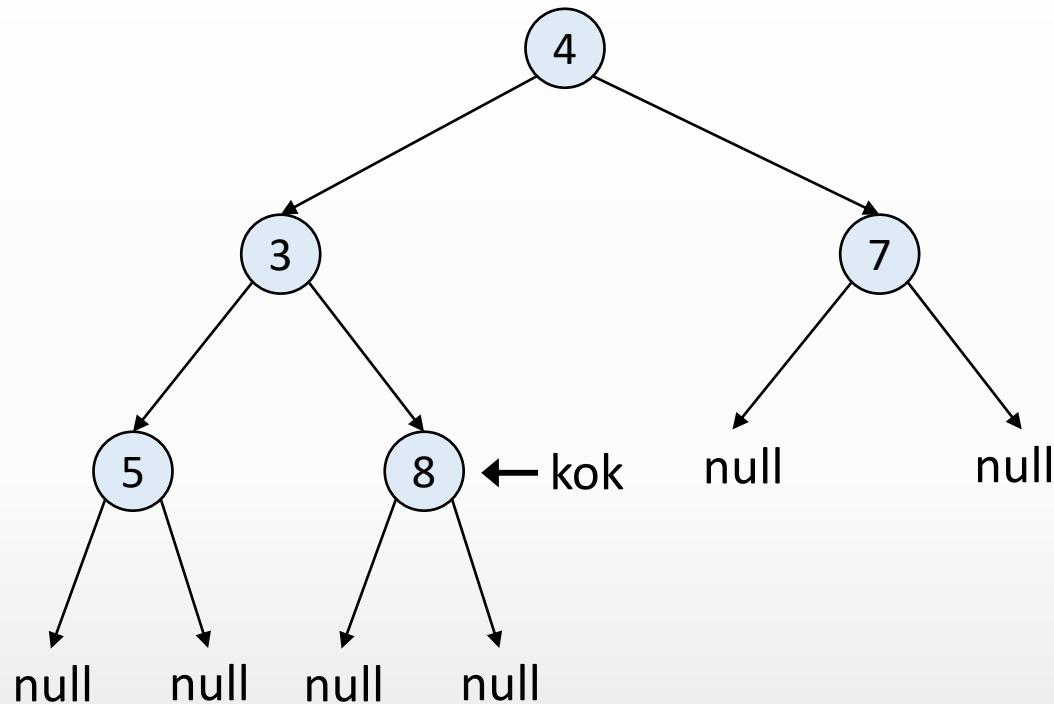
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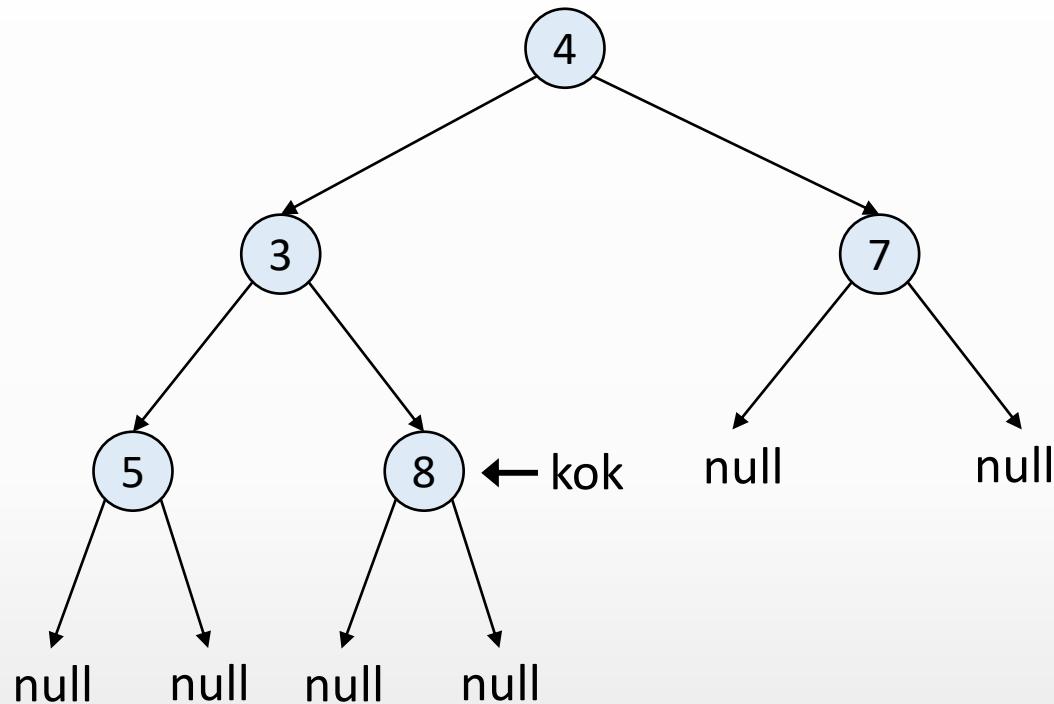
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metot çağrımı	satır no	kok	sonuc	sol	sag
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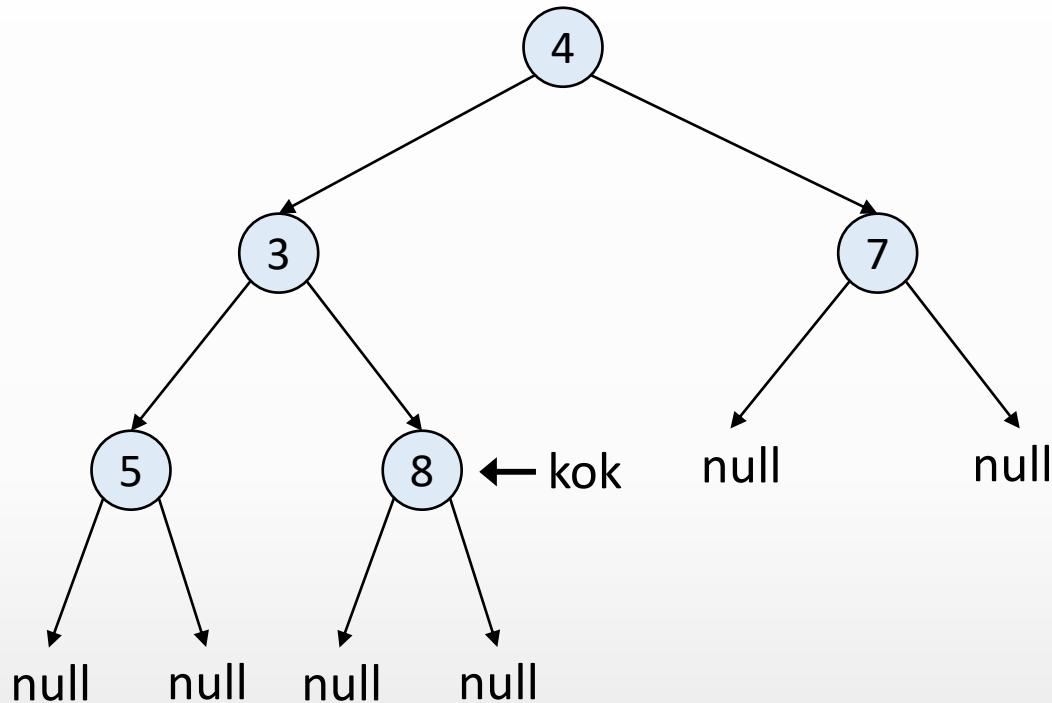
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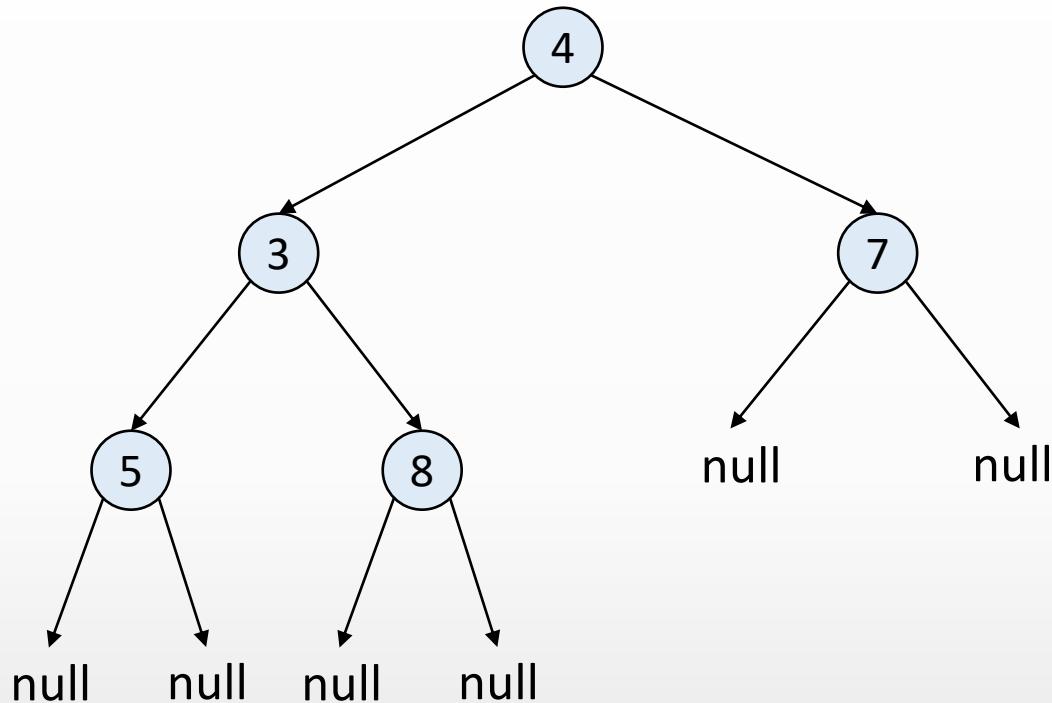
IMV = -2147483648



