



# Bölüm 7: Ağaç Veri Yapıları

# Ağaç



- "Just as the leaves of a tree connect to its branches, data nodes link the elements in a tree structure."



# Ağaç

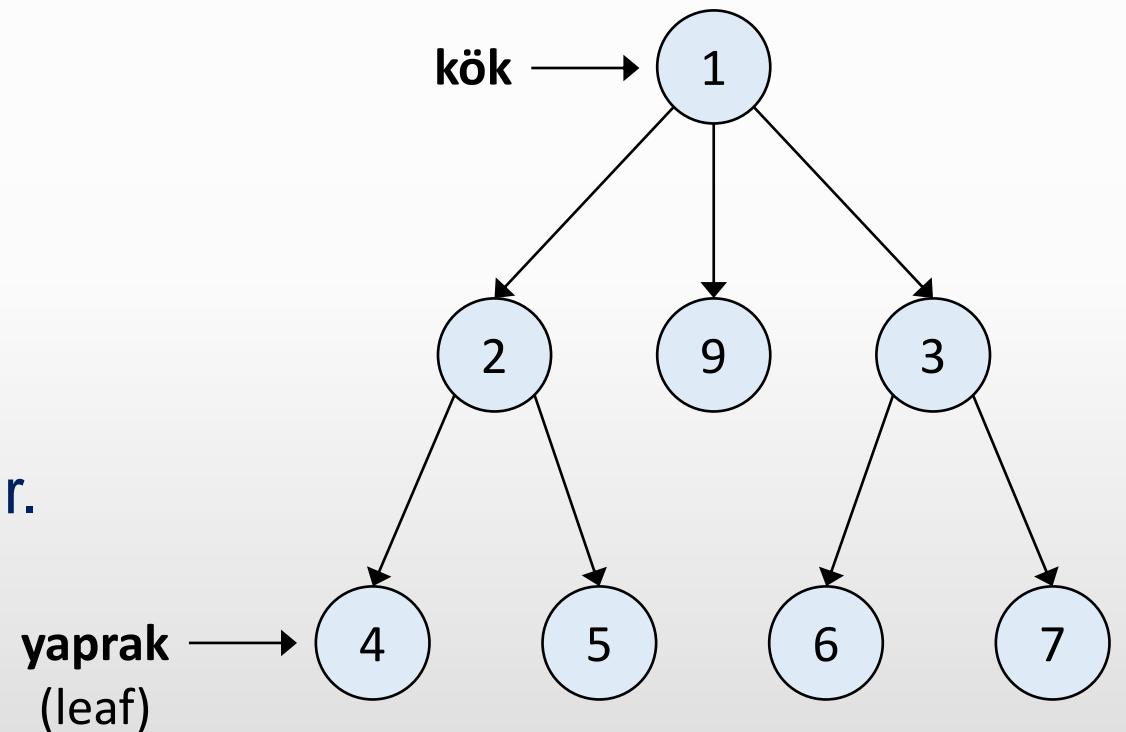


- Verileri **hiyerarşik** bir şekilde tutmak için kullanılır.
- **Doğrusal olmayan** bir veri yapısıdır.
- **Düğümler** (nodes) ve **kenarlar** (edges) kullanılarak oluşturulurlar.
- **Kök** düğüm, **yaprak** düğümler ve **İç** düğümler, temel ağaç öğeleridir.
- Her düğüm, bir veya daha fazla alt düğüme sahip olabilir.
- Her düğüm, bir üst düğümün (**ebeveyn**) altında yer alabilir.
- Temel bir ağaç yapısı, kök (root) düğümü içerir ve ondan dallanır.



# 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

- **İkili Ağaç** (Binary Tree)
  - Her düğüm en fazla iki alt düğüme sahiptir.
- **İkili Arama Ağaçısı** (Binary Search Tree)
  - İkili ağaçtır.
  - Sol alt ağaç, kök düğümden küçük değerlere sahip düğümler içerir.
  - Sağ alt ağaç, kök düğümden büyük değerlere sahip düğümler içerir.



# Ağaçlar Neden Önemlidir?

- Verileri düzenli bir şekilde depolamak ve aramak için kullanılır.
- İkili arama ağaçları, verileri hızlı bir şekilde sıralamak ve aramak için kullanılır.
- Ağaçlar, ağaç gezinme algoritmaları gibi birçok algoritmanın temelini oluşturur.



# Ağaçlar ve Uygulama Alanları

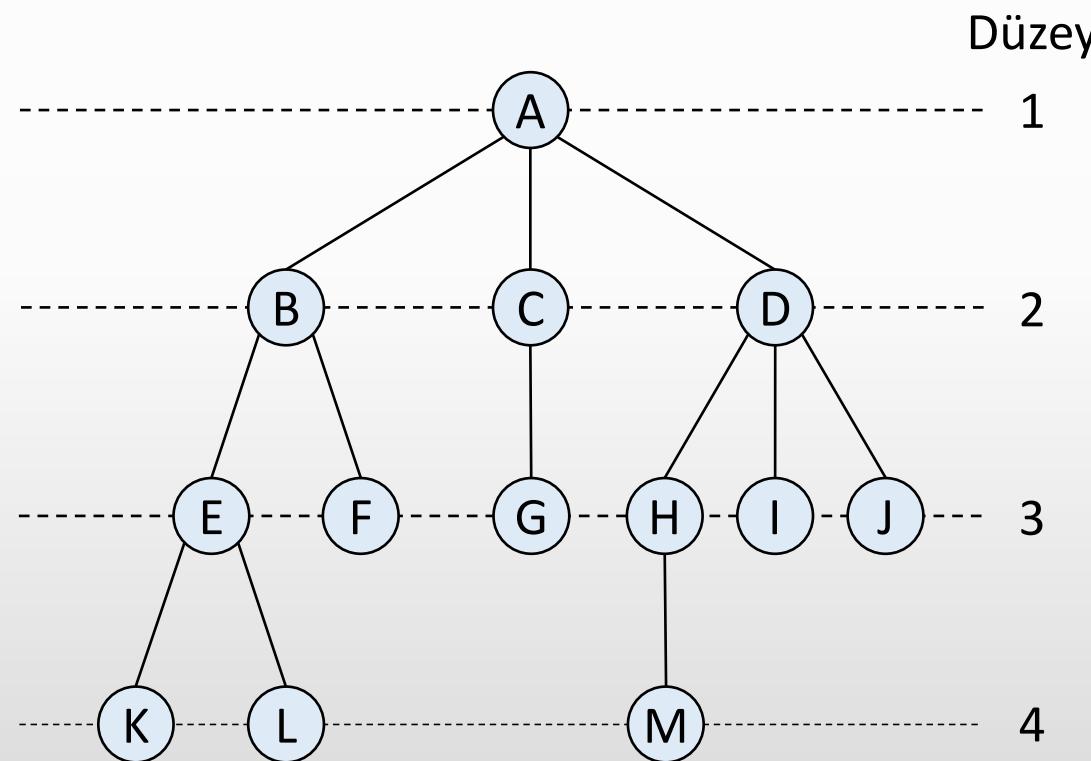
- Veritabanı yönetimi,
- Hiyerarşik verilerin temsili,
- Bilgisayar bilimindeki birçok algoritmanın temelinde, kullanılır.



# Ağaç İlişkileri

- **Ebeveyn Düğüm** (Parent Node)
  - Bir düğümün üzerinde bulunan düğümdür.
  - Her düğümün yalnızca bir ebeveyni vardır (kök düğüm hariç).
- **Çocuk Düğüm** (Child Node)
  - Bir düğümün altında bulunan düğümlerdir.
  - Her düğümün birden fazla çocuğu olabilir.
- **Kardeş Düğüm** (Sibling Node)
  - Aynı ebeveyn düşüme sahip olan düğümler kardeşir.
  - Yani, aynı düzeydeki düğümler kardeşir.

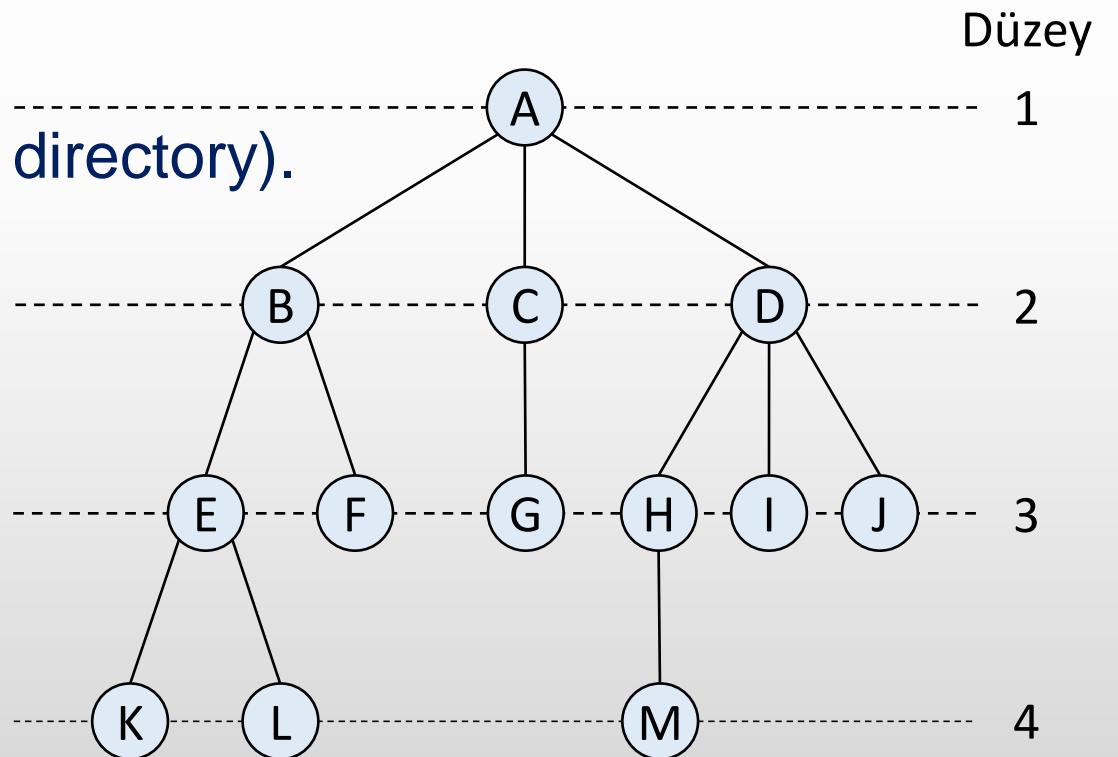
# Ağaç İlişkileri





# Kök Düğüm (Root Node)

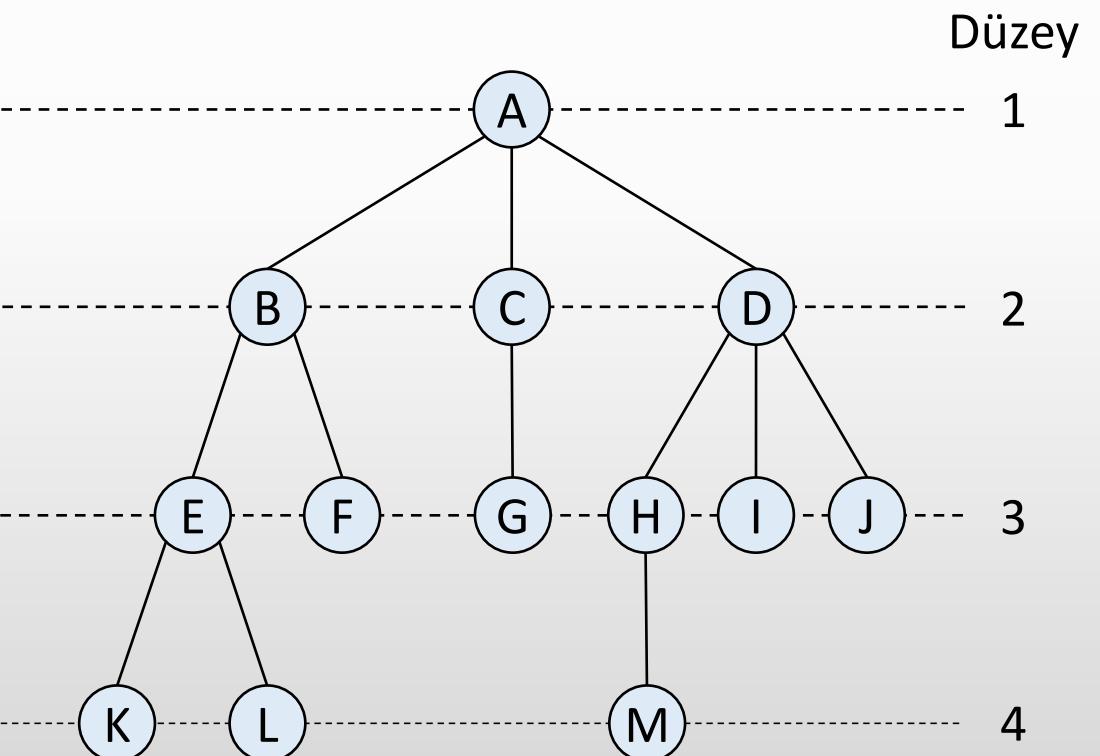
- Ağacın en üst düğümüdür.
- Hiçbir üst düğüme sahip değildir.
- **Örnek:**
  - Dosya sisteminin ana dizini (root directory).





# Yaprak Düğüm (Leaf Node)

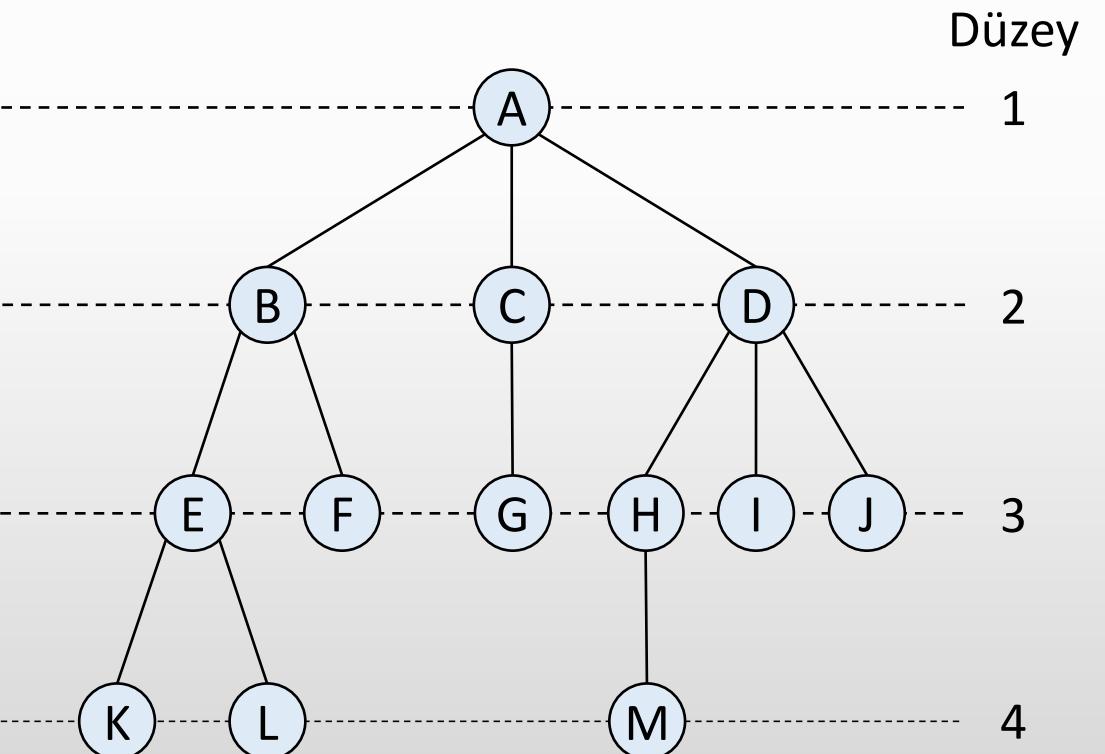
- Hiçbir alt düğüme sahip olmayan düğümlerdir.
- Genellikle verileri içerir.
- **Örnek:**
  - Bir dosya sistemindeki dosyalar.





# İç Düğüm (Internal Node)

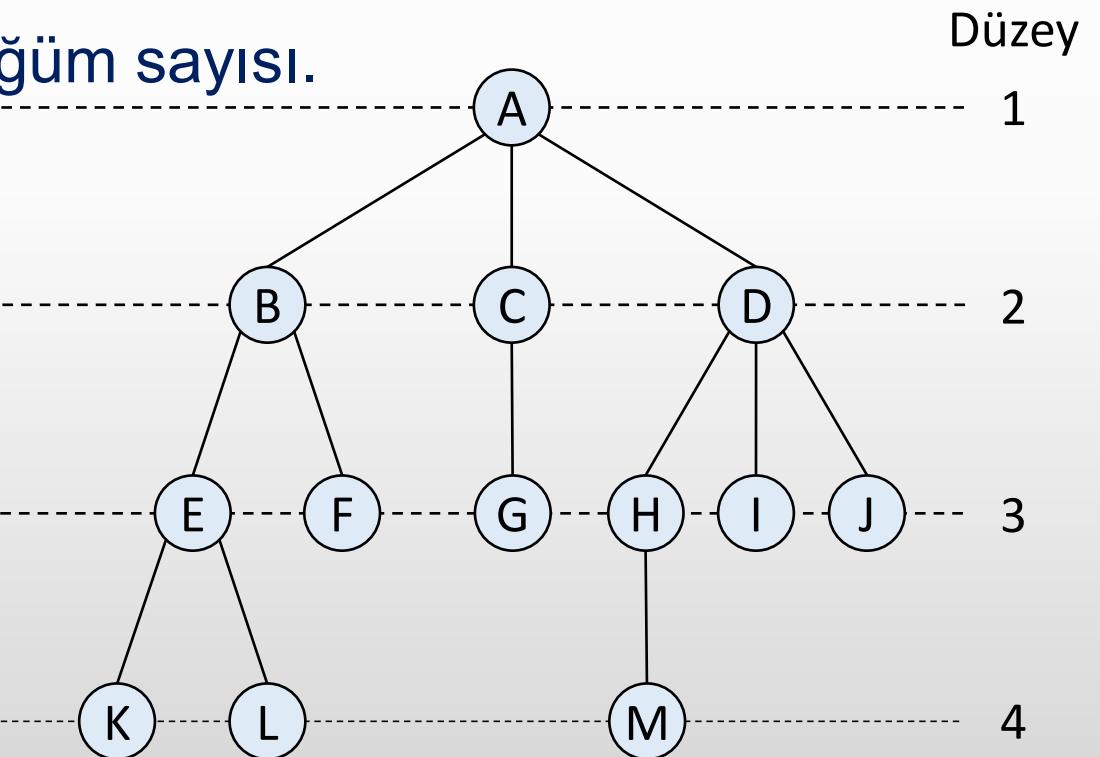
- Hem üst hem de alt düğümlere sahip olan düğümlerdir.
- Genellikle veri taşıır.
- **Örnek:**
  - Bir dosya sistemindeki klasörler.





# Derece (Degree)

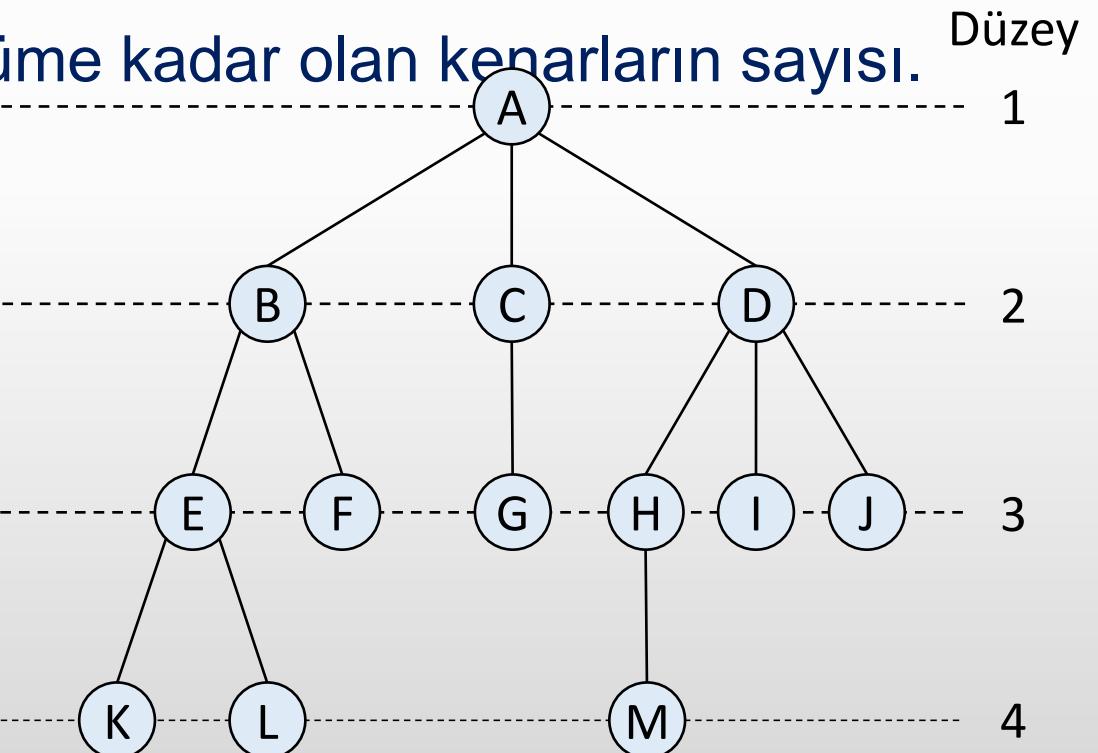
- Bir düğüme eklenen alt ağaçların toplam sayısına denir.
- **Örnek:**
  - Düğümün sahip olduğu çocuk düğüm sayısı.





# Derinlik (Depth)

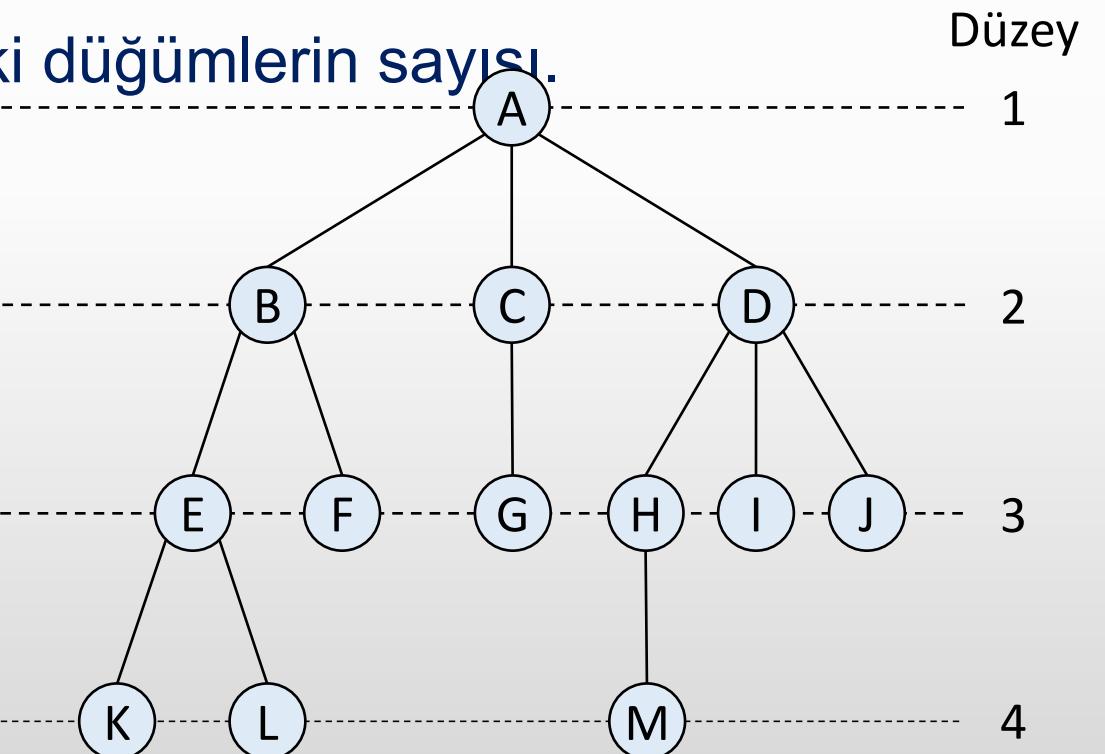
- Bir düğümün kök düğüme olan uzaklığını ifade eder.
- **Örnek:**
  - Ağacın kökünden bir yaprak düğüme kadar olan kenarların sayısı.





# Yükseklik (Height)

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





# Alt Ağaç (Subtree)

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

# İkili Ağaç

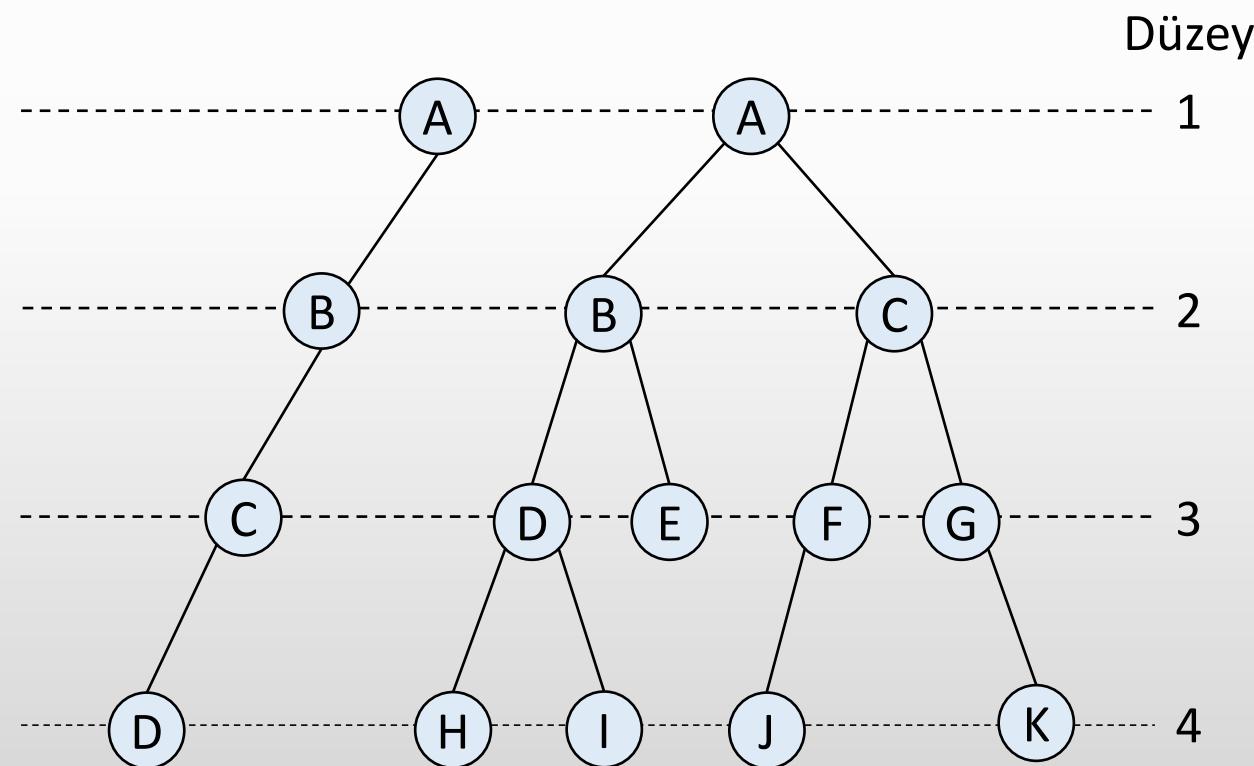


# İkili Ağaç



- Bir ağaç türündür ve özel bir sıralama ve yapısı vardır.
- Her düğüm en fazla iki çocuğa sahip olabilir.
- Düğümler rastgele dağılmış olabilir.

# İkili Ağaç



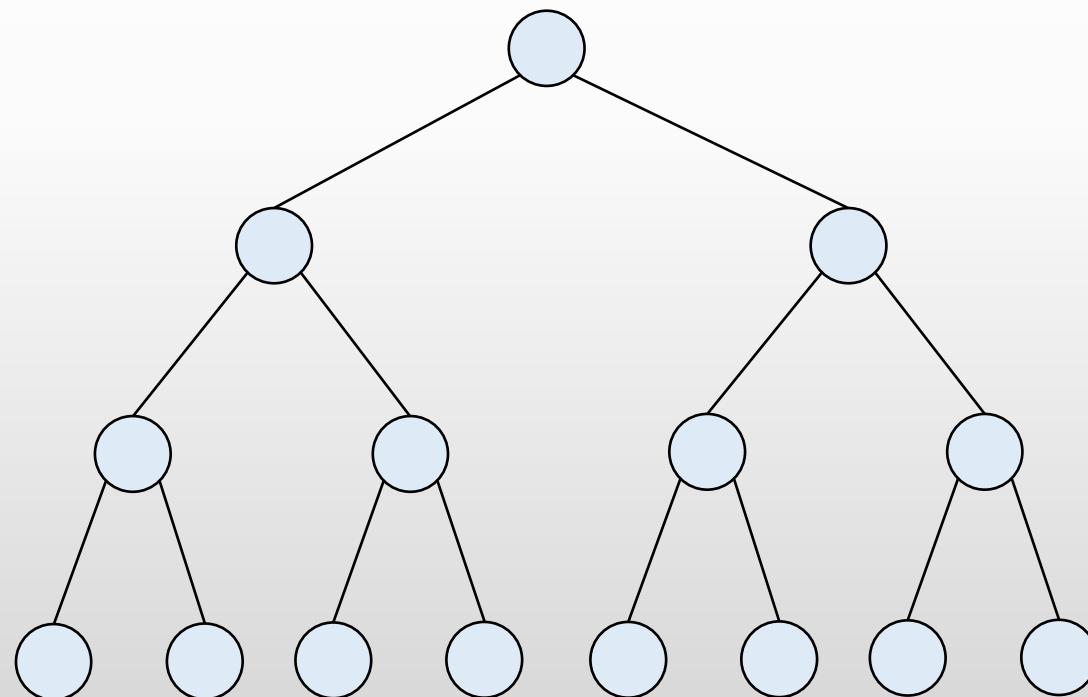


# Tam Ağaç (Full Tree)

- Tüm düğümleri tam olarak doldurulmuş bir ağaçtır.
- Her düğümün ya hiç çocuğu yoktur ya da iki çocuğu vardır.
- Her seviyede maksimum düğüm sayısına sahiptir.
- Yaprak düğümlerin tamamı aynı seviyededir.
- Her bir seviyedeki düğümler soldan sağa doğru sıralıdır.



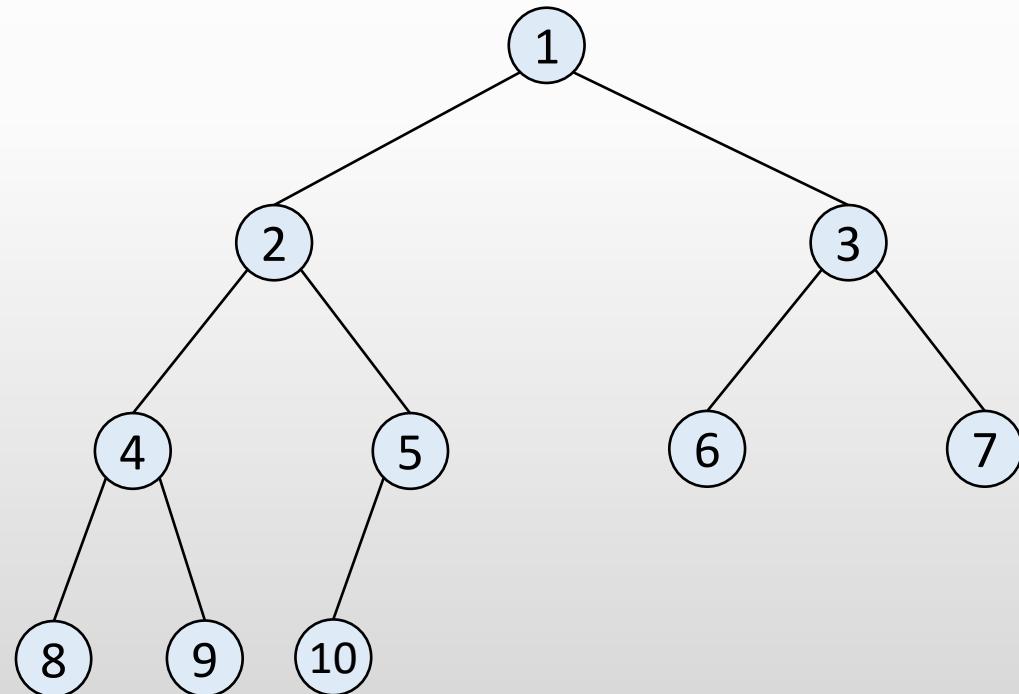
# Tam Ağaç (Full Tree)





# Tamamlanmış Ağaç (Complete Tree)

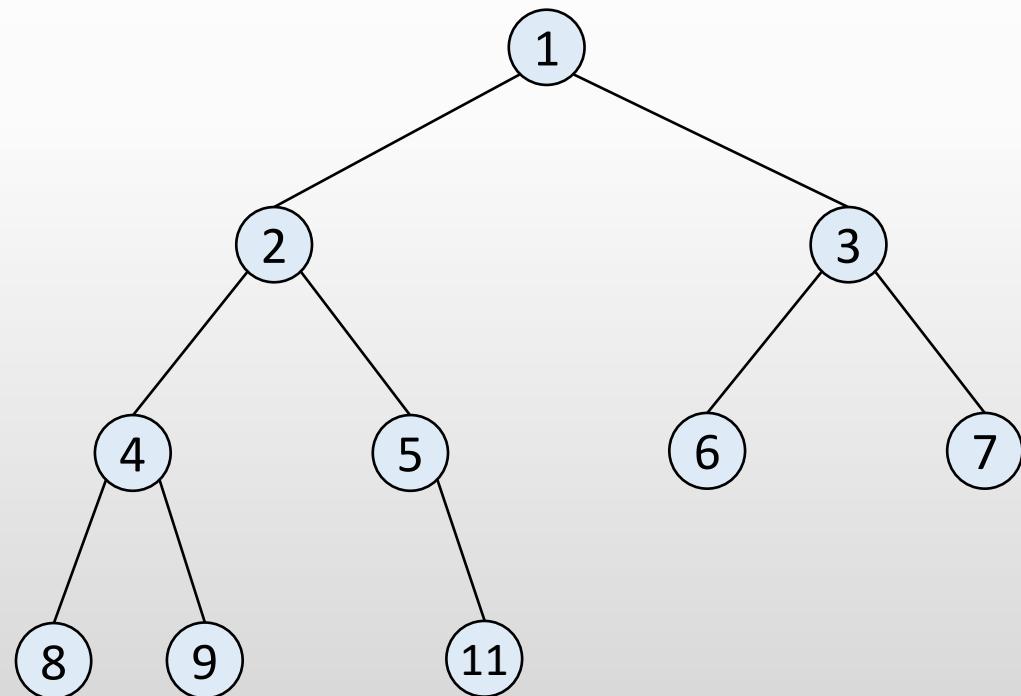
- Son seviyede bazı düğümler eksik olabilir.
- Tüm seviyelerdeki düğümler soldan sağa doğru sıralıdır.





# Tamamlanmış Ağaç (Complete Tree)

- Düğümler soldan sağa doğru sıralı değildir.





# Dizi ile Temsili

- İkili ağaçlar, dizilerle temsil edilebilir.
- İndeks hesaplaması için düğümün seviyesi ve pozisyonu kullanılır.
  - Sol çocuğunun indeksi « $e$ » ise, sağ çocuğunun indeksi « $e+1$ » olur.
  - Her düğümün ebeveyn düğümünün indeksi « $(e/2)$ » olur.
  - Çocuklarının indeksi « $2^*e$ » ve « $2^*e+1$ » olur.
- Dizi temsili, az maliyet ve yüksek hız avantajlarına sahiptir, ancak dinamik yapıları temsil etmek için uygun değildir.



# Dizi Temsili

## ■ Avantajlar

- **Maliyet:** Dizi temsili daha az bellek kullanır.
- **Hız:** Dizi erişimi genellikle daha hızlıdır.

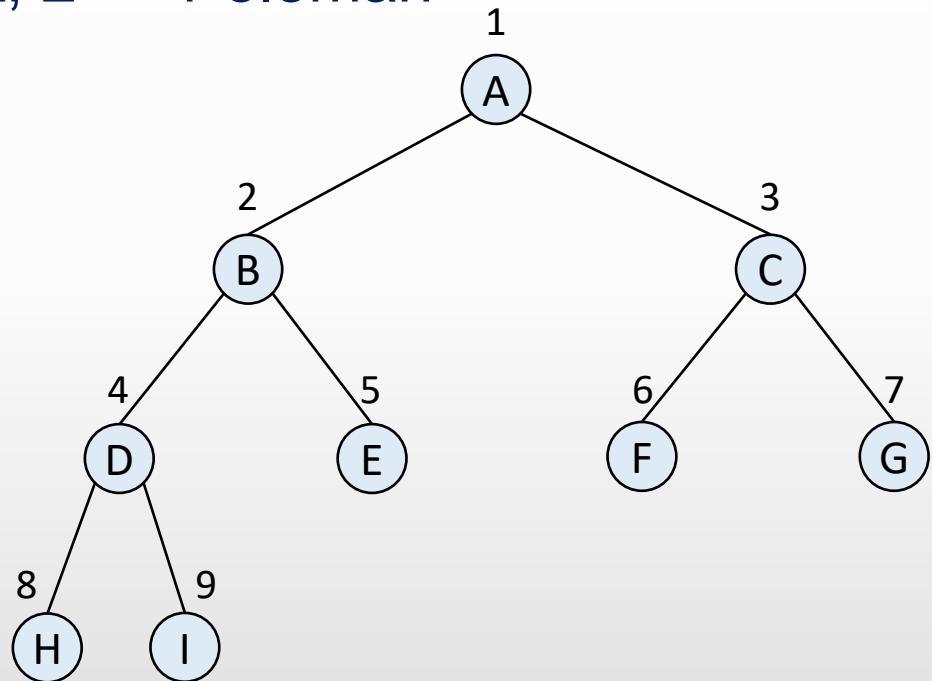
## ■ Dezavantajlar

- **Dinamik değil:** Dizi, ağaç boyutu değişikçe uygun değildir.
- **Boş alanlar:** Tamamlanmamış ağaçlarda boşluklar oluşabilir.



# Dizi Temsili

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

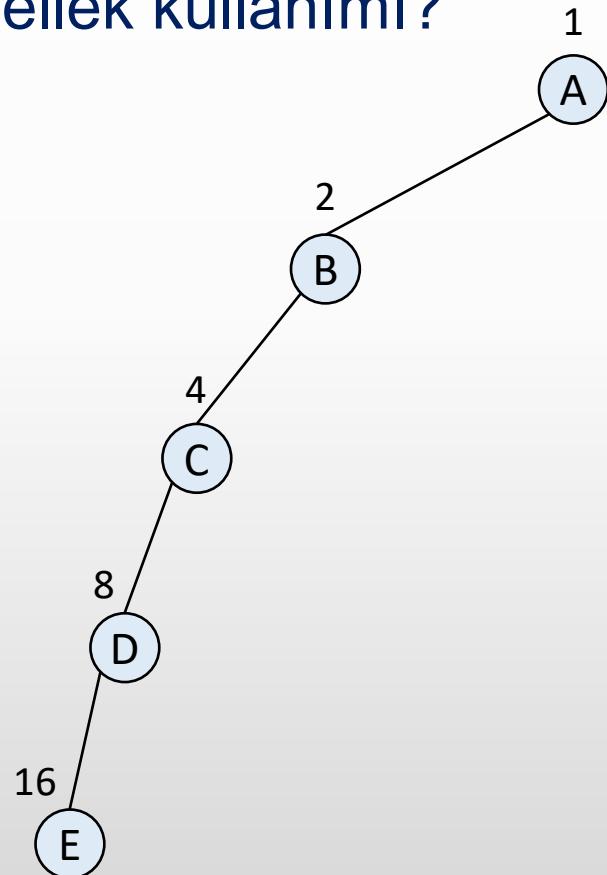


1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I



# Dizi Temsili

- Verimsiz bellek kullanımı?