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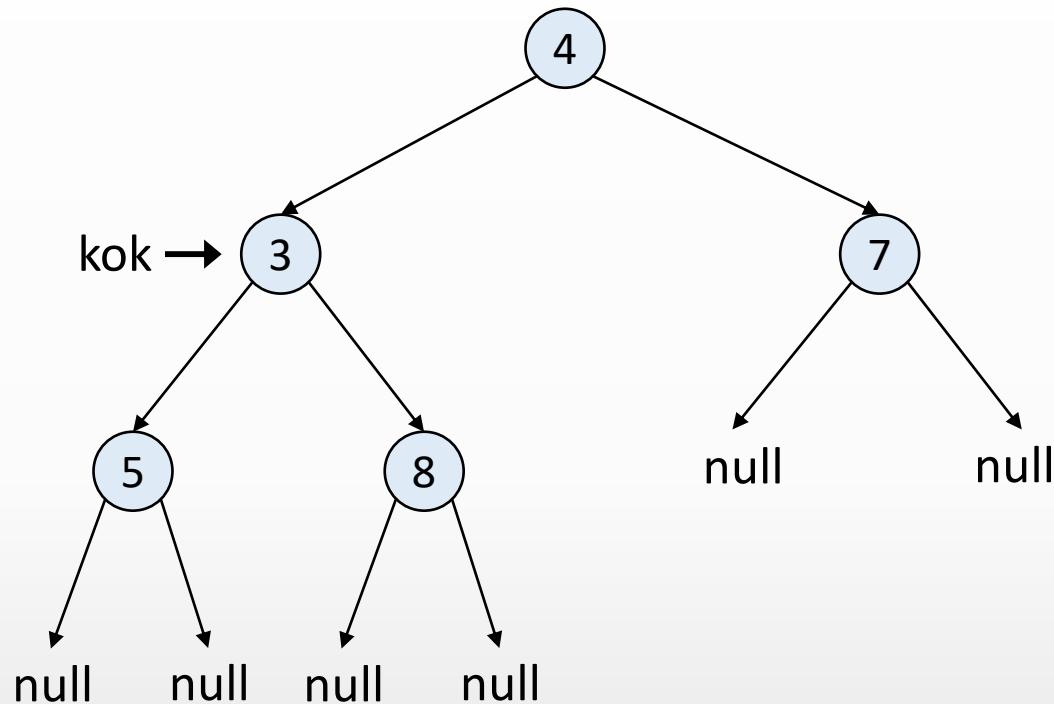
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metot çağrımı	satır no	kok	sonuc	sol	sag
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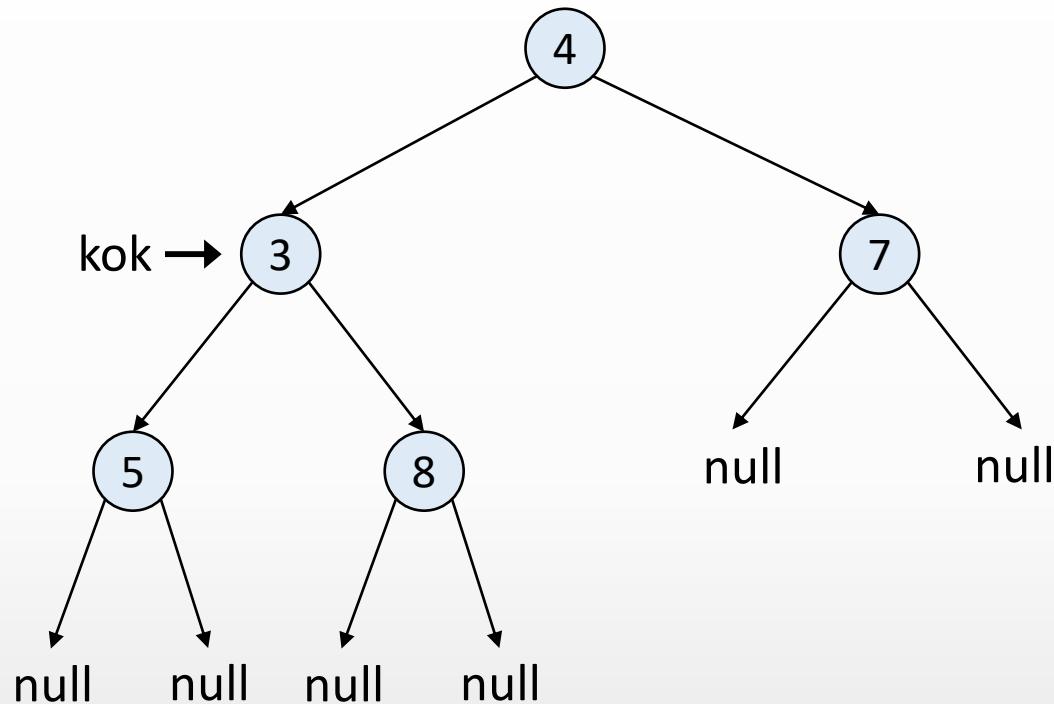
IMV = -2147483648



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



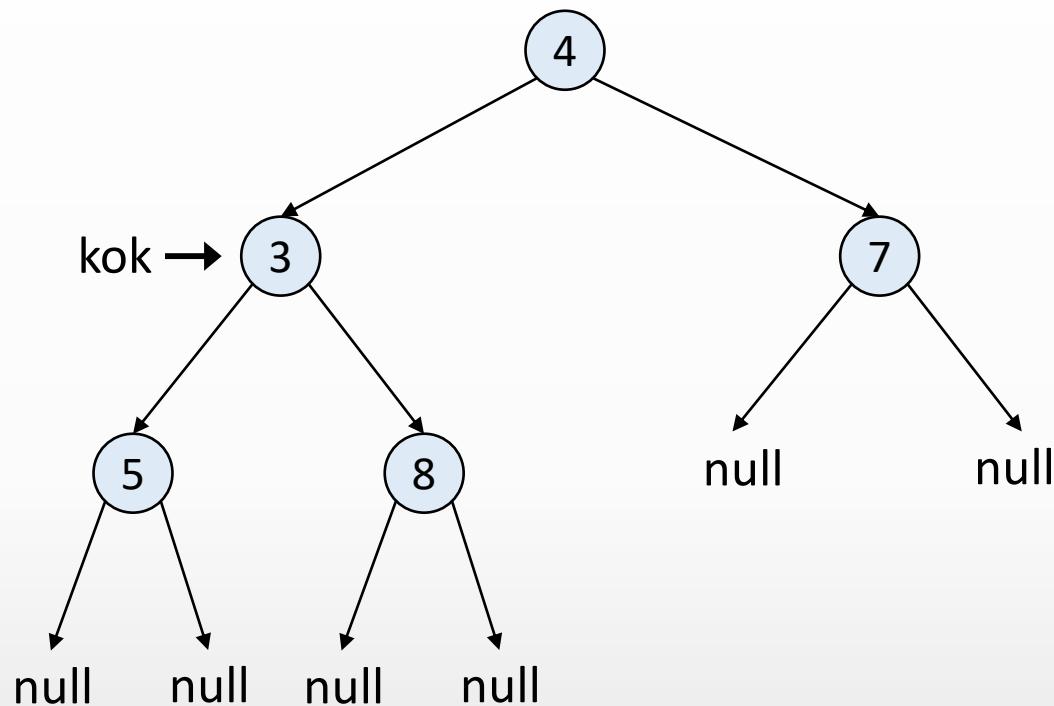
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metot çağrımı	satır no	kok	sonuc	sol	sag
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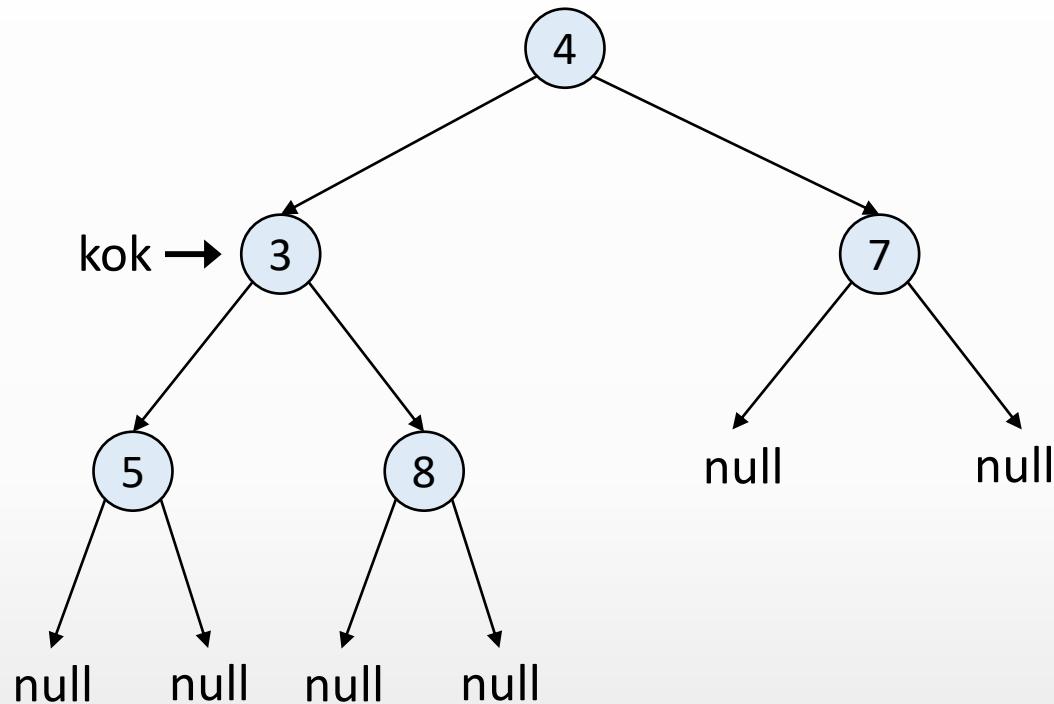
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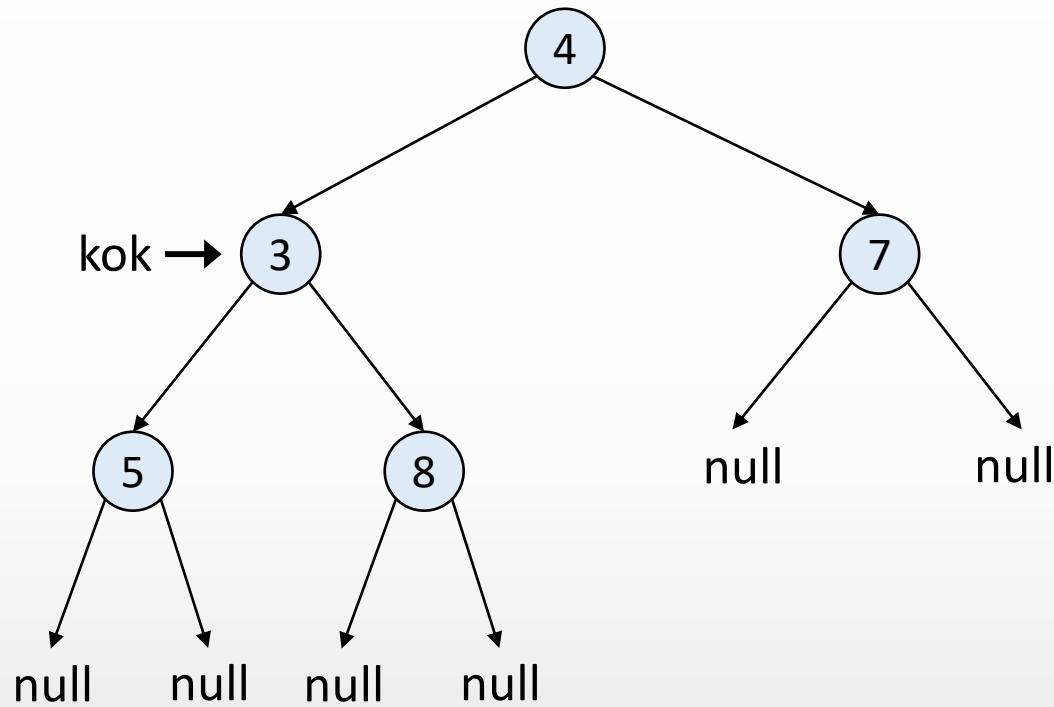
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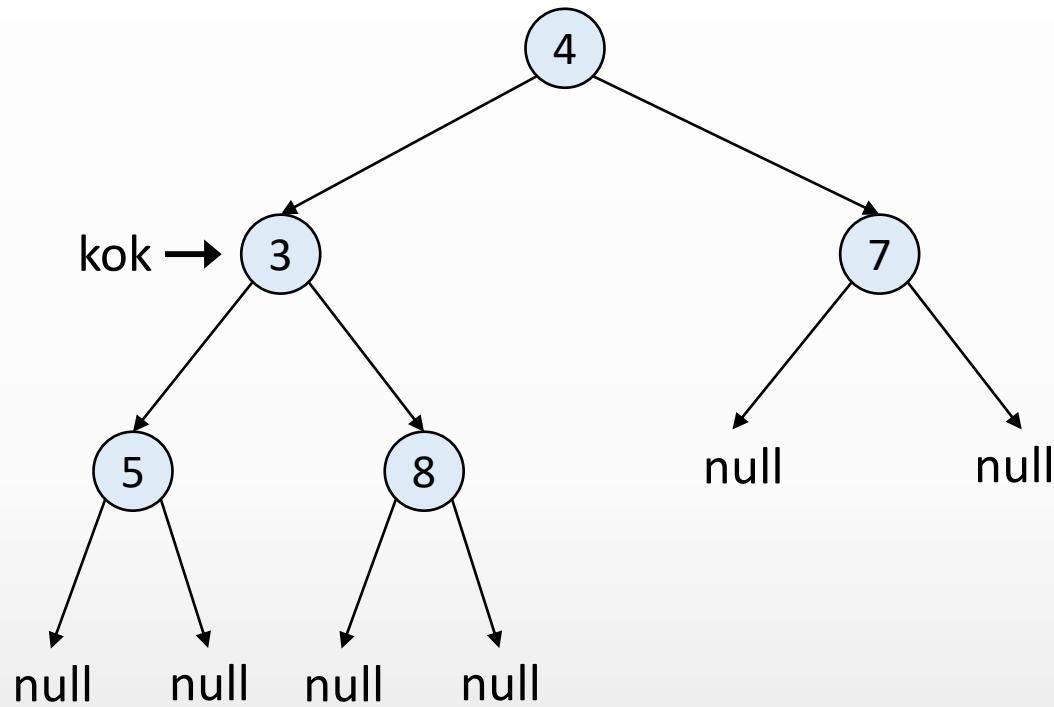
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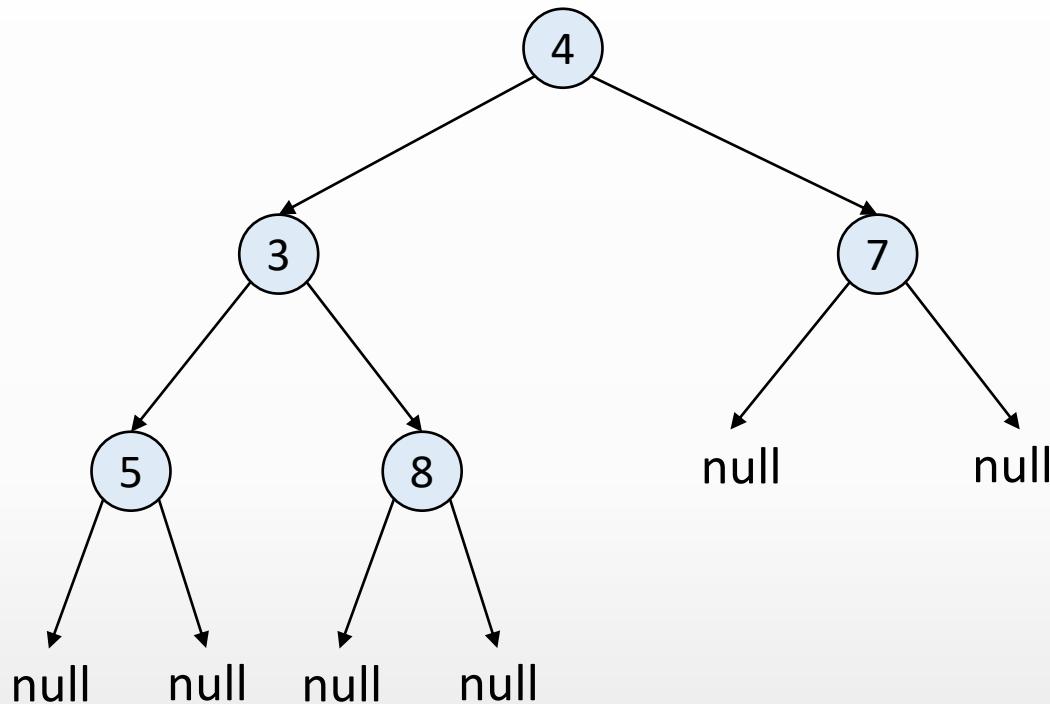
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metot çağrımı	satır no	kok	sonuc	sol	sag
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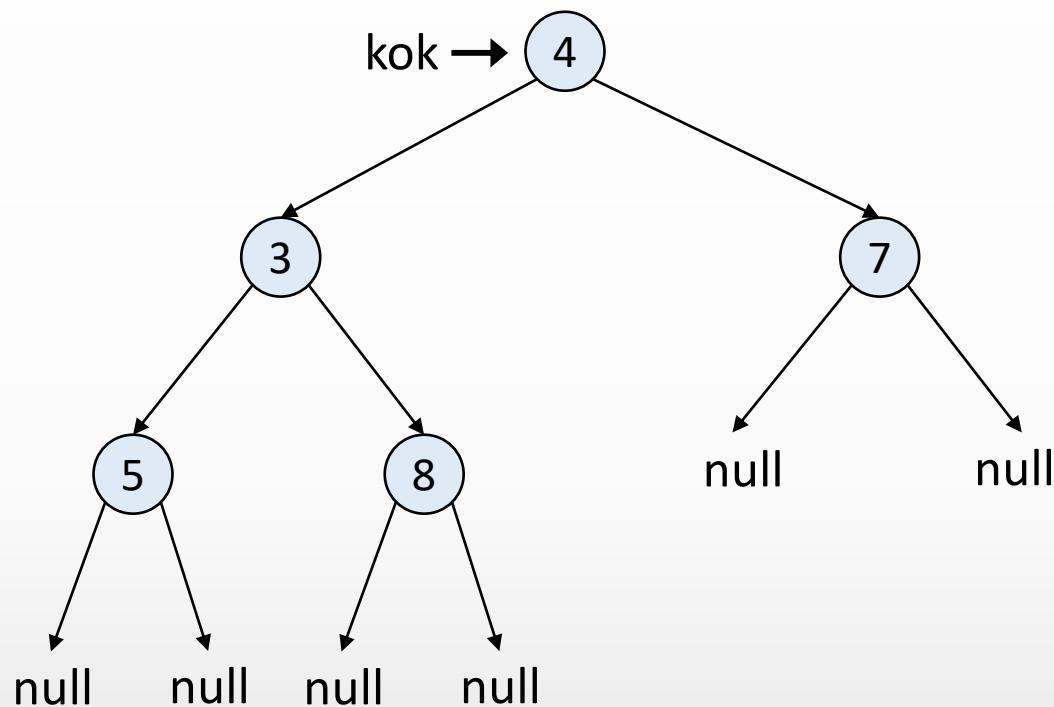
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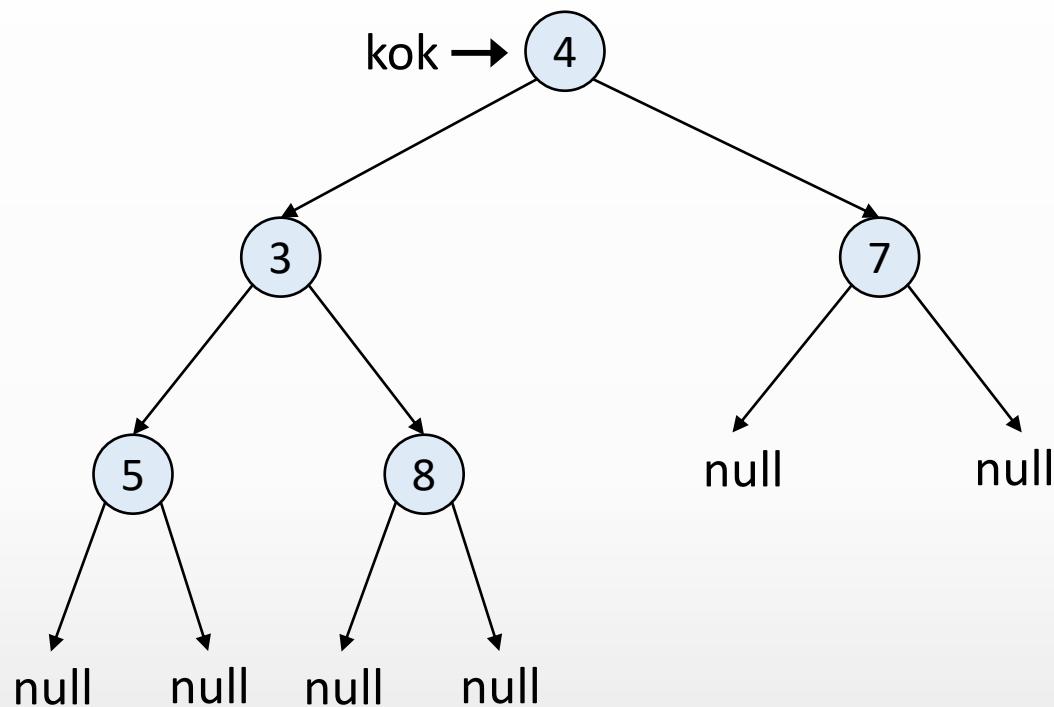


IMV = -2147483648

metot çağrımı	satır no	kok	sonuc	sol	sag
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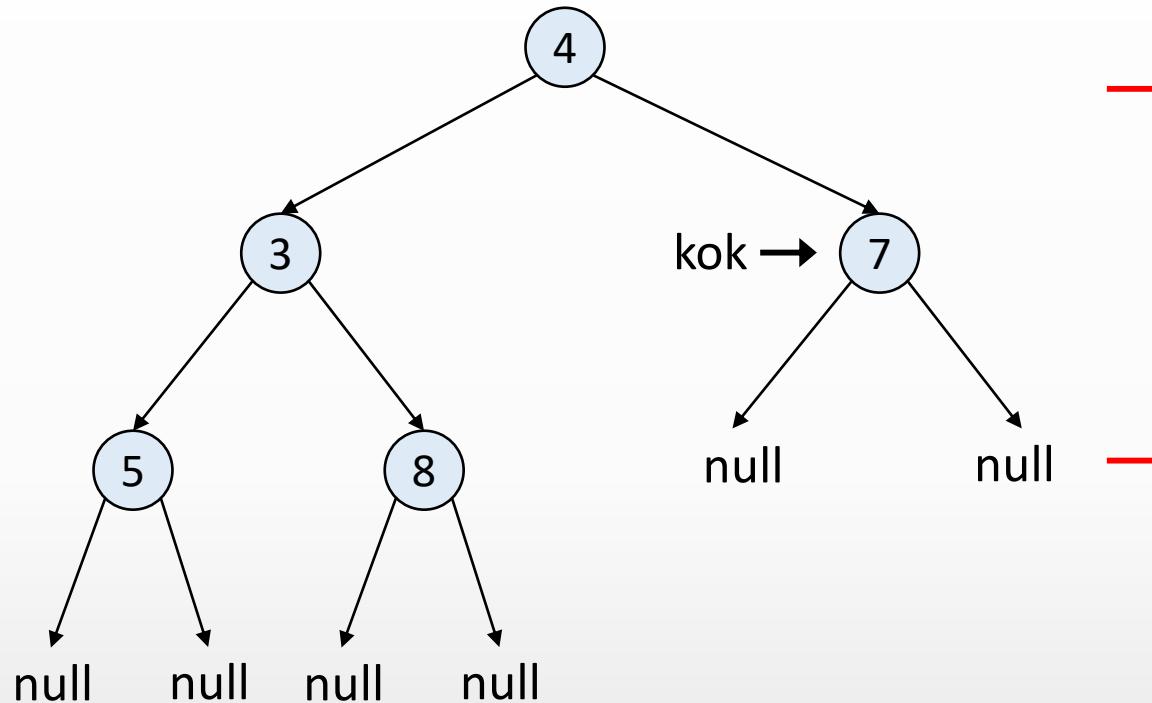