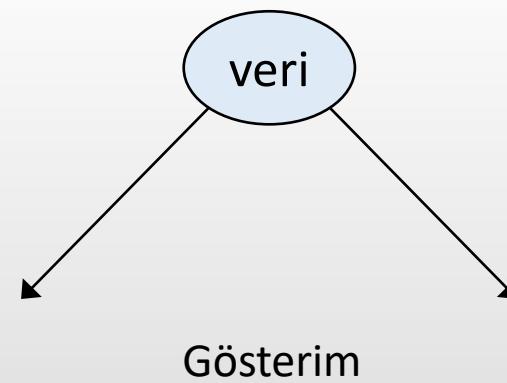


1	A
2	B
3	
4	C
...	
8	D
...	
16	E
...	
31	



# Bağlı Liste Temsili

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





# Bağılı Liste Temsili

## ■ Avantajlar

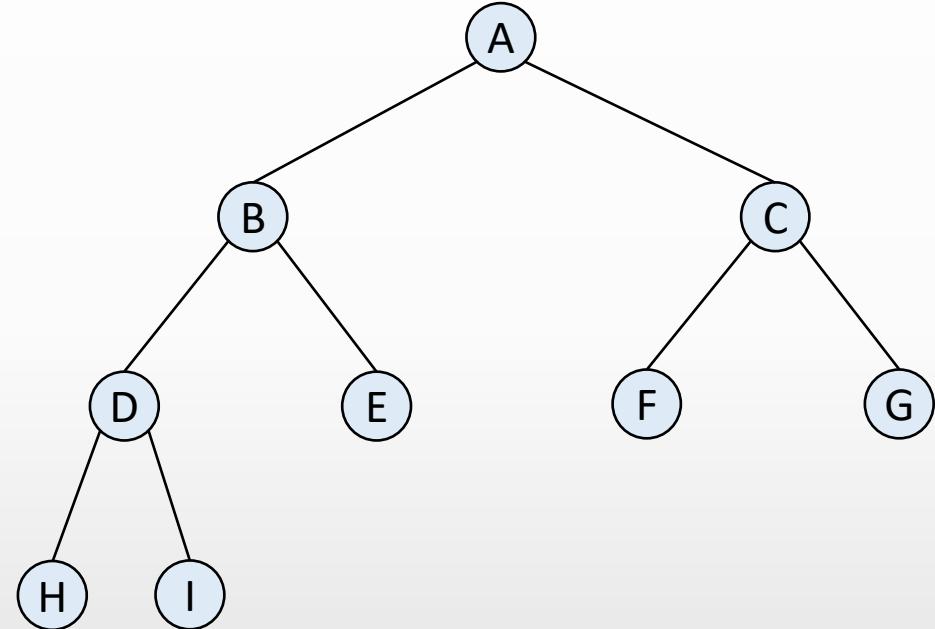
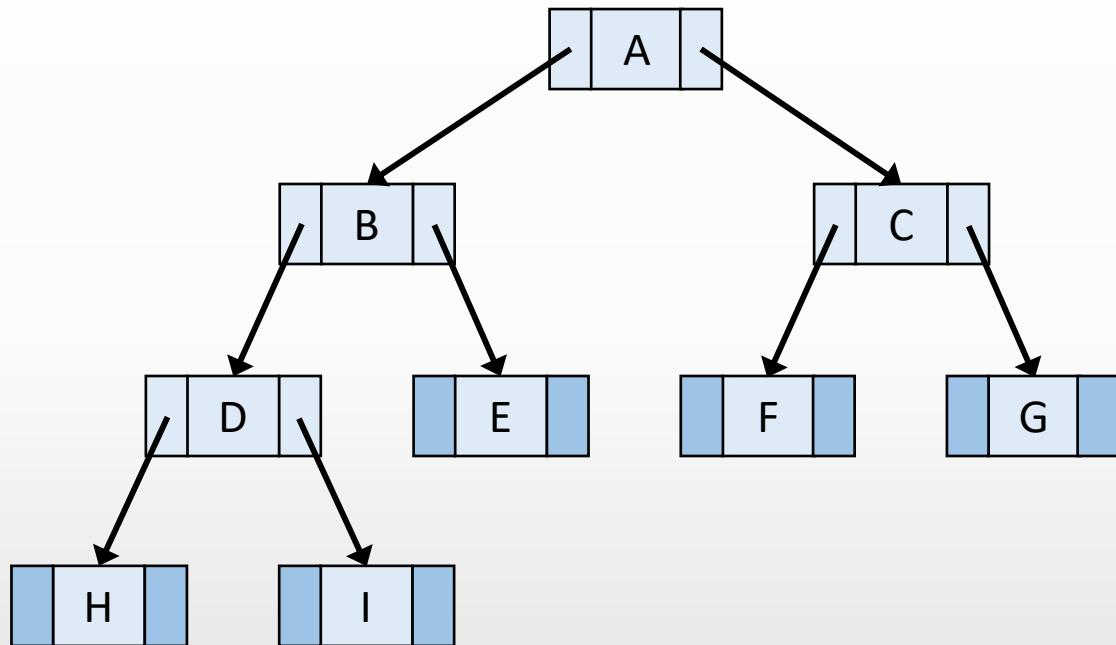
- **Dinamik:** Bağılı liste temsili, ağaç boyutu değişikçe uyarlanabilir.
- **Kolay Erişim:** Düğümler arası gezinme ve erişim kolaydır.

## ■ Dezavantajlar

- **Bellek Tüketimi:** Ekstra bağlantılar daha fazla bellek tüketebilir.
- **Hız:** Dizi temsili ile karşılaştırıldığında bazen daha yavaş olabilir.

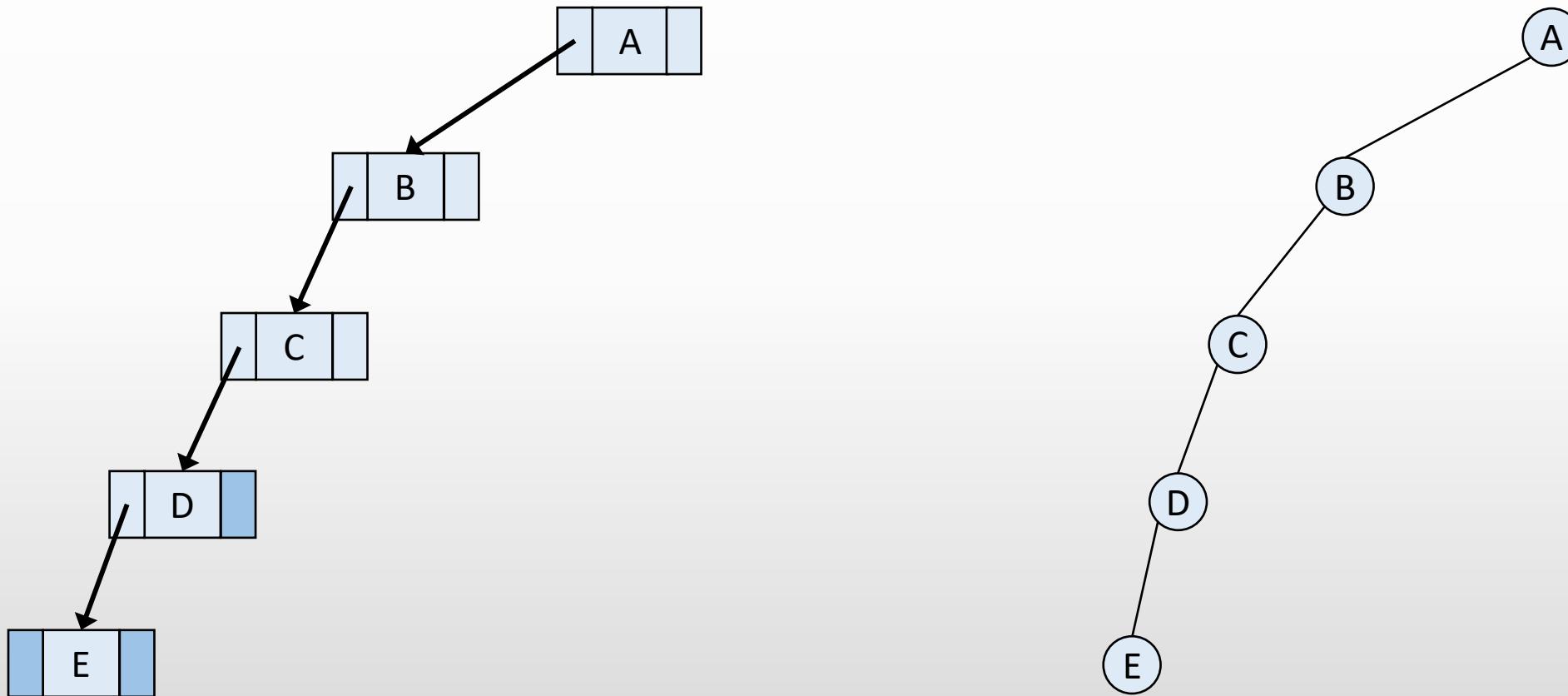


# Bağılı Liste Temsili



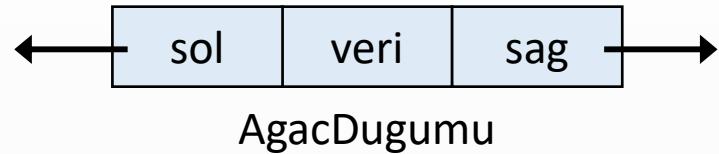


# Bağılı Liste Temsili





# Bağılı Liste Temsili



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

# İkili Ağaç Gezinmeleri



- İkili ağaçlarda, düğümleri gezerek içerdikleri verilere erişebiliriz.
- Düğümleri belirli bir sırayla **yalnızca bir kez** ziyaret etmek için kullanılır.



# Gezinme Türleri

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

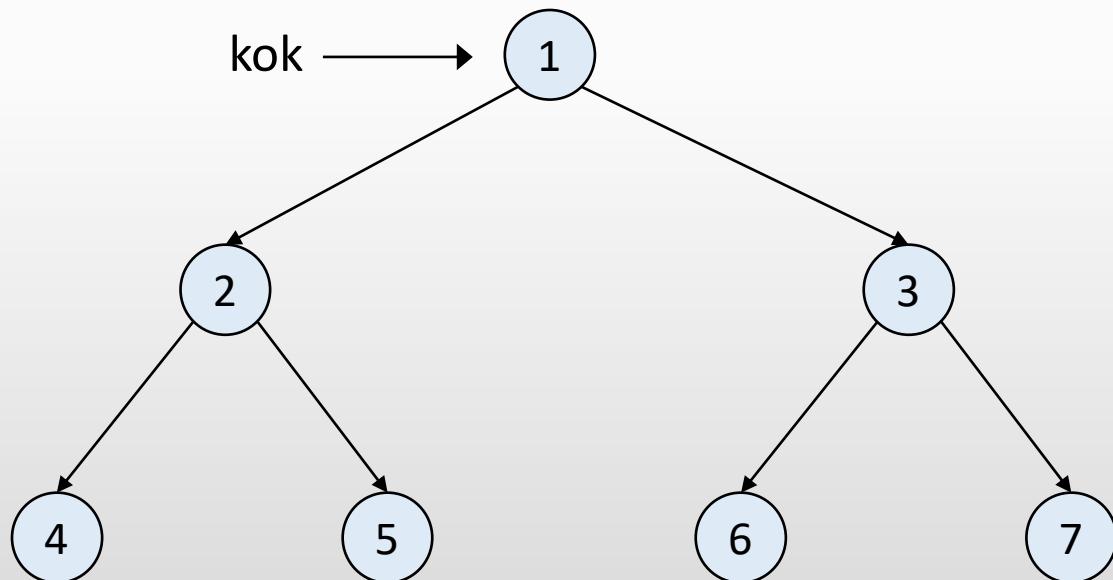
# Kök Başta (Preorder) Dolaşımı





# Kök Başta (Preorder) Dolaşımı

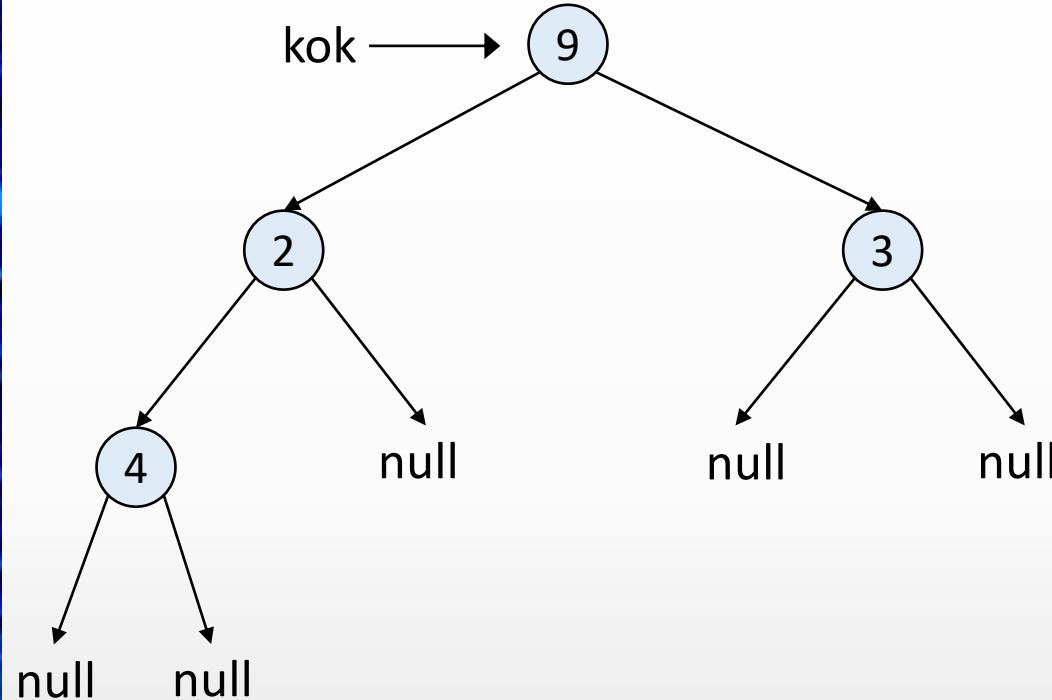
- Kök düğümü ziyaret et.
- Kök başta olacak şekilde sol alt ağacı dolaş.
- Kök başta olacak şekilde sağ alt ağacı dolaş.



Kök başta dolaşımı: 1 2 4 5 3 6 7



## Çağrıma Yığıtı (Call Stack)



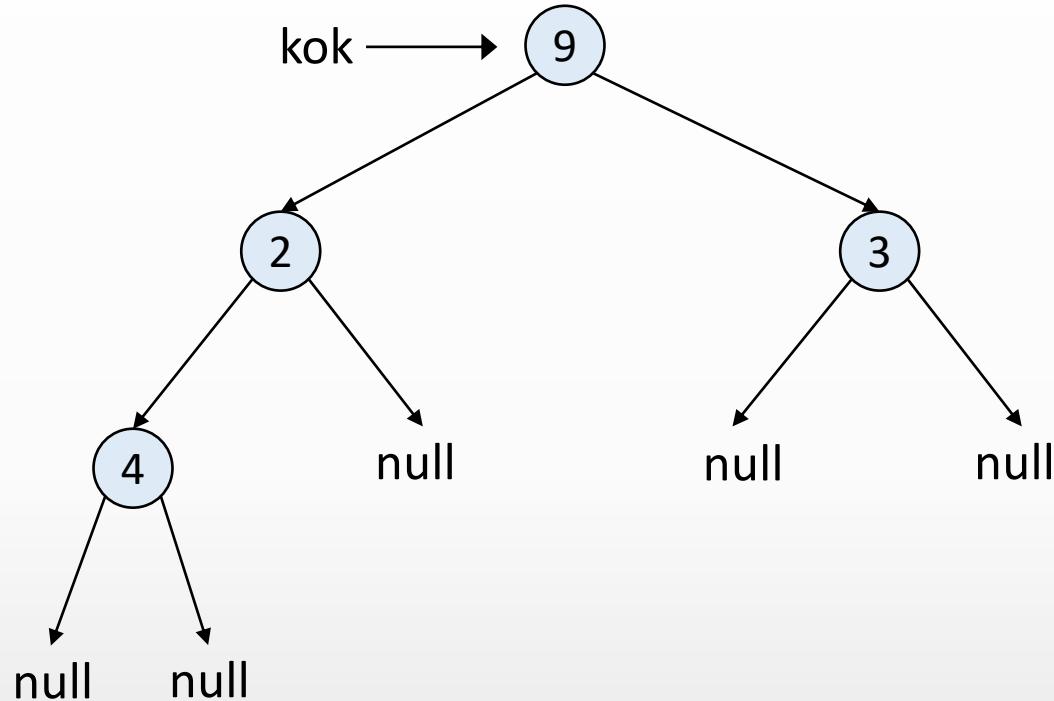
Çıktı:

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)



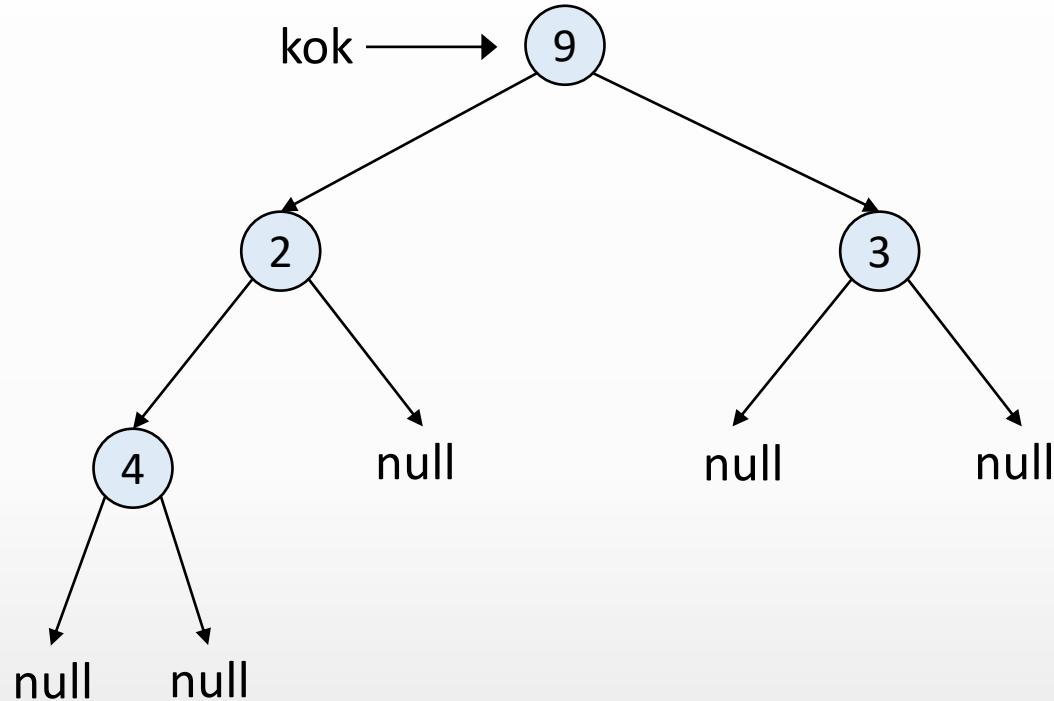
Metot Çağrımı	Satır Numarası	Kök
kokBasta()		9

Çıktı:

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## Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
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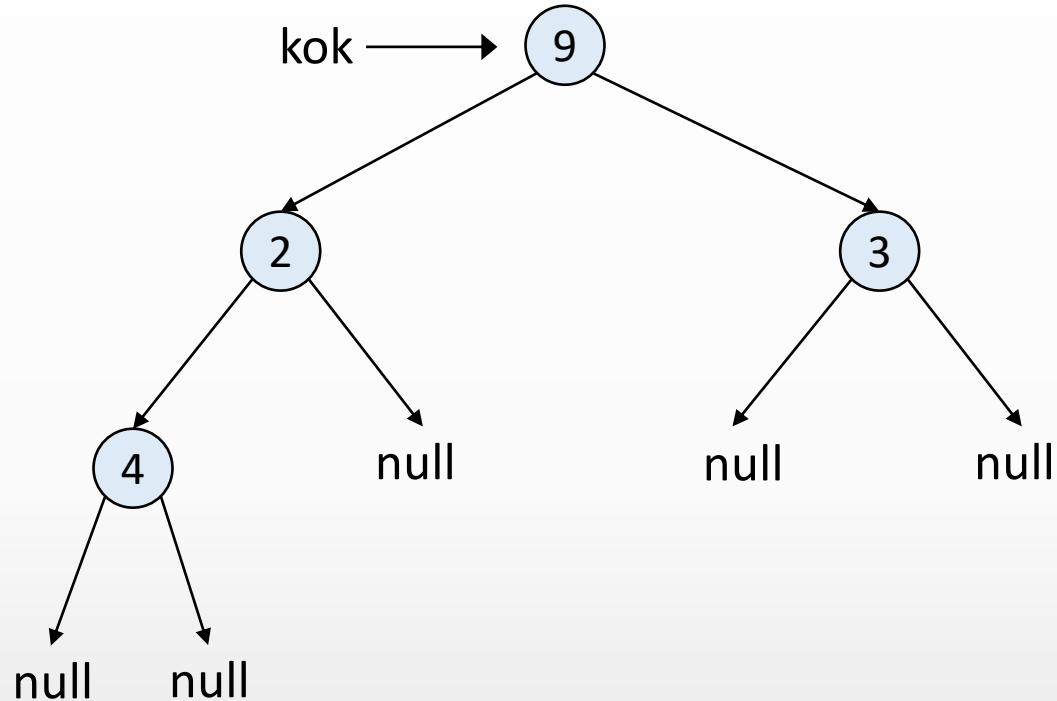


Çıktı:

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## Çağırma Yığıtı (Call Stack)



Çıktı: 9

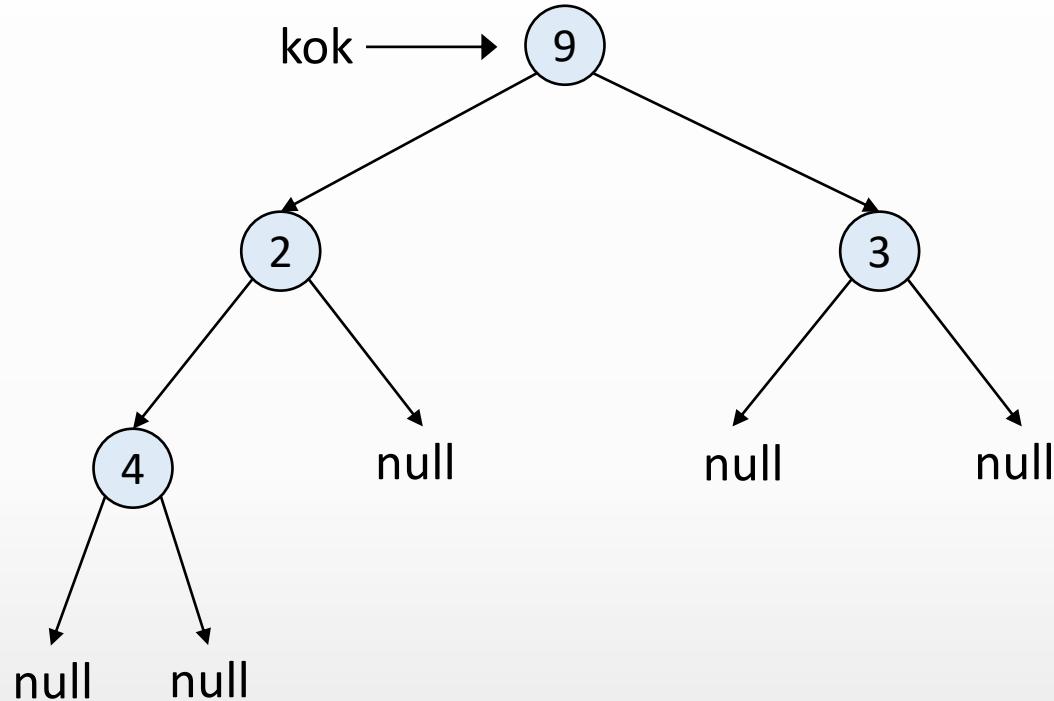
Metot Çağrımı	Satır Numarası	Kök
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→

```
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## Çağırma Yığıtı (Call Stack)



Çıktı: 9



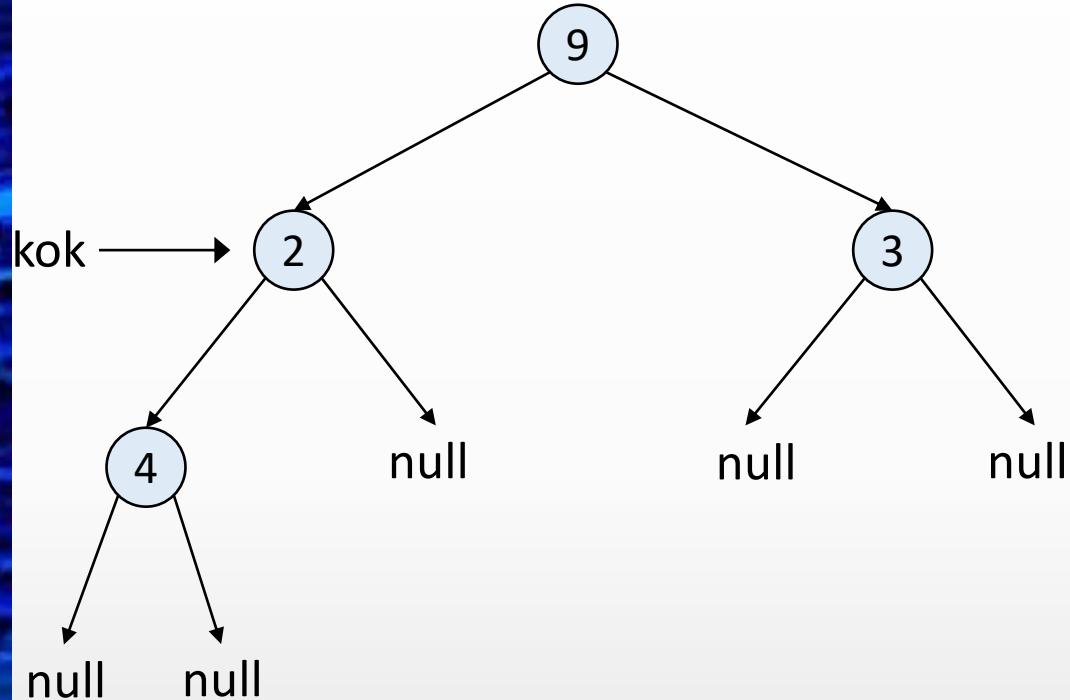
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9



```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
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## Çağırma Yığıtı (Call Stack)



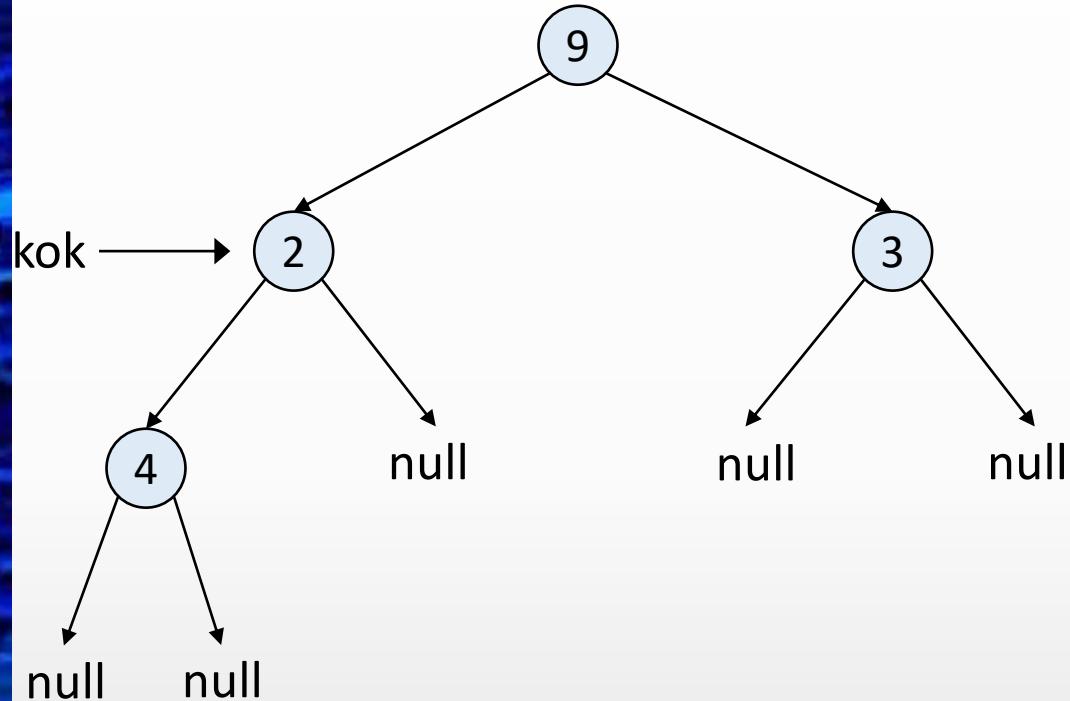
Çıktı: 9

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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## Çağırma Yığıtı (Call Stack)



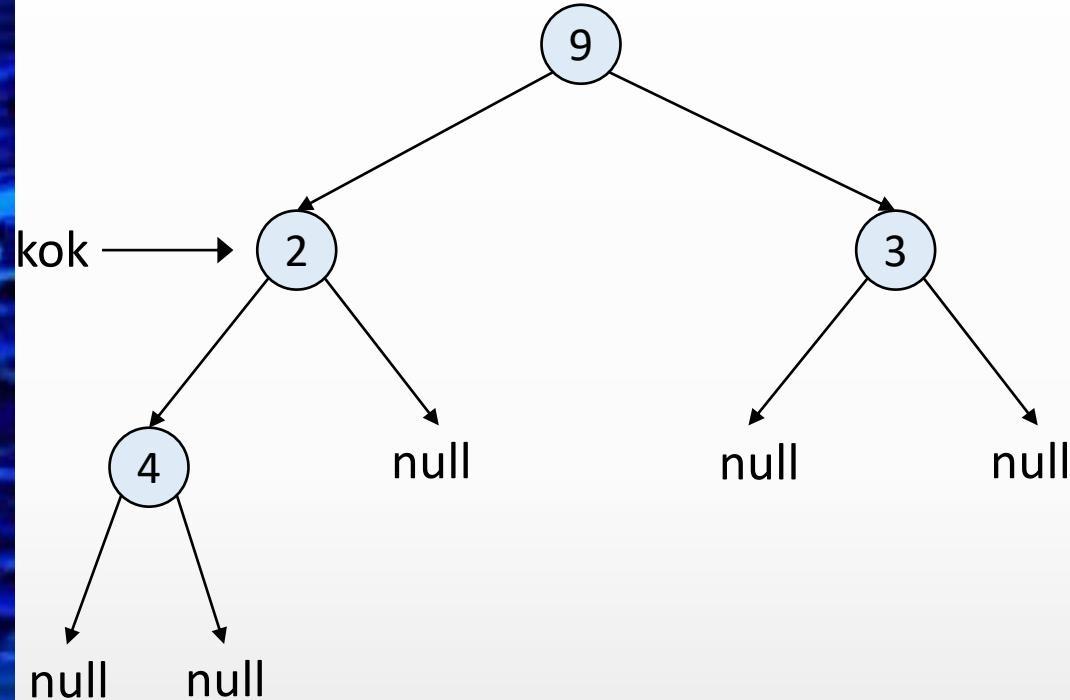
Çıktı: 9

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

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## Çağırma Yığıtı (Call Stack)



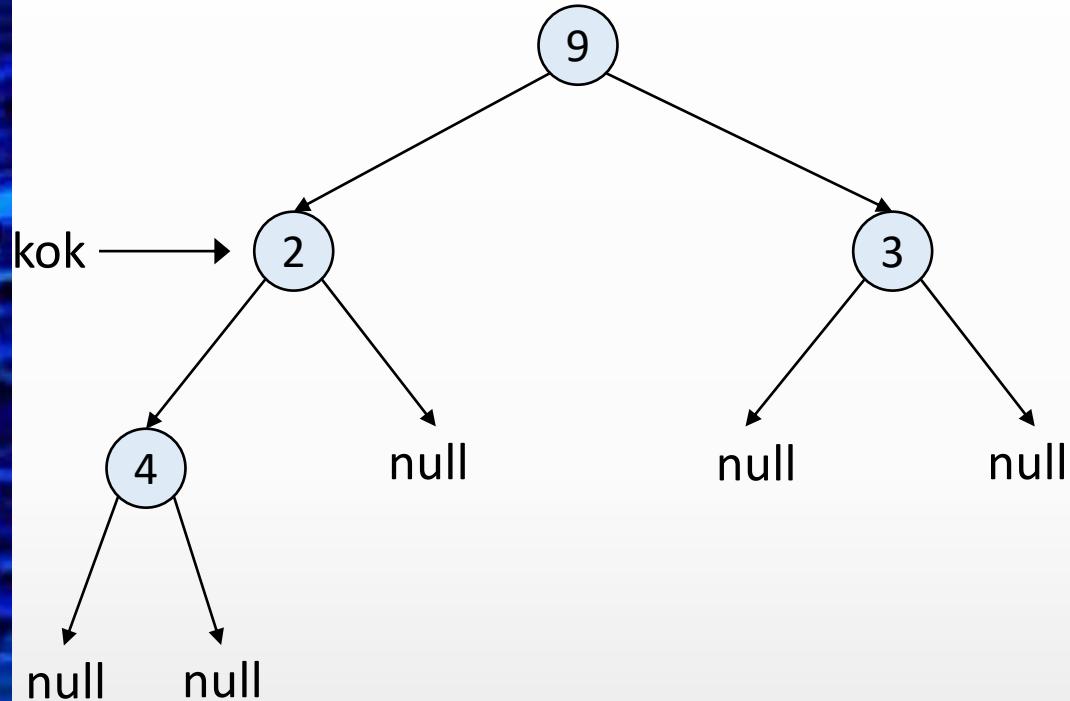
Cıktı: 9 2

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



Cıktı: 9 2



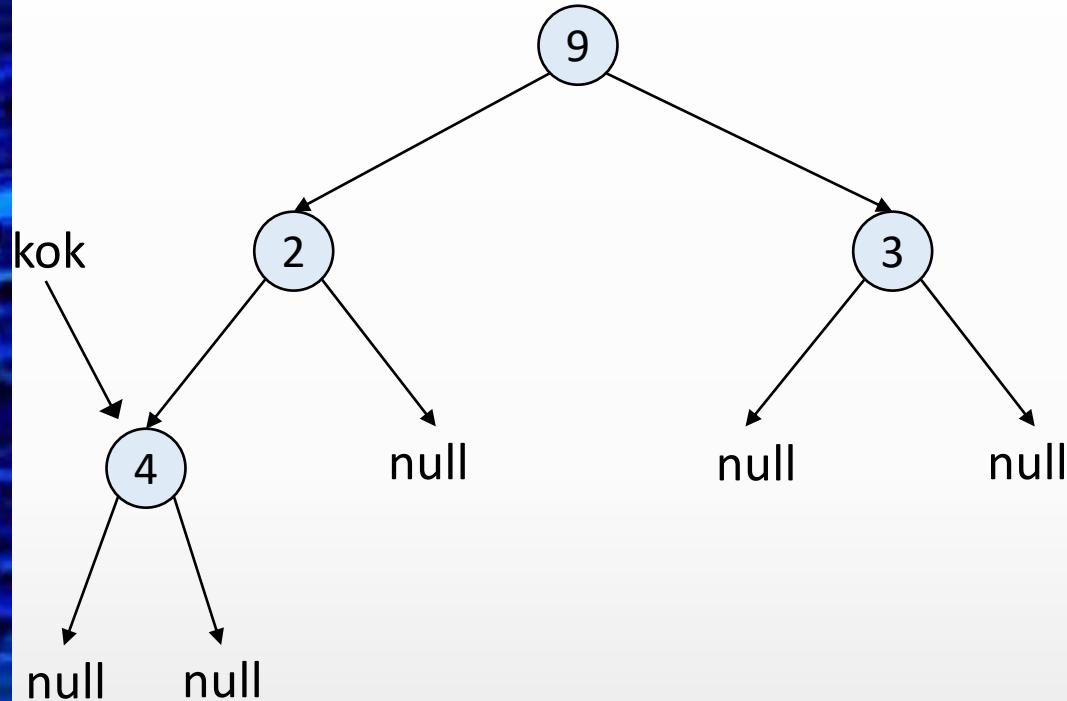
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



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



## Çağırma Yığıtı (Call Stack)



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

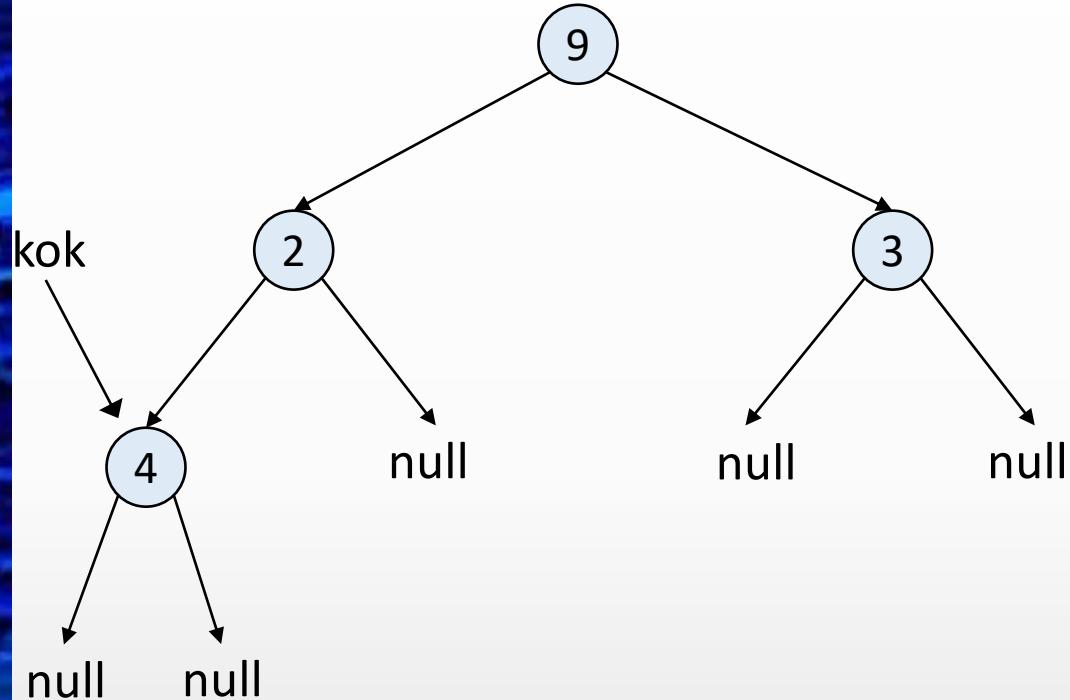


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8 }
```

Çıktı: 9 2



## Çağırma Yığıtı (Call Stack)



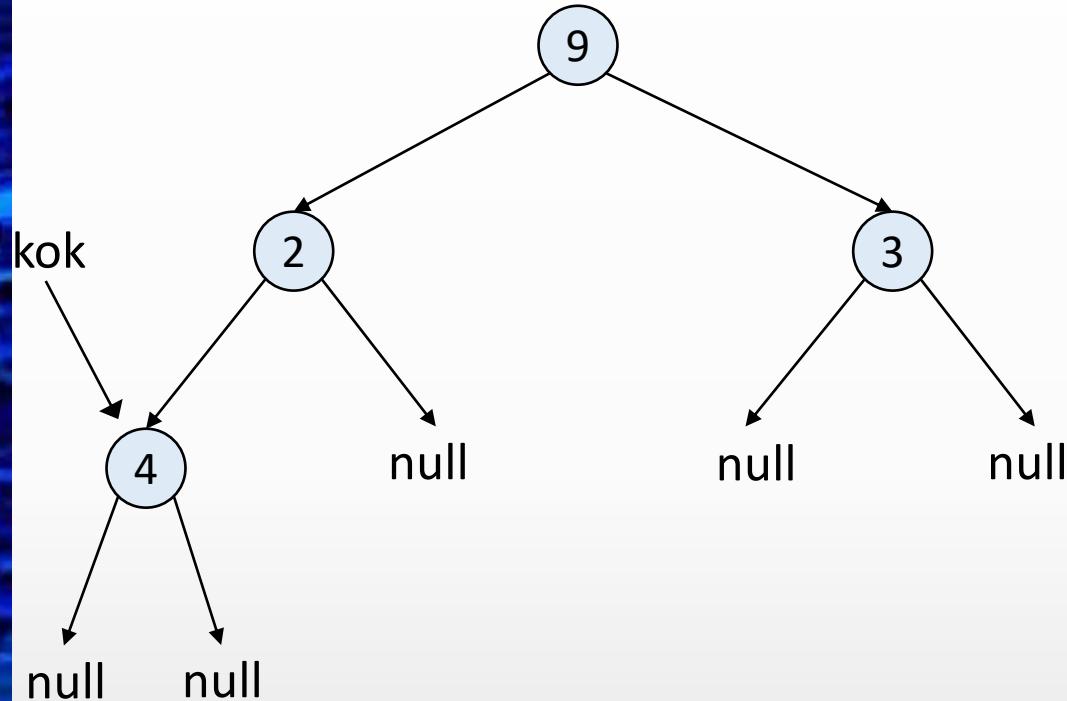
Cıktı: 9 2

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



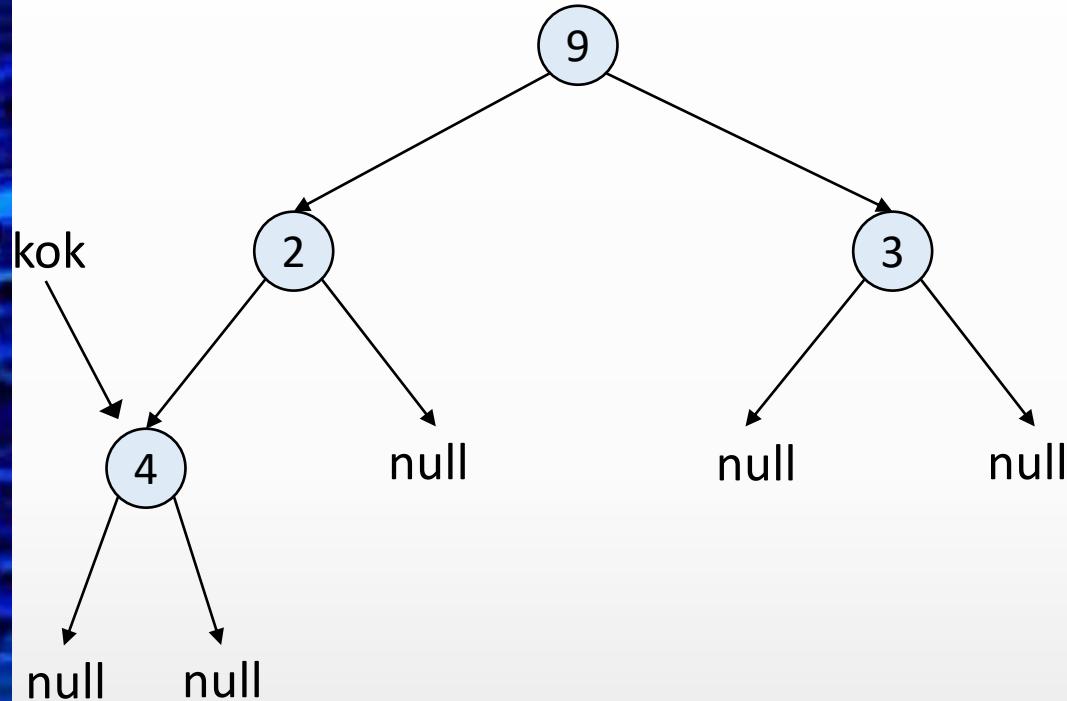
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()		4