IMV = -2147483648

metot çağrımı	satır no	kok	sonuc	sol	sag
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11        sonuc = sag;  
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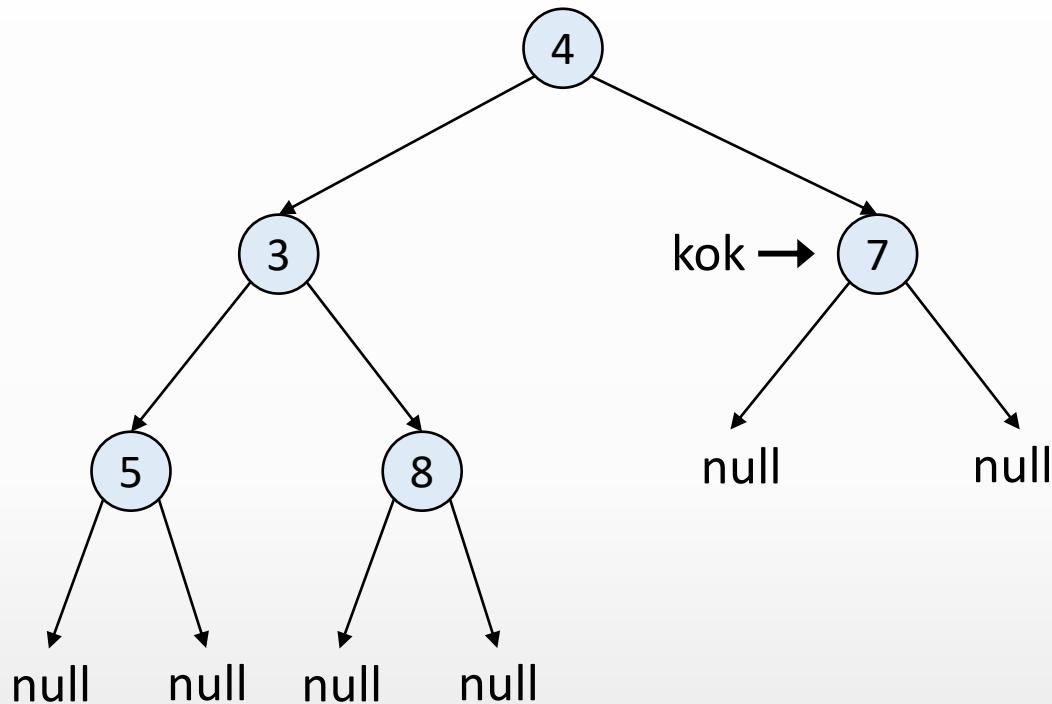


metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul		7			



```
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IMV = -2147483648

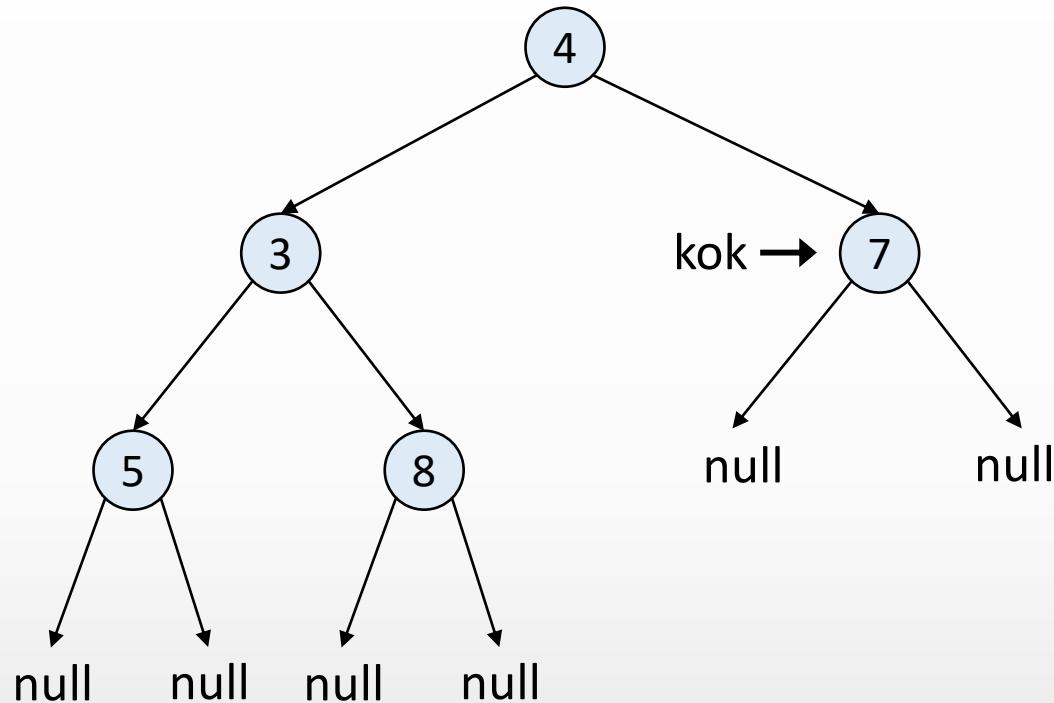


metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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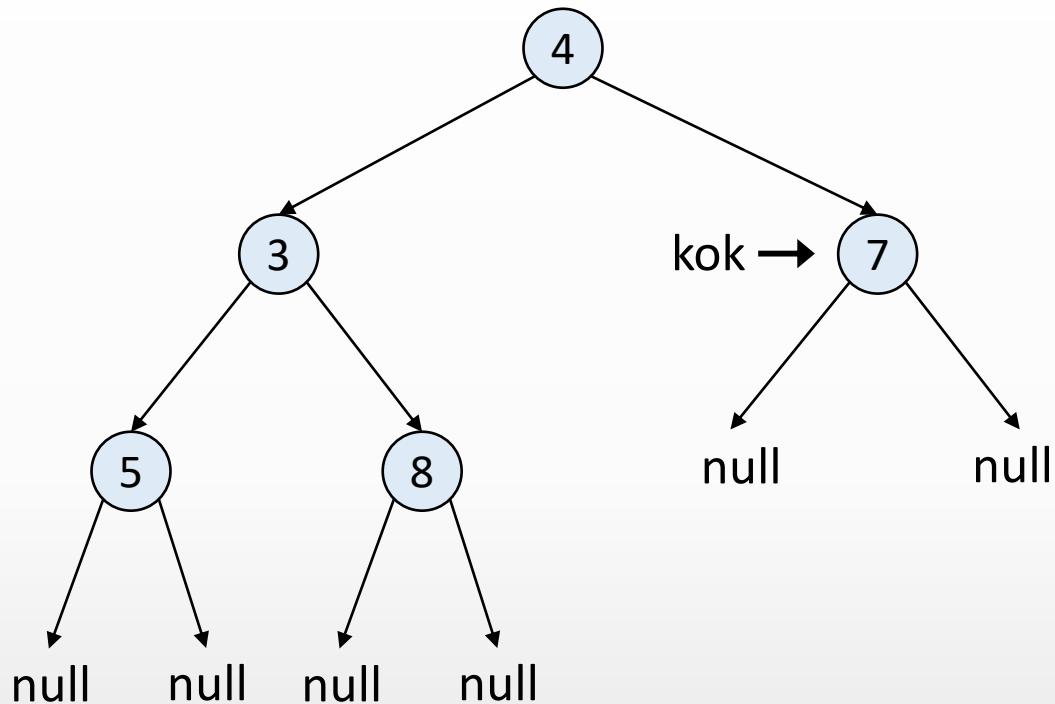
IMV = -2147483648



IMV = -2147483648

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

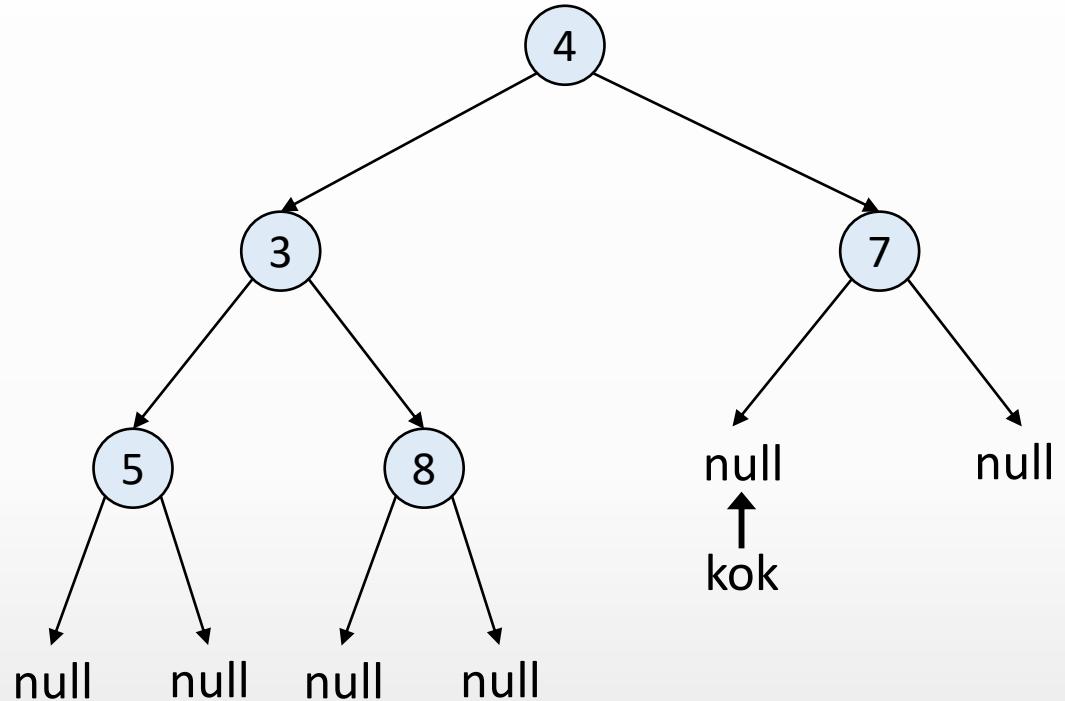
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IMV = -2147483648

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

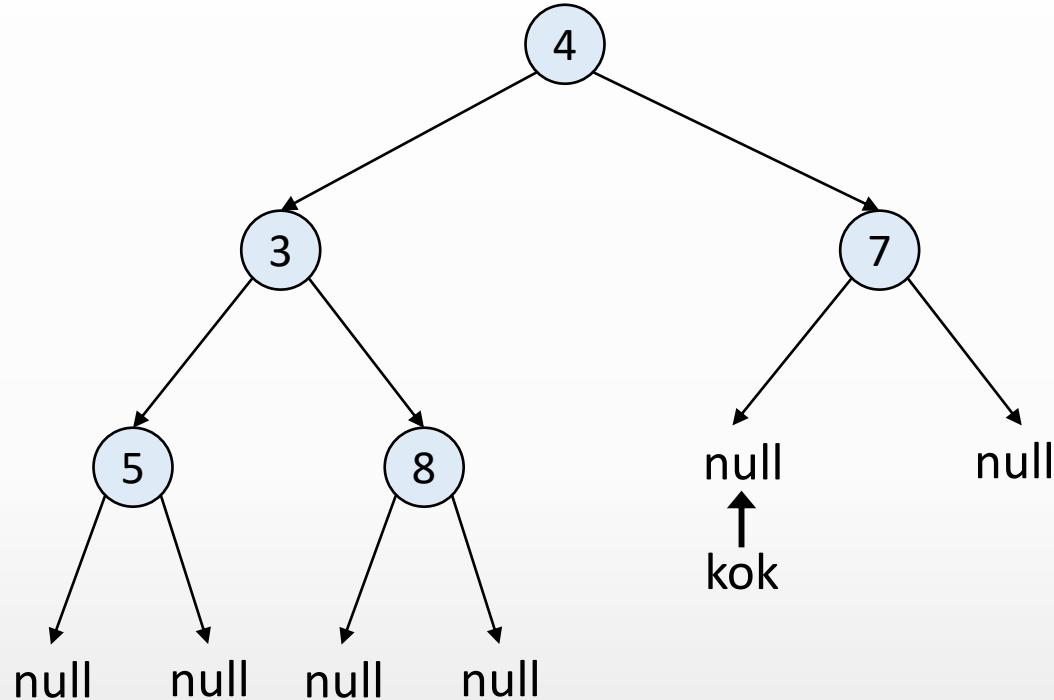
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7		
enBuyukBul		null			

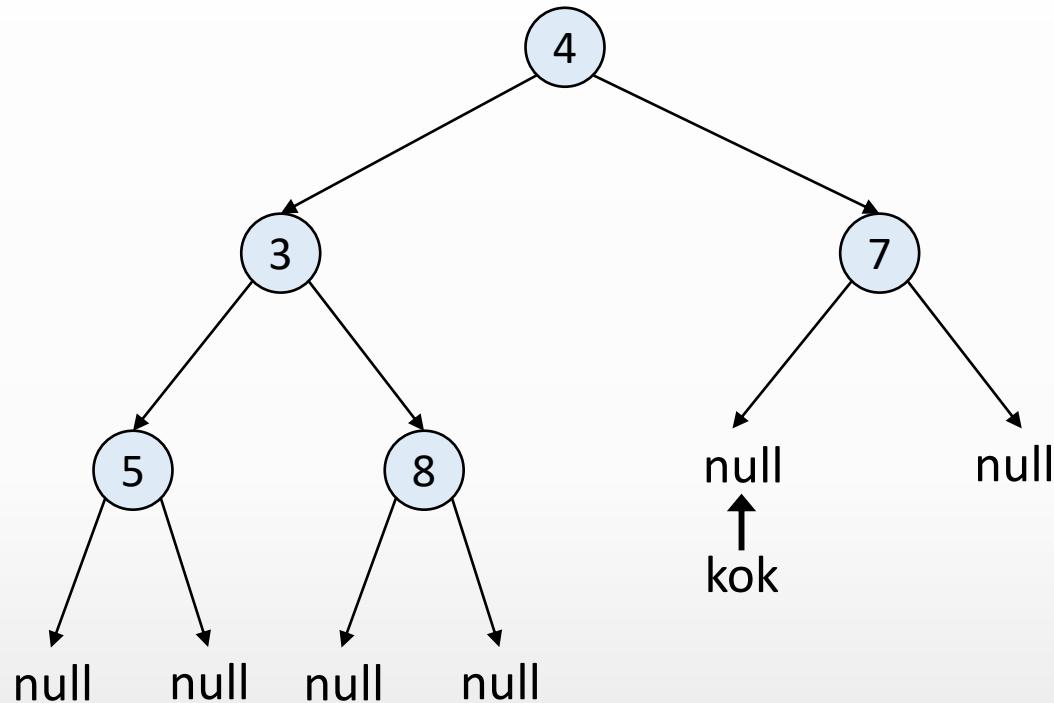
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enBuyukBul	6	7	7		
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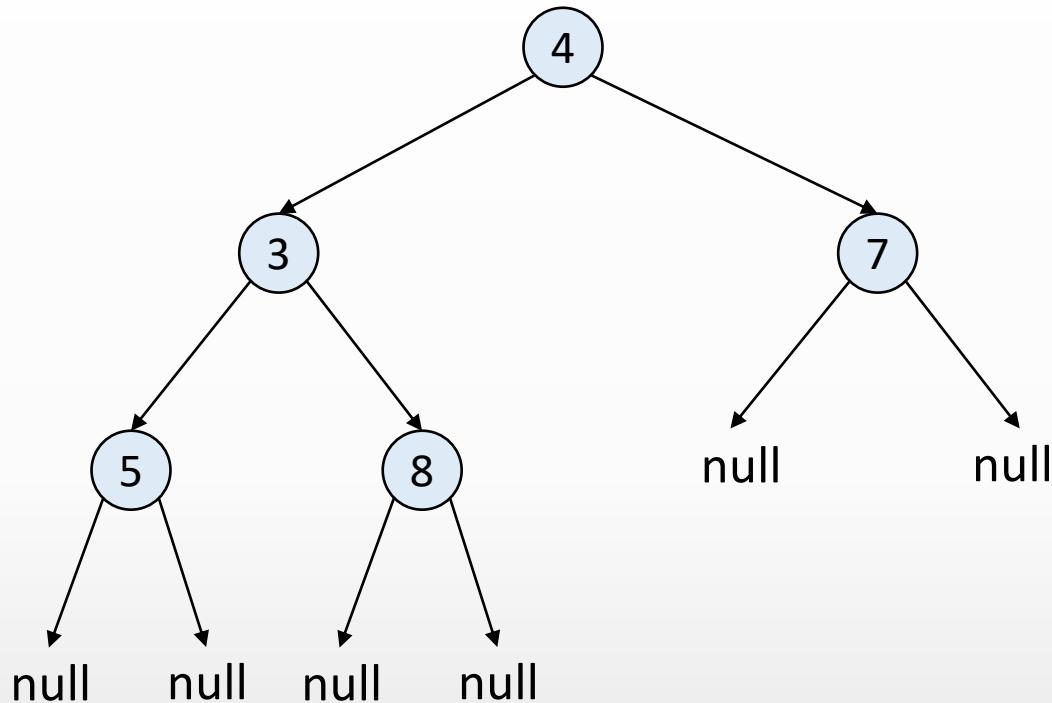
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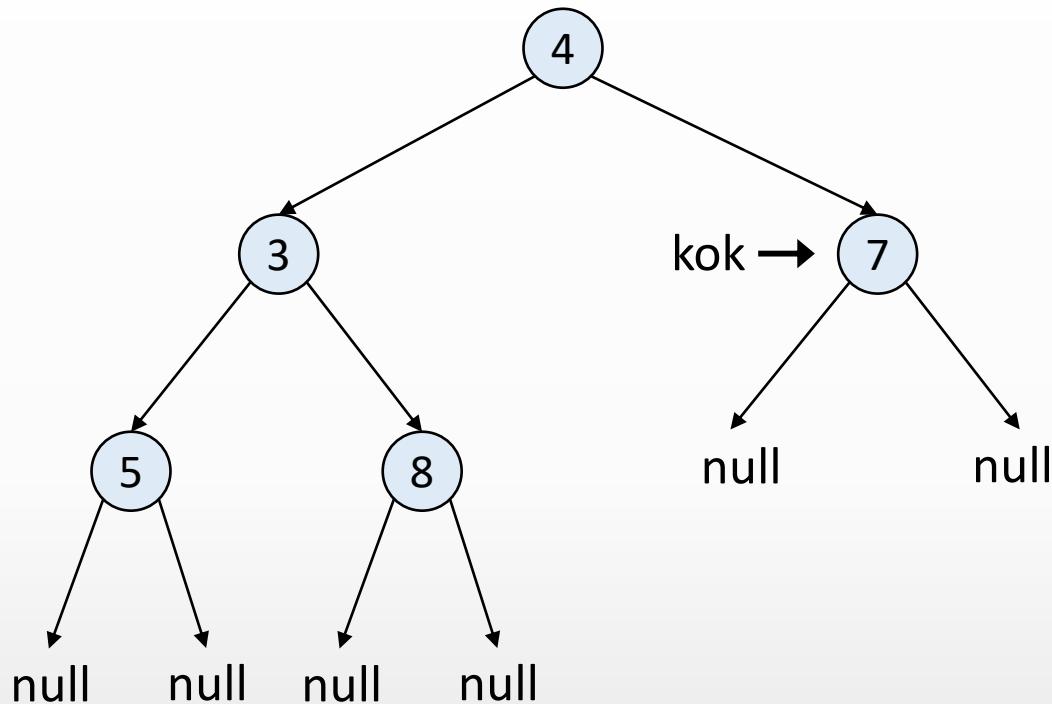
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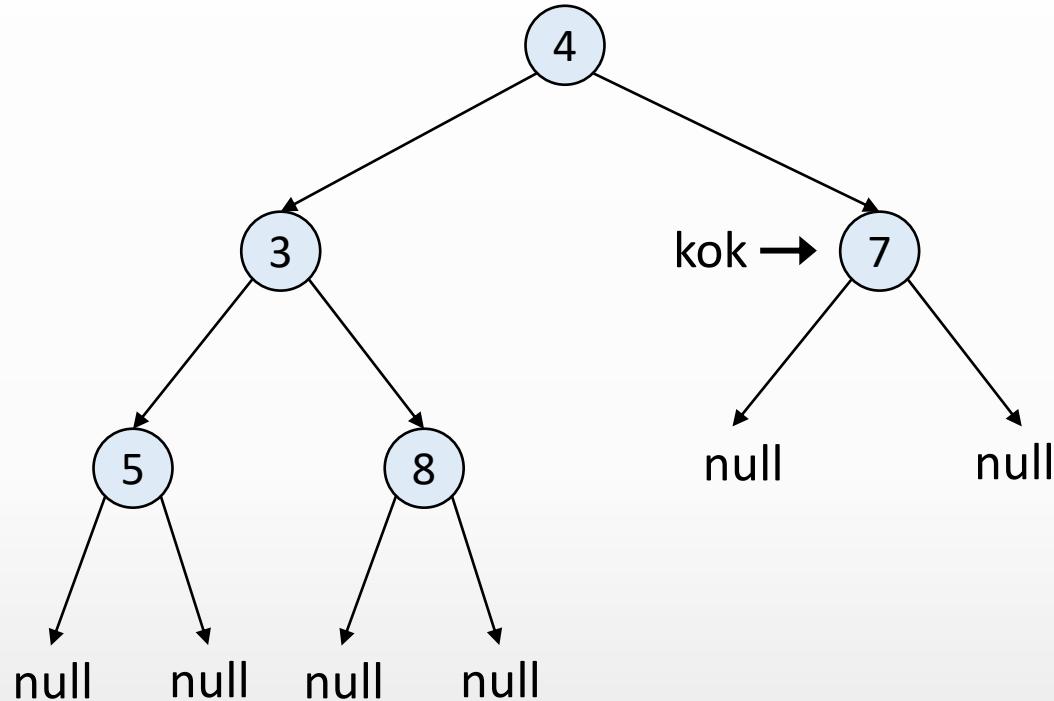
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7	IMV	

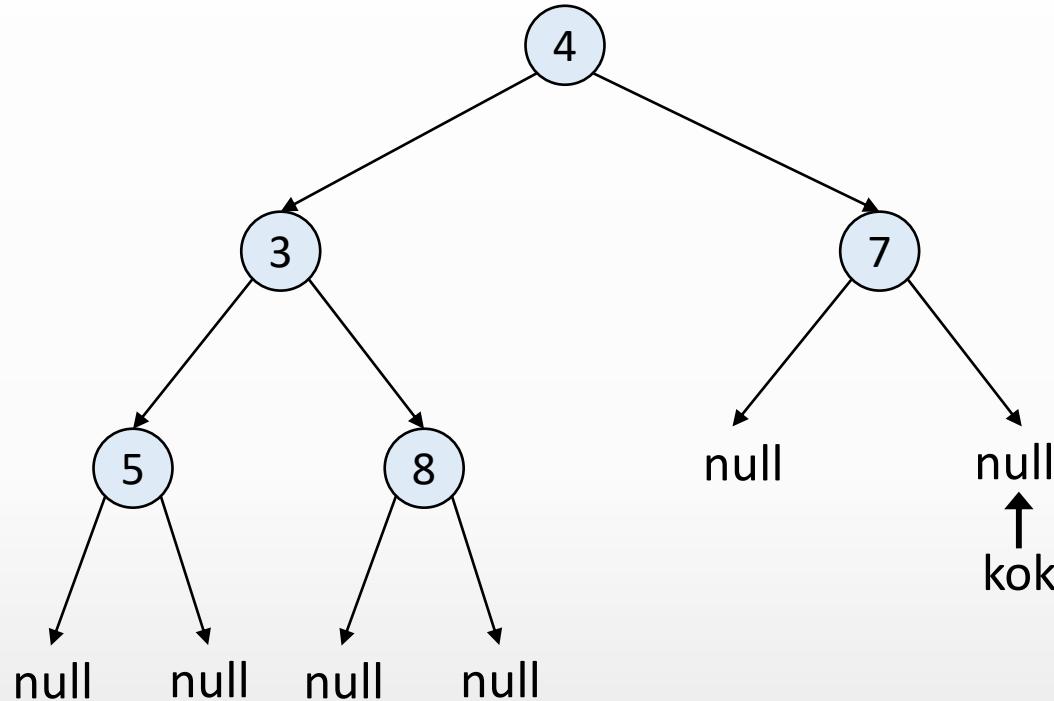