```
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



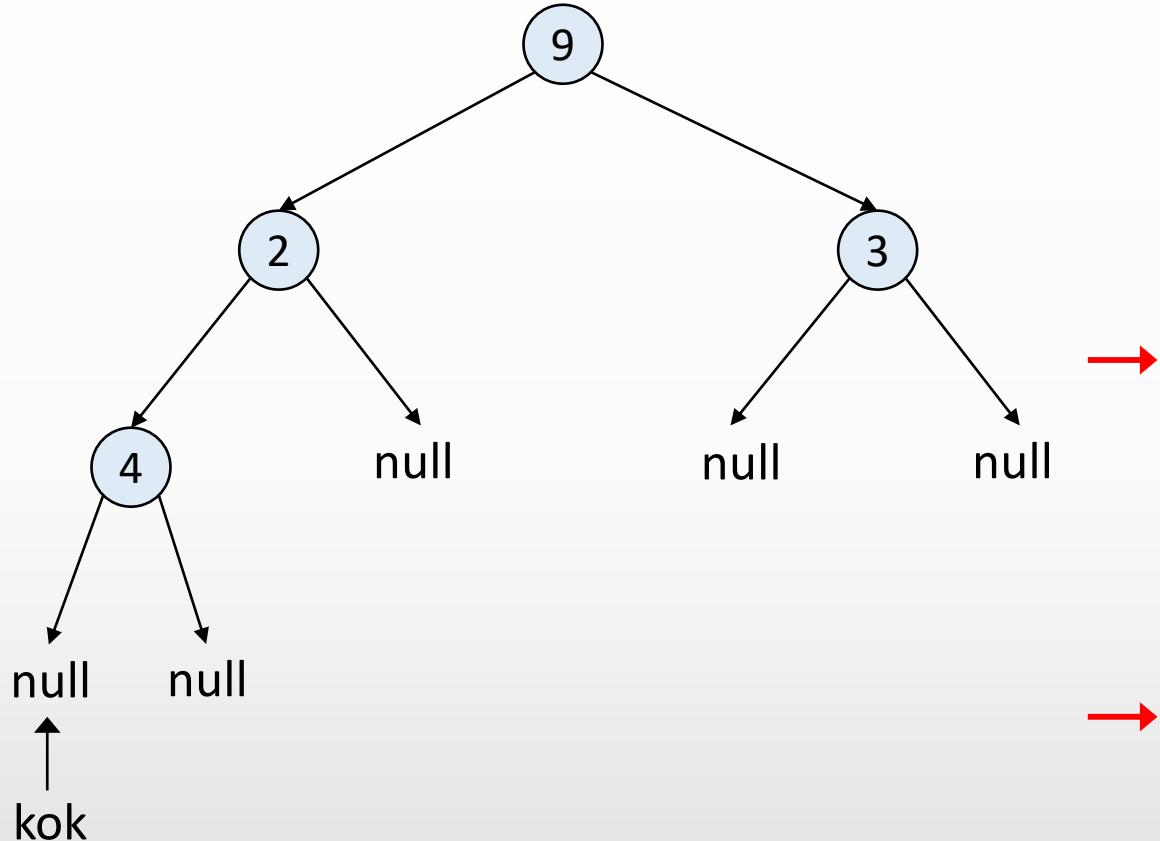
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4



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



## Çağırma Yığıtı (Call Stack)



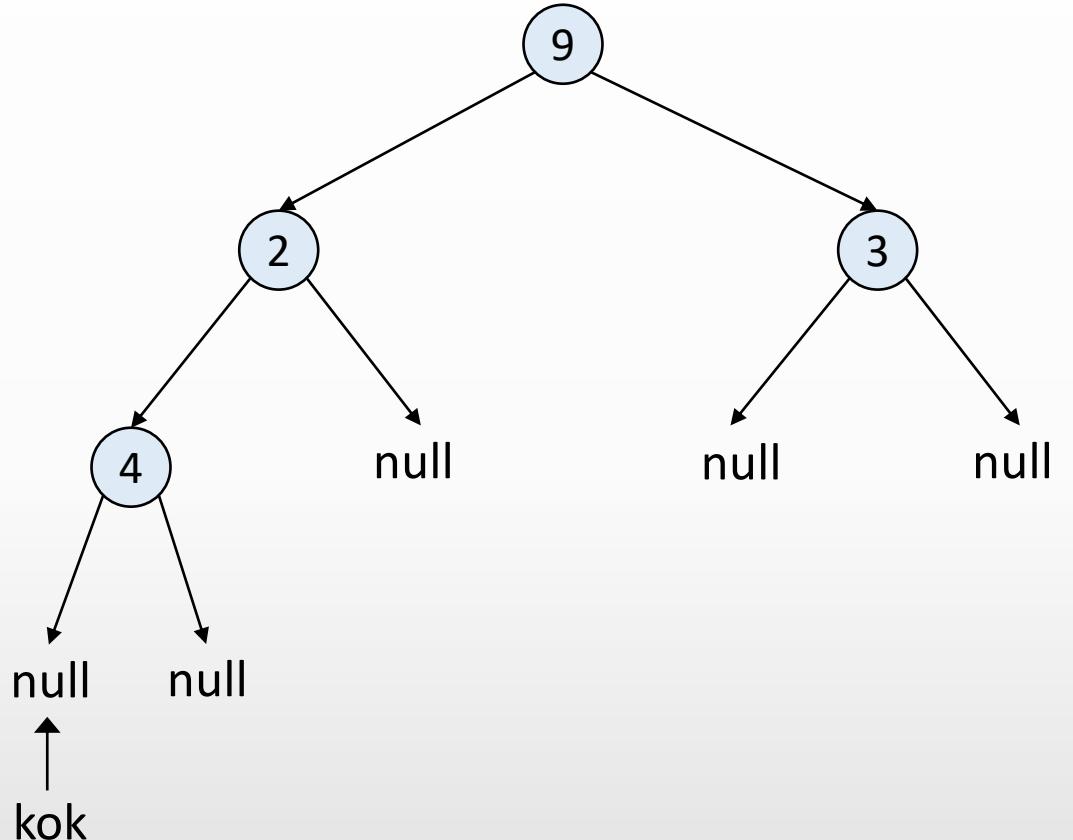
Cıktı: 9 2 4

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)



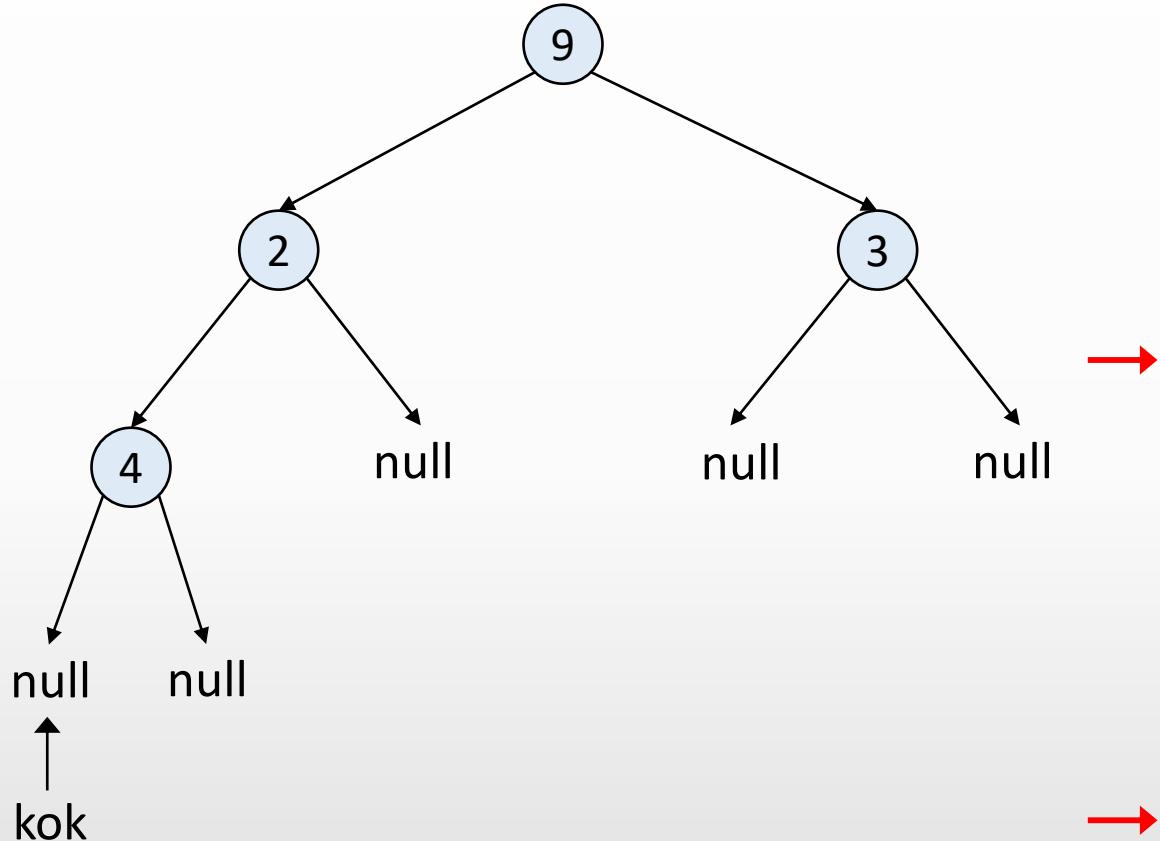
Cıktı: 9 2 4

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)



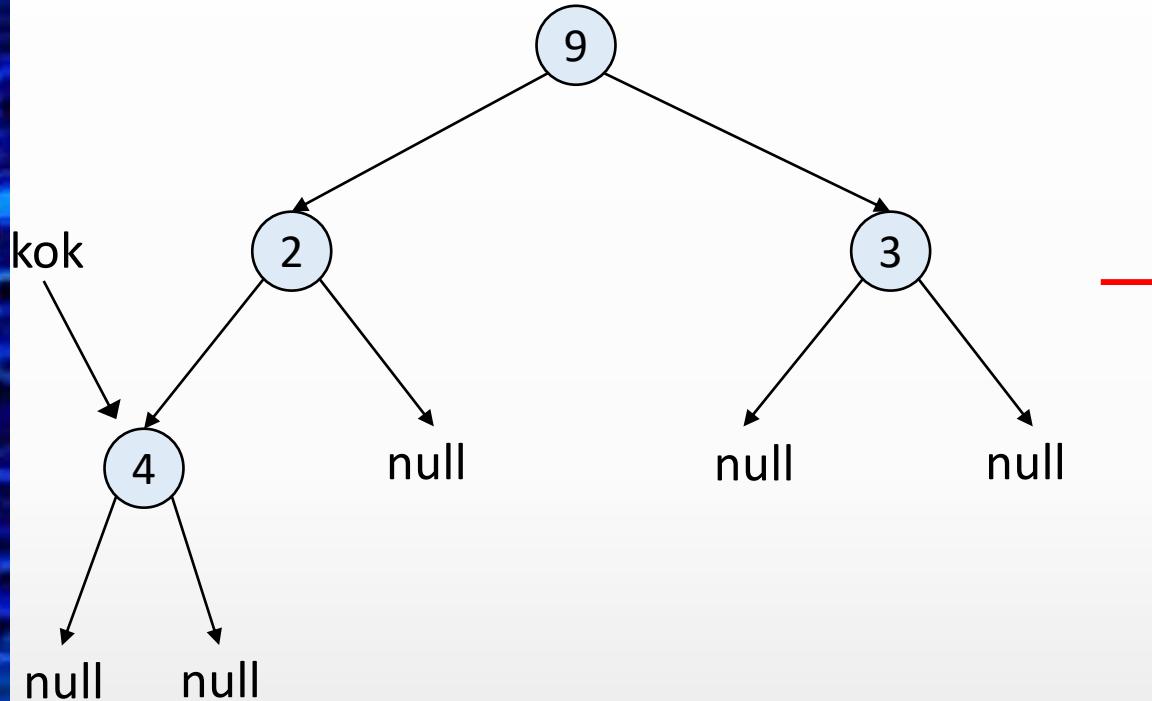
Cıktı: 9 2 4

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



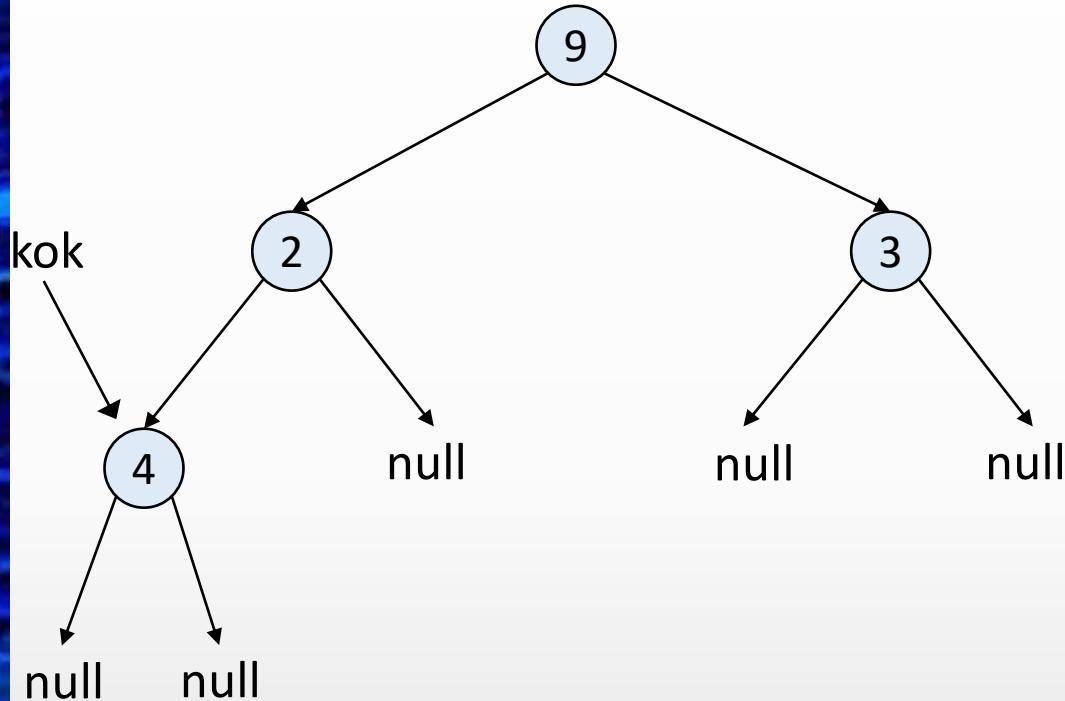
Cıktı: 9 2 4

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)

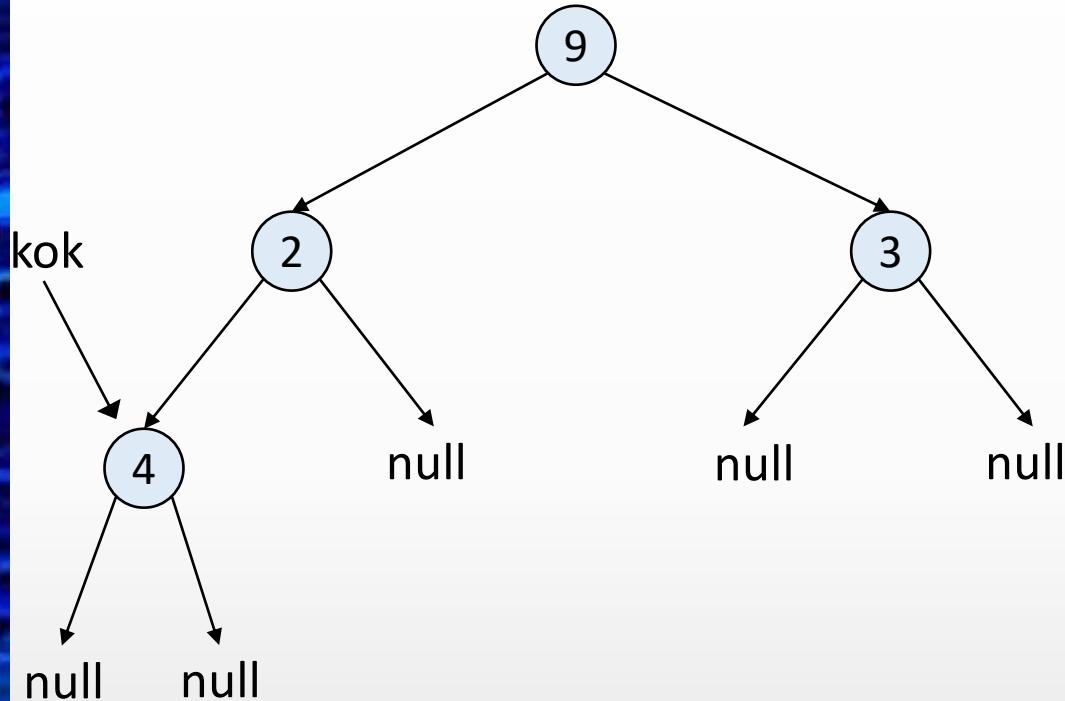


Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4

```
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



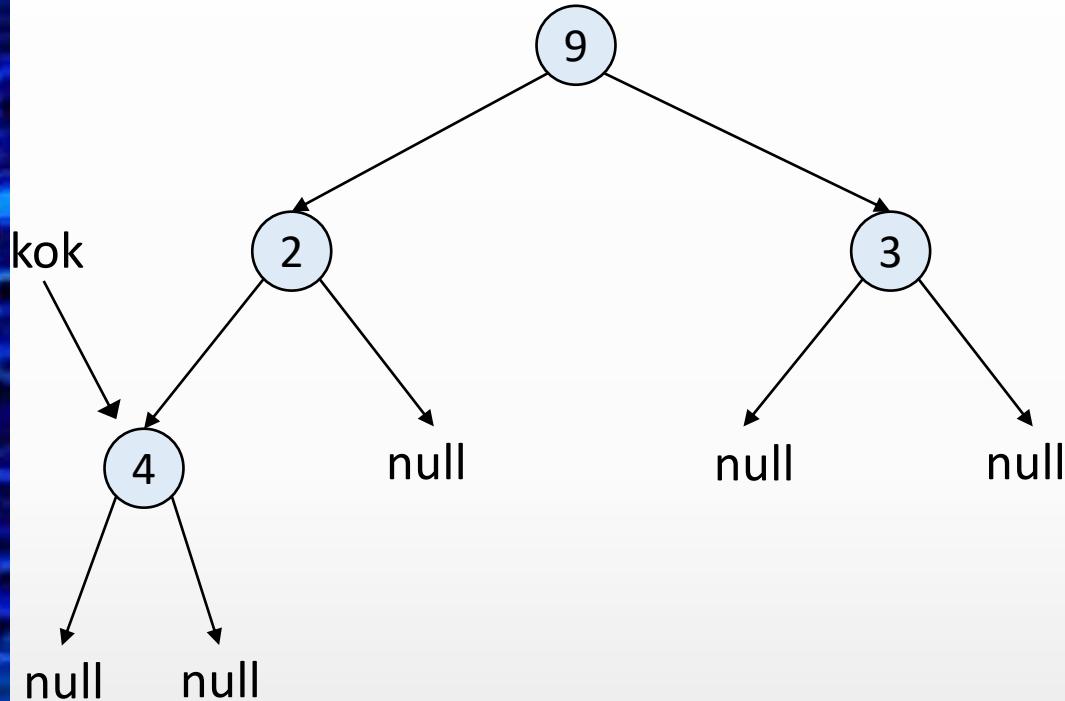
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4



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



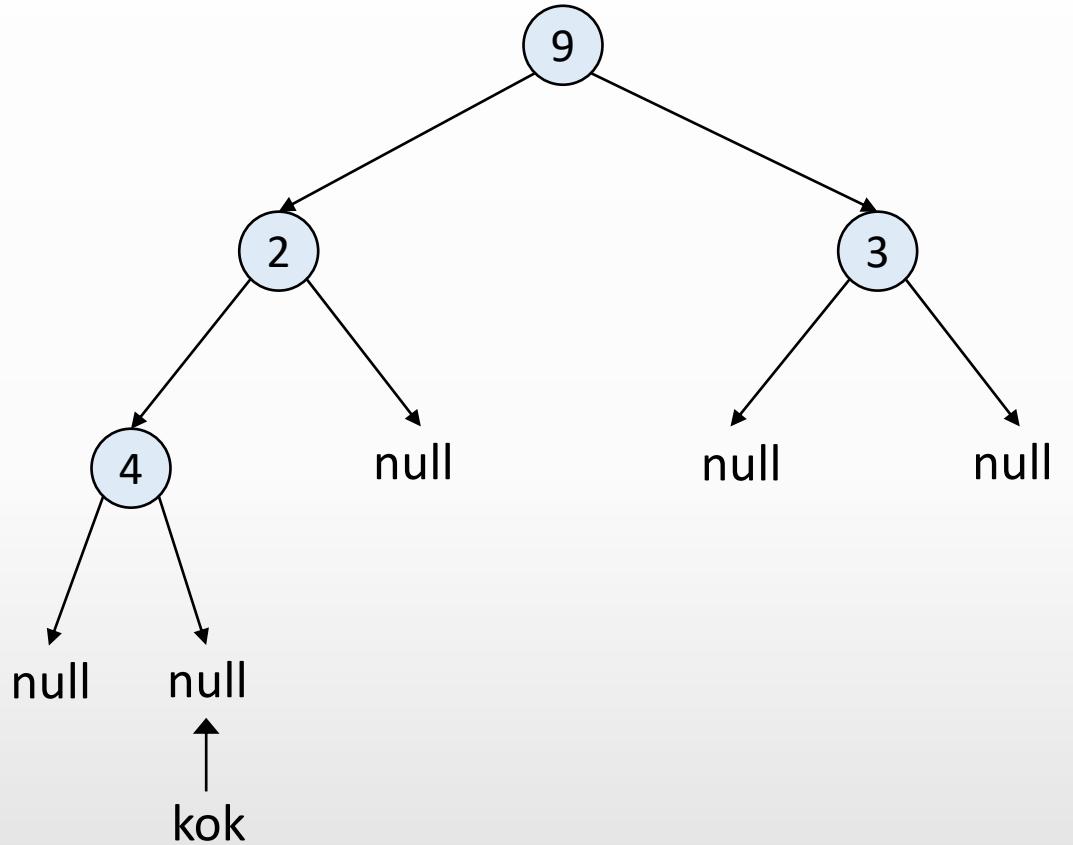
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4



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



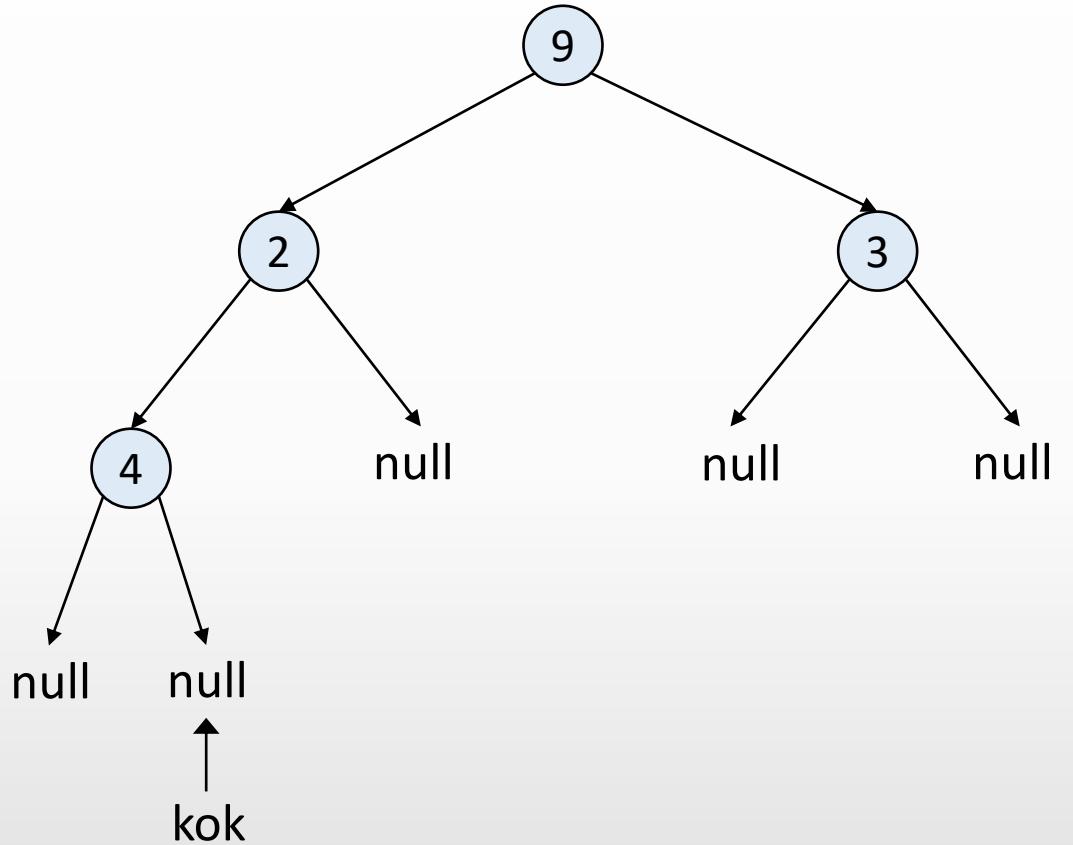
Çıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	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)



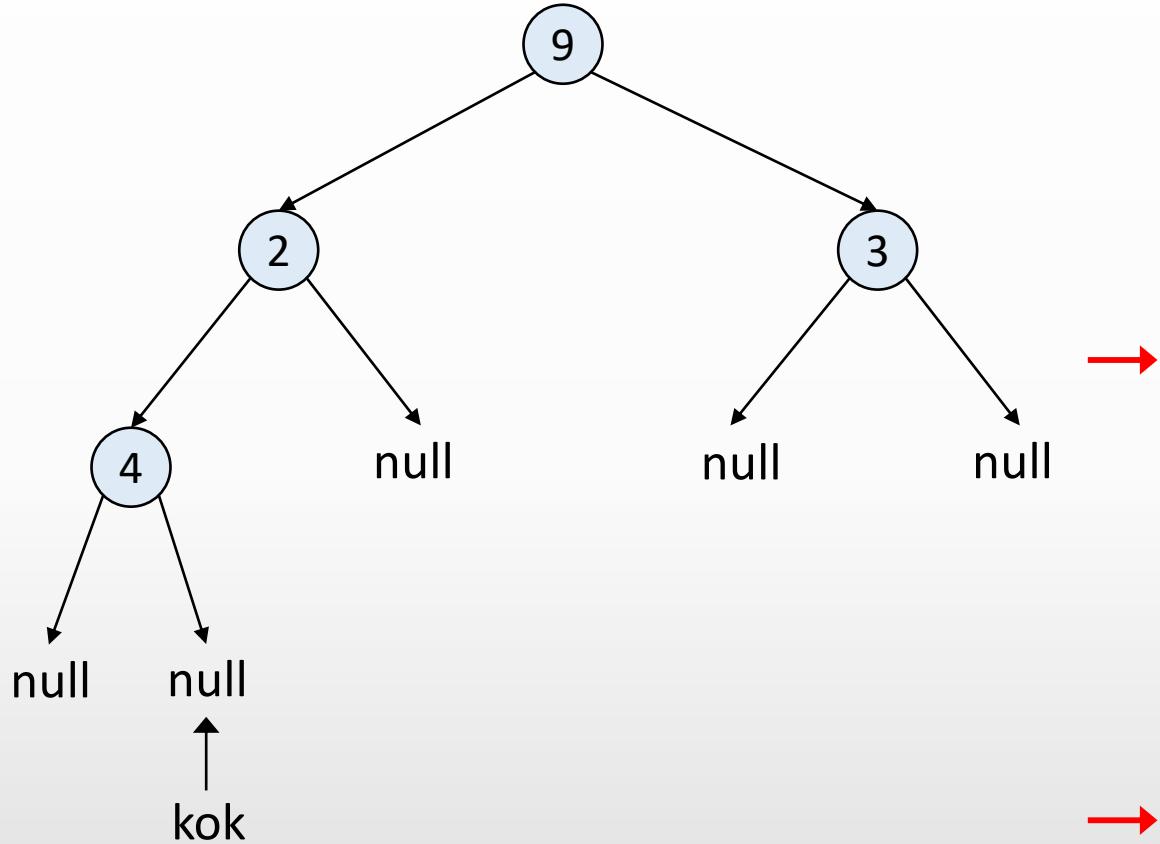
Cıktı: 9 2 4

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



## Çağırma Yığıtı (Call Stack)



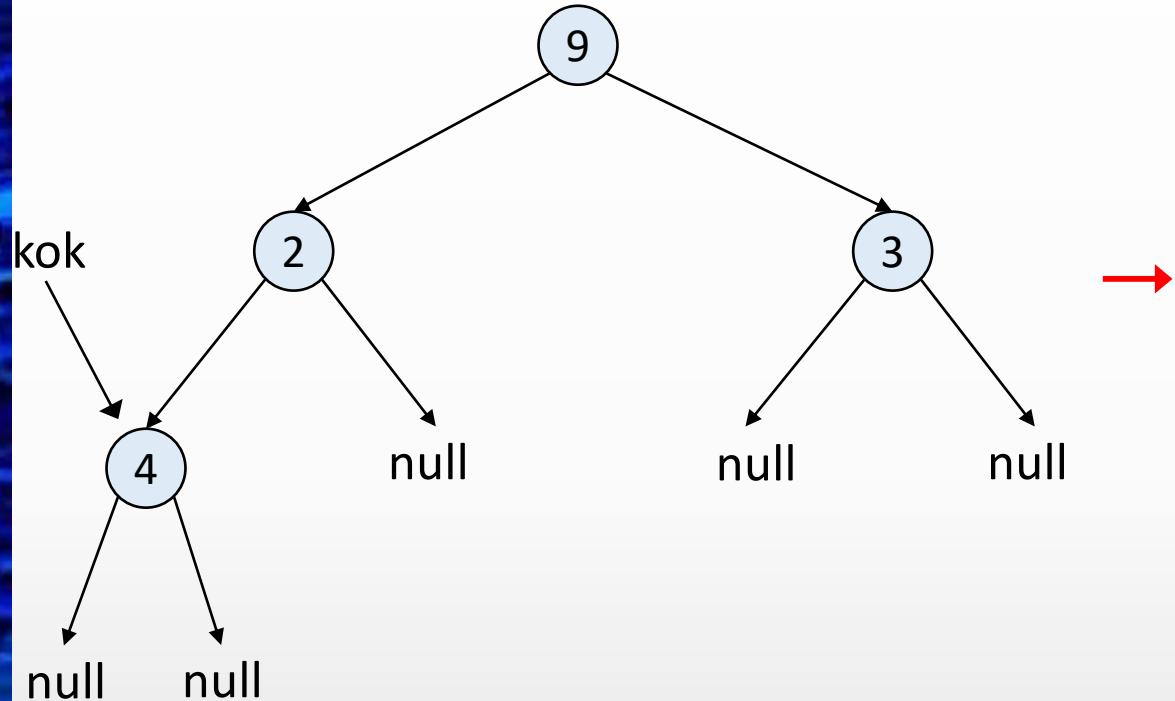
Çıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



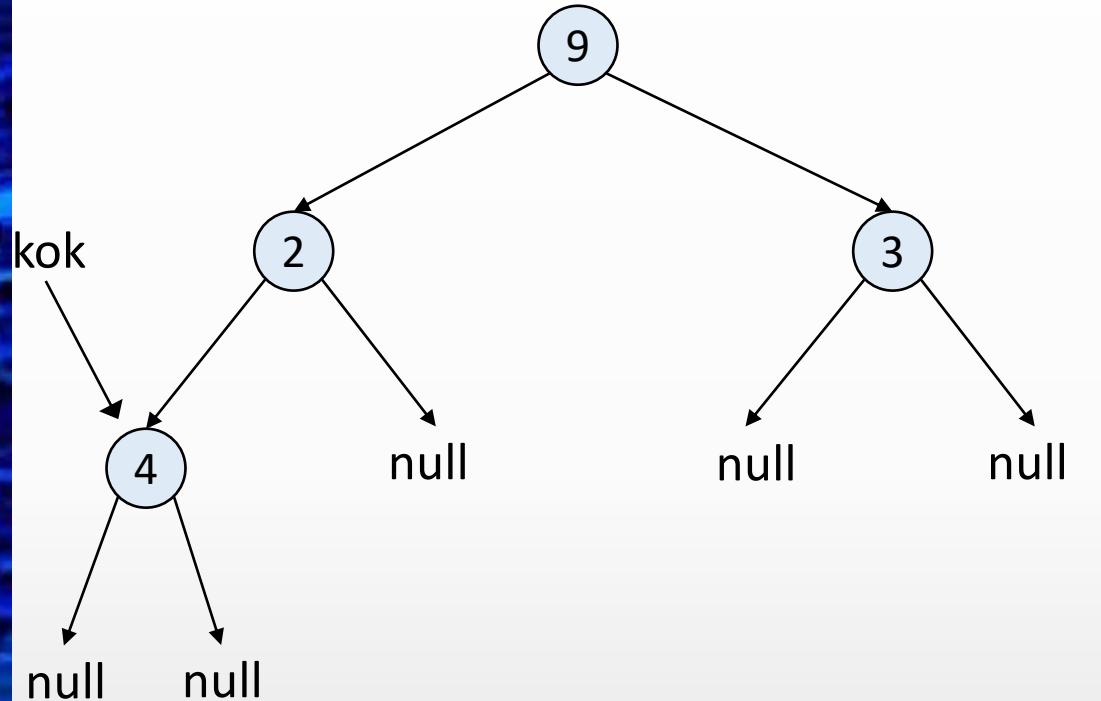
Cıktı: 9 2 4

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



Cıktı: 9 2 4



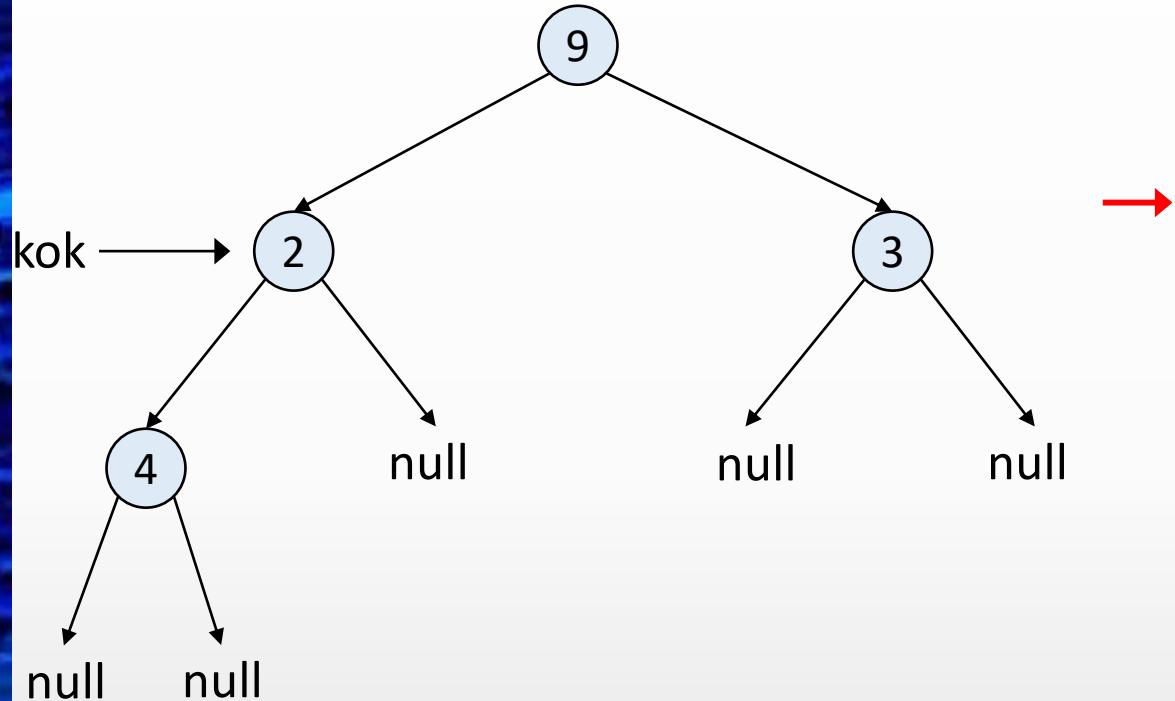
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	7	4



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



## Çağırma Yığıtı (Call Stack)



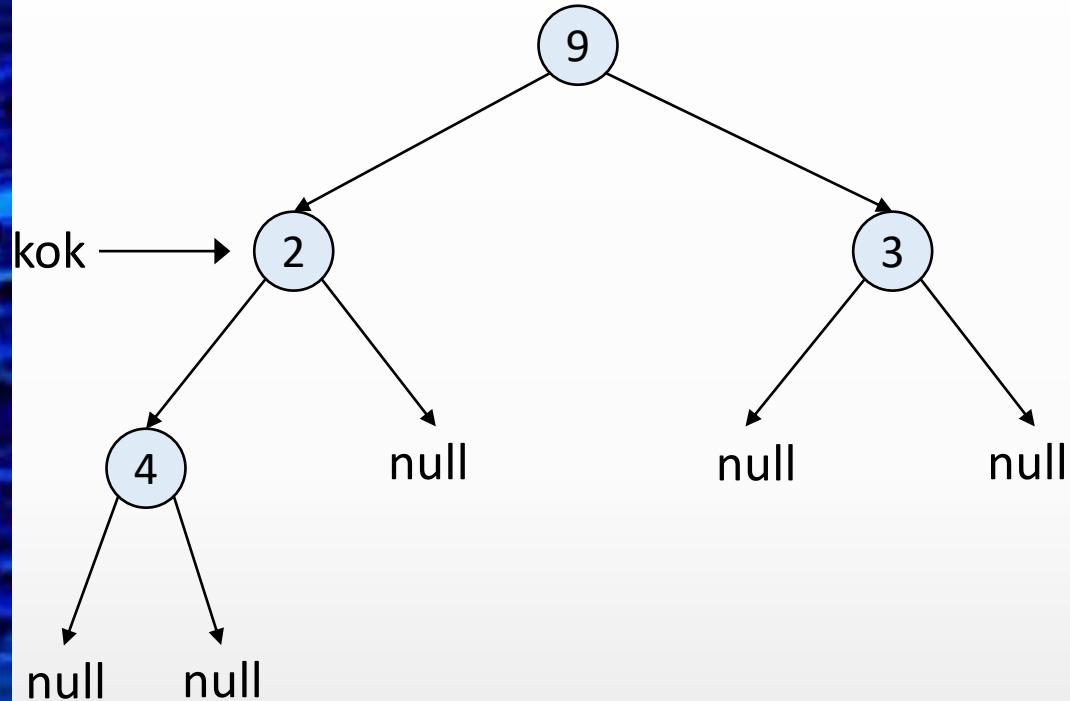
Cıktı: 9 2 4

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

```
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)



Cıktı: 9 2 4



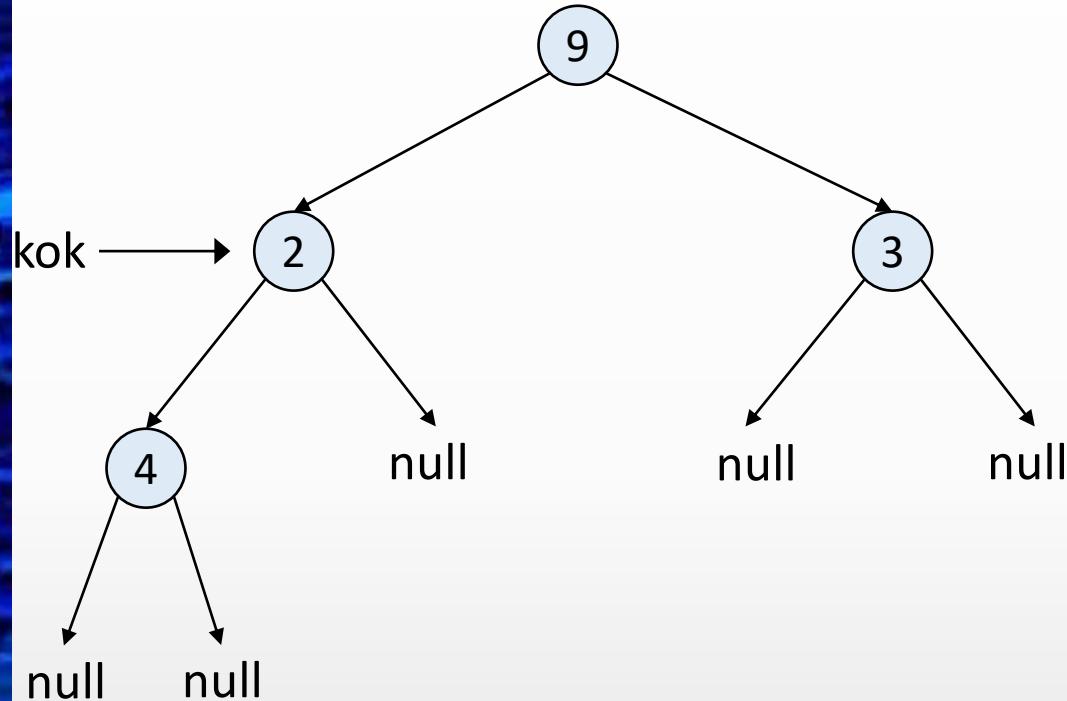
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



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



## Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4



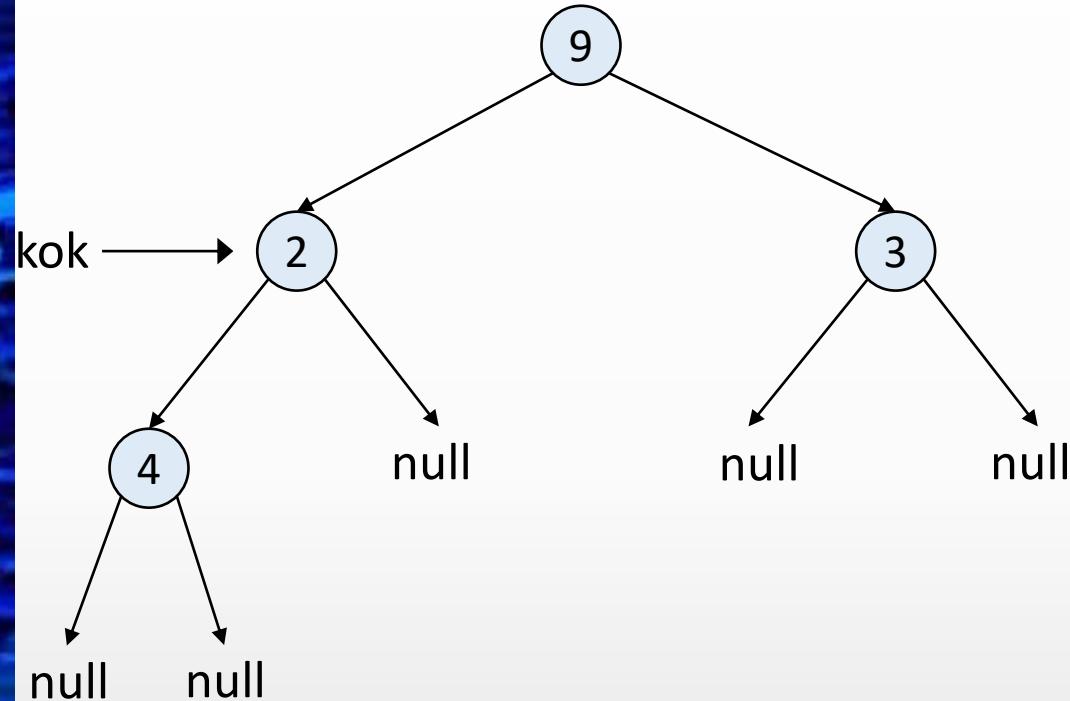
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



```
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



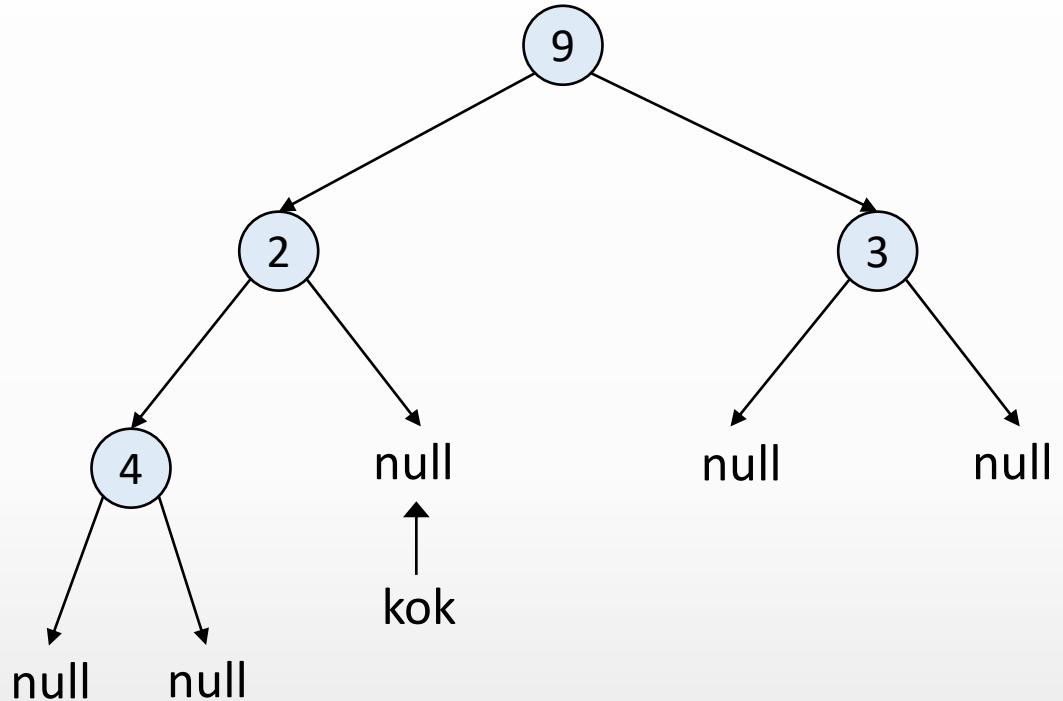
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2



```
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

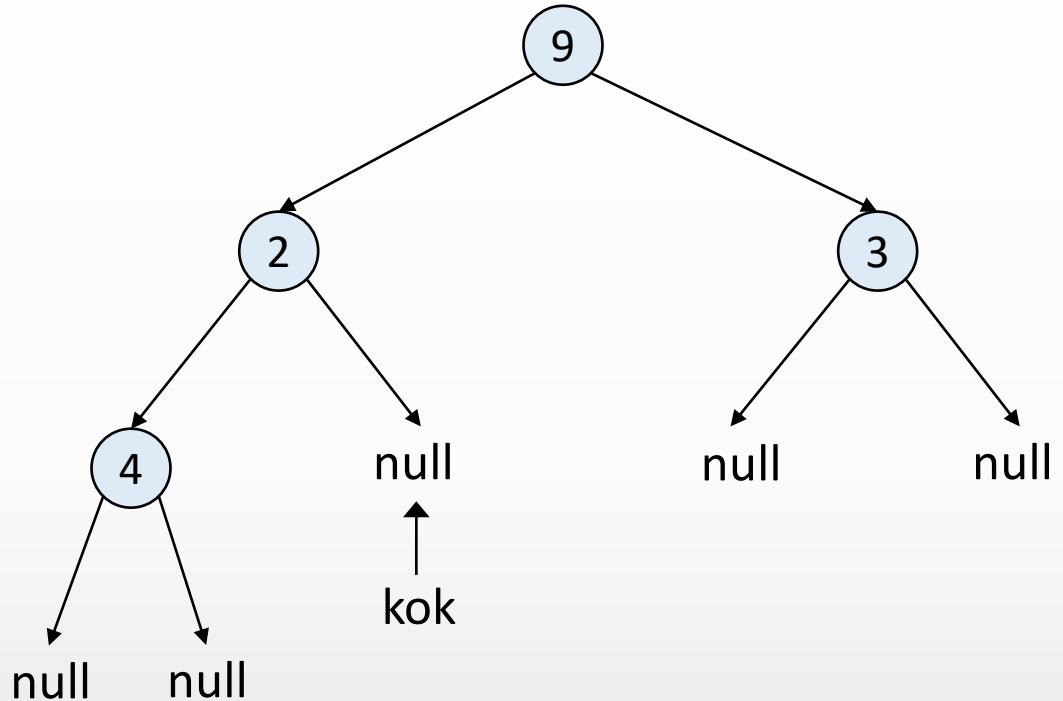
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2
kokBasta()		null

→

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



## Çağırma Yığıtı (Call Stack)



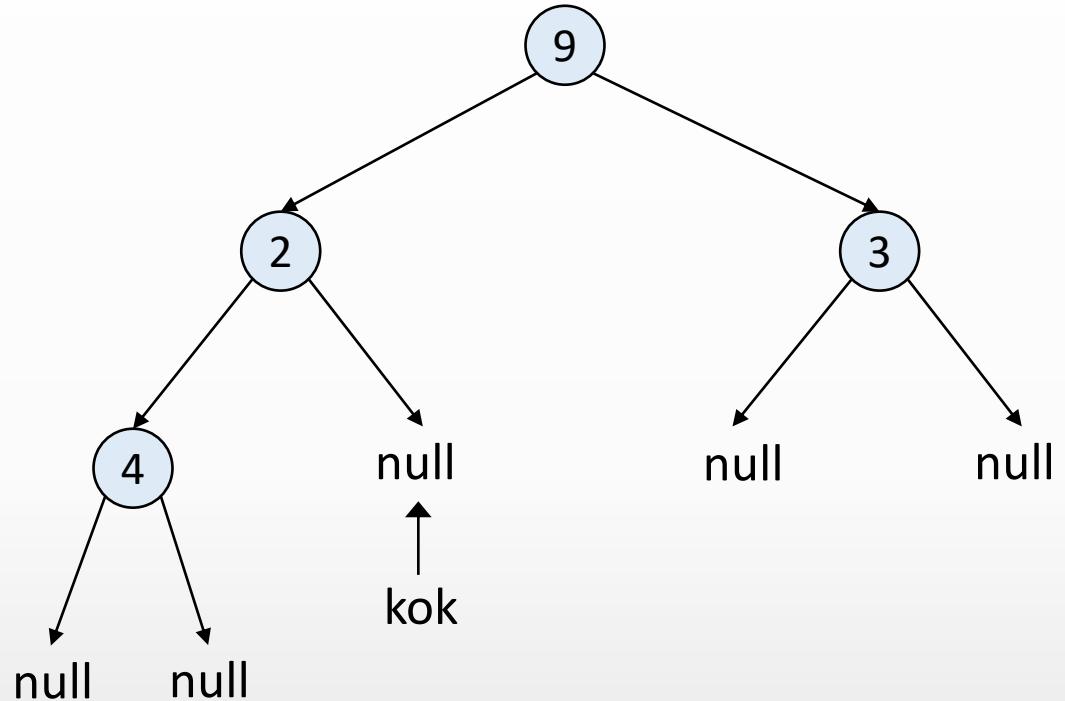
Cıktı: 9 2 4

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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5     System.out.print(kok.veri + " ");  
6     kokBasta(kok.sol);  
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8 }
```



## Çağırma Yığıtı (Call Stack)

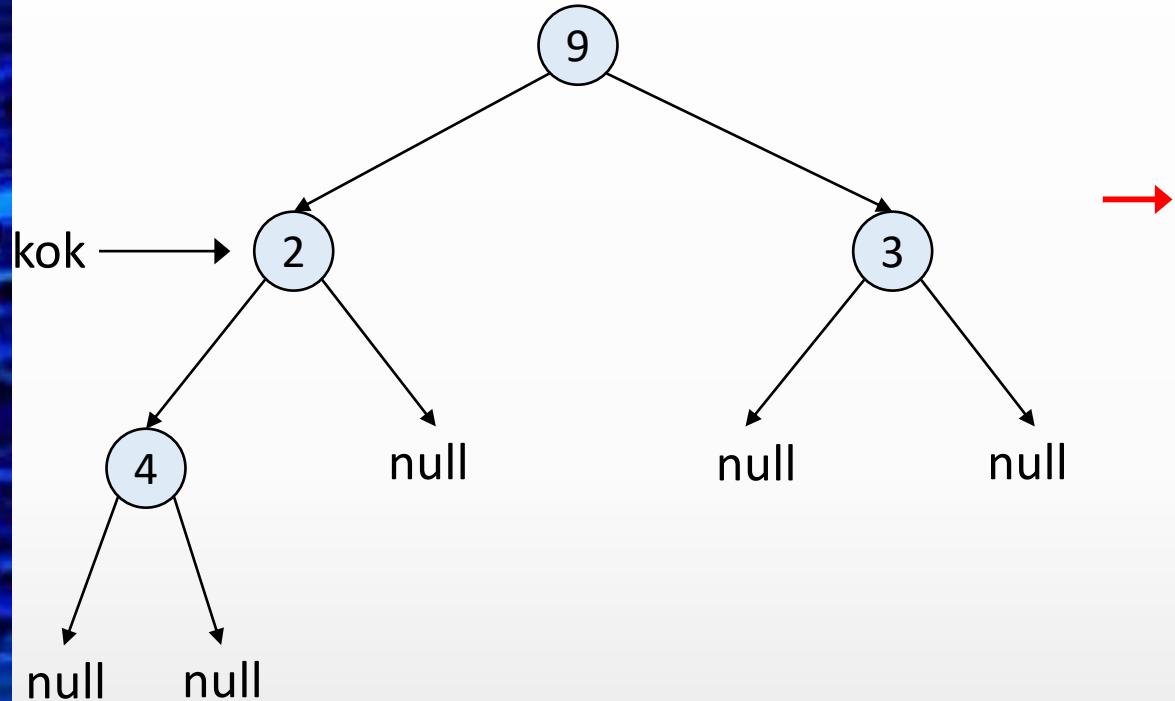


Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2
kokBasta()		null

```
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)



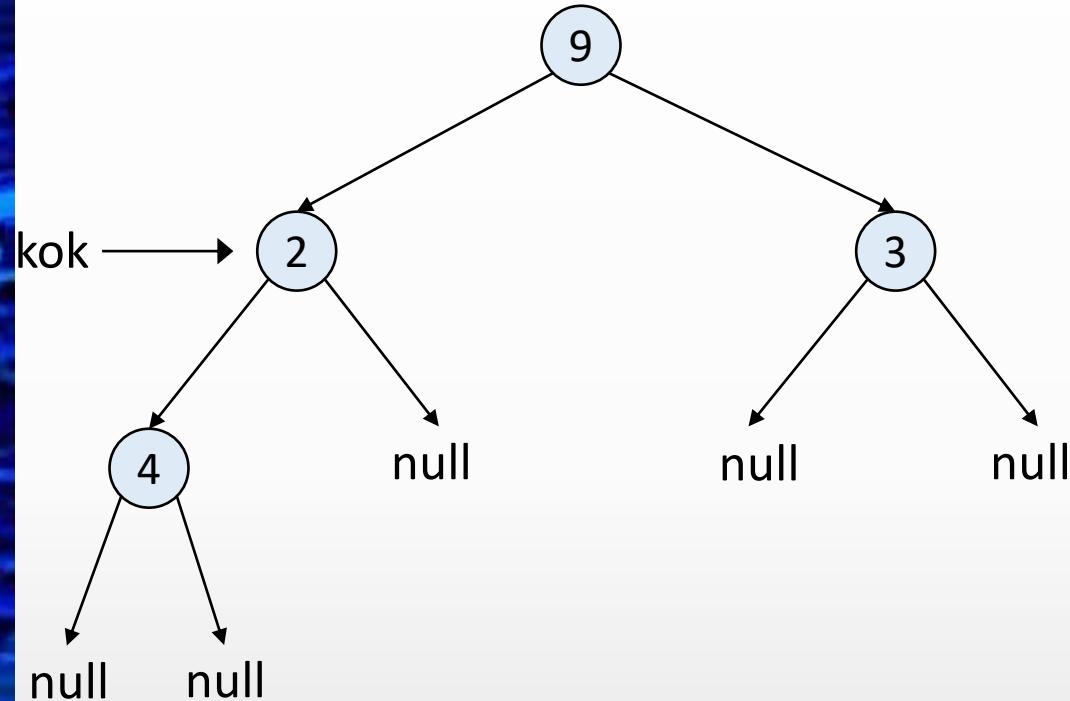
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



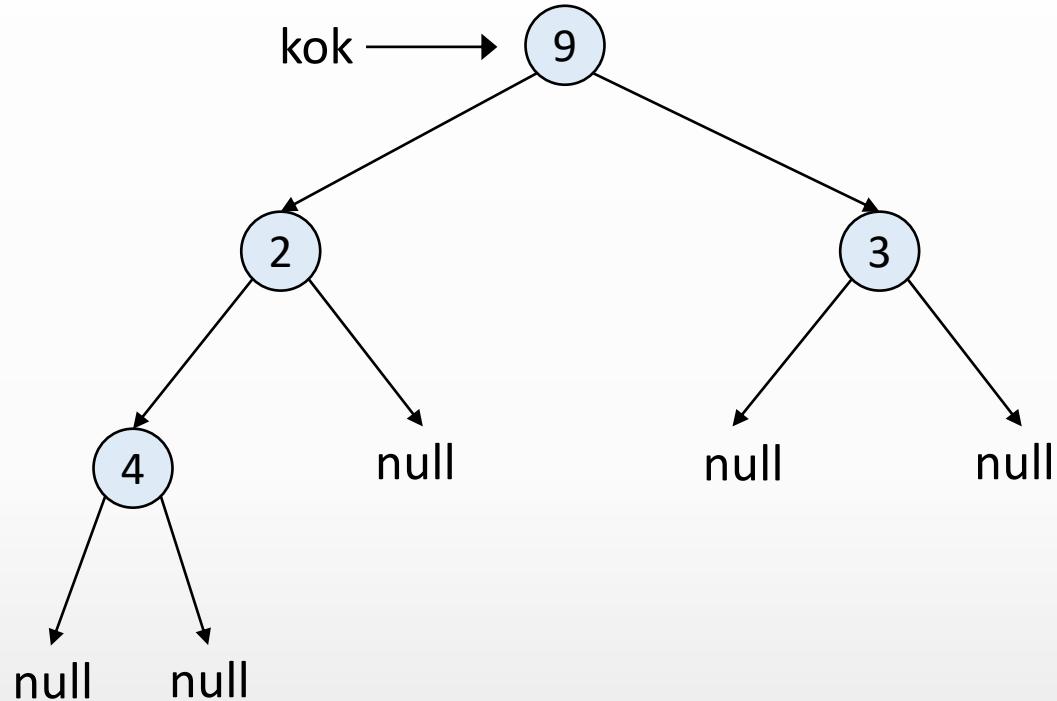
Cıktı: 9 2 4

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)



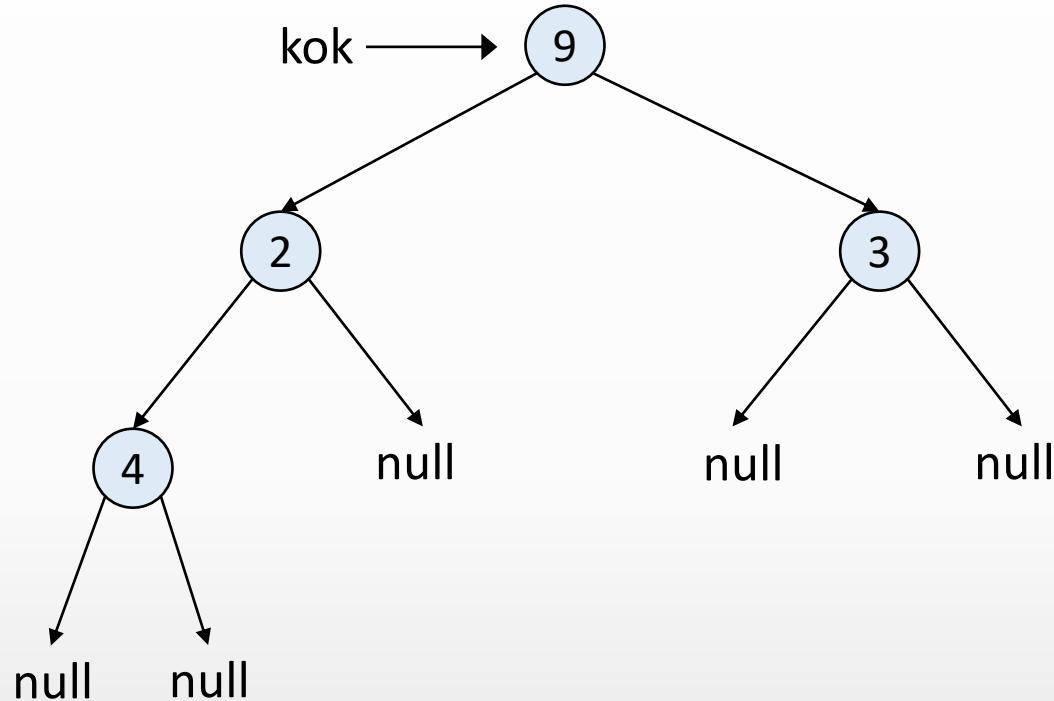
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

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



## Çağırma Yığıtı (Call Stack)



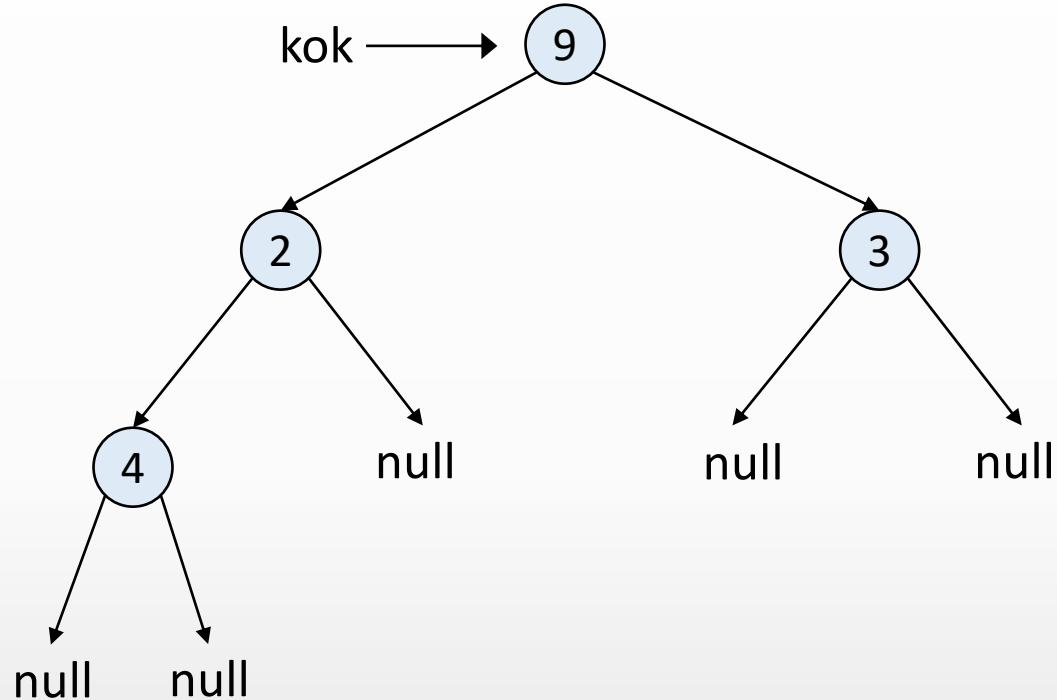
Çıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

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



## Çağırma Yığıtı (Call Stack)



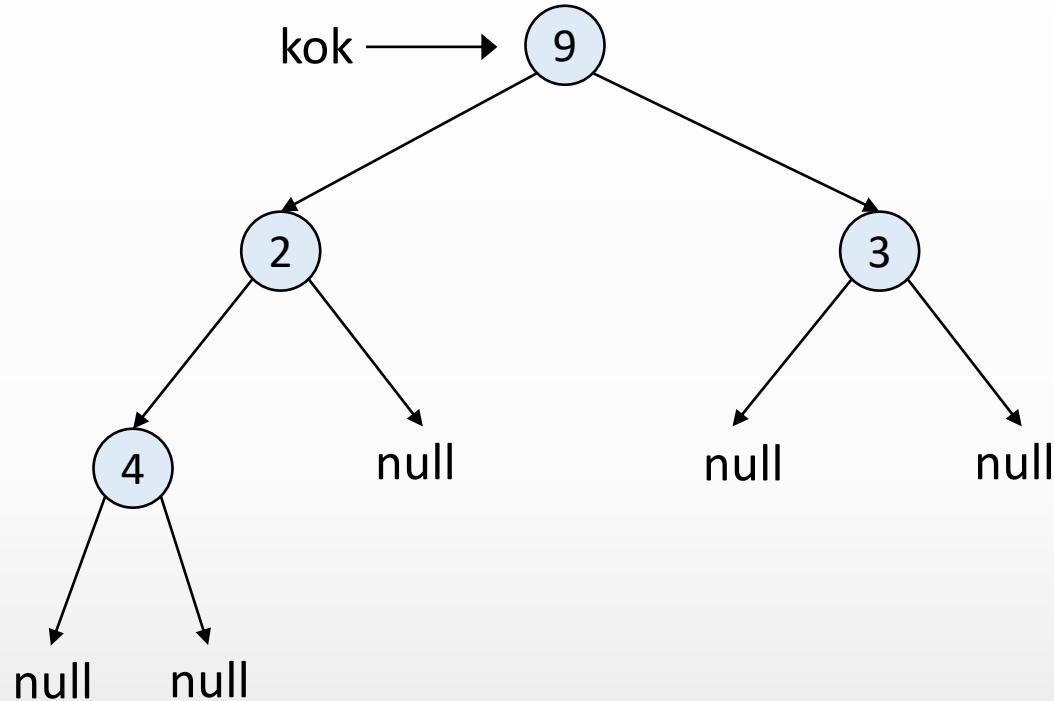
Çıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

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



## Çağırma Yığıtı (Call Stack)



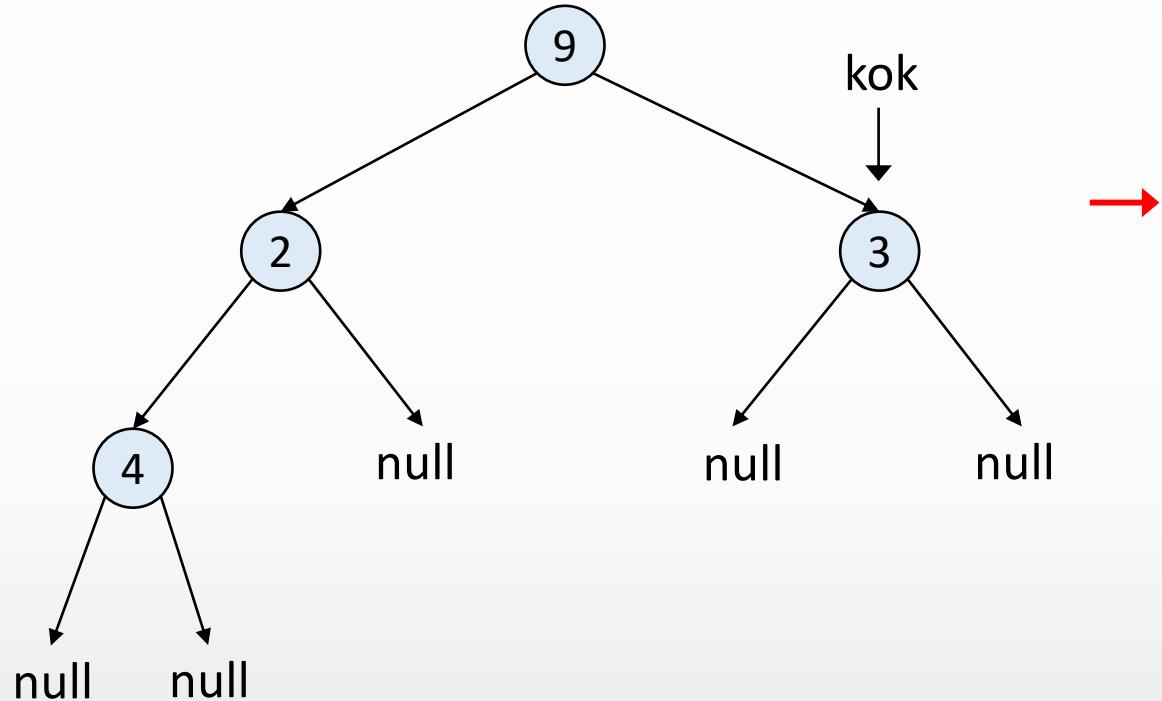
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9



```
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)



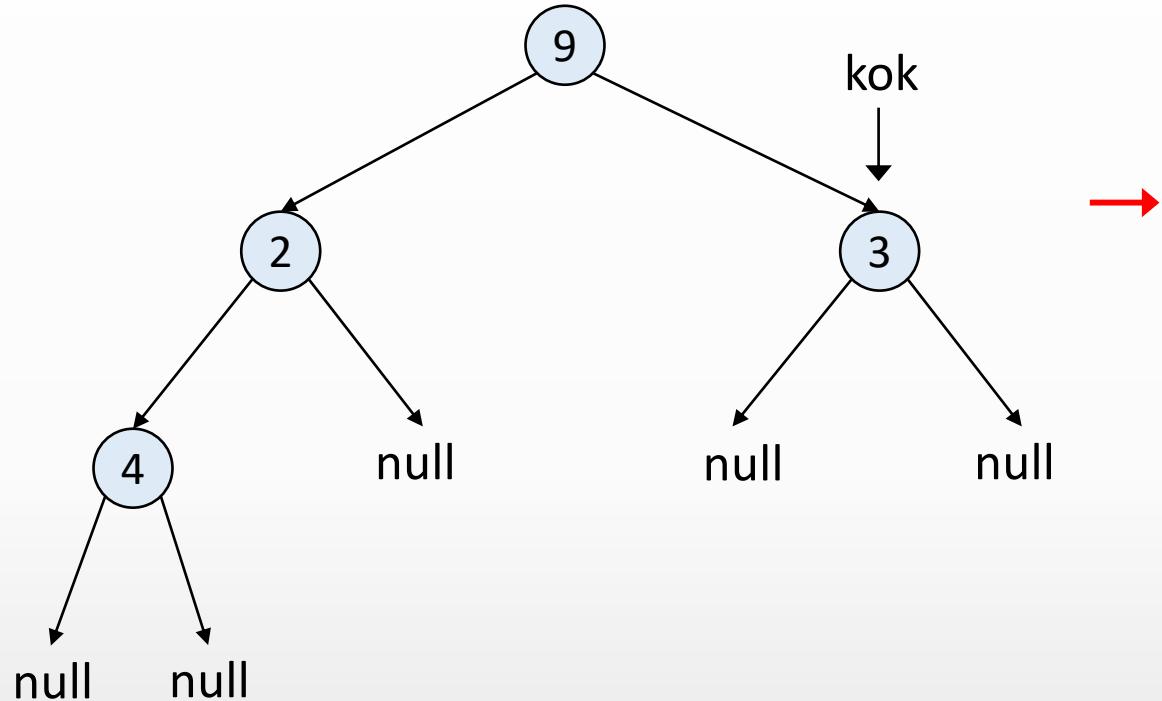
Çıktı: 9 2 4

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)



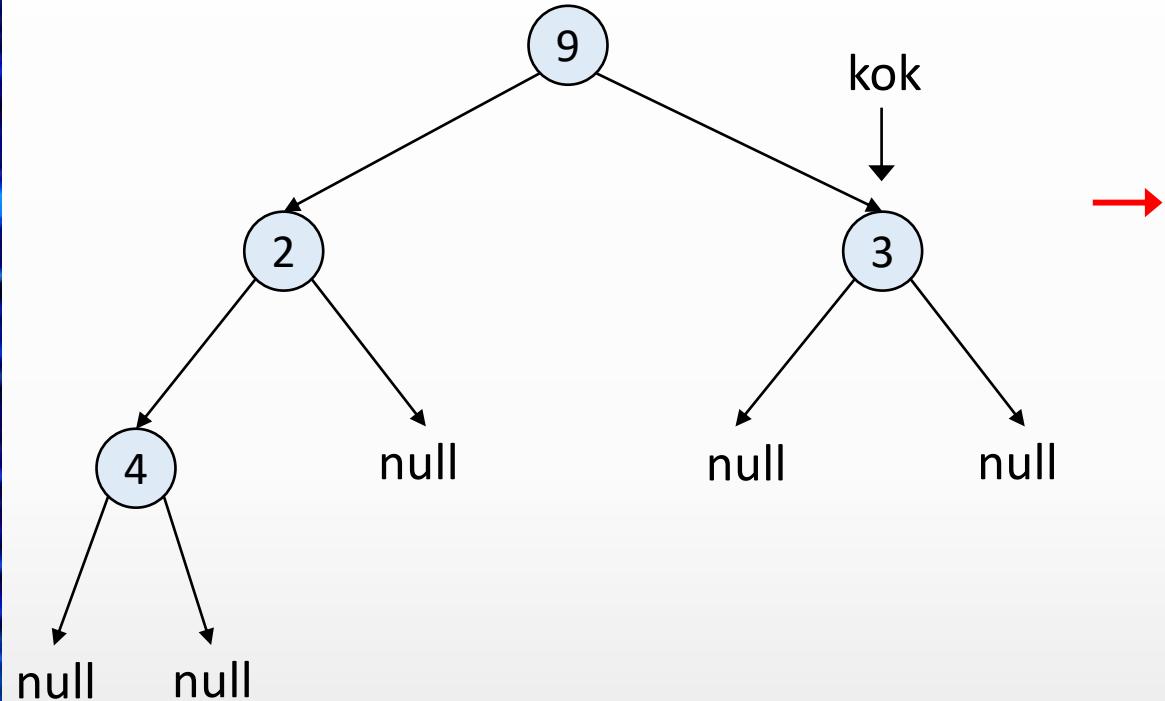
Çıktı: 9 2 4

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 }
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## Çağırma Yığıtı (Call Stack)



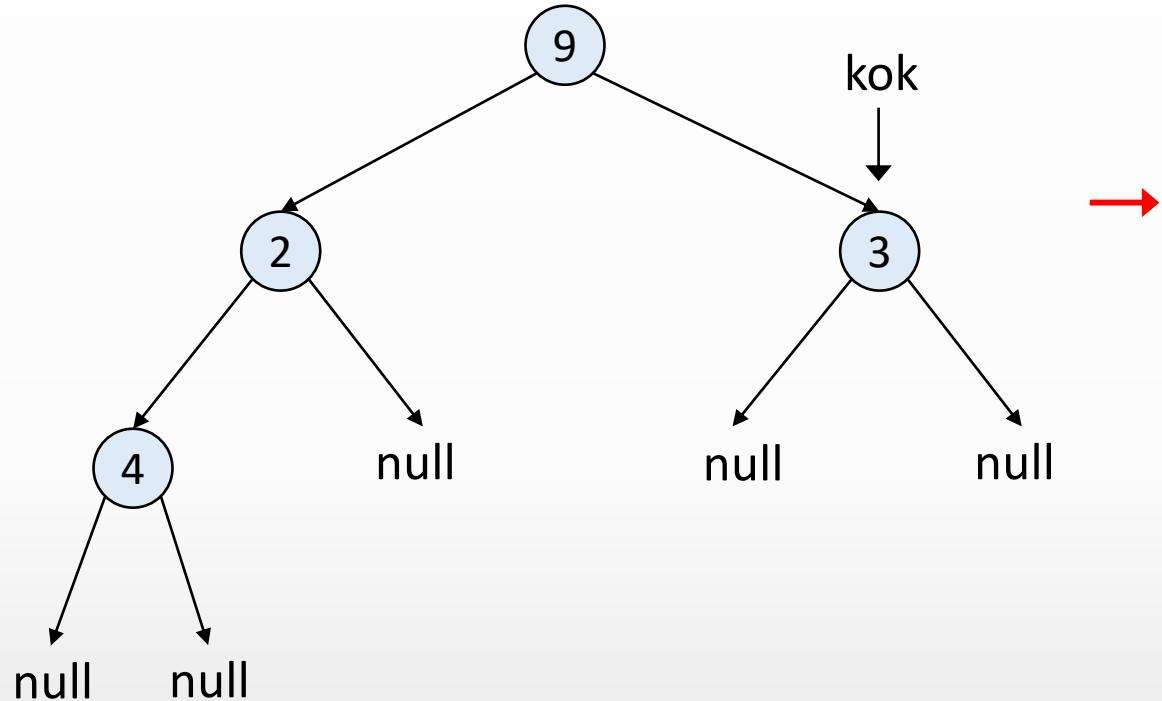
Cıktı: 9 2 4

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 + " ");  
6     kokBasta(kok.sol);  
7     kokBasta(kok.sag);  
8 }
```



## Çağırma Yığıtı (Call Stack)



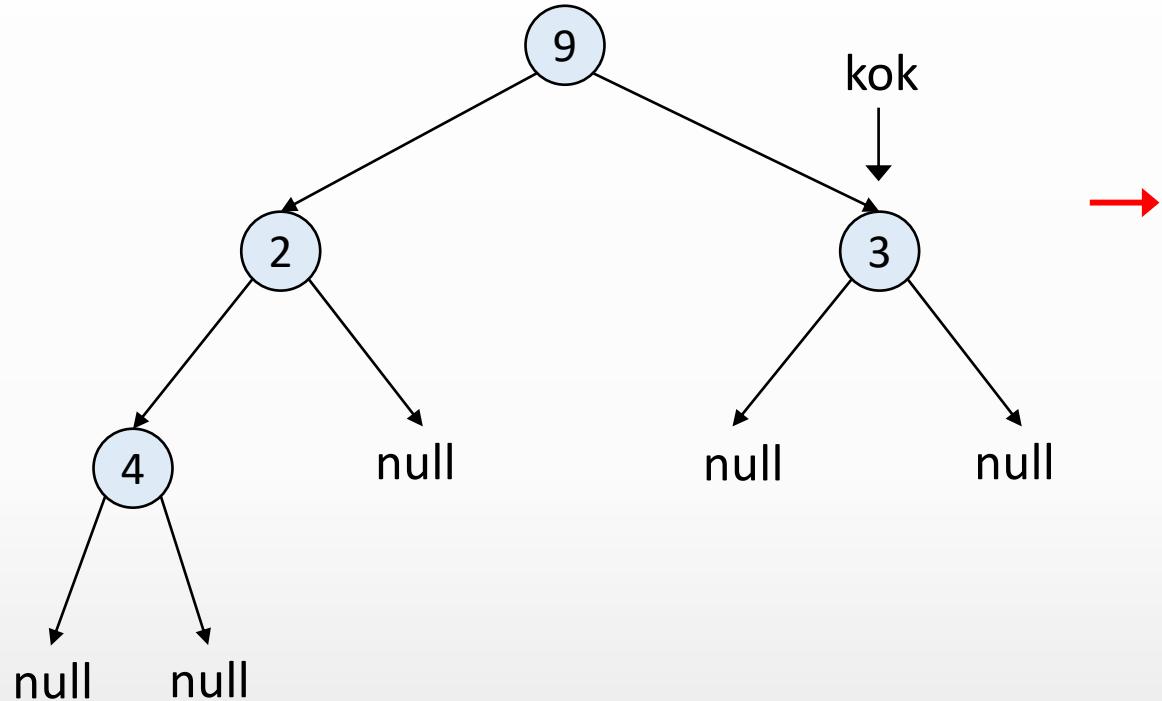
Cıktı: 9 2 4 3

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)



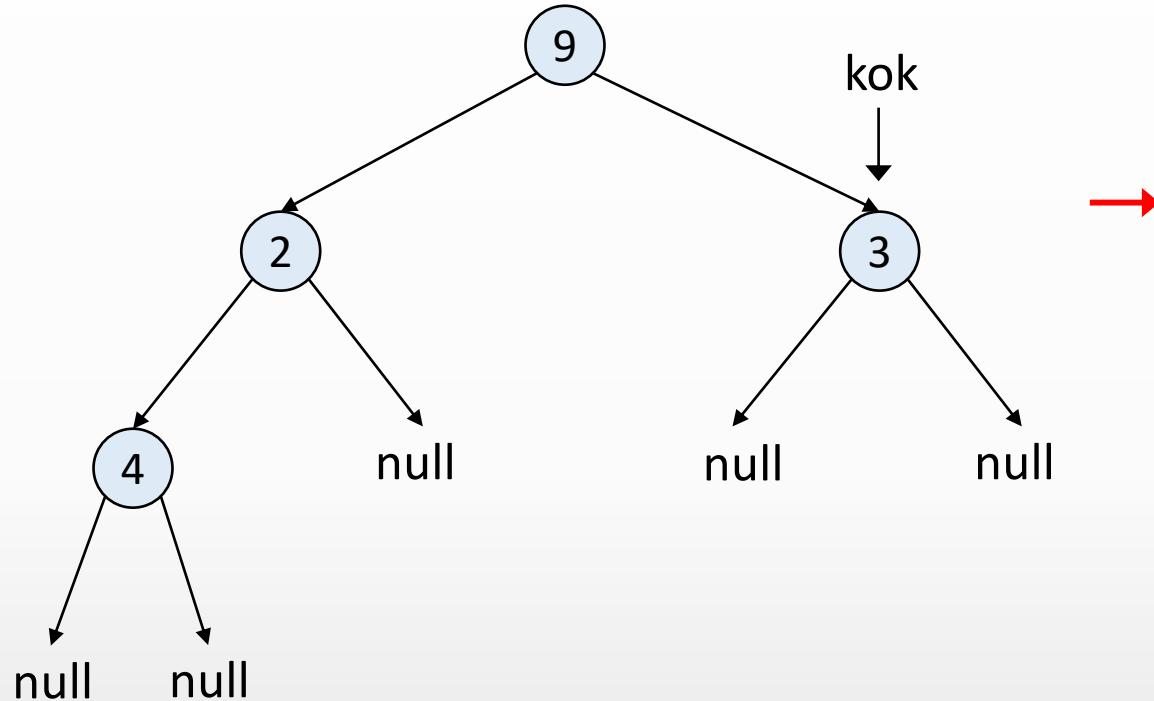
Cıktı: 9 2 4 3

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)



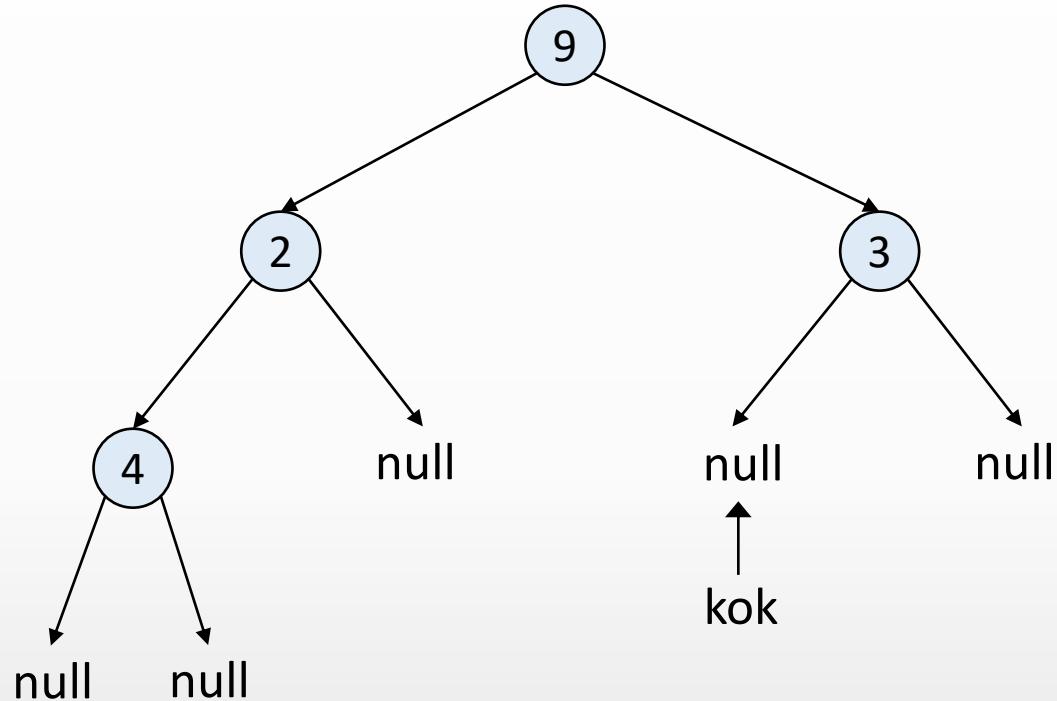
Çıktı: 9 2 4 3

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

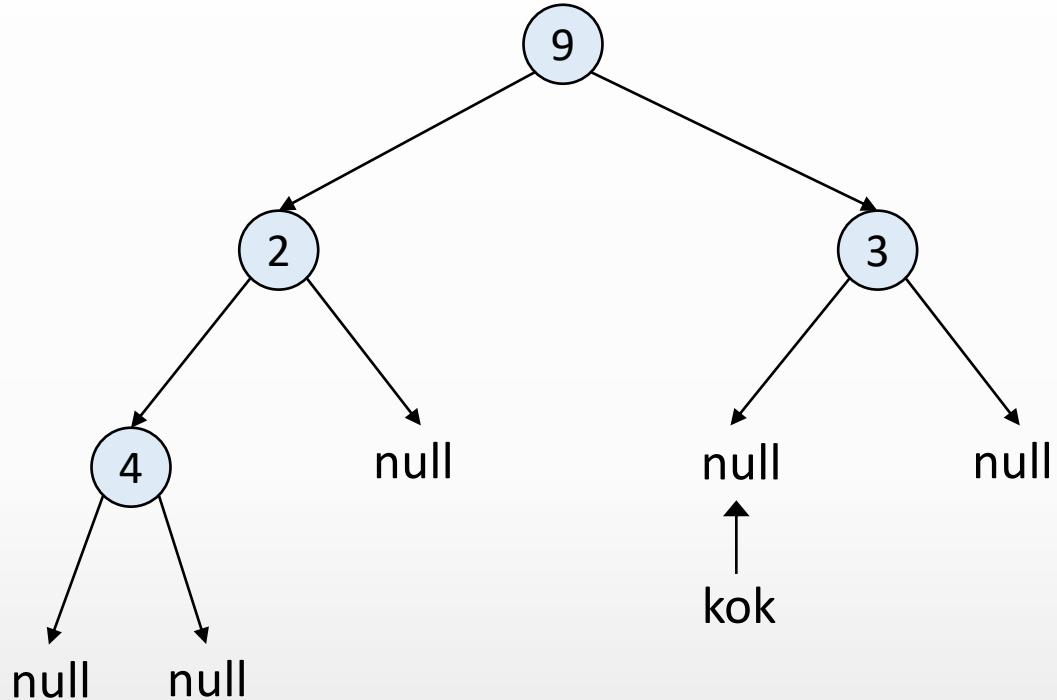
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null