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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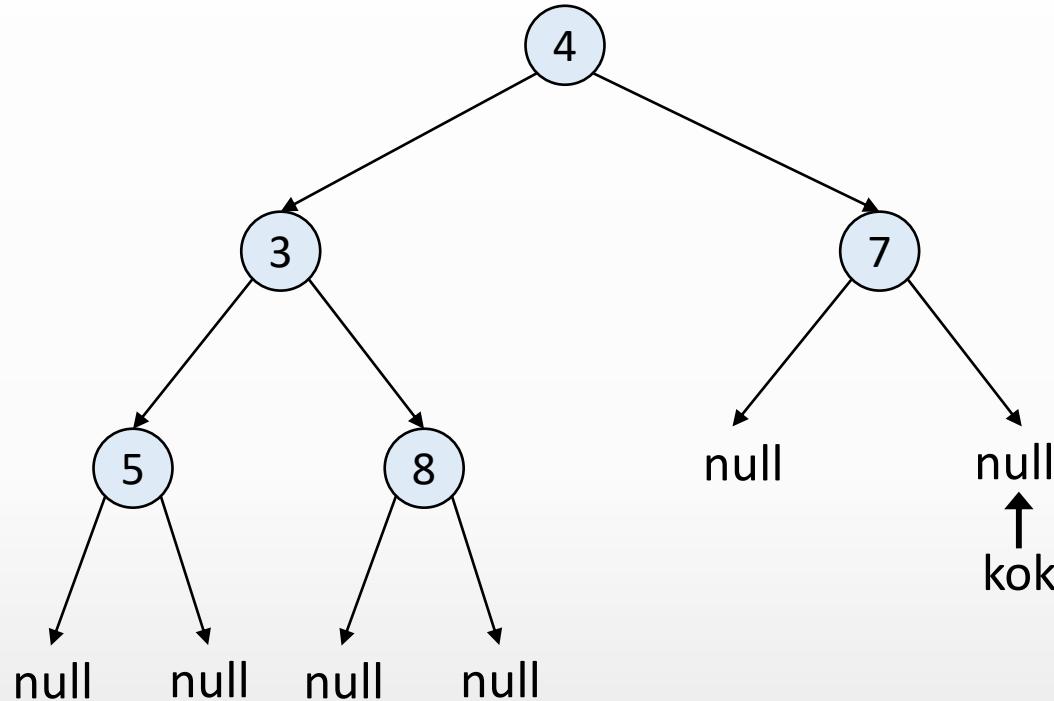
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enBuyukBul	7	7	7	IMV	
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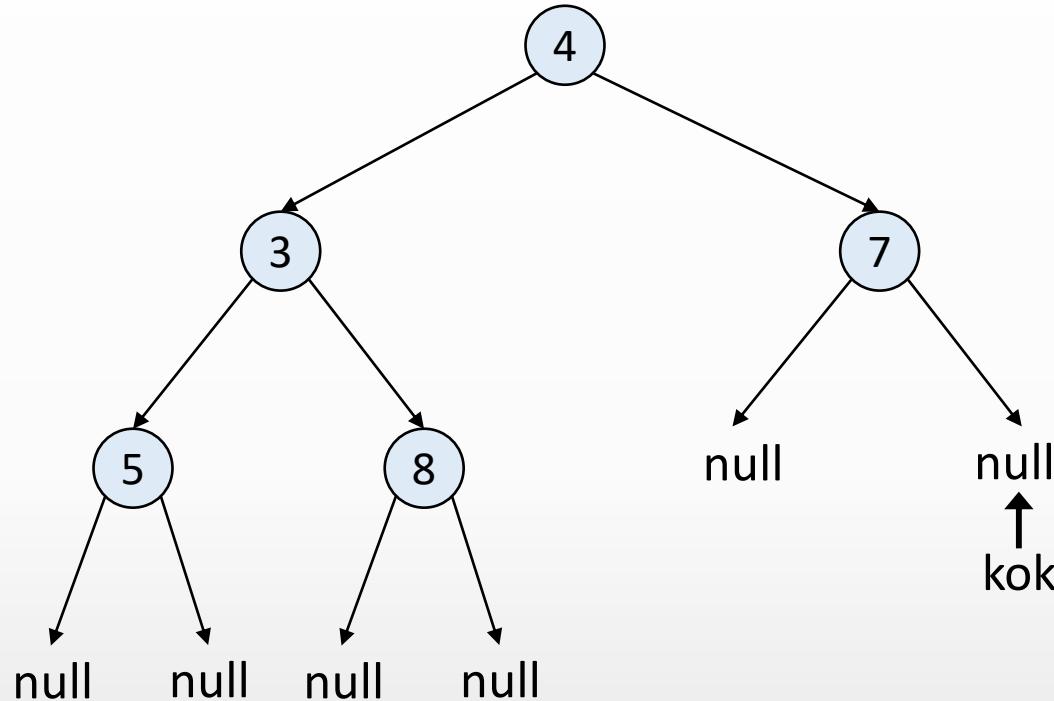
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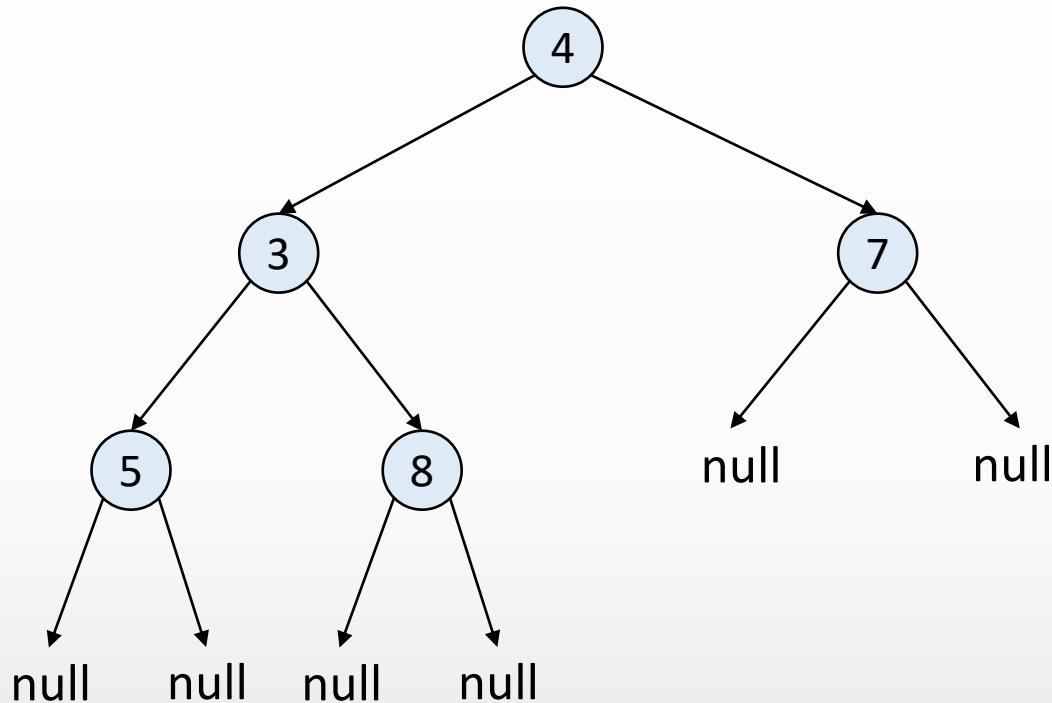
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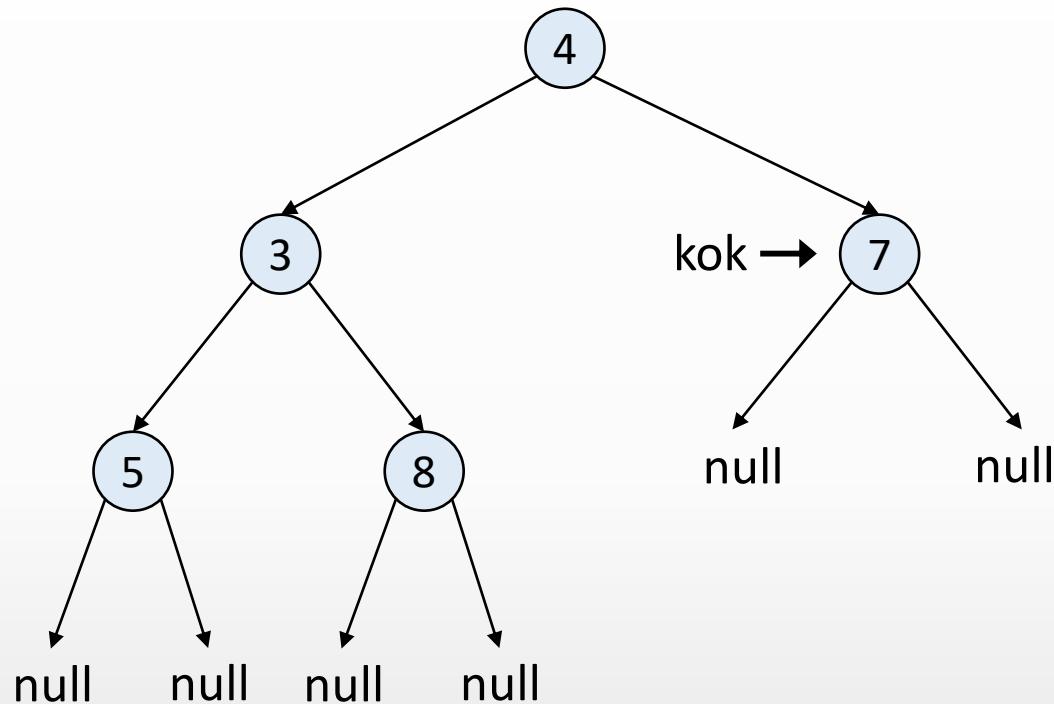
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metot çağrımı	satır no	kok	sonuc	sol	sag
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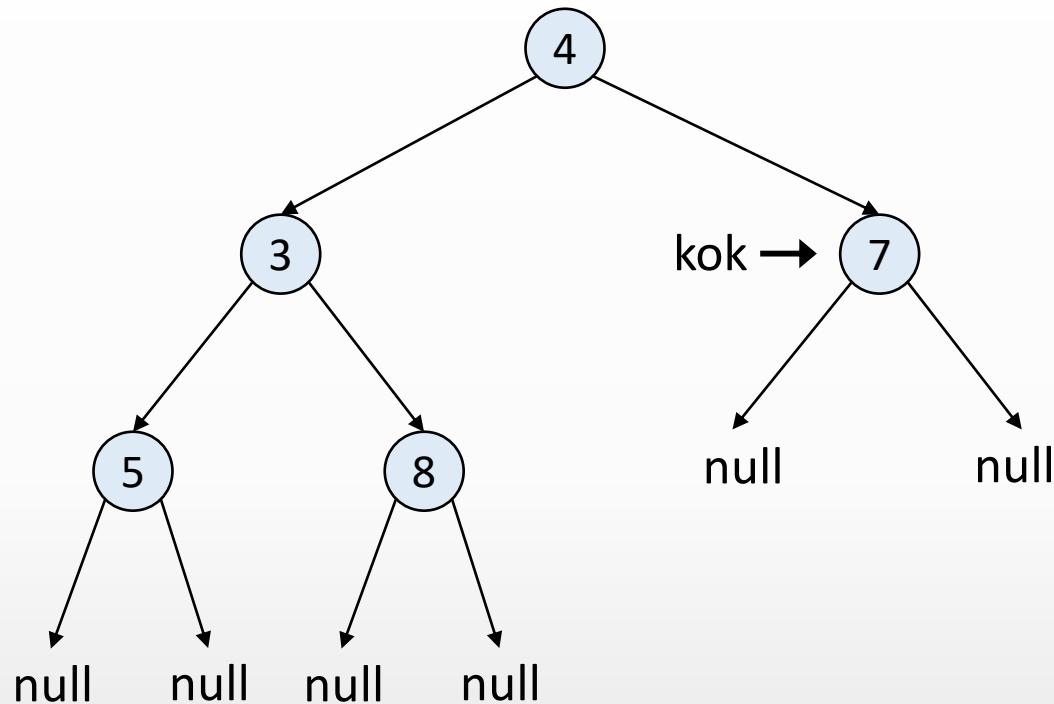
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metot çağrımı	satır no	kok	sonuc	sol	sag
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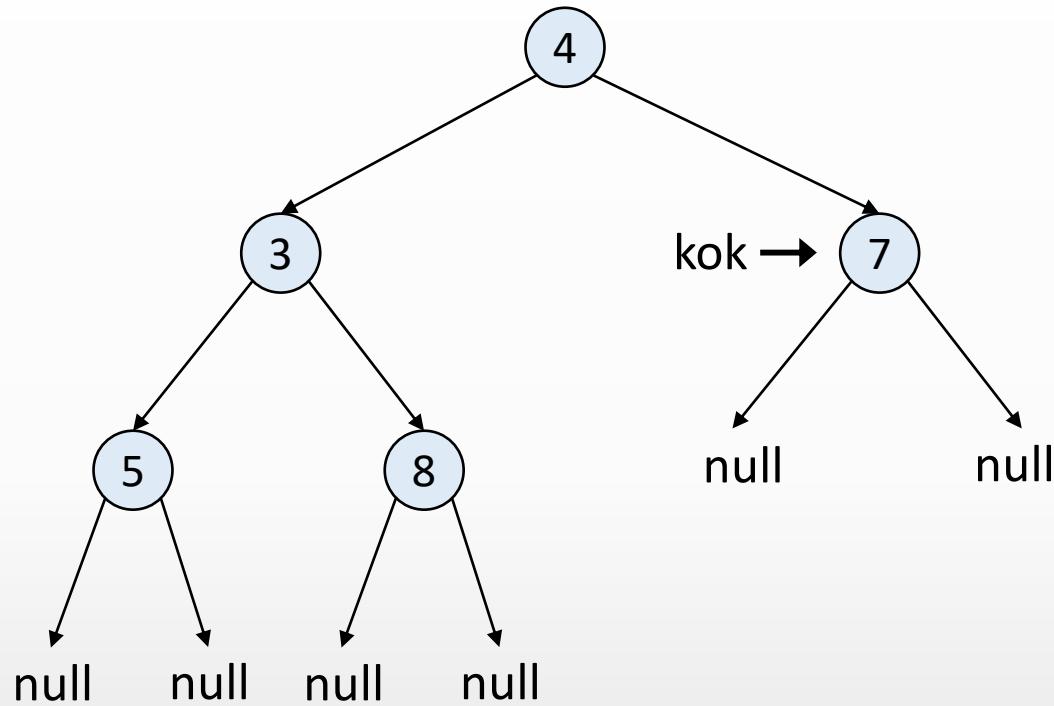
IMV = -2147483648



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	IMV



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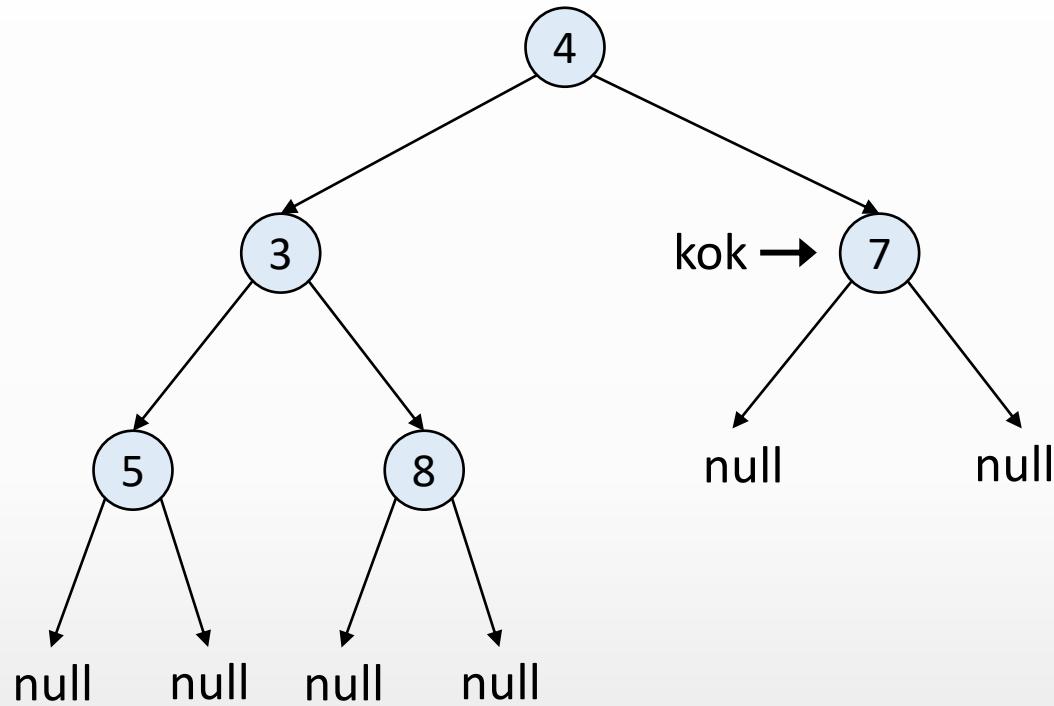
IMV = -2147483648



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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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 }
```