→

```
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



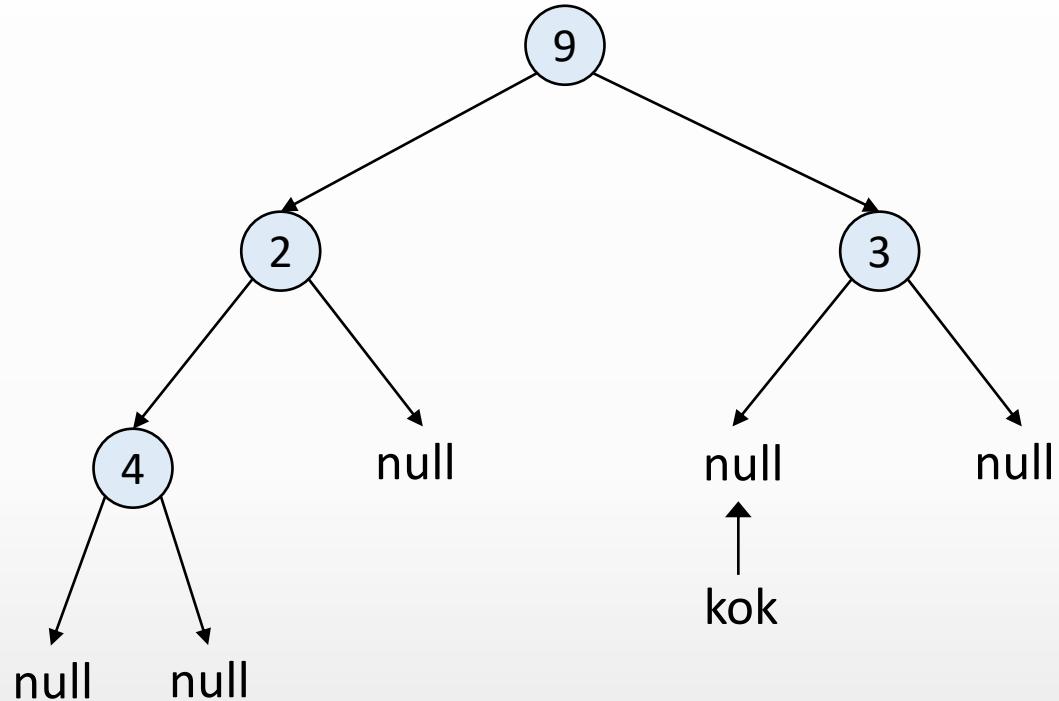
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null



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



## Çağırma Yığıtı (Call Stack)



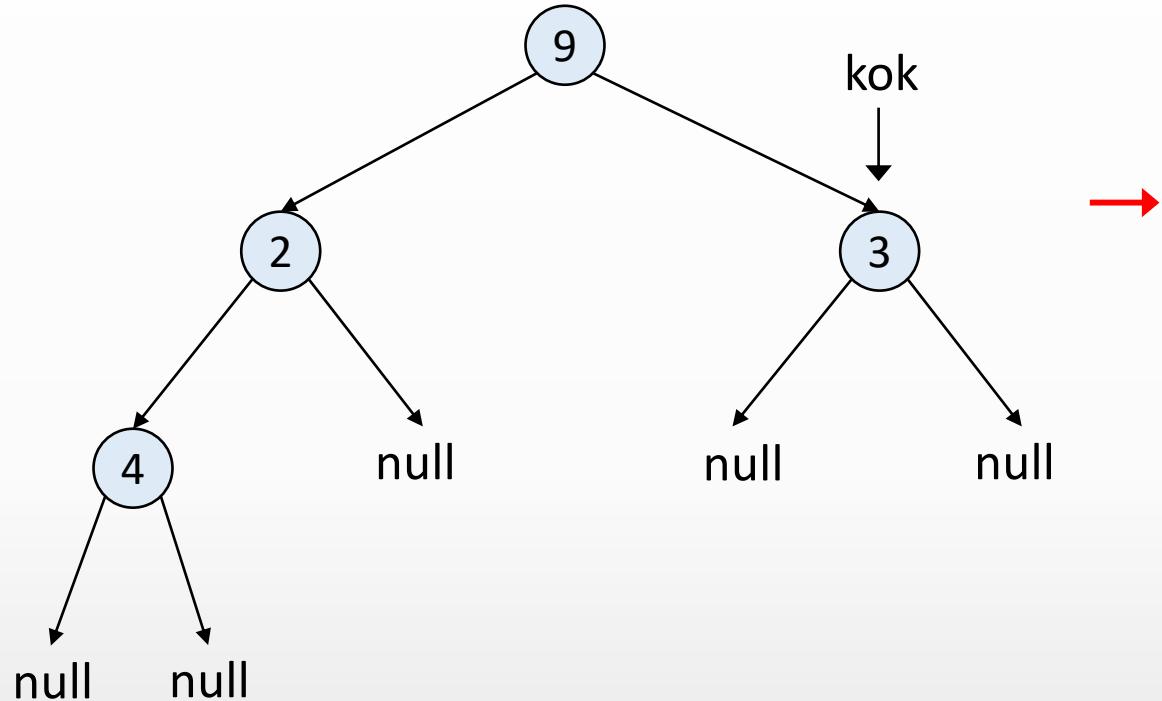
Cıktı: 9 2 4 3

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



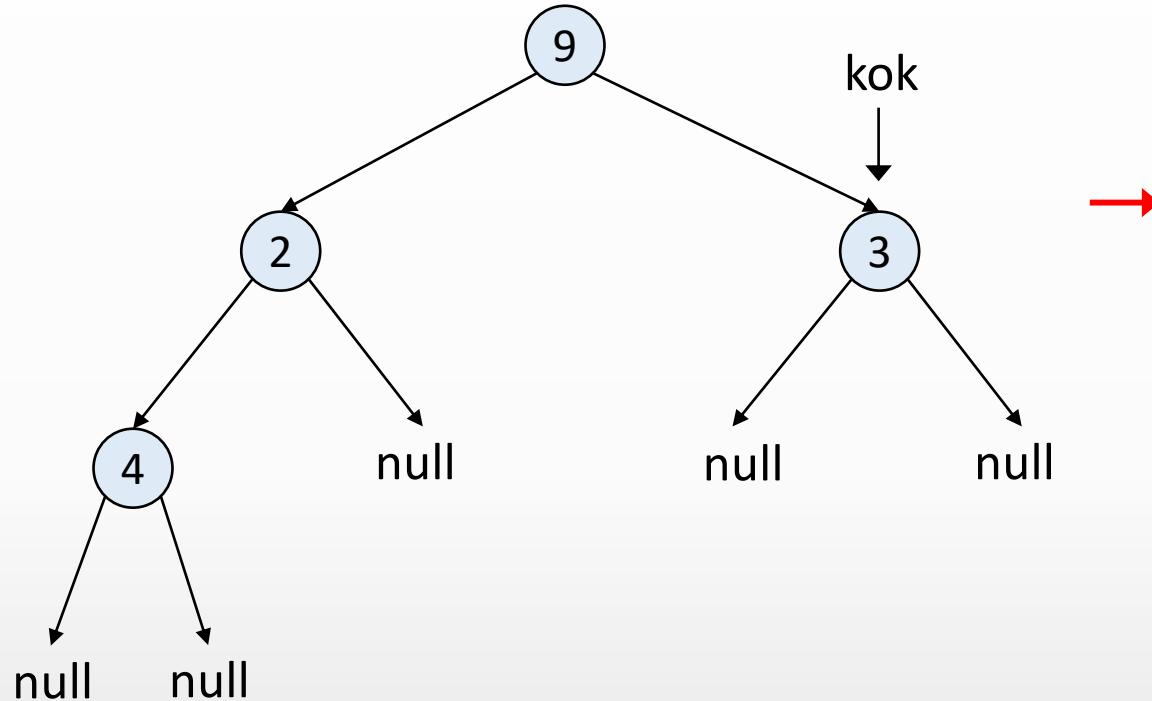
Çıktı: 9 2 4 3

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

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



## Çağırma Yığıtı (Call Stack)



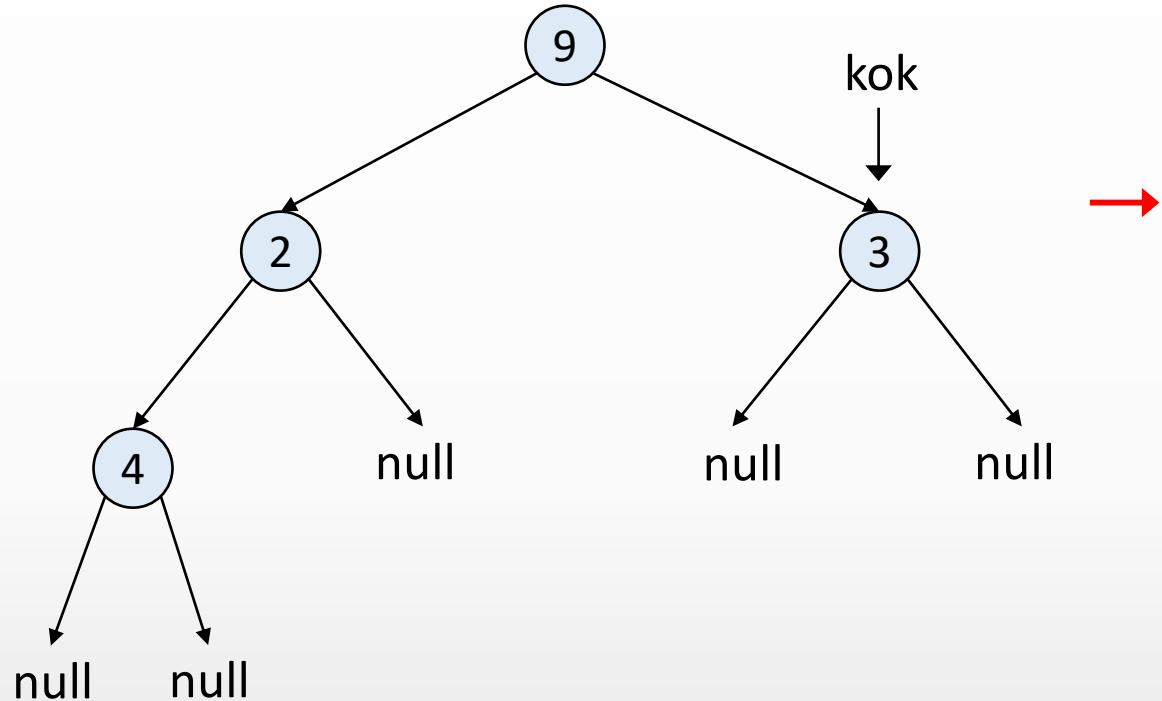
Cıktı: 9 2 4 3

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



## Çağırma Yığıtı (Call Stack)



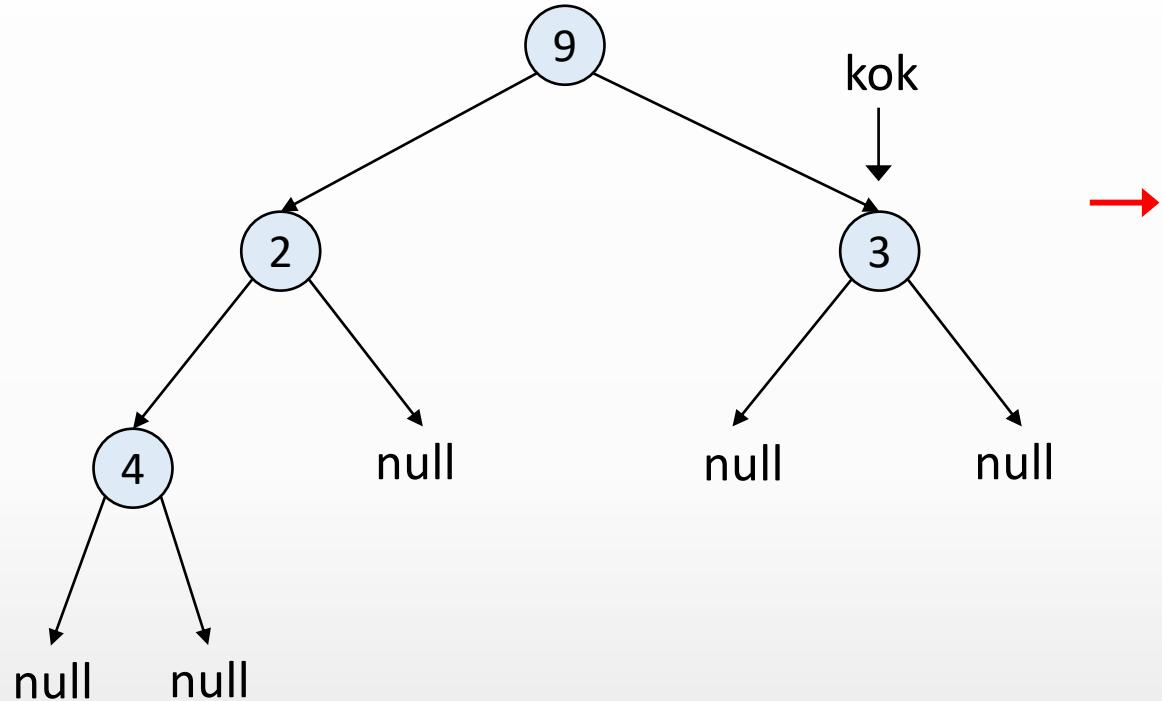
Cıktı: 9 2 4 3

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)



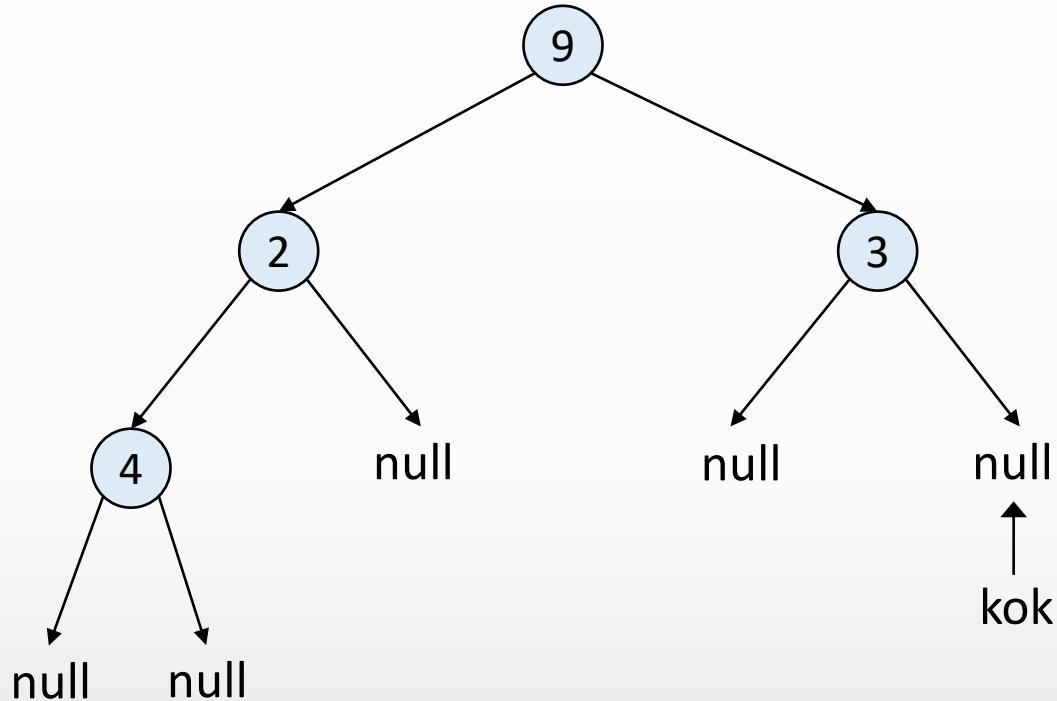
Çıktı: 9 2 4 3

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 + " ");  
6     kokBasta(kok.sol);  
7     kokBasta(kok.sag);  
8 }
```



## Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4 3



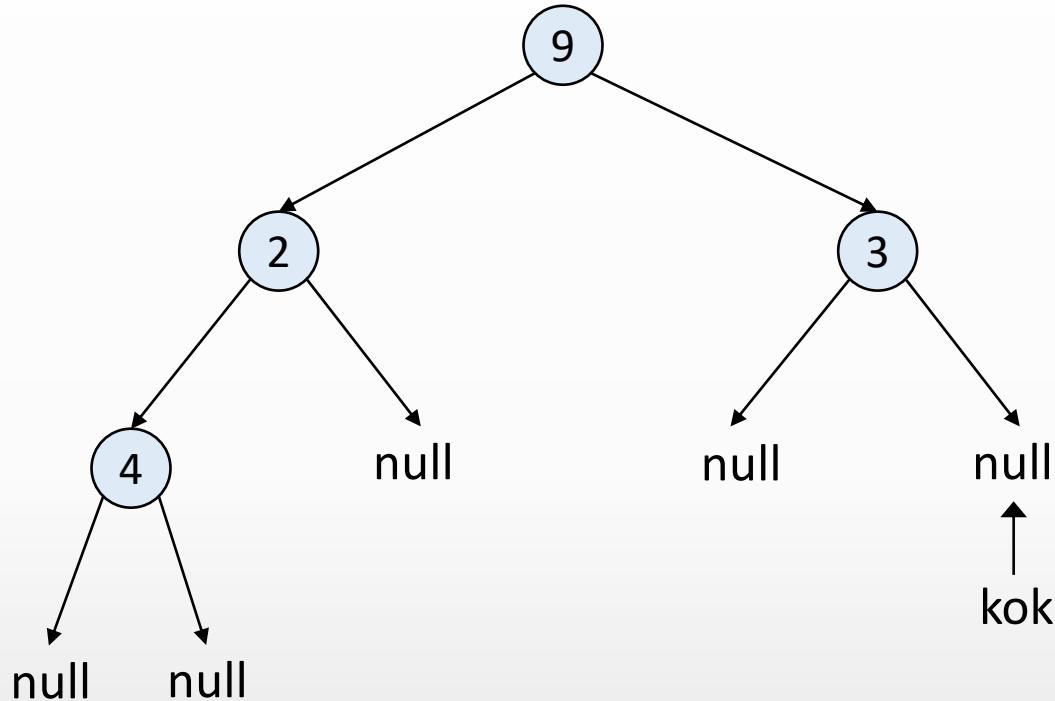
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	7	3
kokBasta()		null



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



## Çağırma Yığıtı (Call Stack)



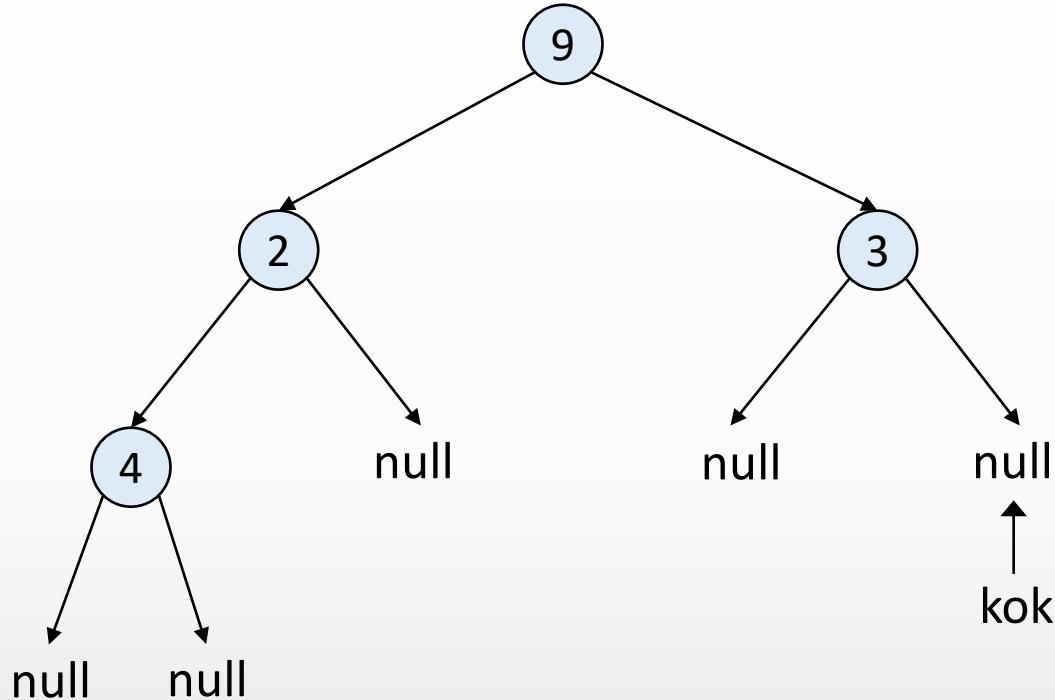
Çıktı: 9 2 4 3

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

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



## Çağırma Yığıtı (Call Stack)



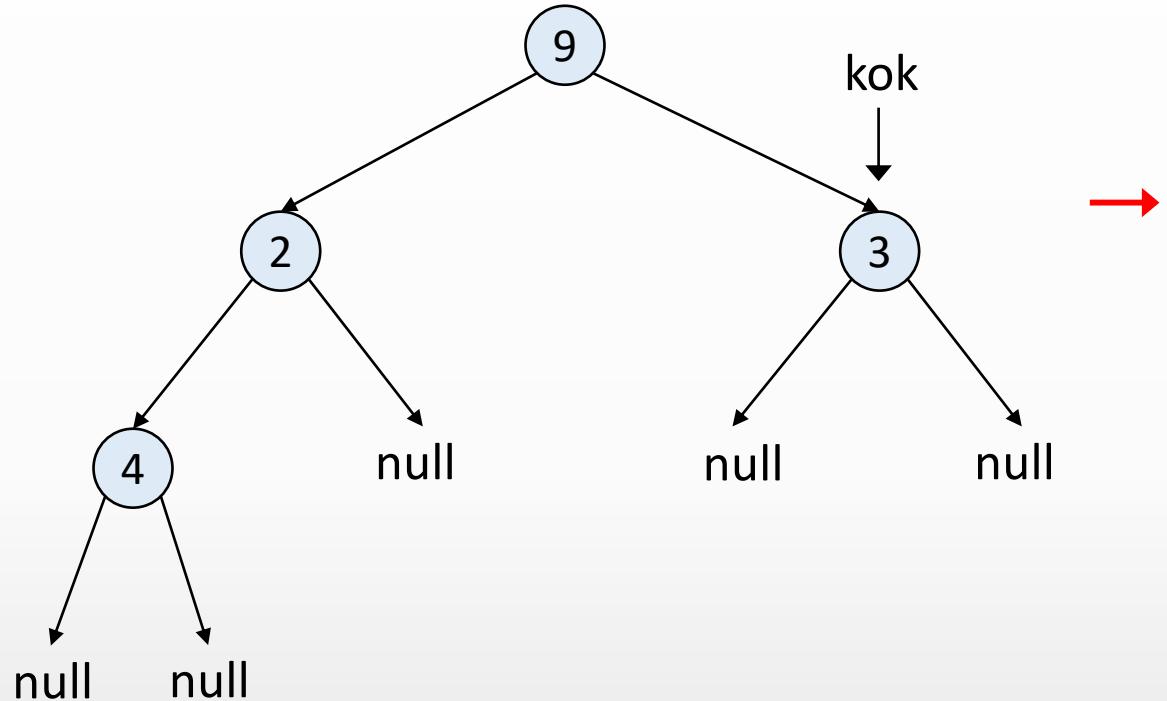
Cıktı: 9 2 4 3

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



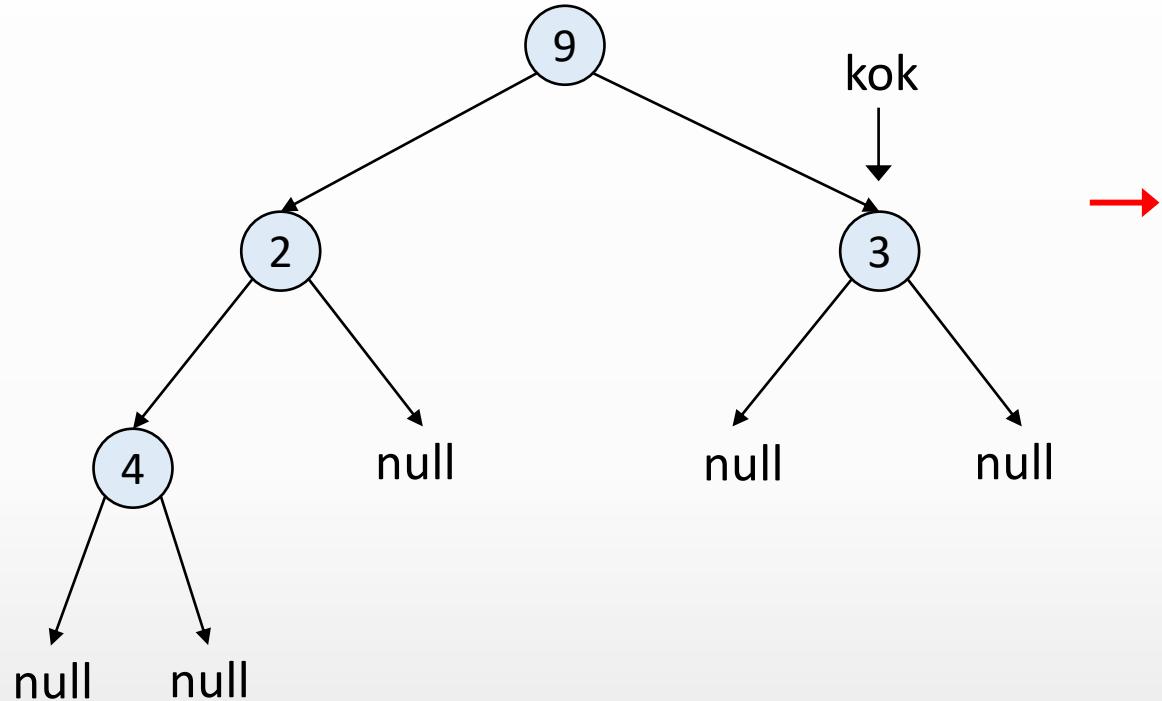
Çıktı: 9 2 4 3

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)



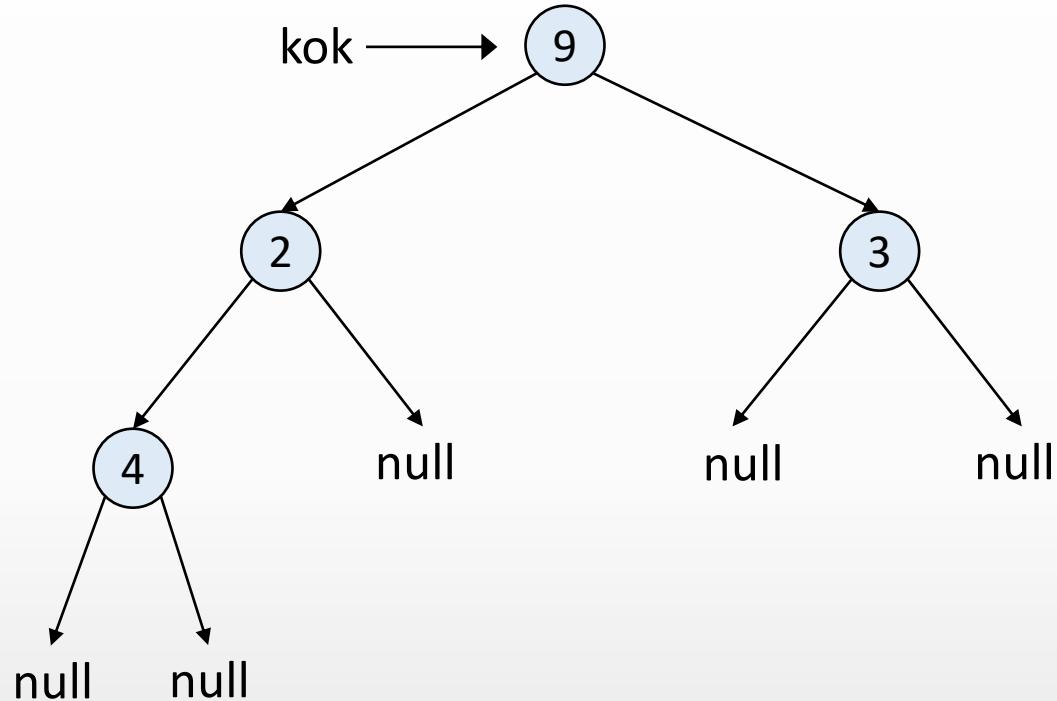
Çıktı: 9 2 4 3

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)



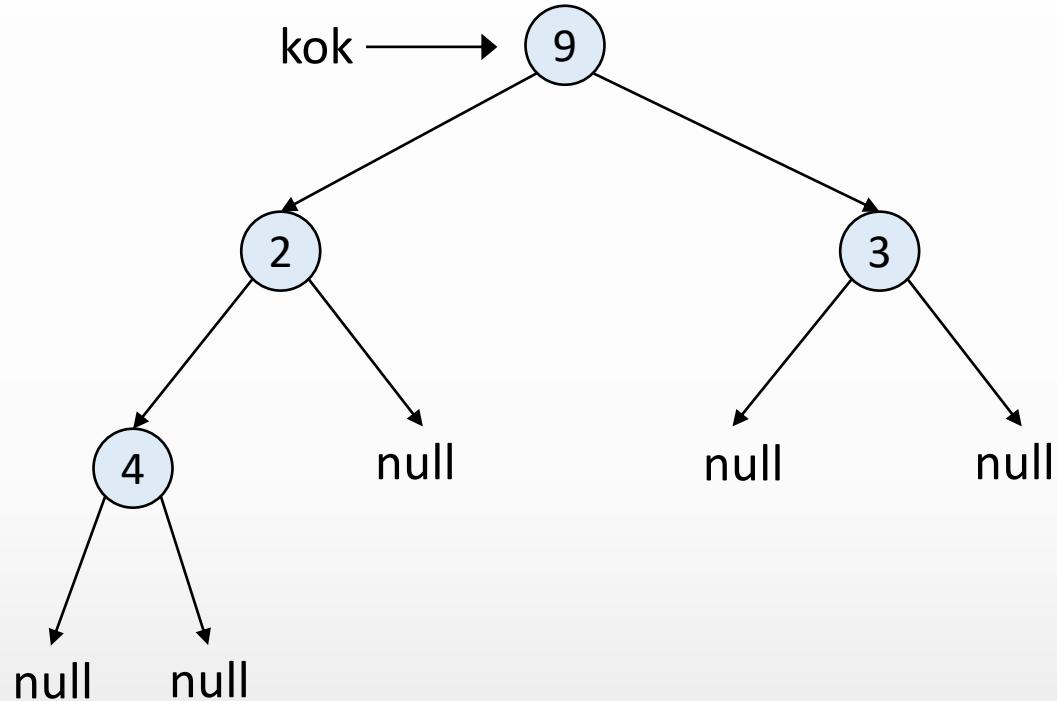
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9

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)



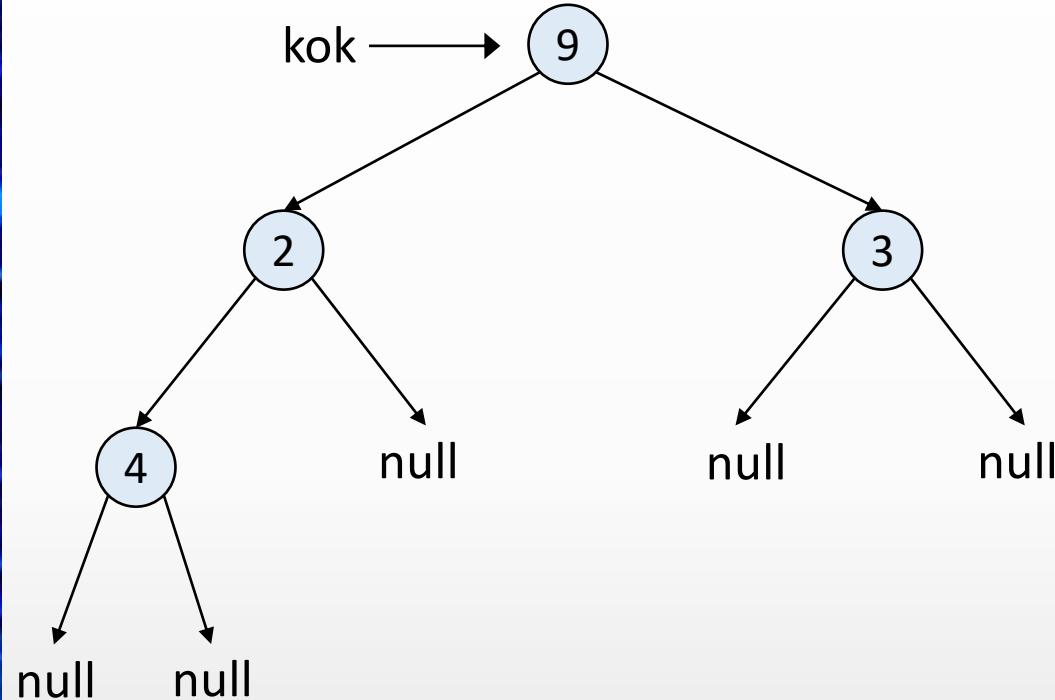
Çıktı: 9 2 4 3

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 }
```



## Çağrıma Yığıtı (Call Stack)



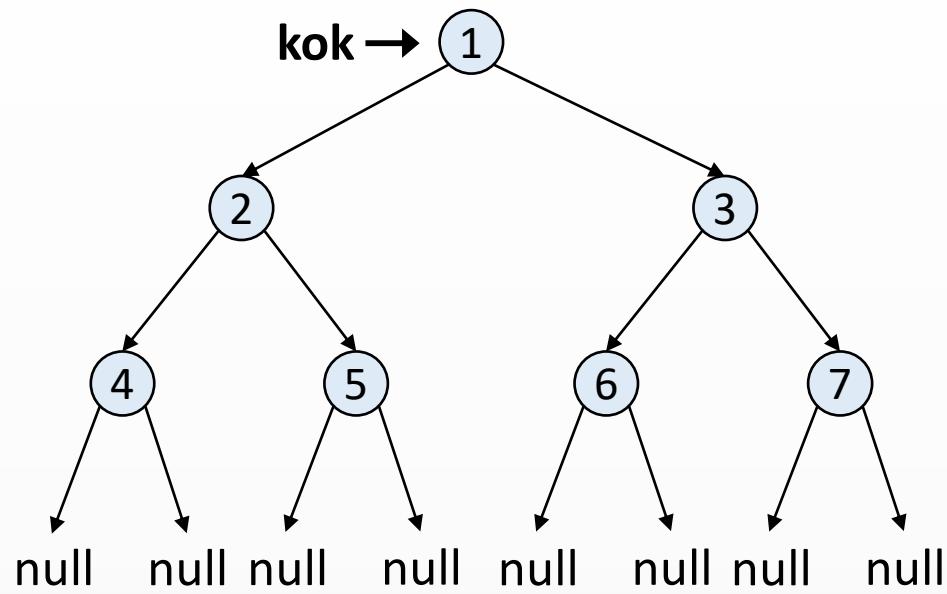
Çıktı: 9 2 4 3

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:

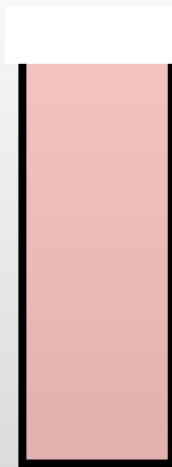
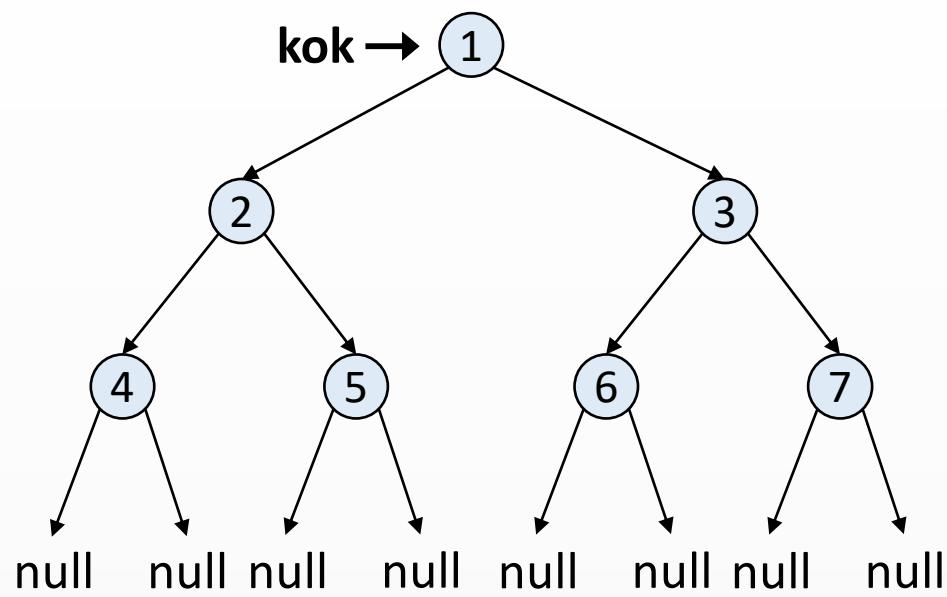
→

```

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);
    }
}

```

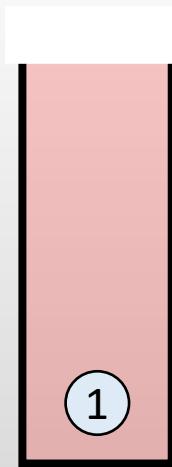
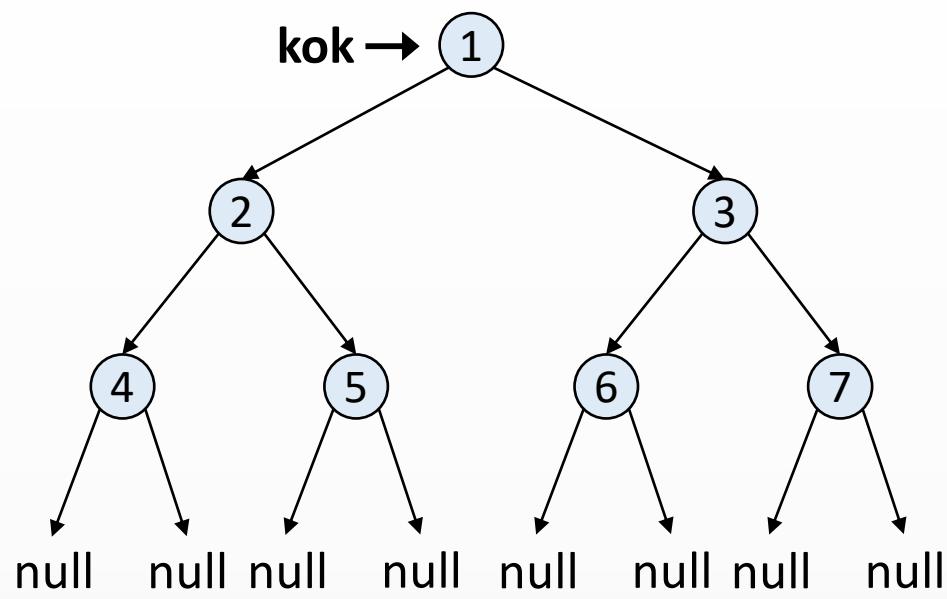




Yığıt

Çıktı:

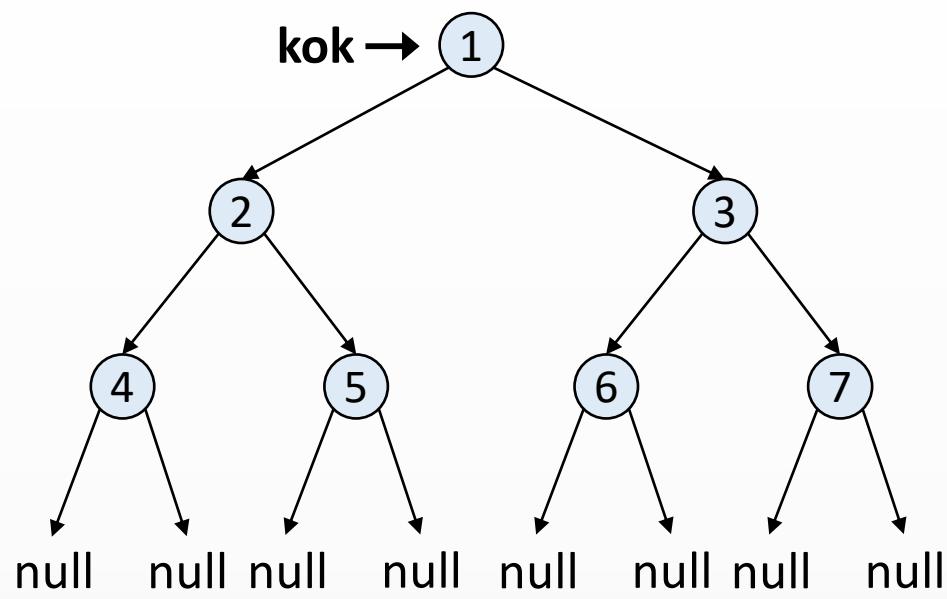
```
if(kok == null) {  
    return;  
}  
→ Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

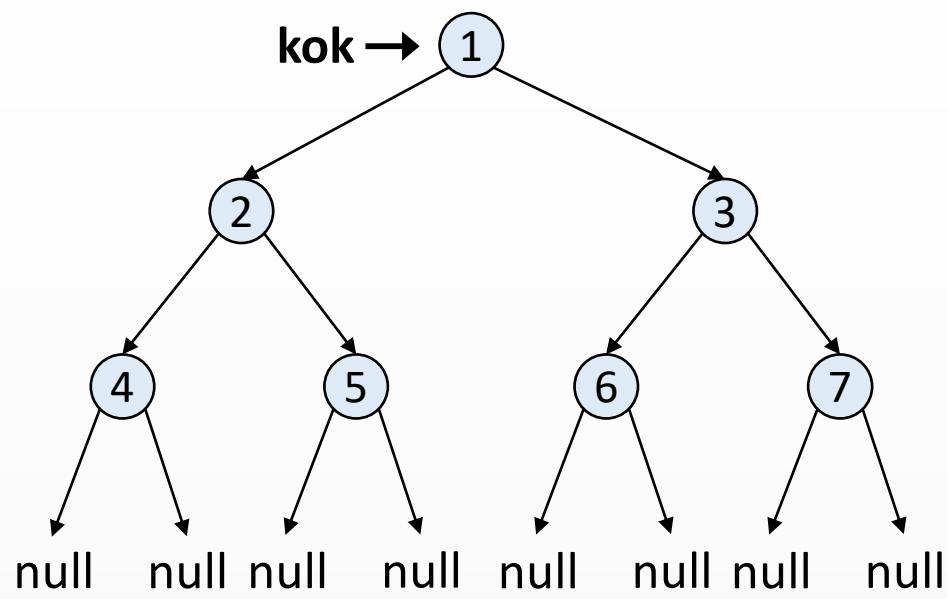
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

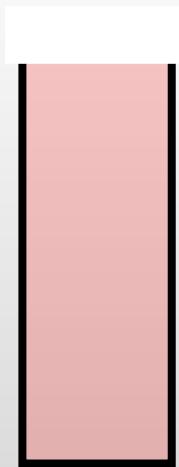
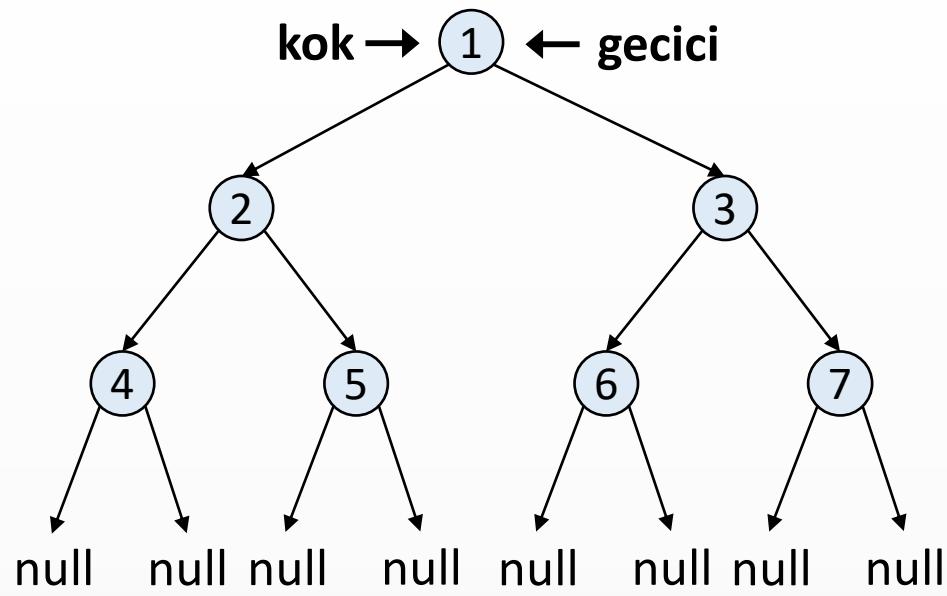
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

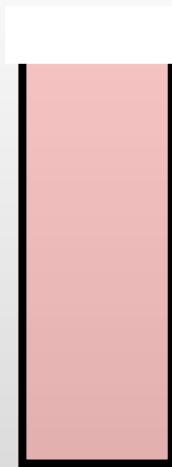
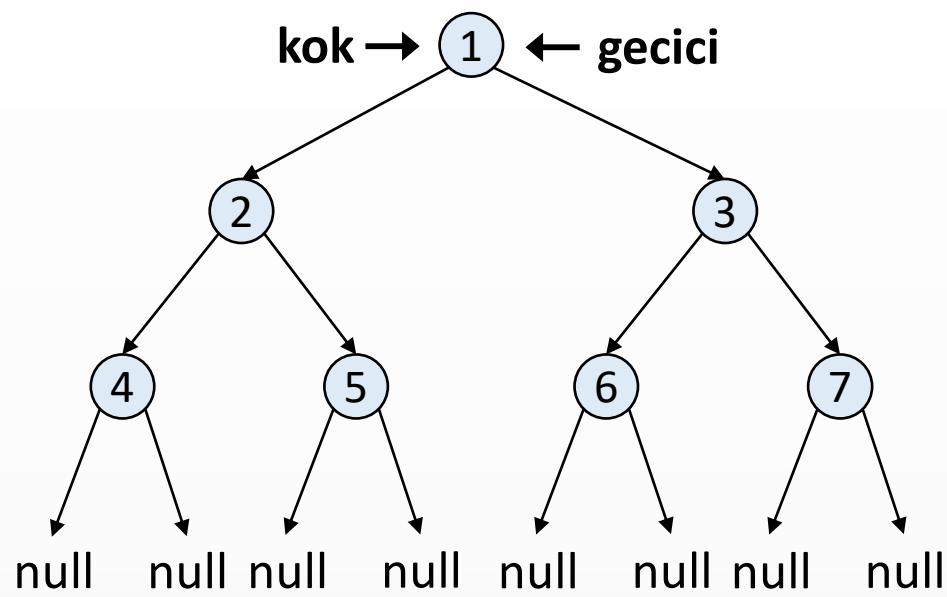
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

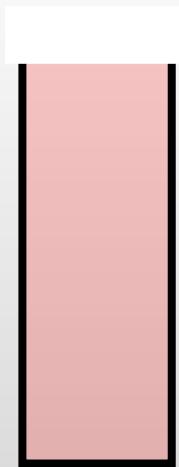
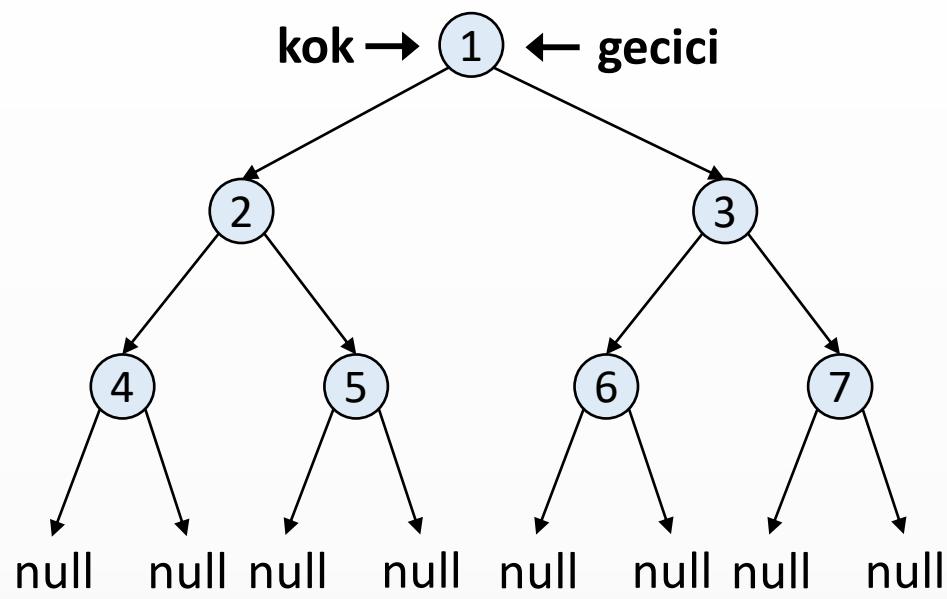
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

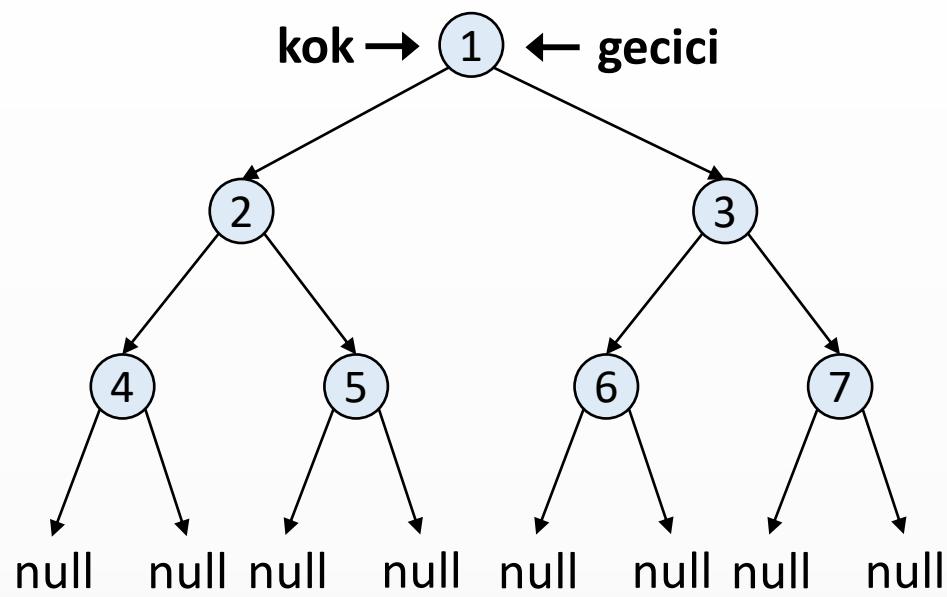
Cıktı: 1

```
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

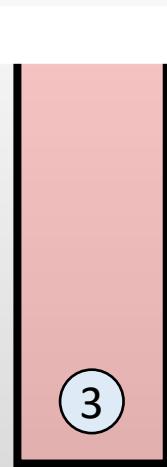
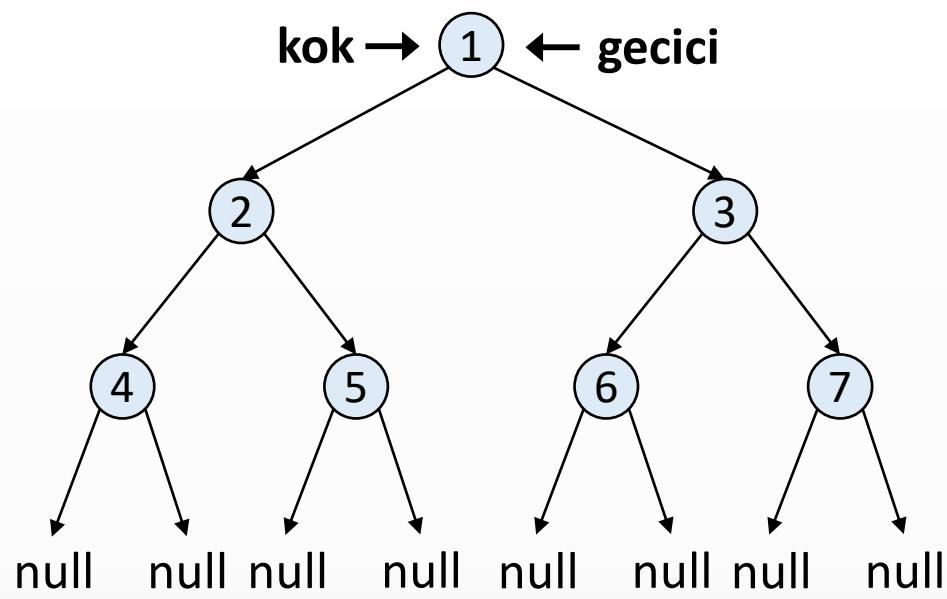
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

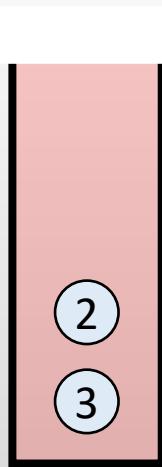
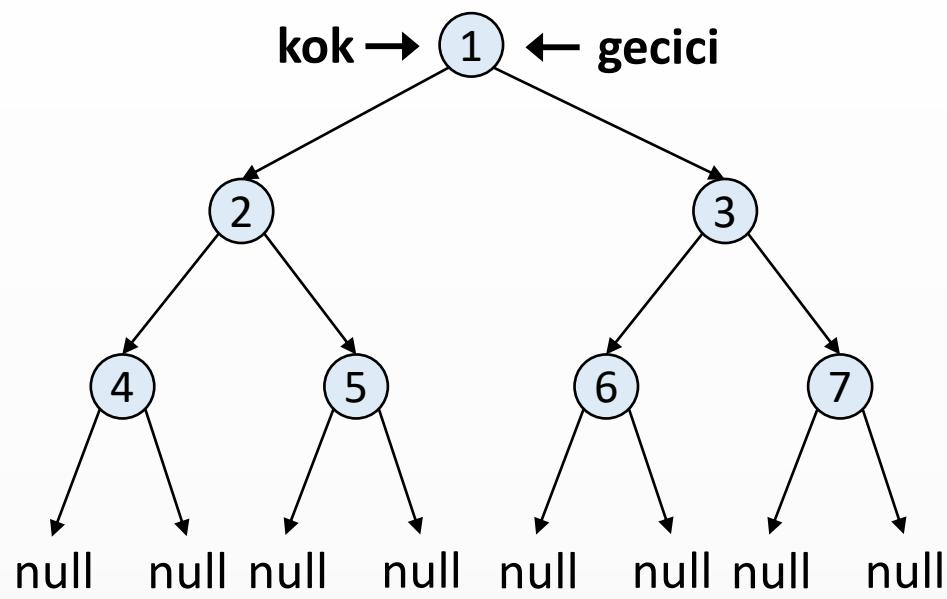
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

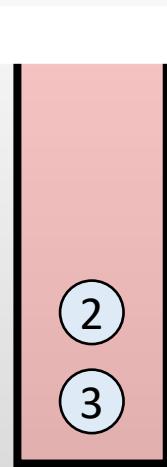
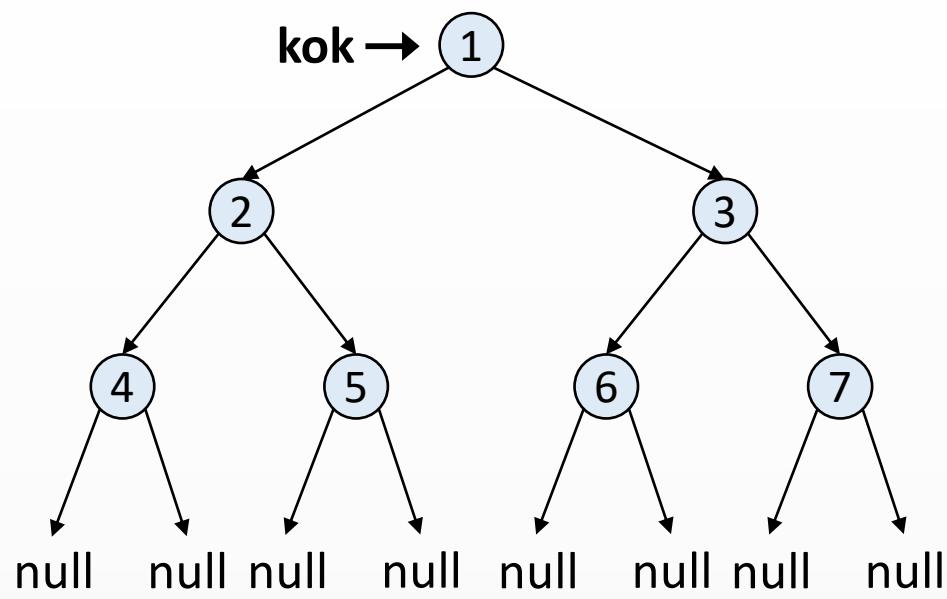
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı: 1

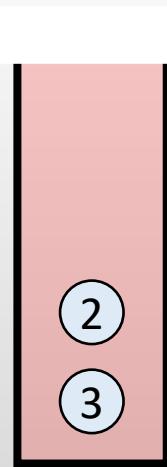
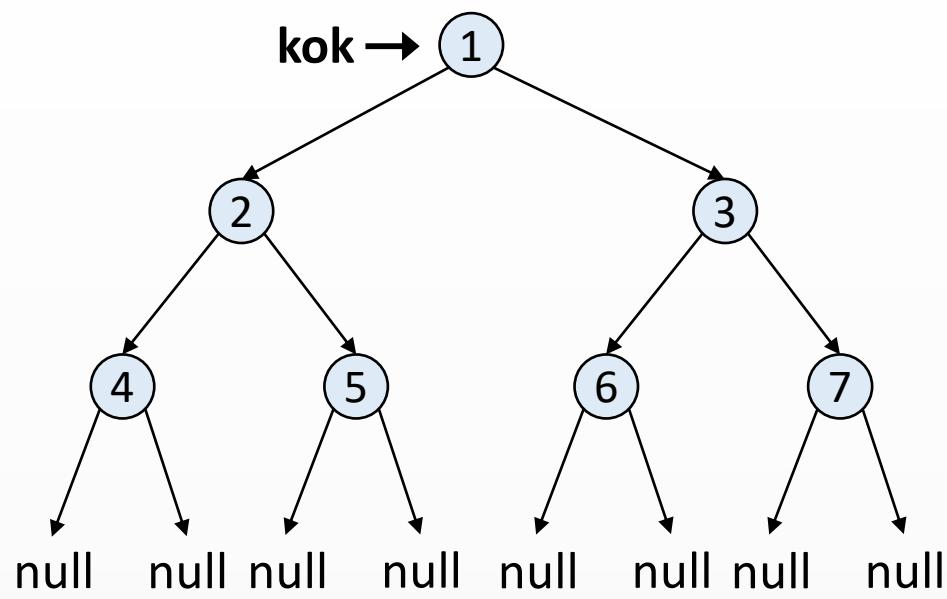
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1

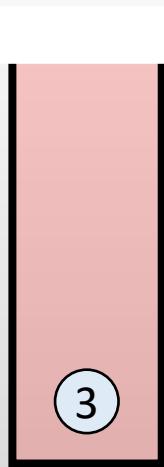
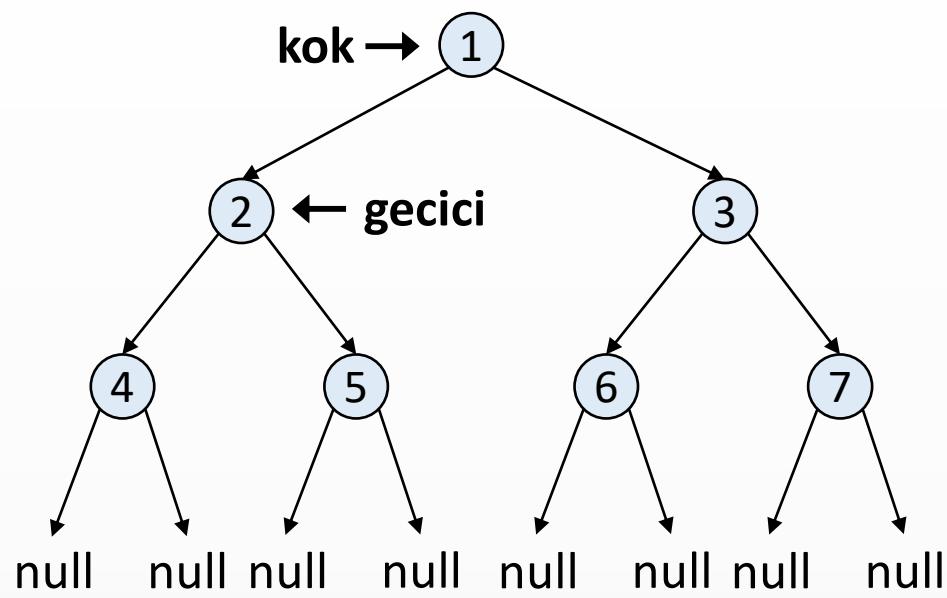
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Çıktı: 1

→

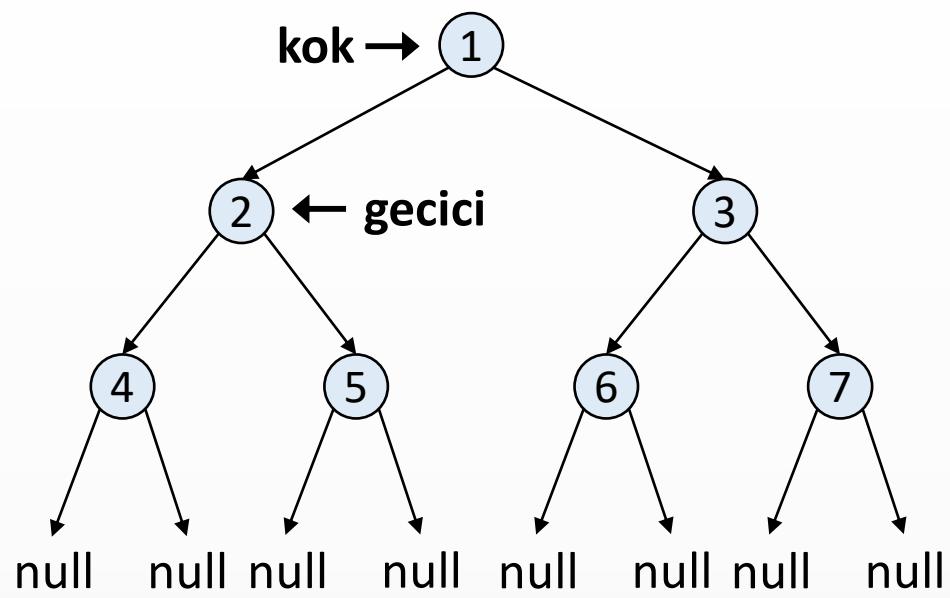
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

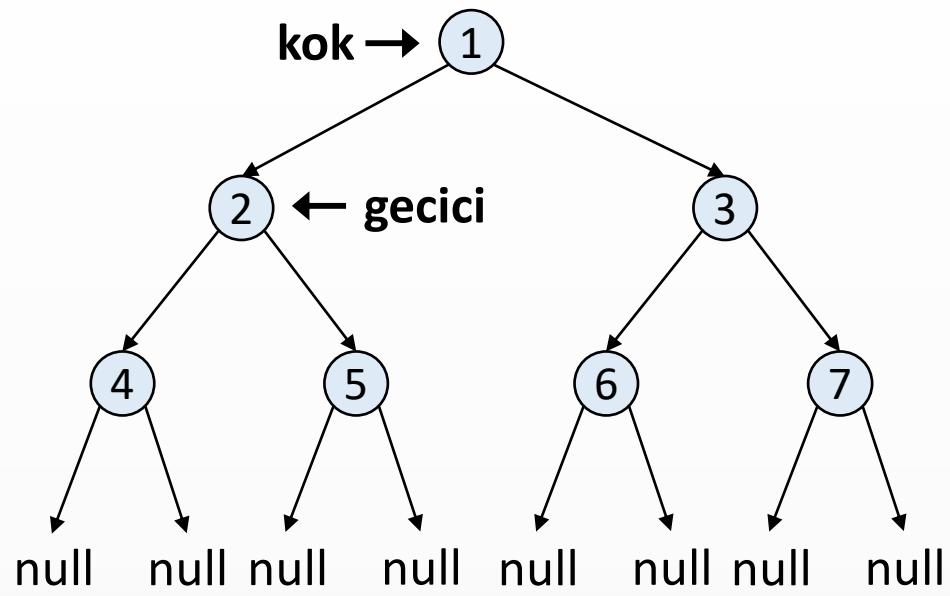
Çıktı: 1

```
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);  
    }  
}
```



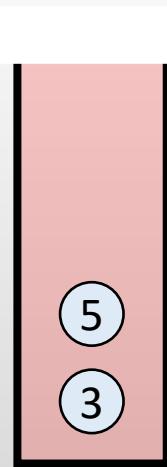
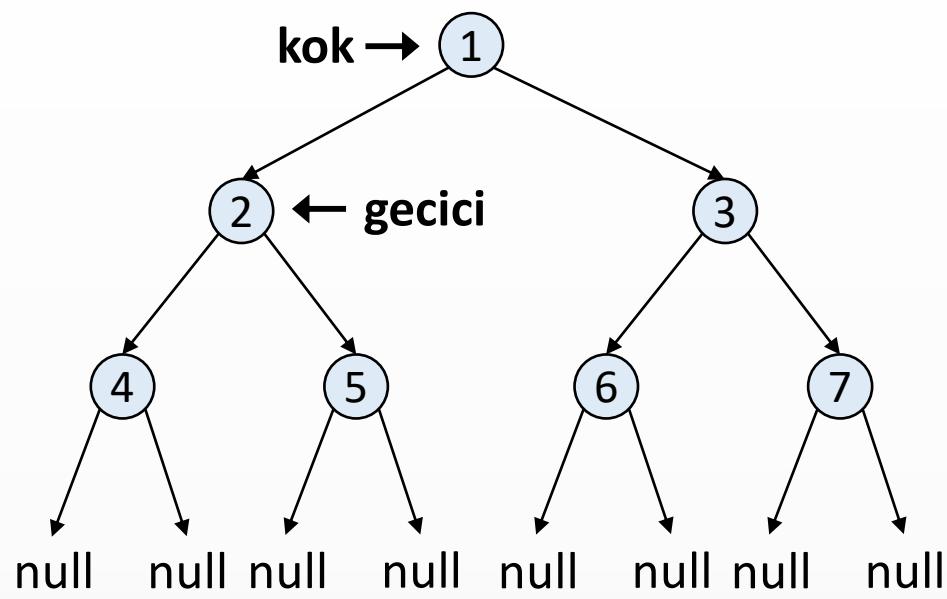
Cıktı: 1 2

```
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

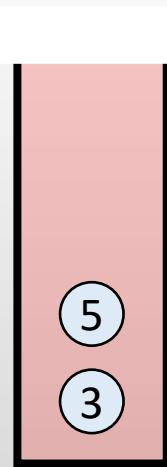
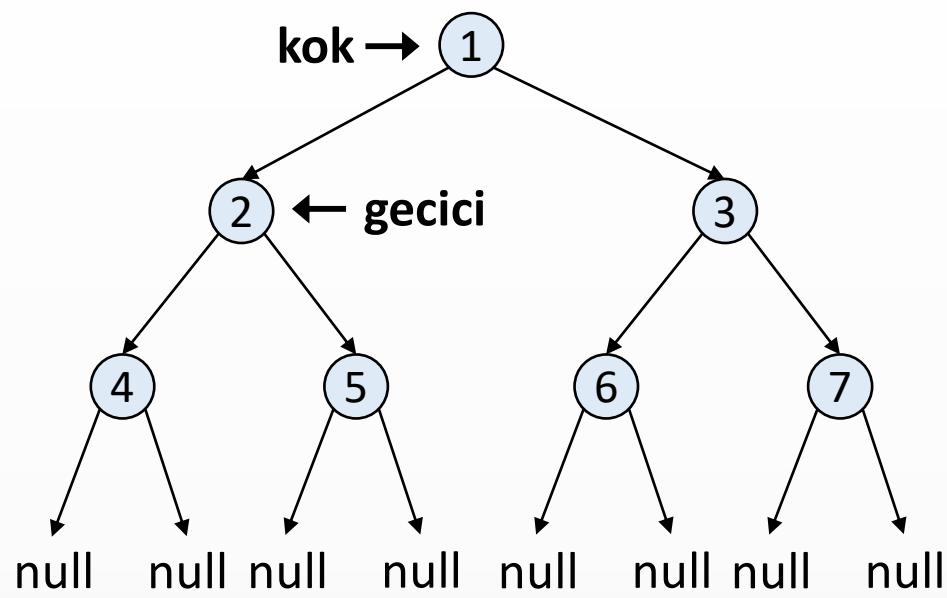
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2

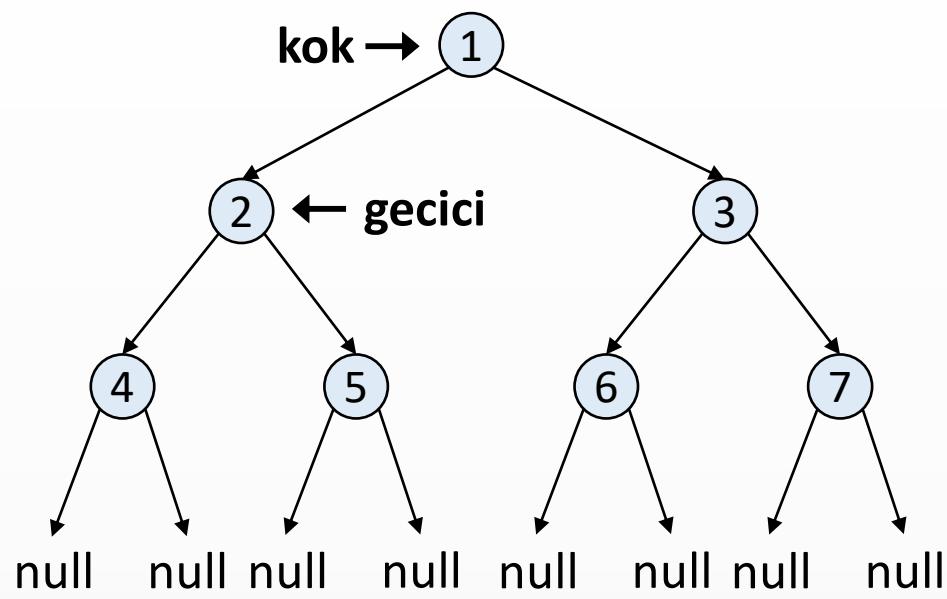
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

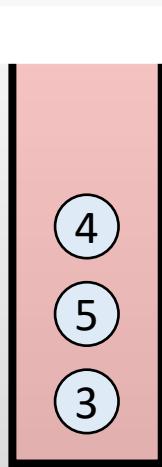
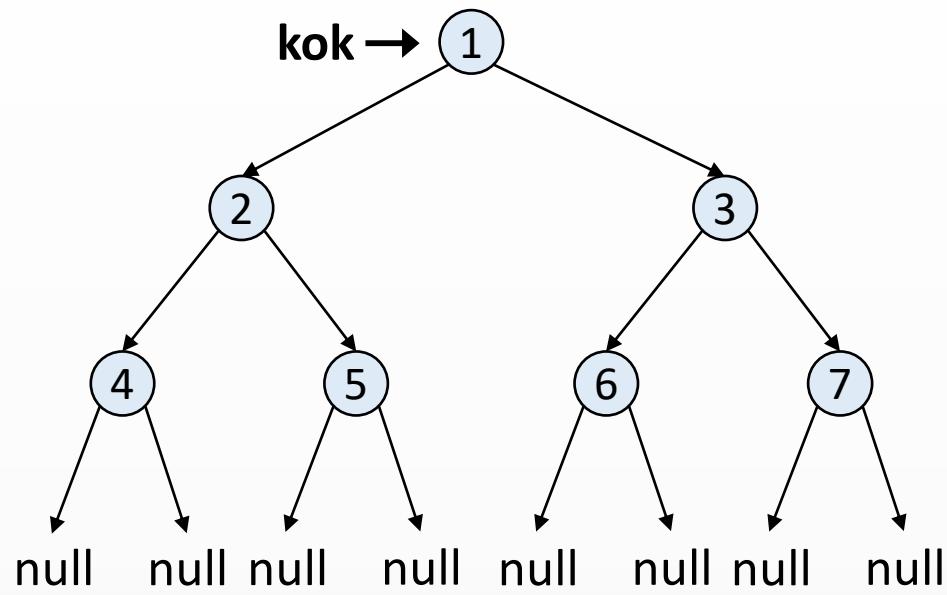
Cıktı: 1 2

```
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);  
    }  
}
```



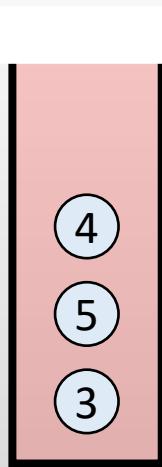
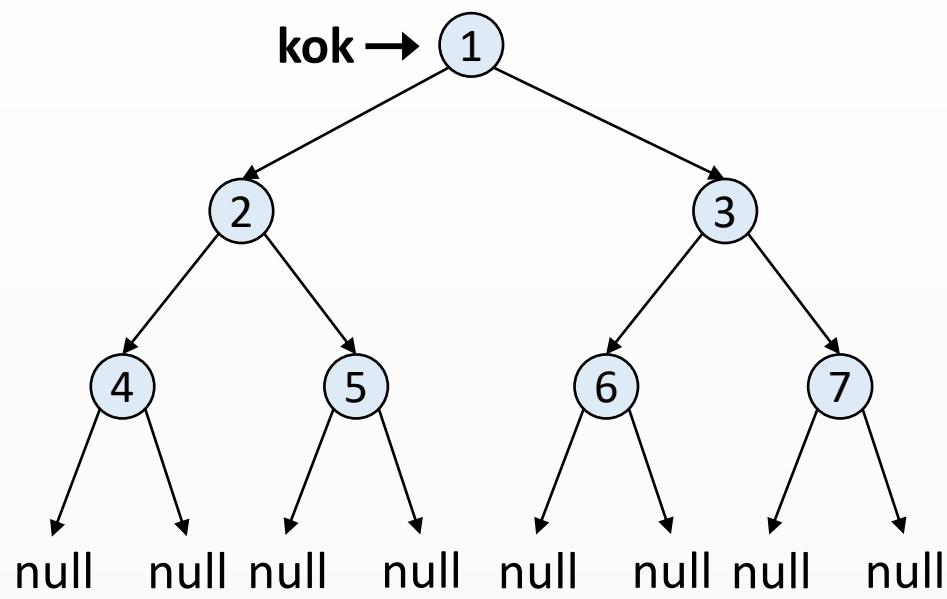
Cıktı: 1 2

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

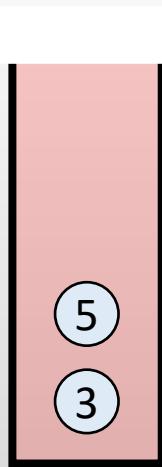
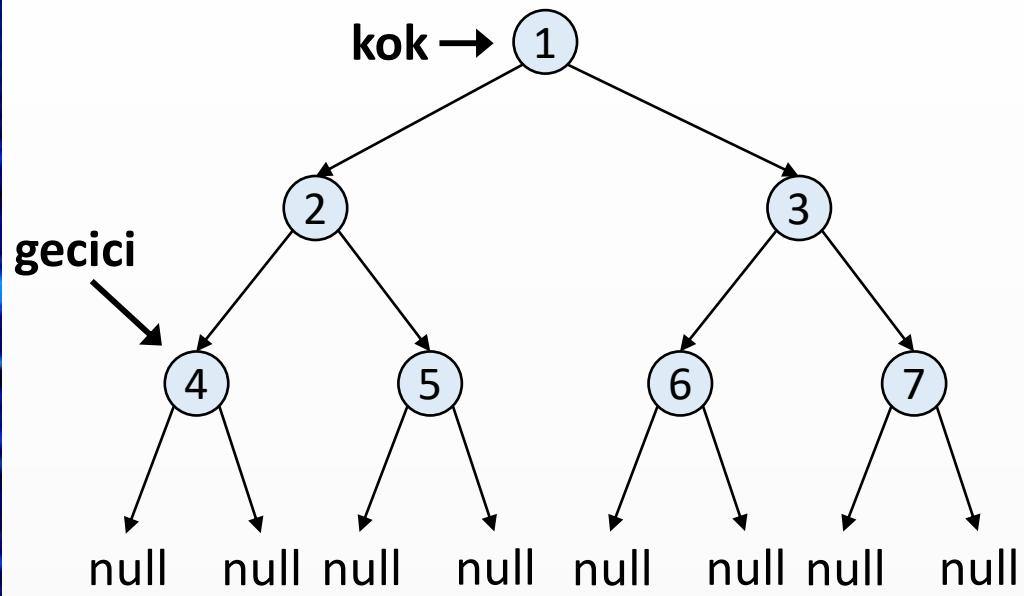
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2

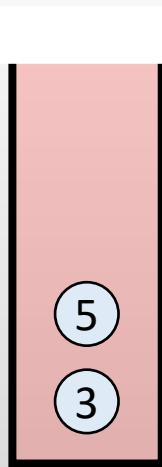
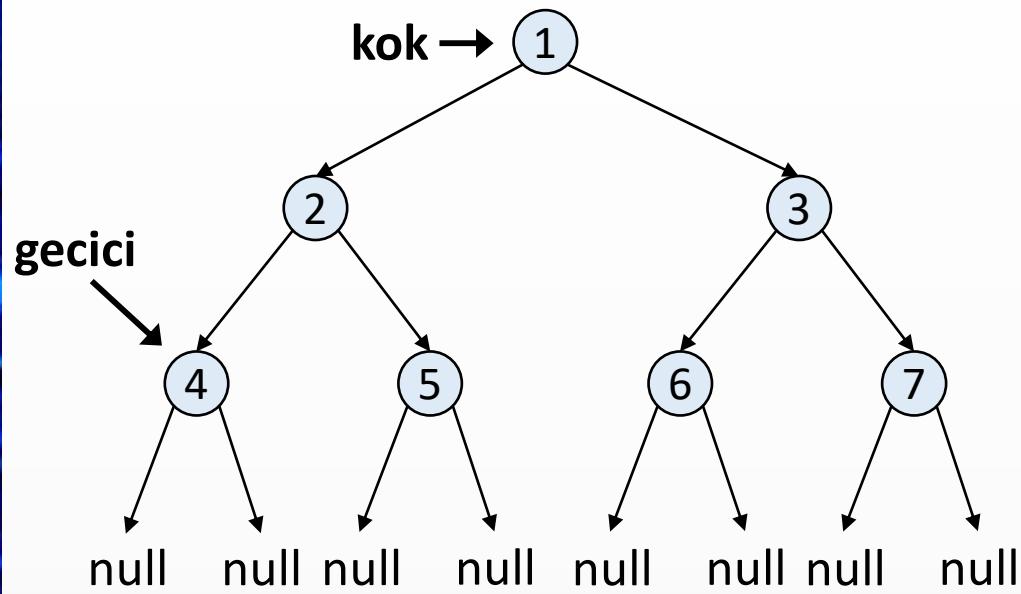
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2

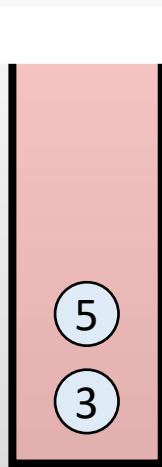
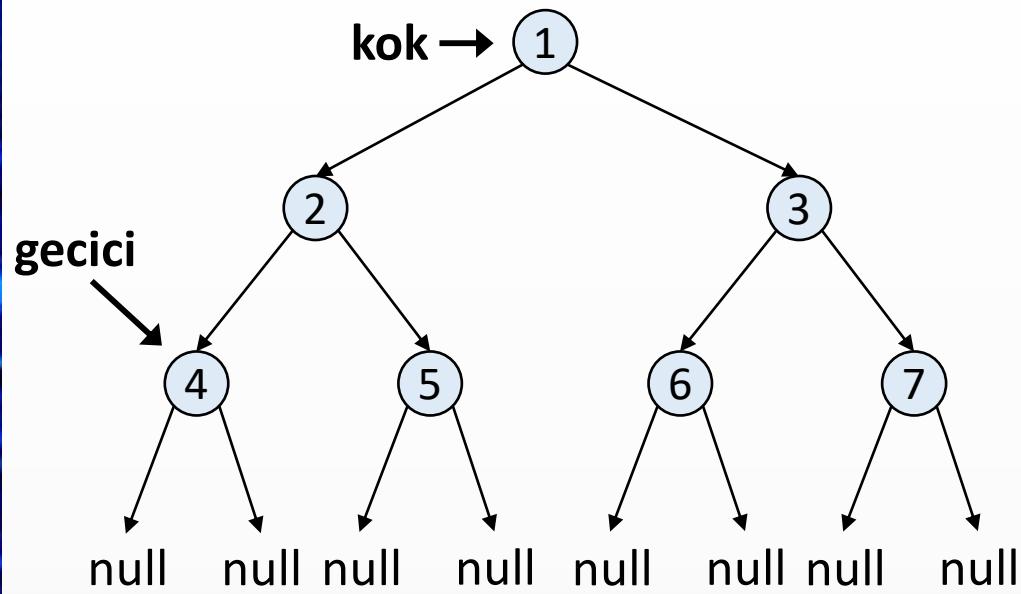
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4

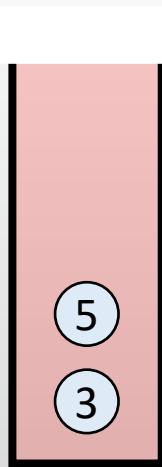
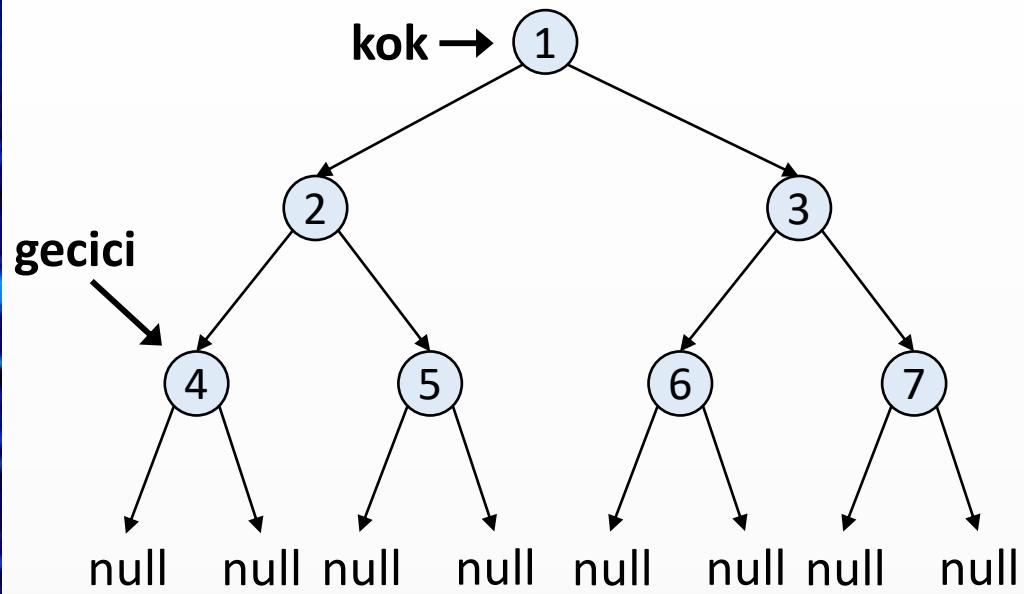
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4