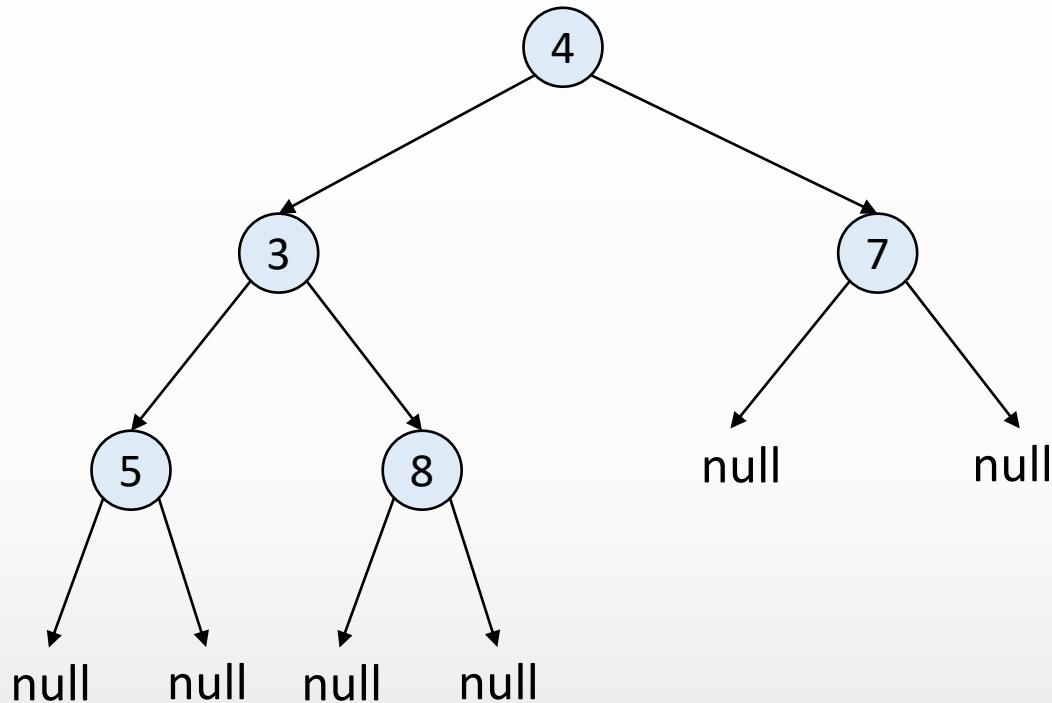
IMV = -2147483648



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	IMV



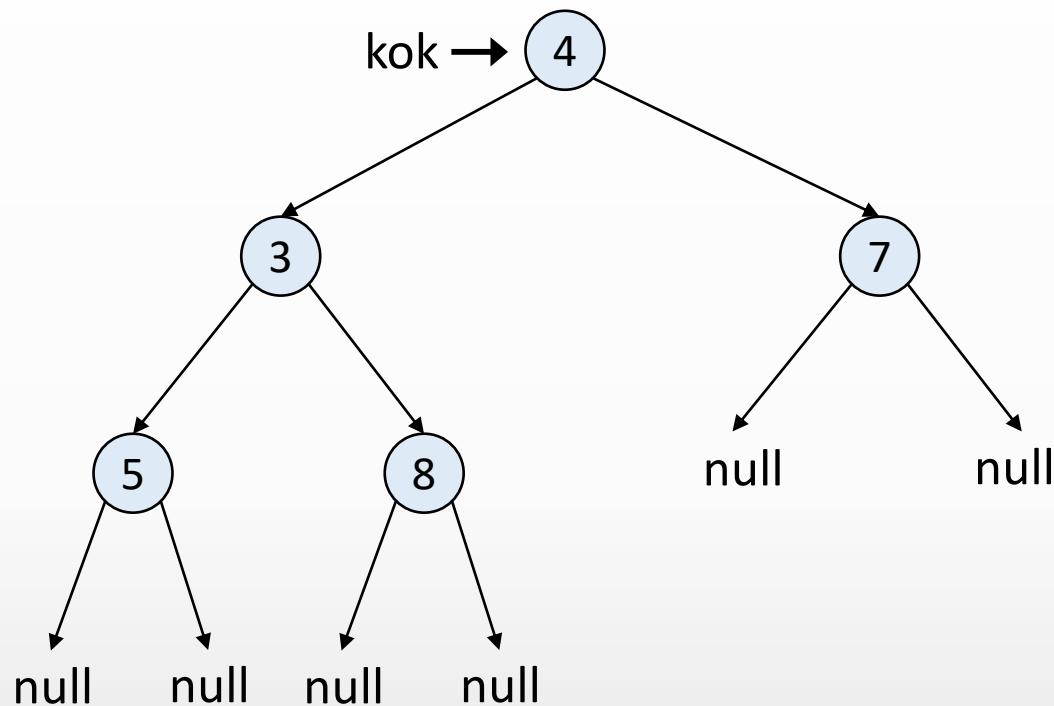
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

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

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

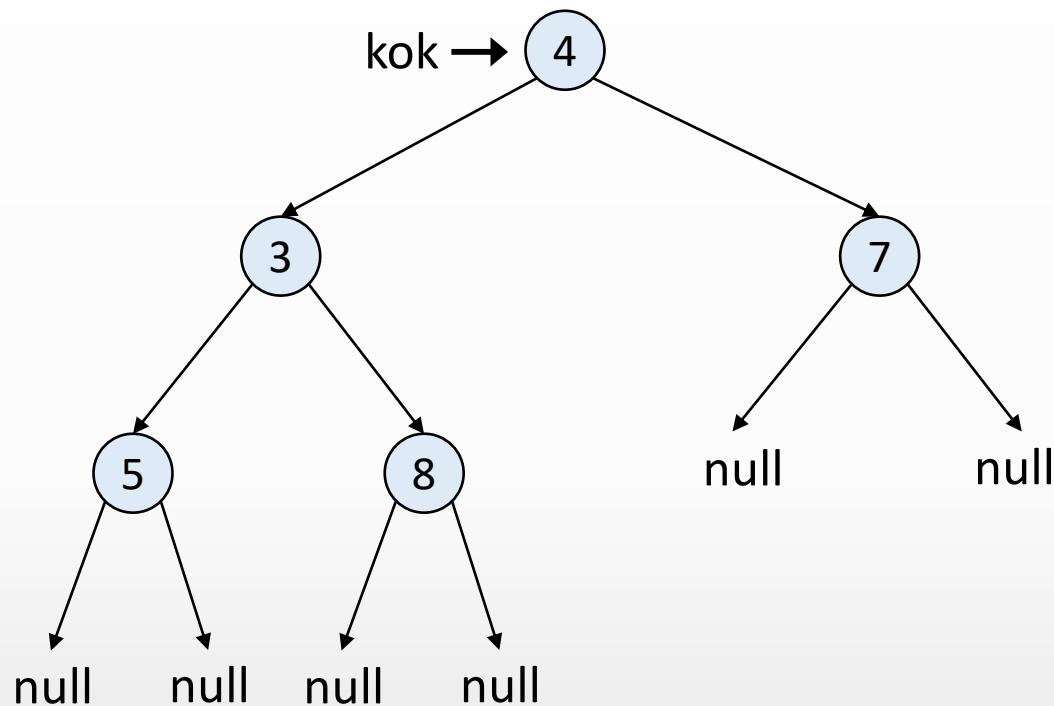


IMV = -2147483648

metot çağrıması	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;  
12    return sonuc;  
13 }
```



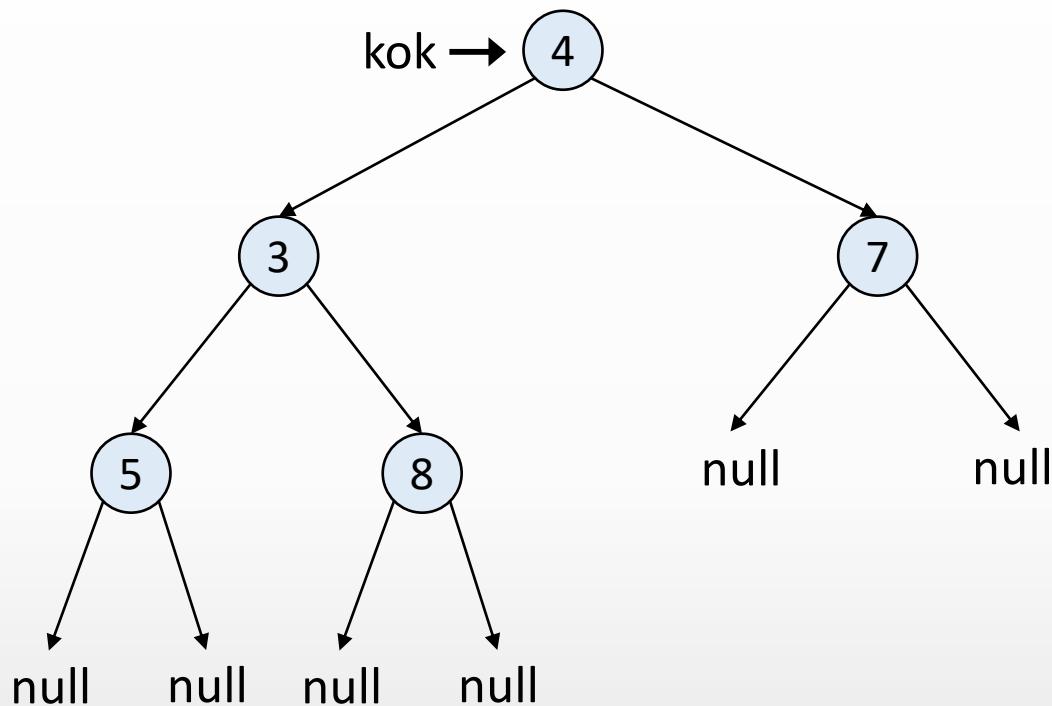
IMV = -2147483648



metot çağrıması	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;  
12    return sonuc;  
13 }
```