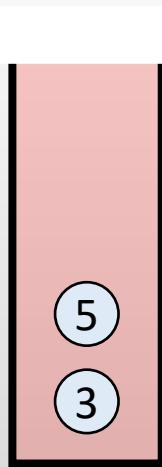
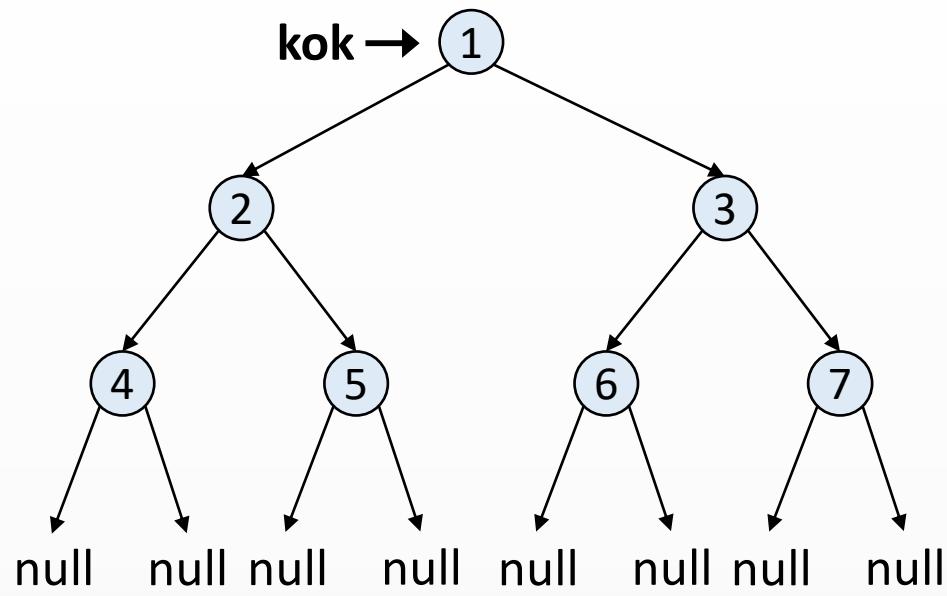
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

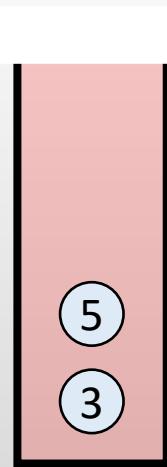
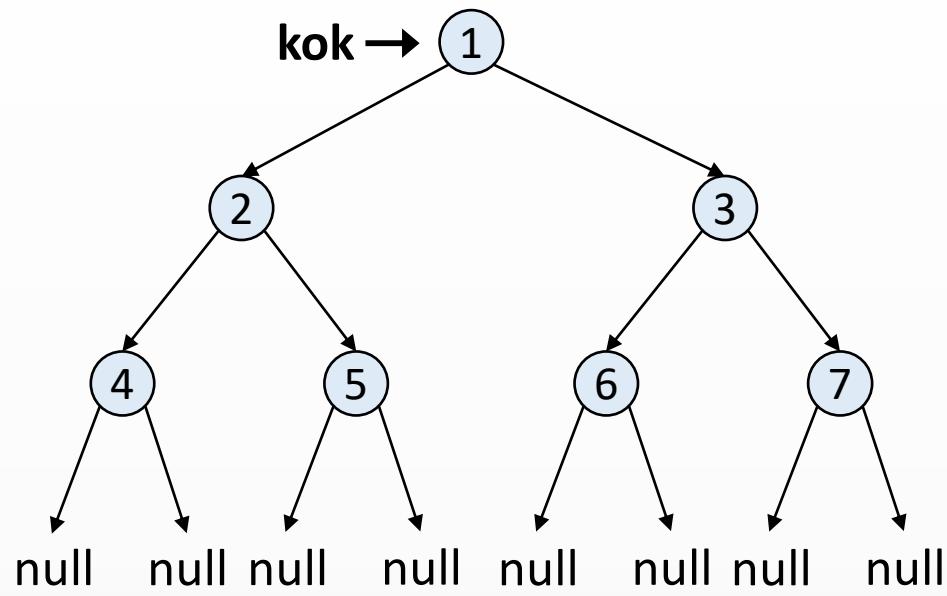
Cıktı: 1 2 4

```
if(kok == null) {  
    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

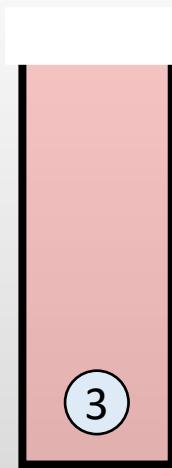
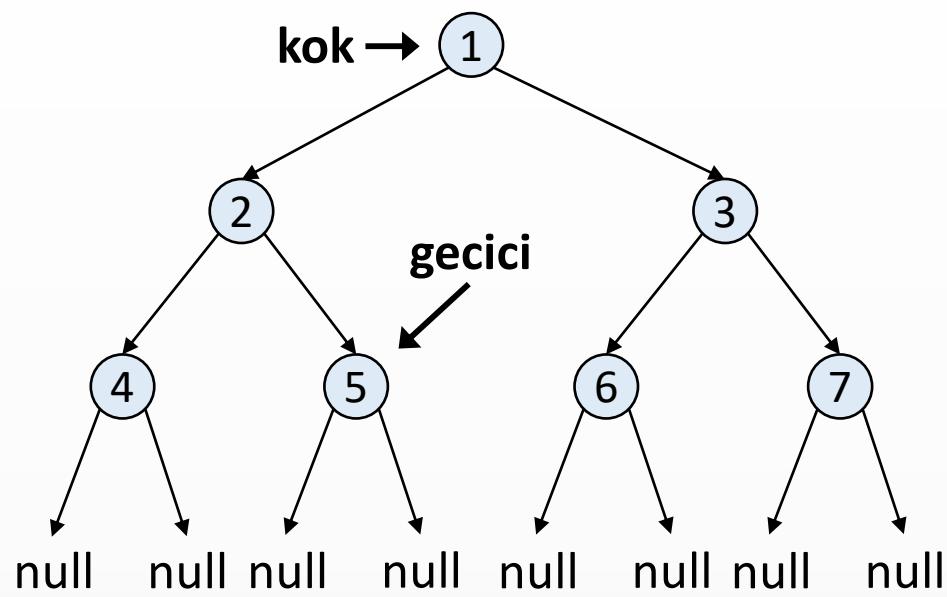
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4

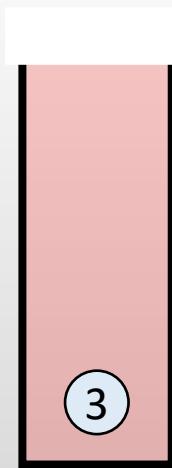
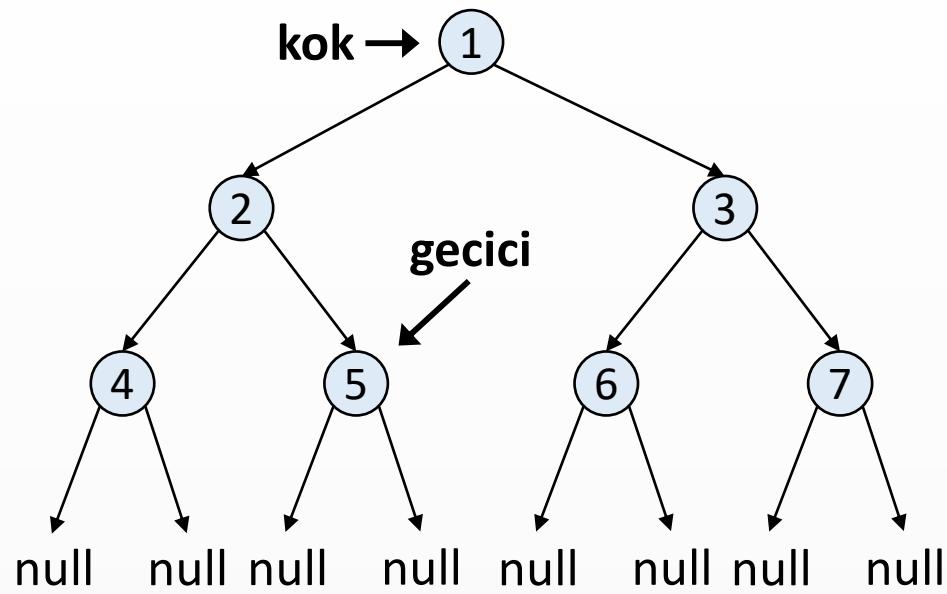
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4

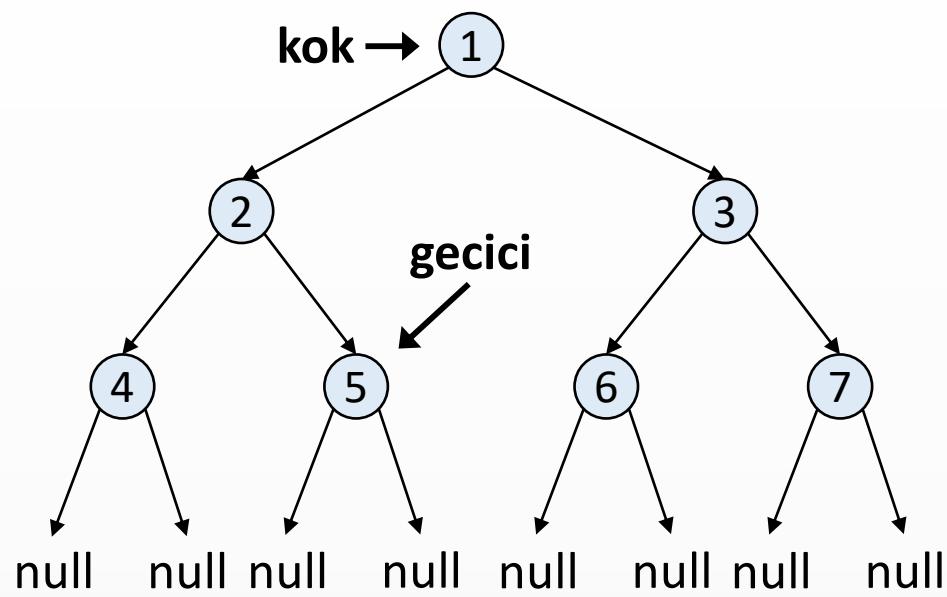
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

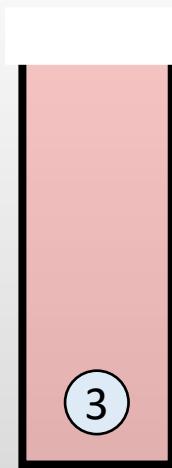
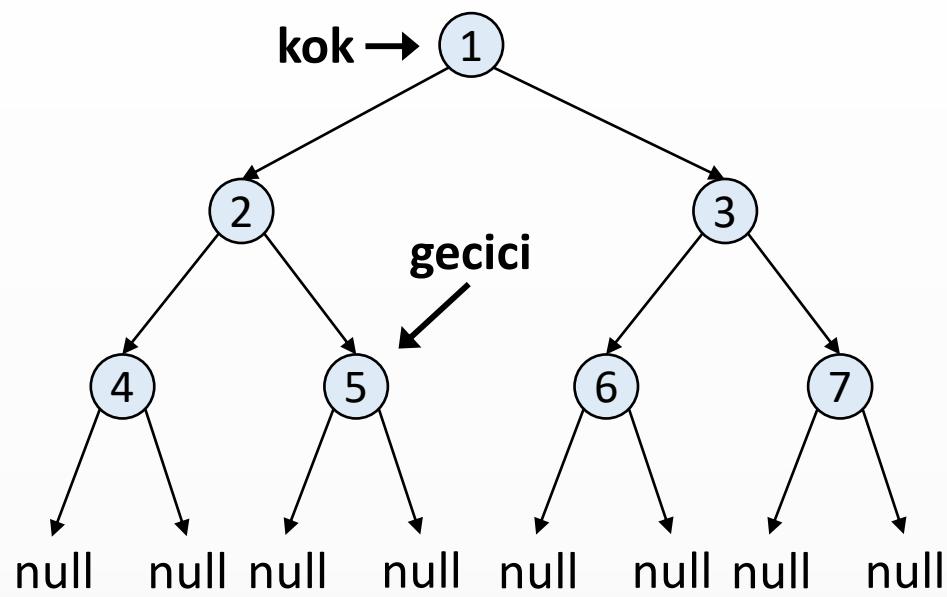
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

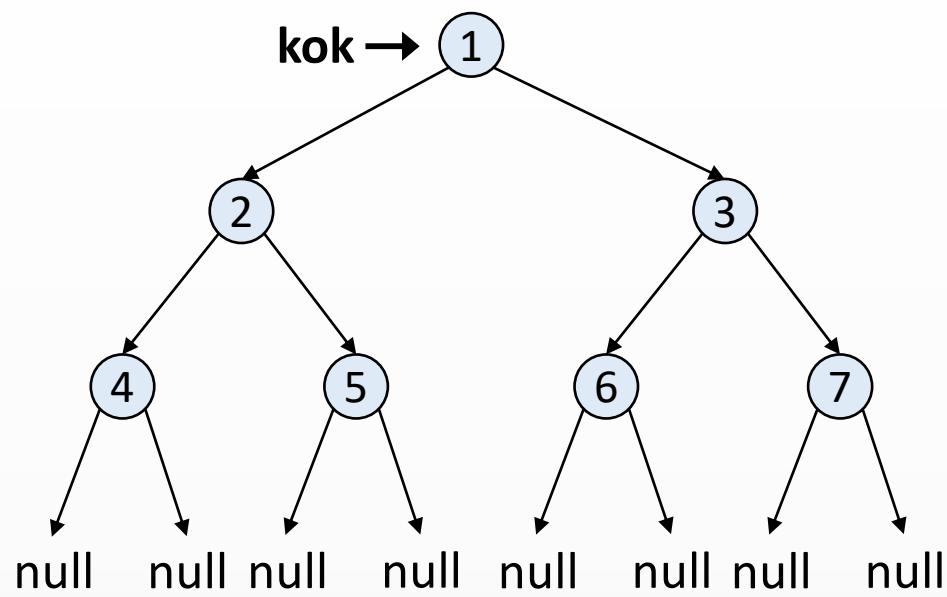
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

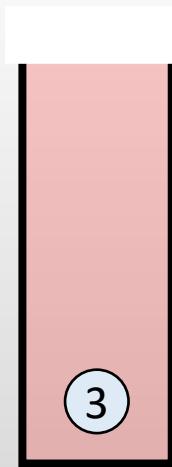
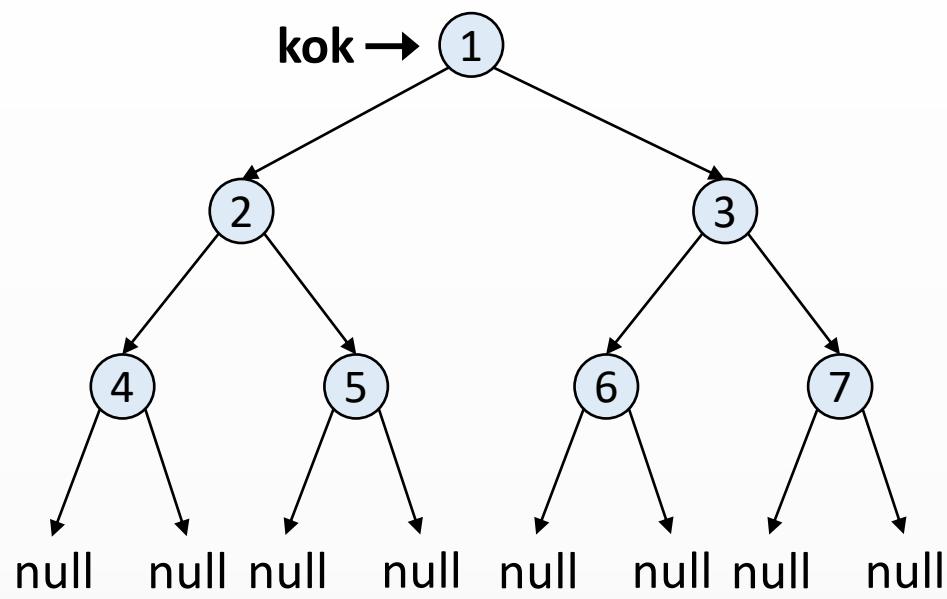
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

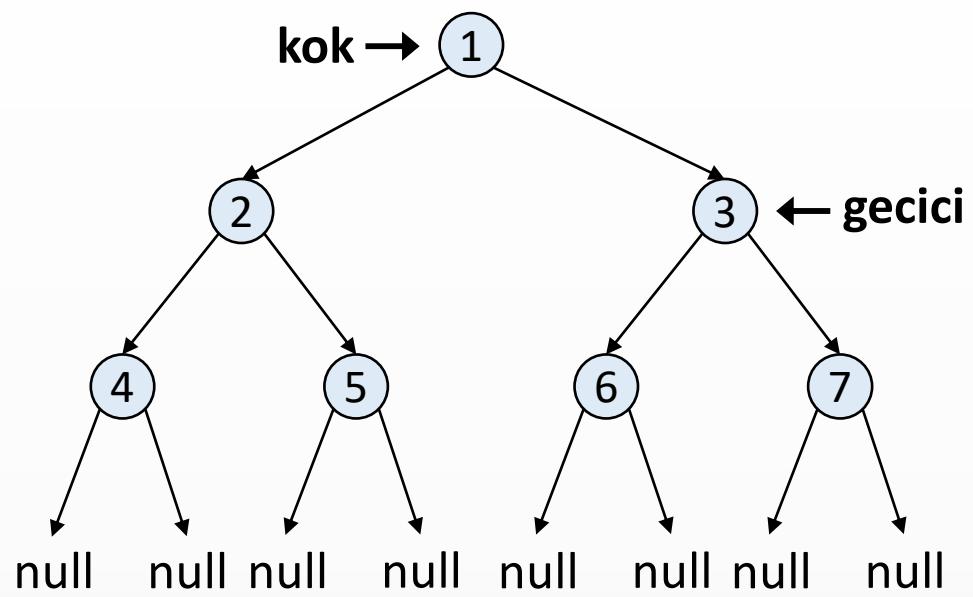
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5

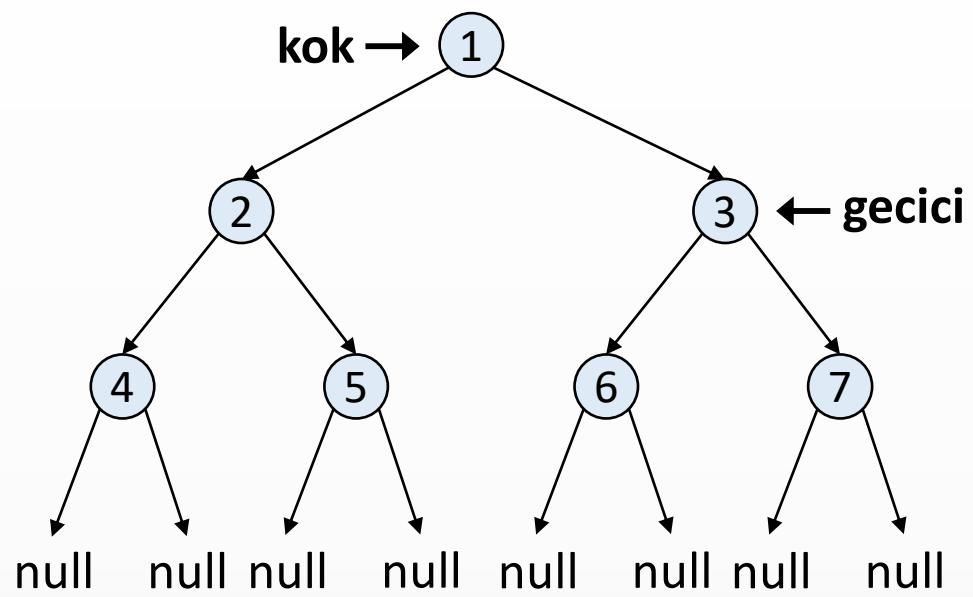
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
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        yigit.push(gecici.sag);  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



Yığıt

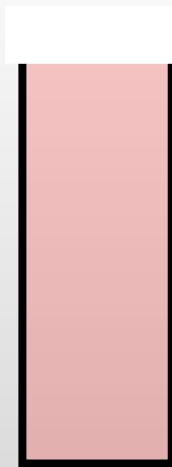
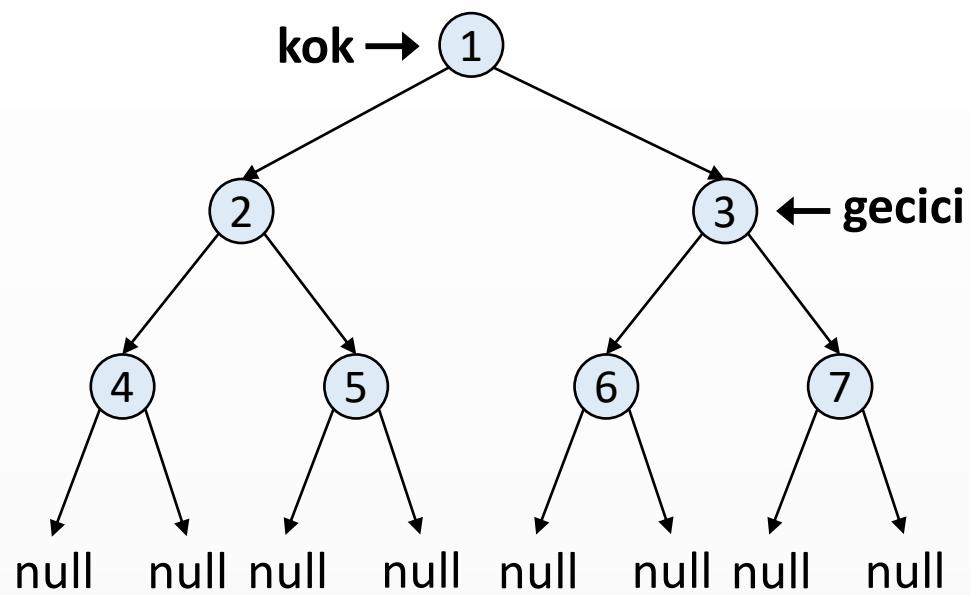
Cıktı: 1 2 4 5

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



Cıktı: 1 2 4 5 3

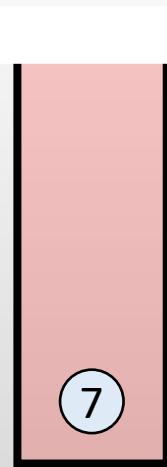
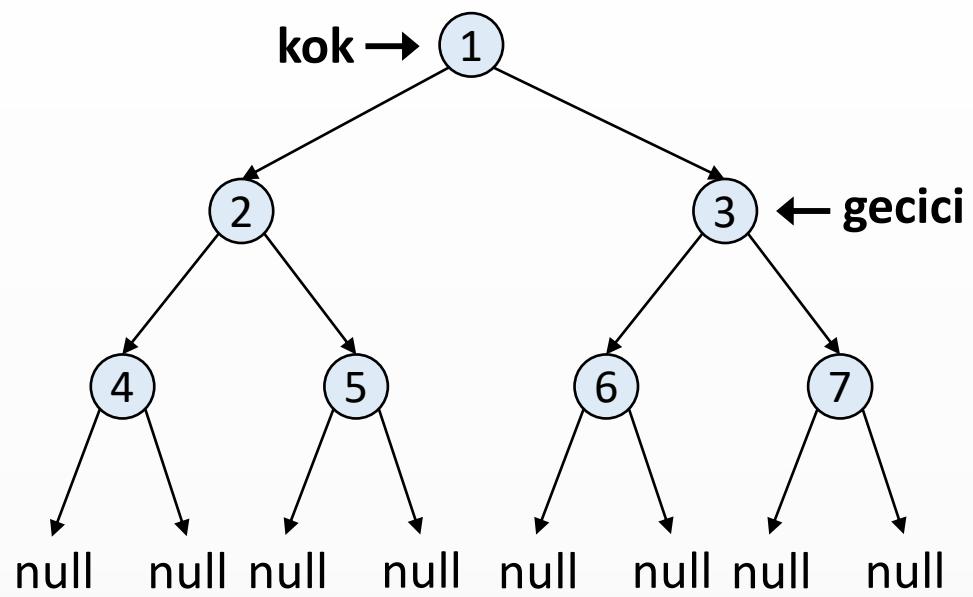
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

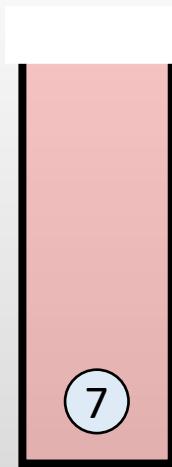
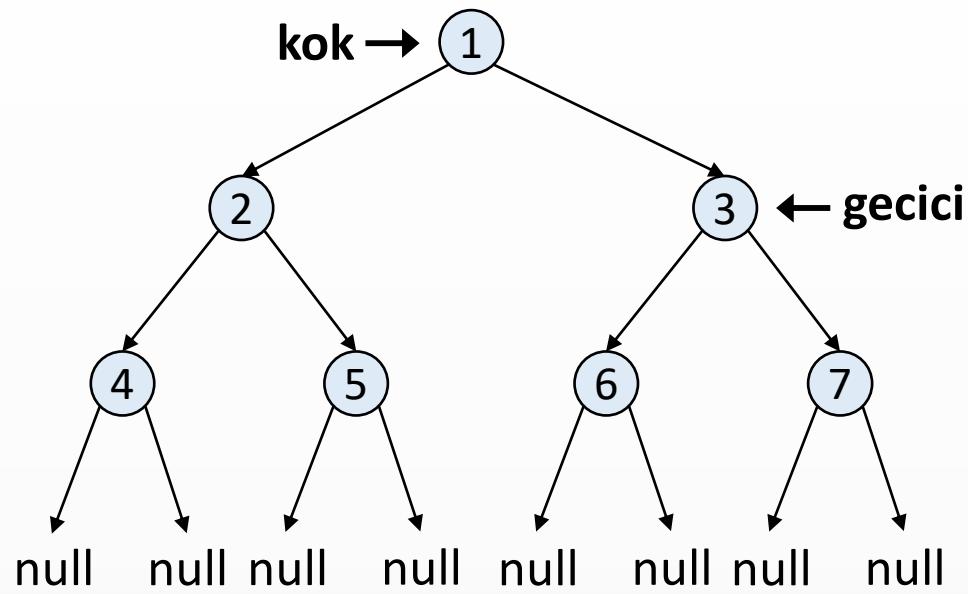
Cıktı: 1 2 4 5 3

```
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);  
    }  
}
```



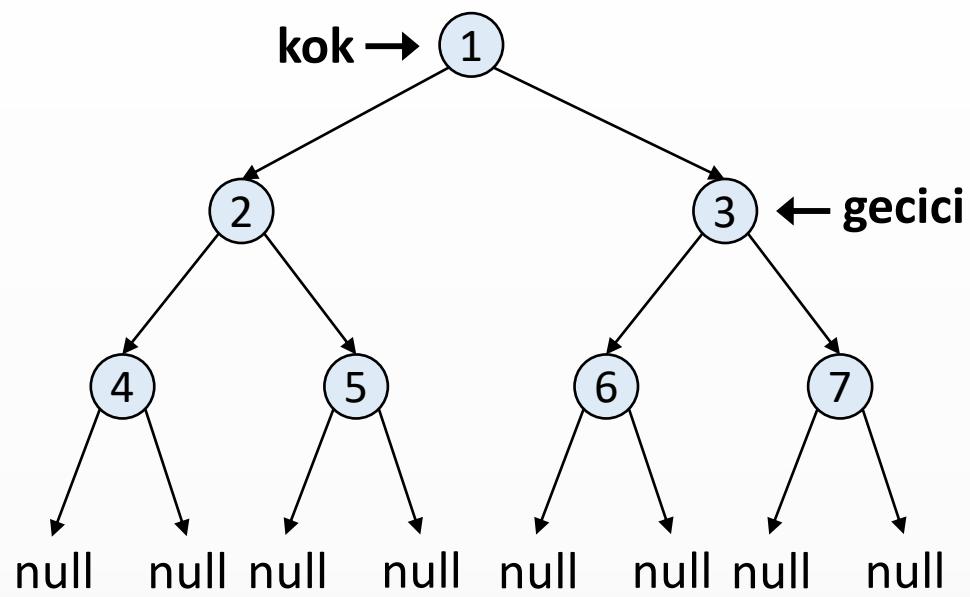
Çıktı: 1 2 4 5 3

```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
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        yigit.push(gecici.sol);  
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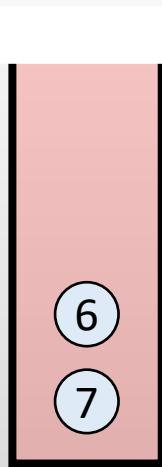
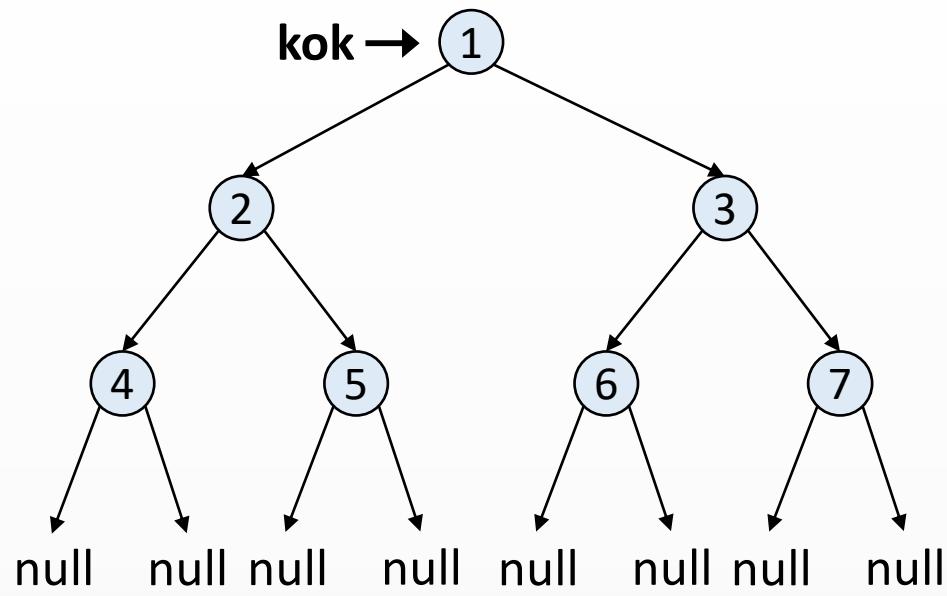
Cıktı: 1 2 4 5 3

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



Çıktı: 1 2 4 5 3

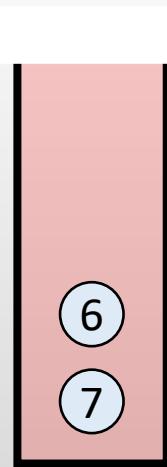
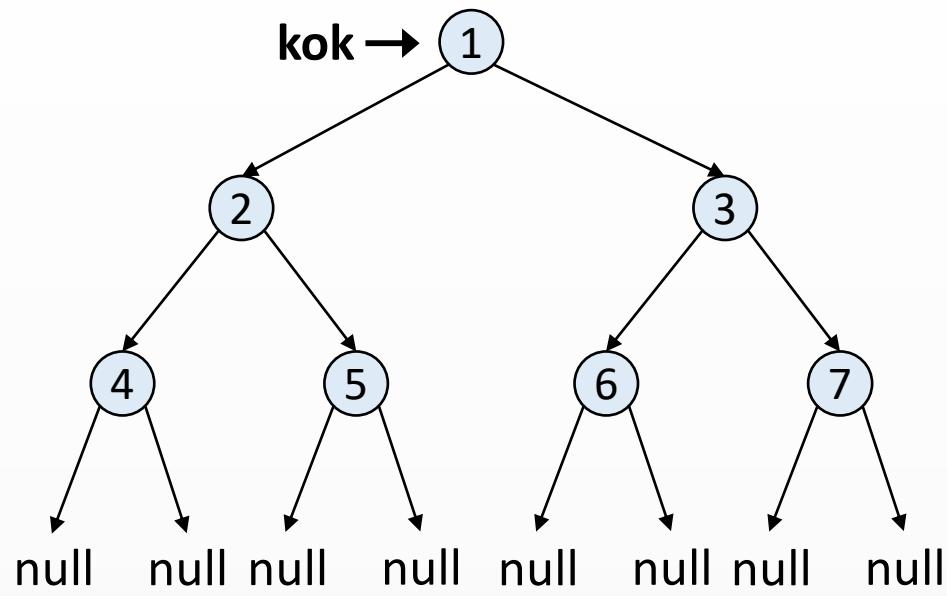
```
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        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Cıktı: 1 2 4 5 3

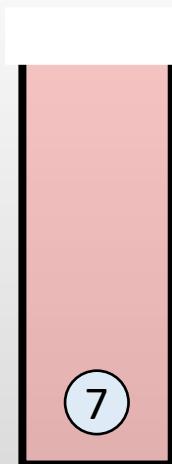
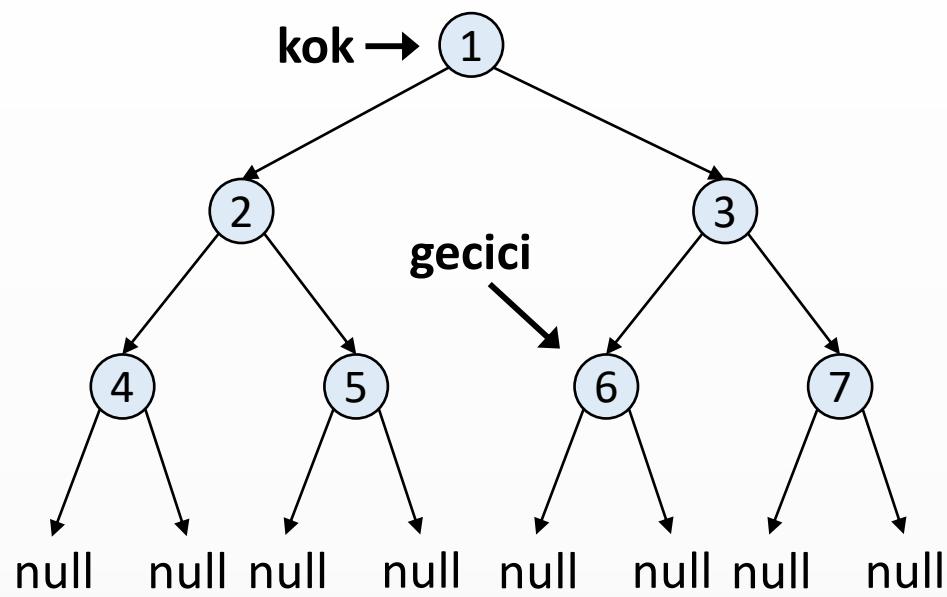
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);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



Yığıt

Cıktı: 1 2 4 5 3

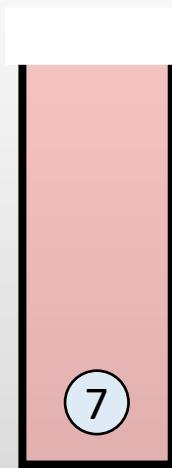
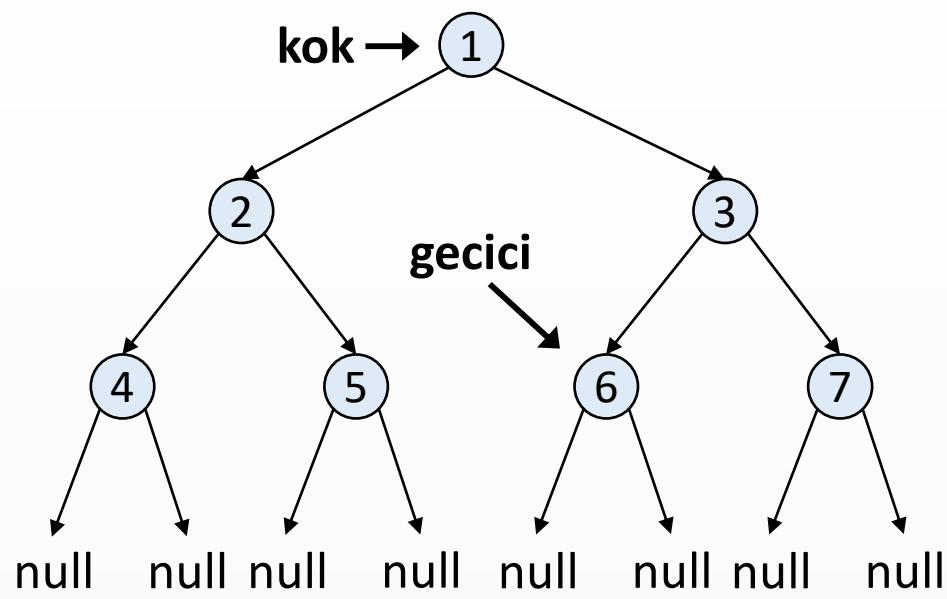
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
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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



Yığıt

Cıktı: 1 2 4 5 3

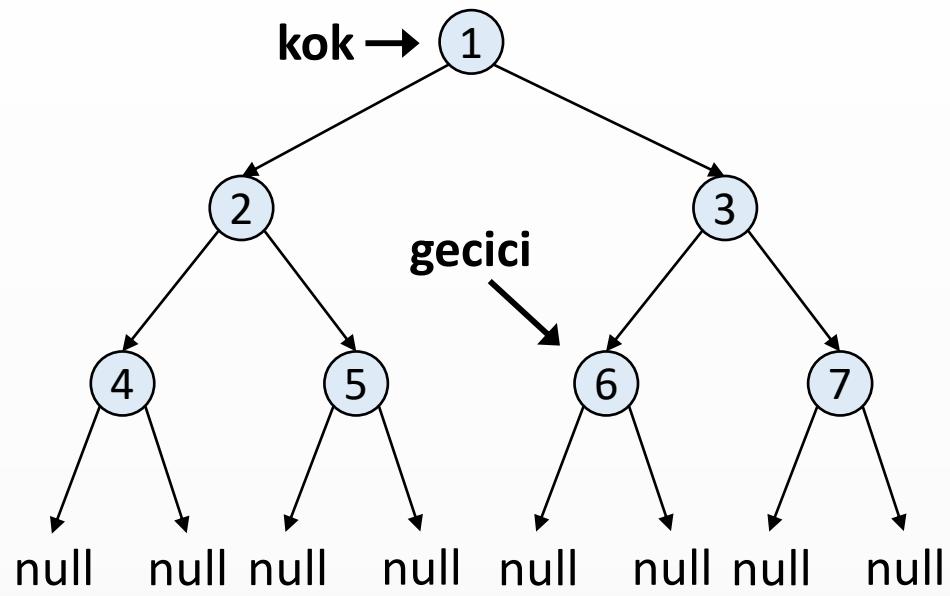
```
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Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
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        yigit.push(gecici.sag);  
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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



Yığıt

Cıktı: 1 2 4 5 3 6

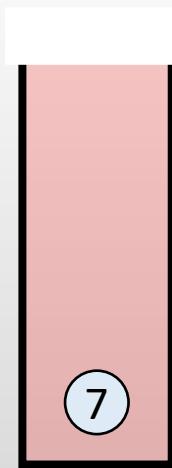
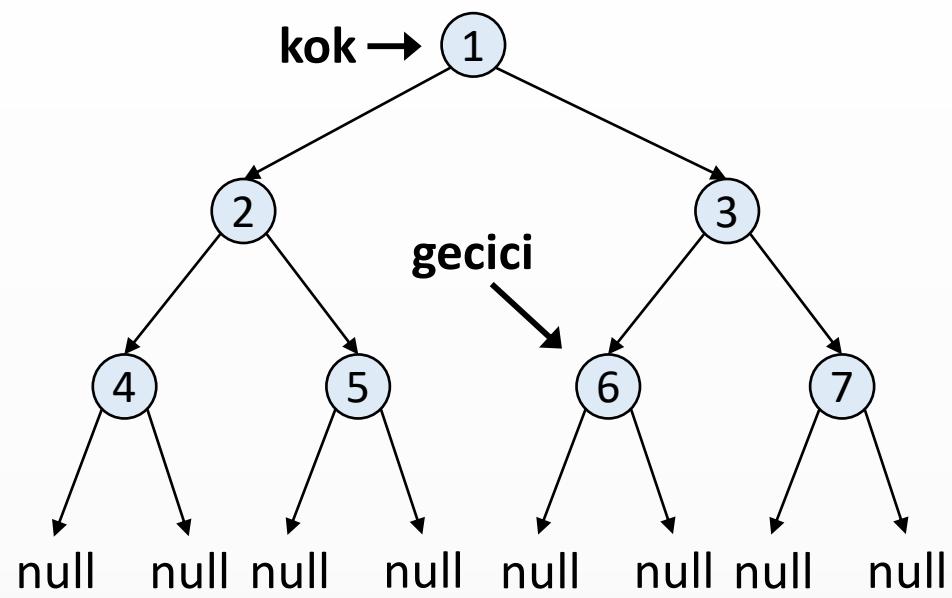
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3 6