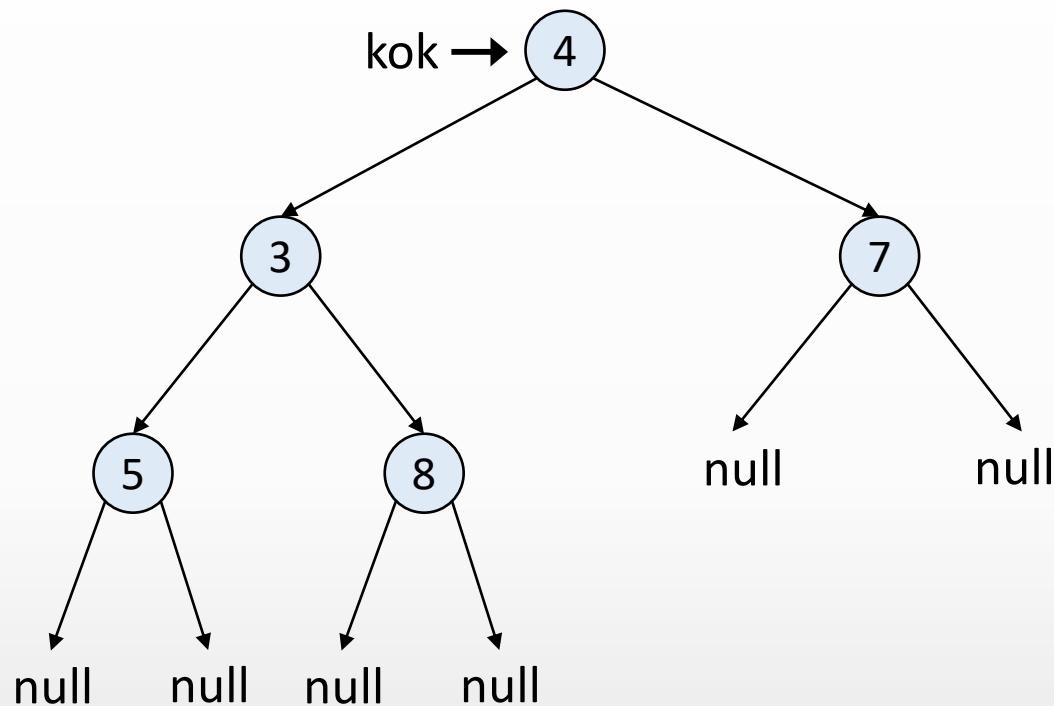
IMV = -2147483648



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



```
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)  
9         sonuc = sol;  
10    if(sag > sonuc)  
11        sonuc = sag;  
12    return sonuc;  
13 }
```



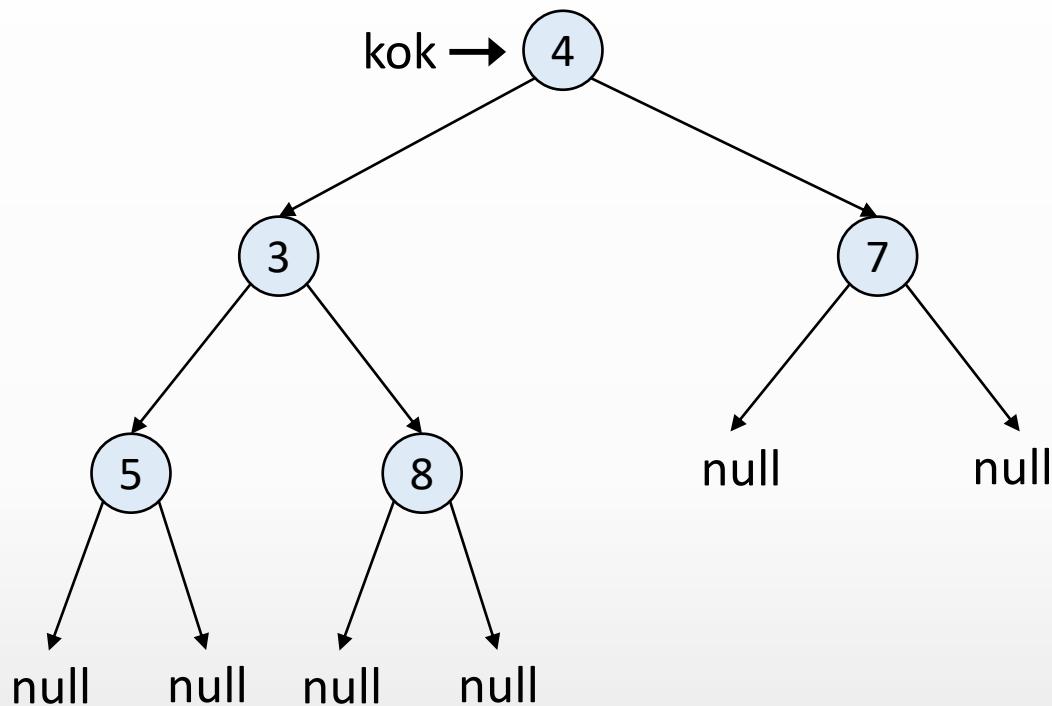
IMV = -2147483648



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



```
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)  
9         sonuc = sol;  
10    if(sag > sonuc)  
11        sonuc = sag;  
12    return sonuc;  
13 }
```



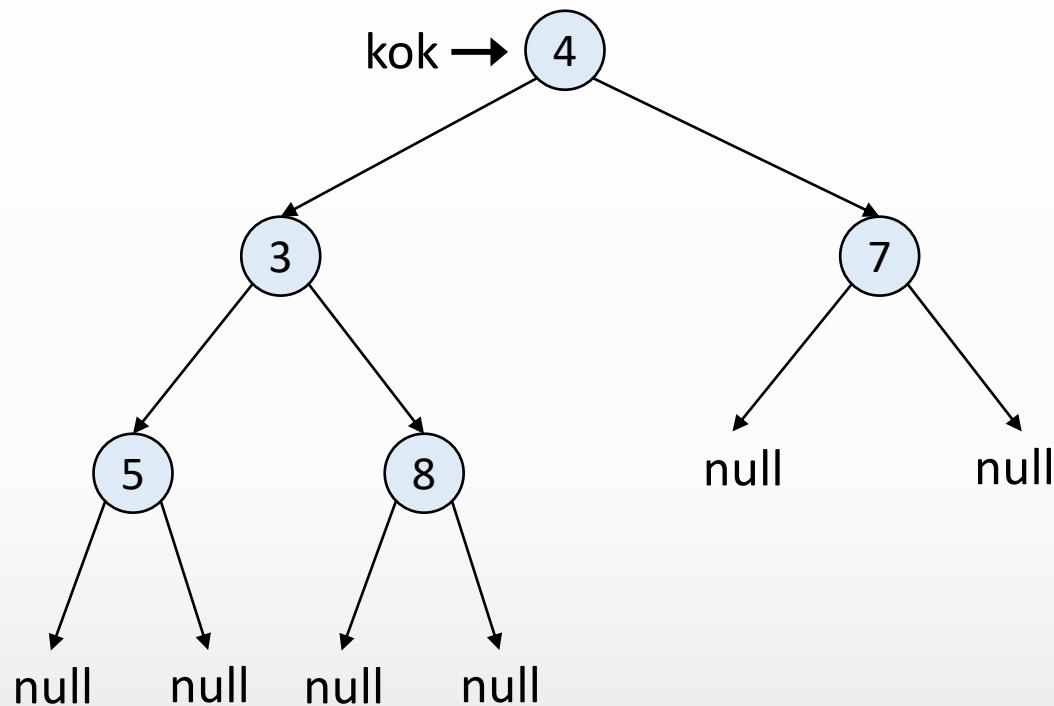
IMV = -2147483648



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	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;  
12    return sonuc;  
13 }
```



En büyük değer → 8

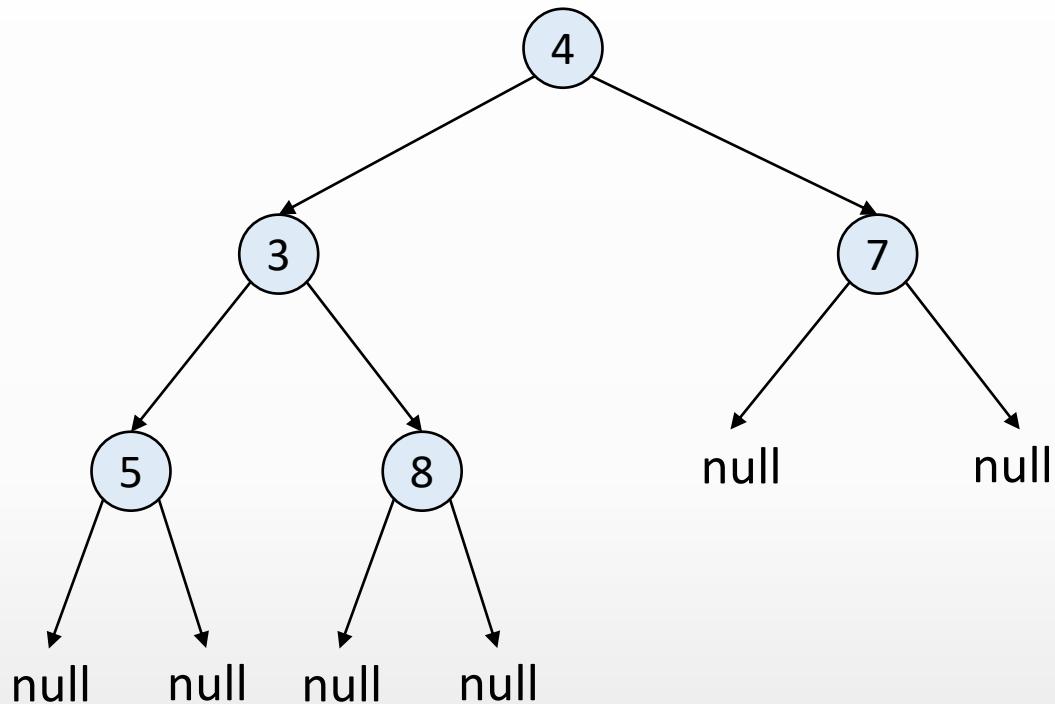
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	8	7

→

```
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;  
12    return sonuc;  
13 }
```



metot çağrımı	satır no	kok	sonuc	sol	sag
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En büyük değer → 8

```
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 }
```



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