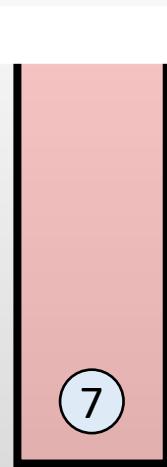
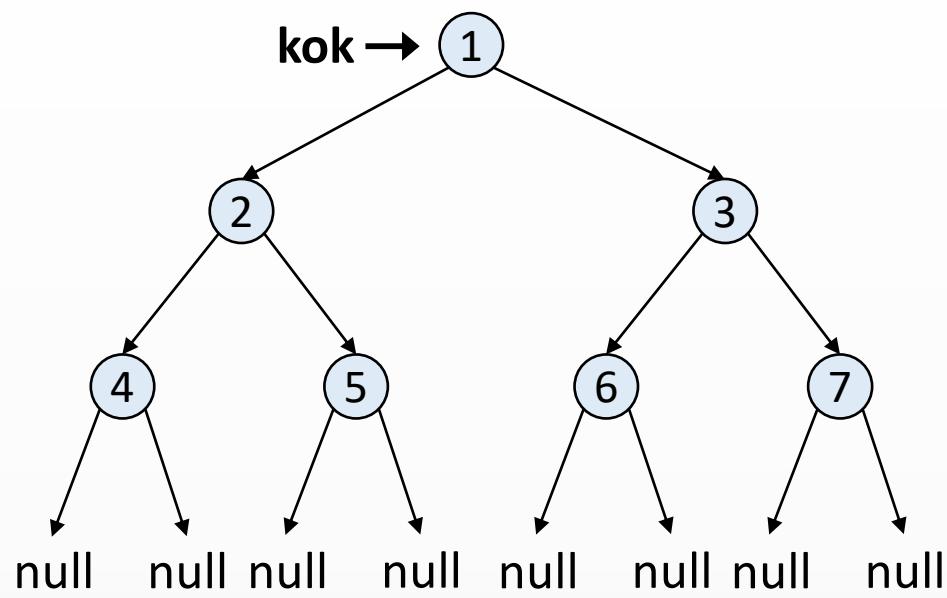
```
if(kok == null) {  
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yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
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        yigit.push(gecici.sag);  
    }  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



Yığıt

Cıktı: 1 2 4 5 3 6

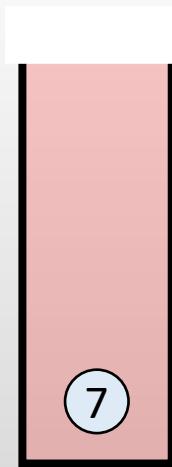
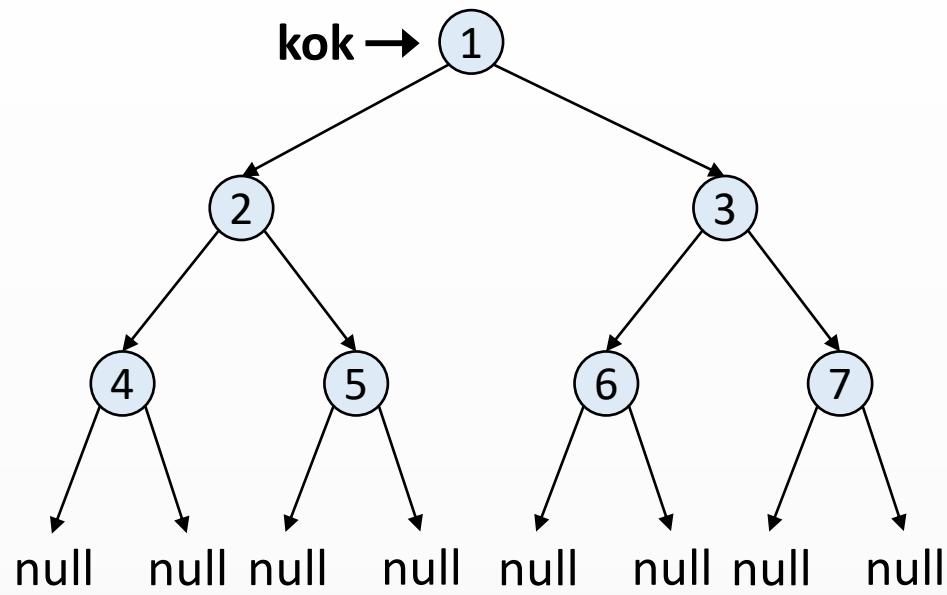
```
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    }  
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```



Yığıt

Cıktı: 1 2 4 5 3 6

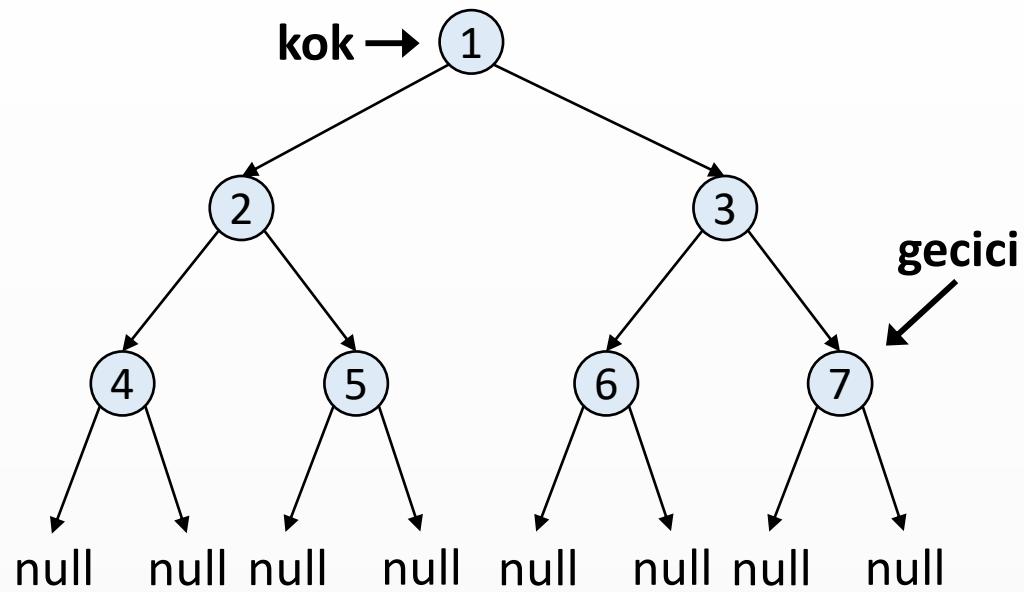
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}  
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        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Cıktı: 1 2 4 5 3 6

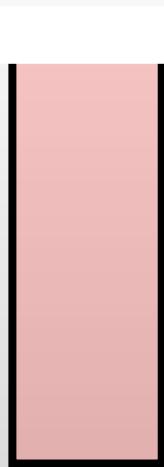
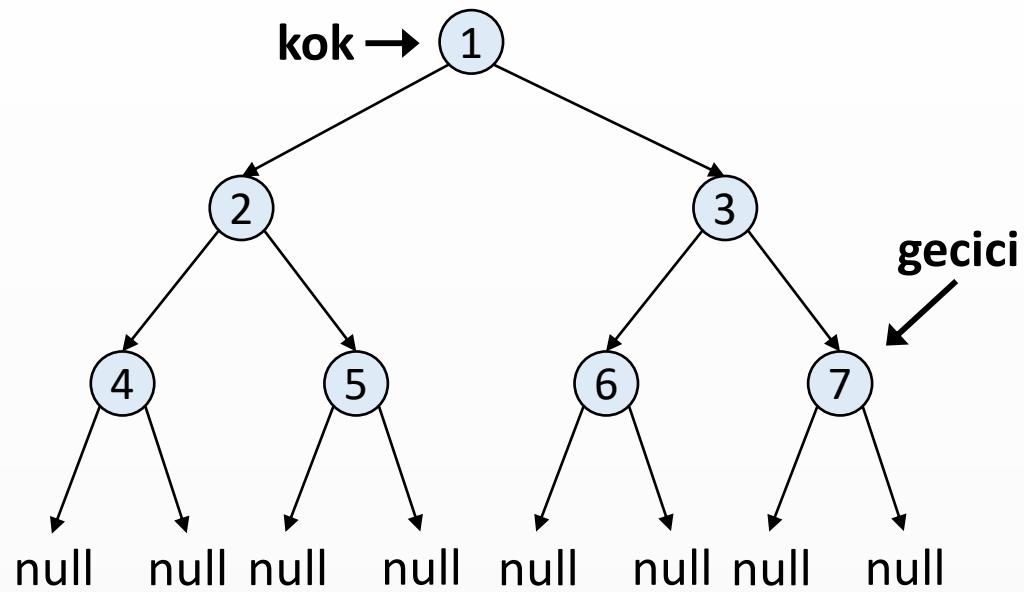
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Yığıt

Cıktı: 1 2 4 5 3 6

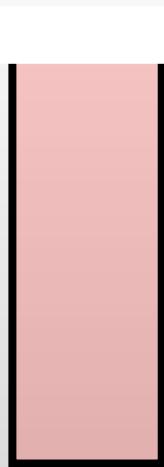
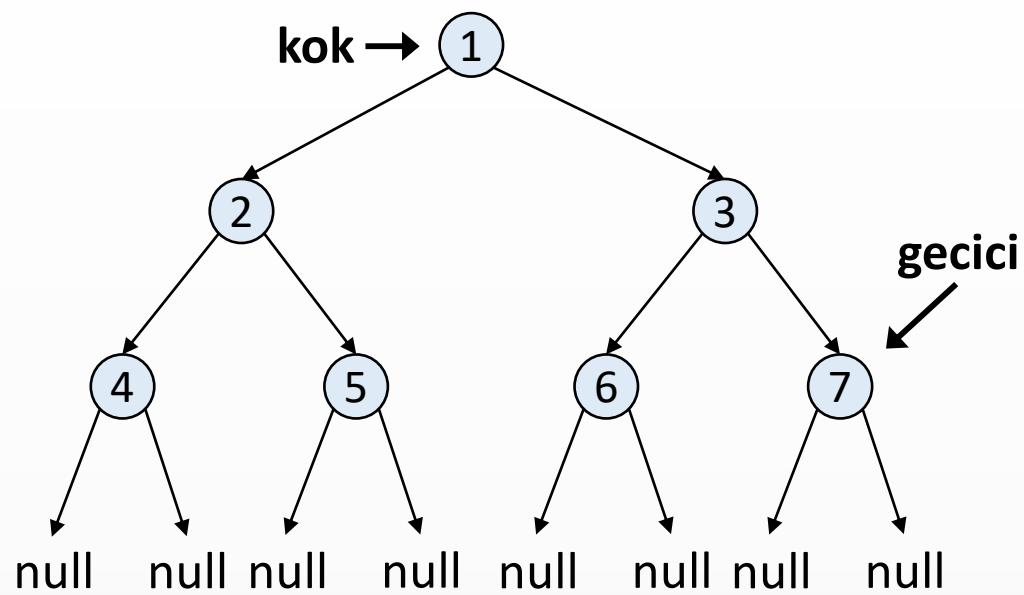
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        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1 2 4 5 3 6 7

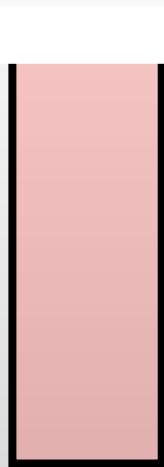
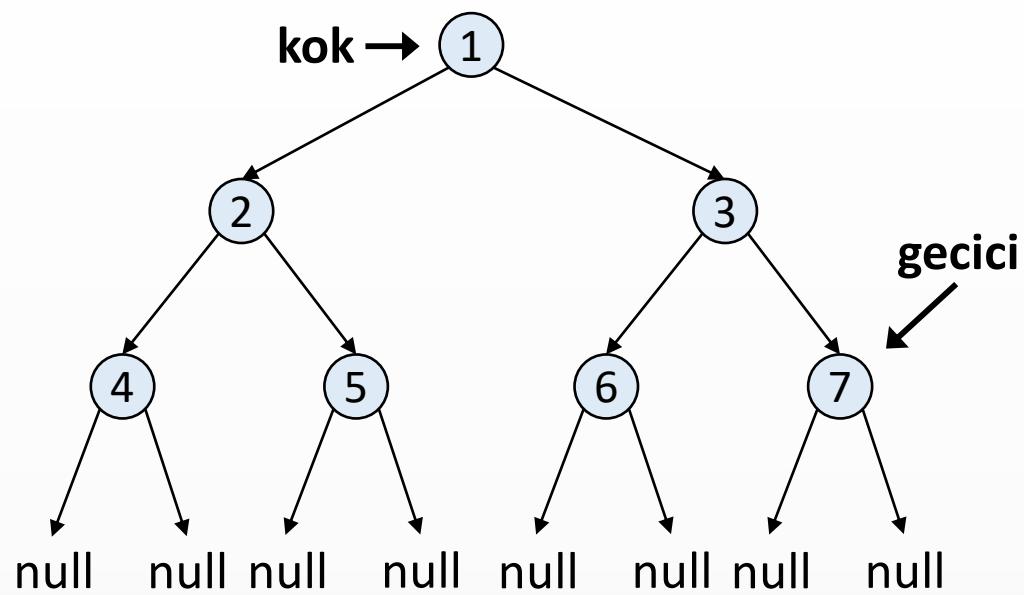
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);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



Yığıt

Cıktı: 1 2 4 5 3 6 7

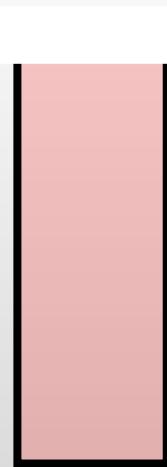
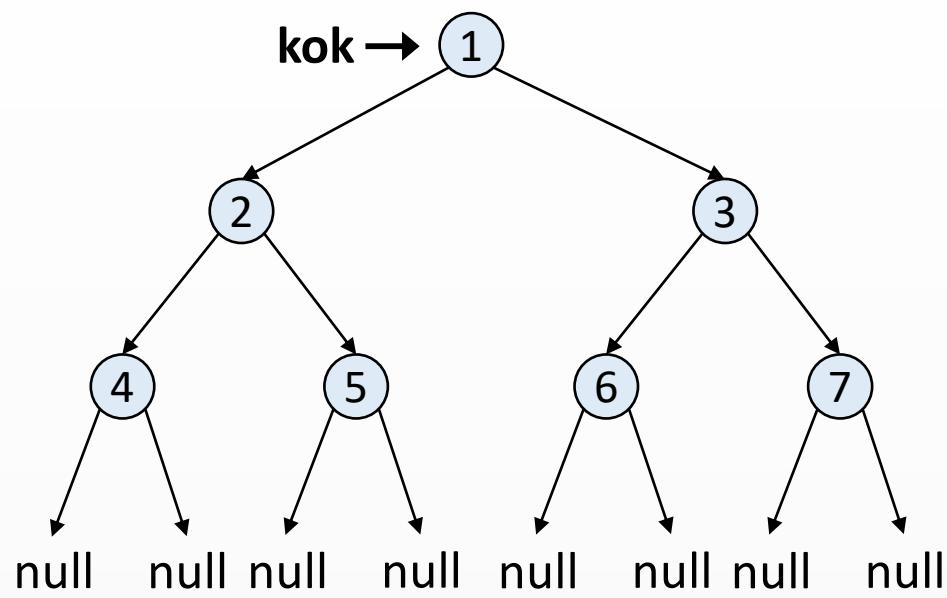
```
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    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
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    }  
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```



Yığıt

Cıktı: 1 2 4 5 3 6 7

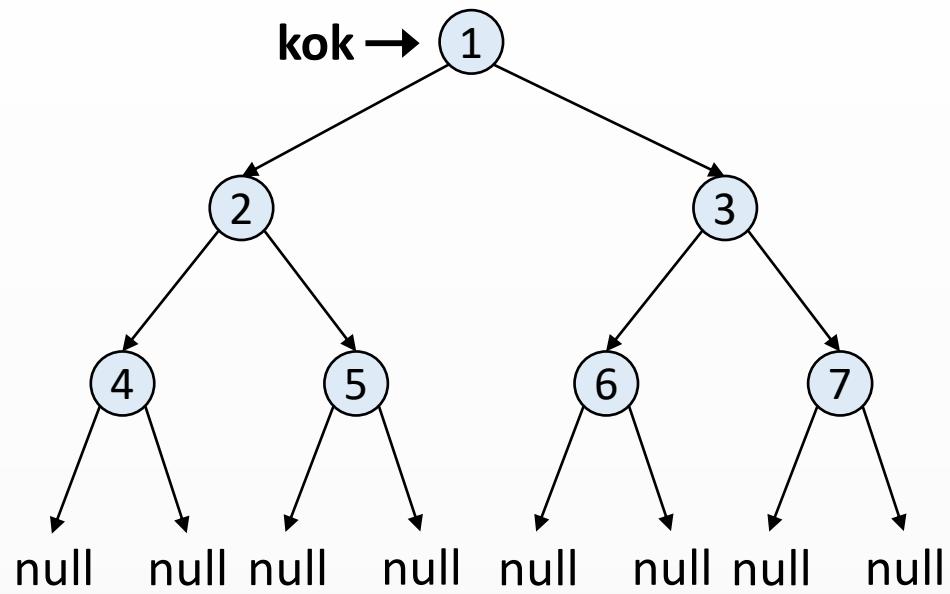
```
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Yığıt

Cıktı: 1 2 4 5 3 6 7

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Çıktı: 1 2 4 5 3 6 7



```

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

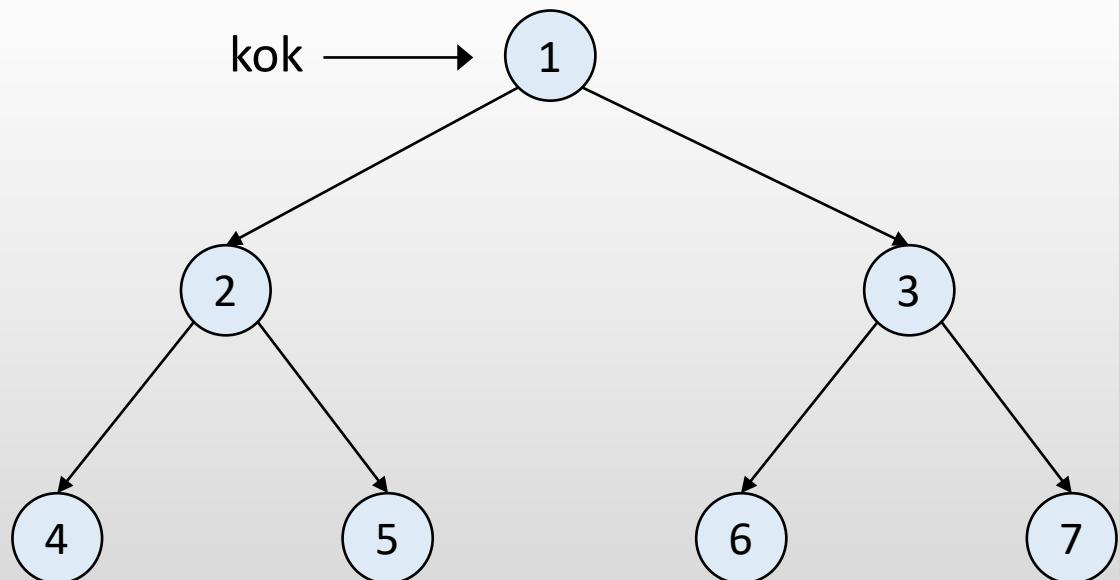


# Kök Ortada (Inorder) Dolasımı



# Kök Ortada (Inorder) Dolasımı

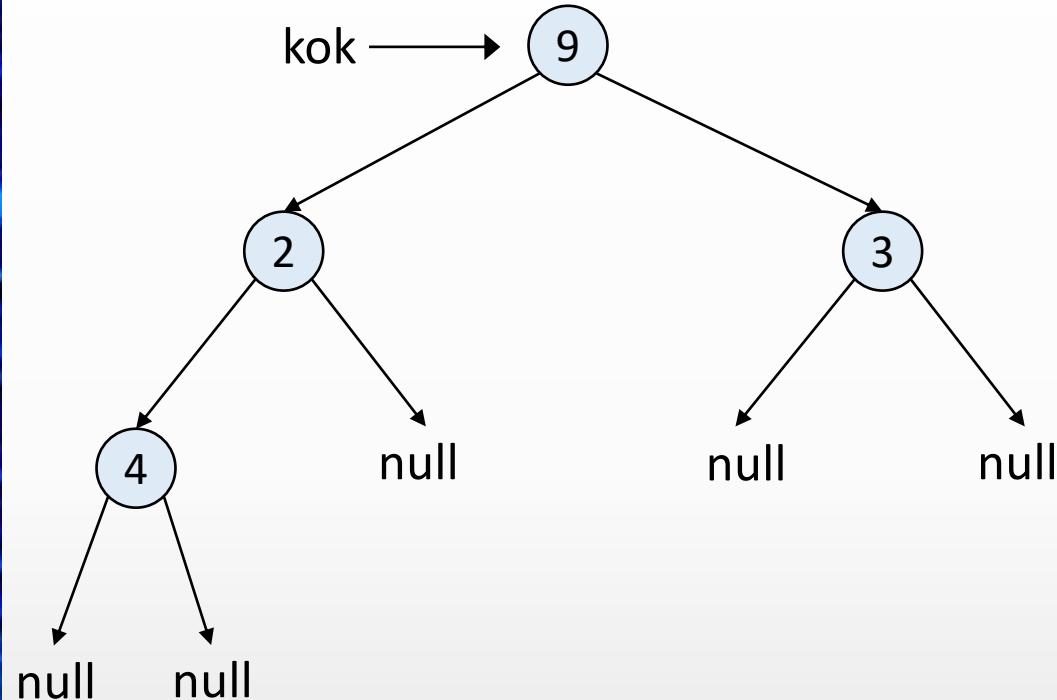
- Kök ortada olacak şekilde sol alt ağacı dolaş.
- Kök düğümü ziyaret et.
- Kök ortada olacak şekilde sağ alt ağacı dolaş.



Kök ortada dolasımı: 4 2 5 1 6 3 7



## Çağırma Yığıtı (Call Stack)



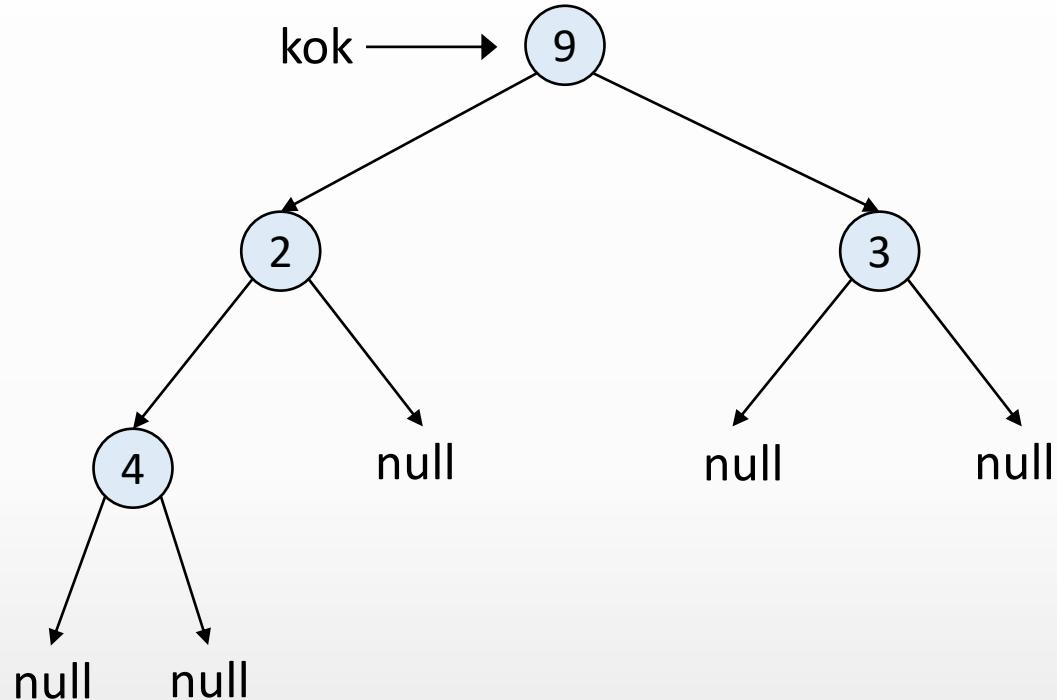
Çıktı:

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)



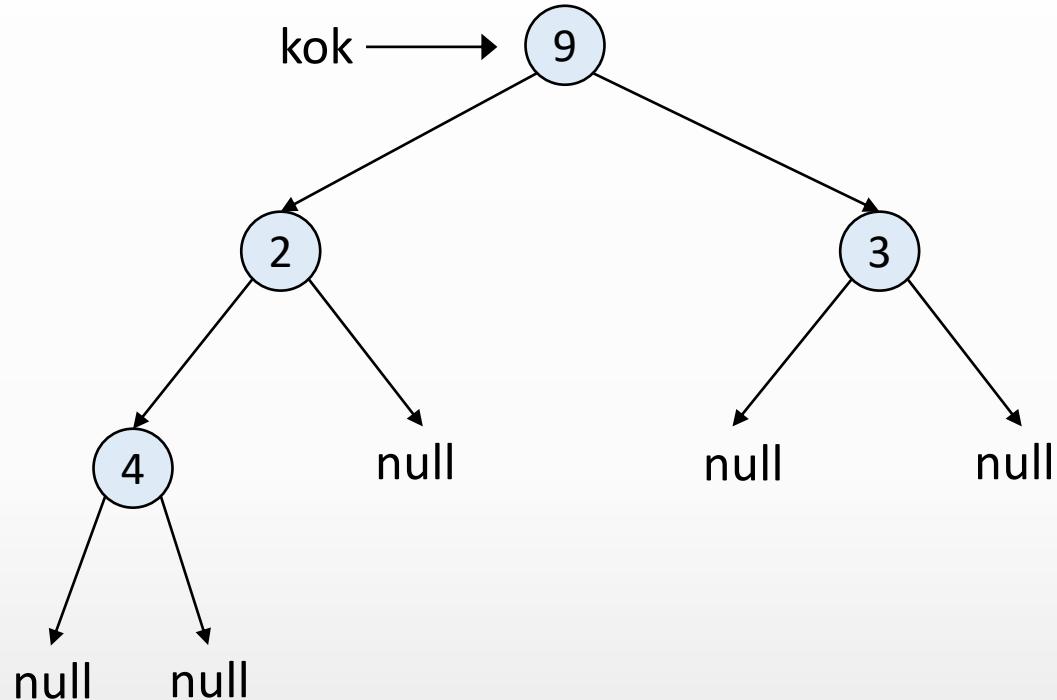
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()		9

Çıktı:

```
→ 1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
4     }  
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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()		9

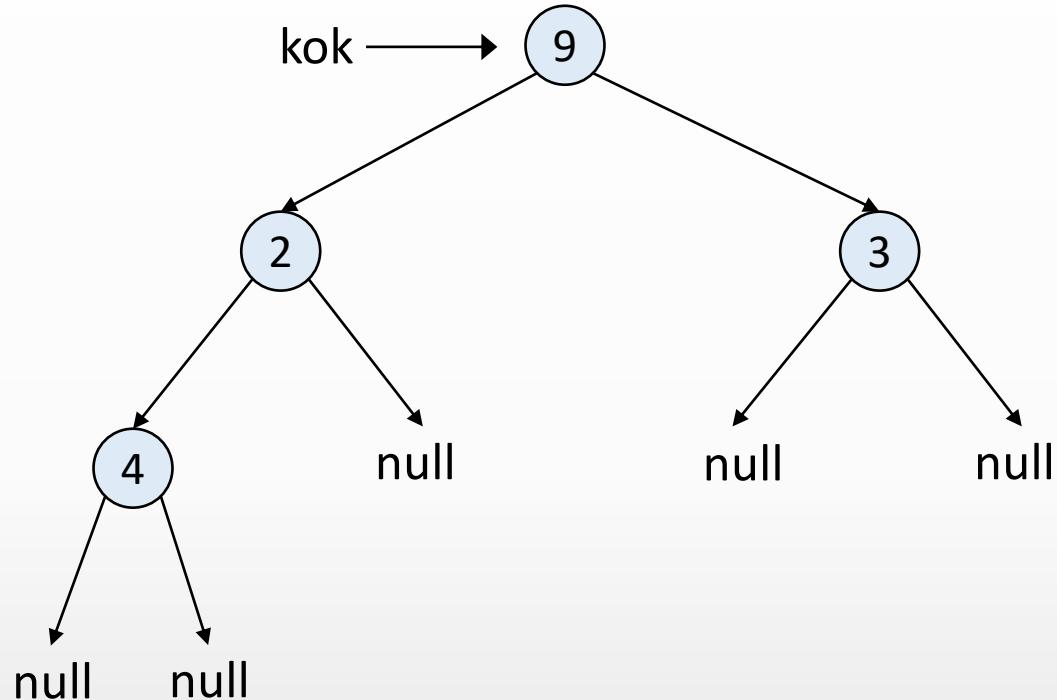
Çıktı:



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



## Çağırma Yığıtı (Call Stack)



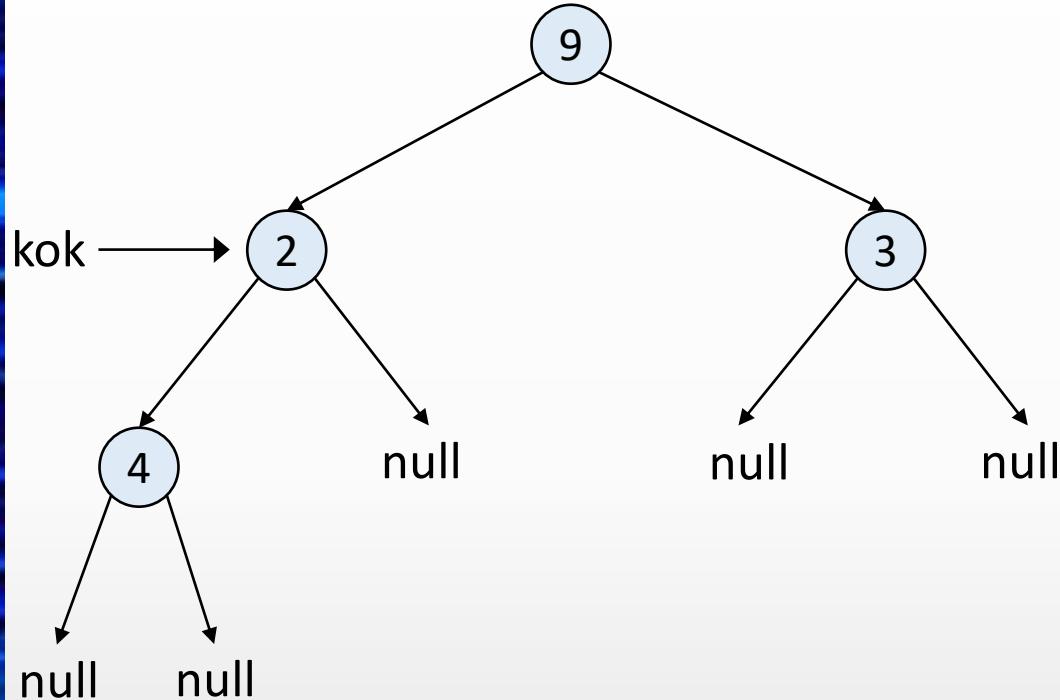
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

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)



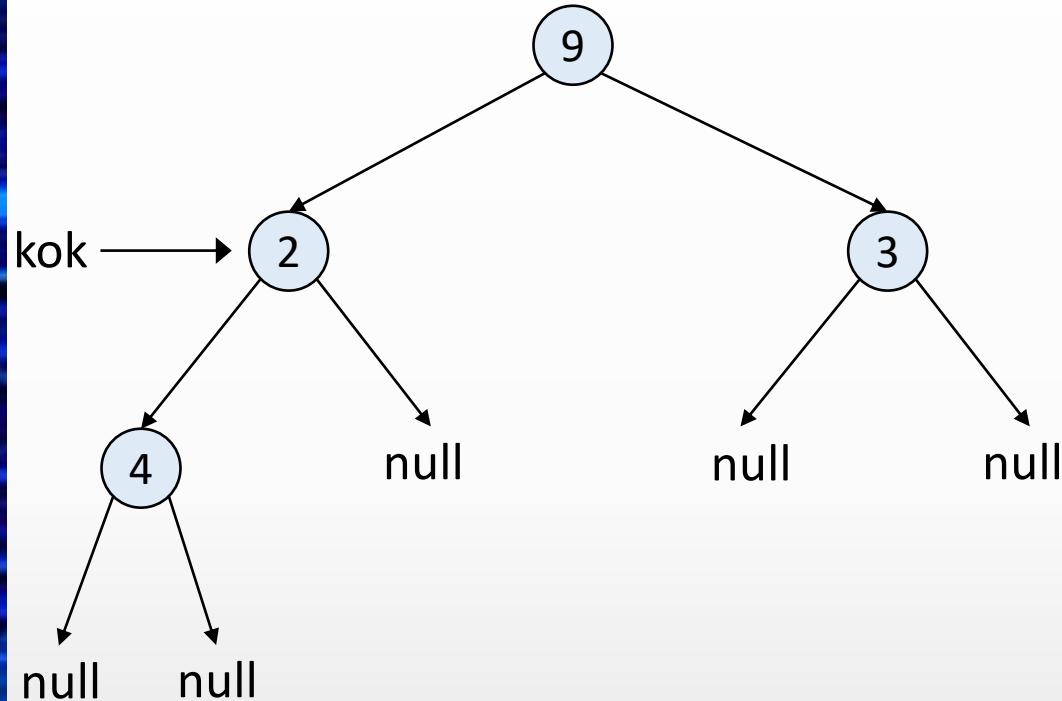
Çıktı:

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

```
→ 1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
5     kokOrtada(kok.sol);  
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## Çağırma Yığıtı (Call Stack)



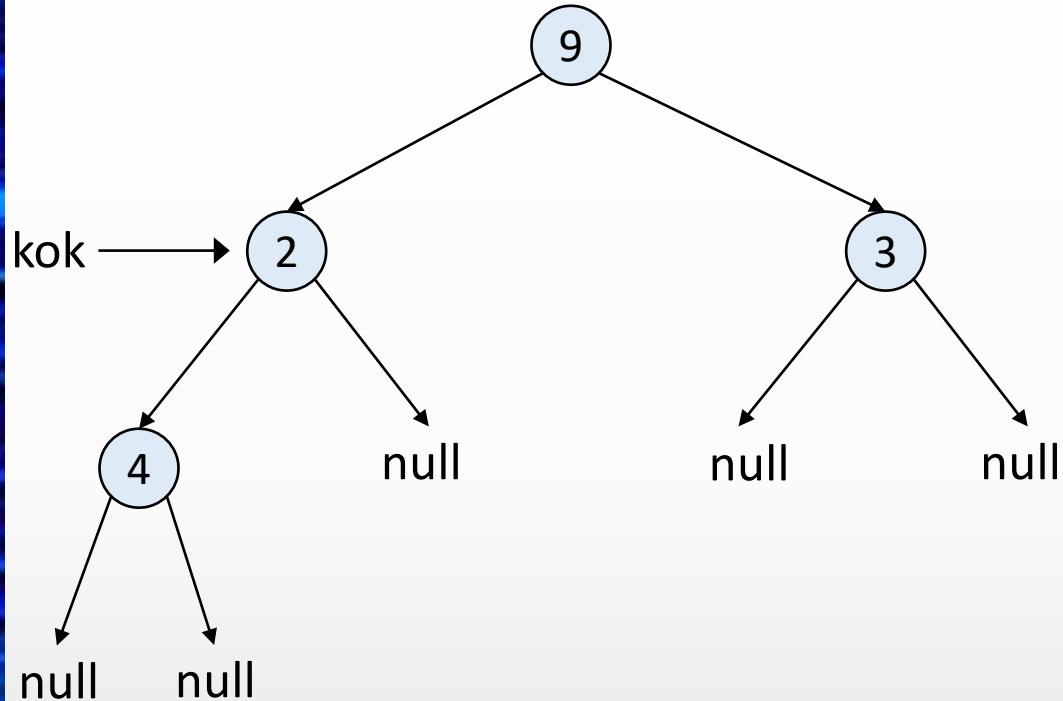
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()		2

Çıktı:

```
1 public void kokOrtada(AgacDugumu kok) {  
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8 }
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## Çağırma Yığıtı (Call Stack)



Çıktı:

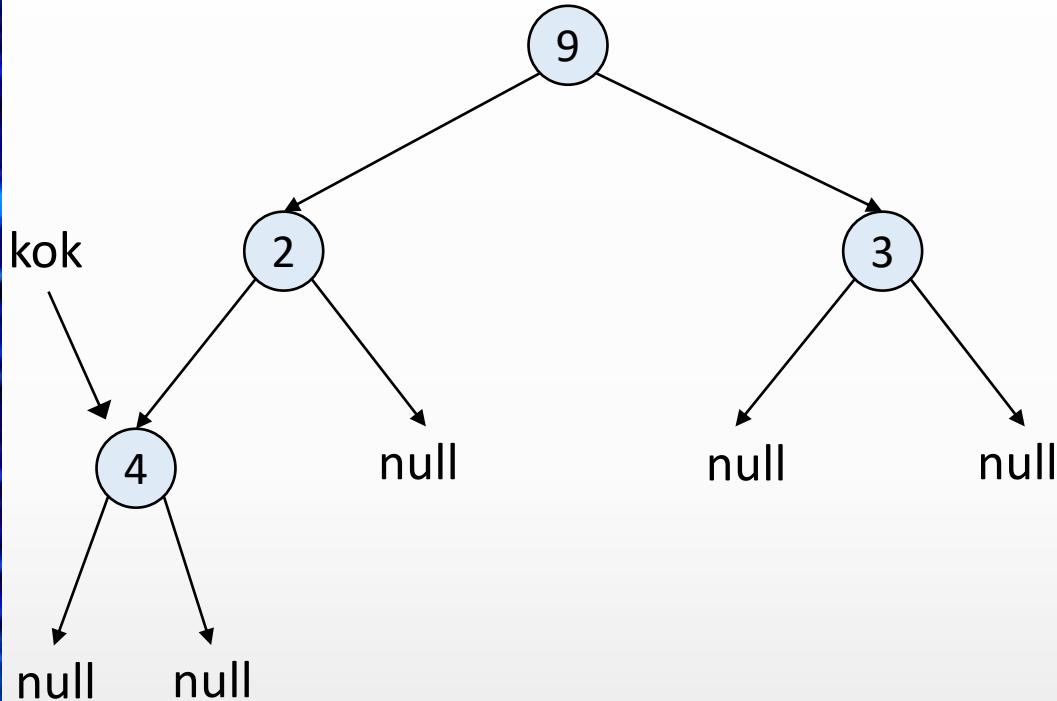
→

```
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:

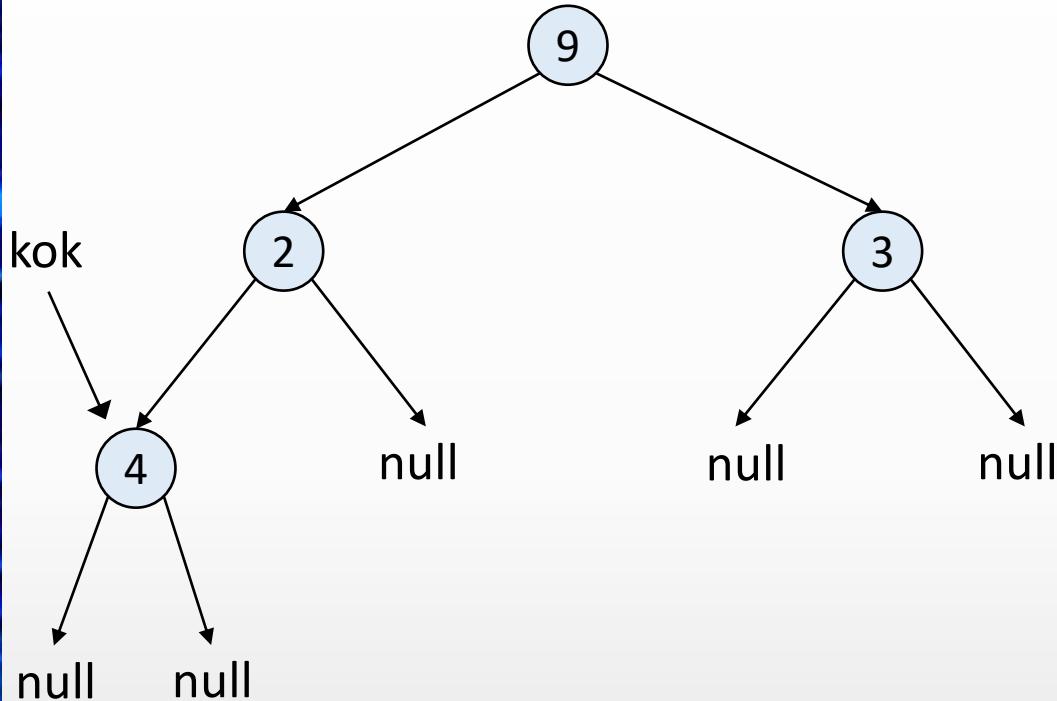
→

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



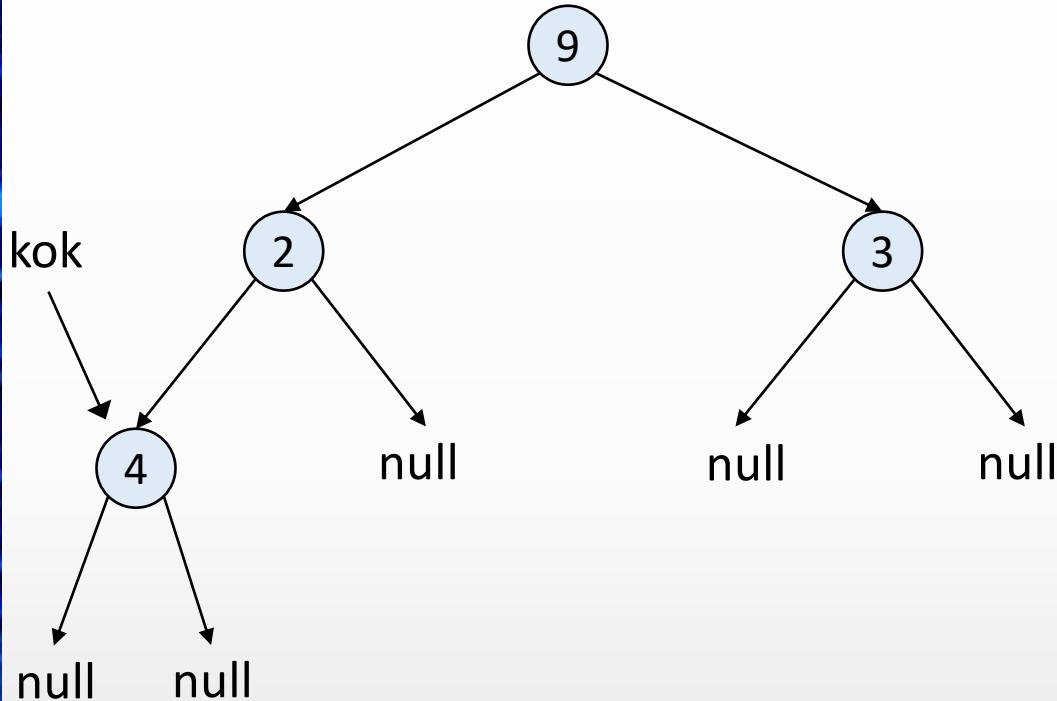
Çıktı:

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

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



## Çağırma Yığıtı (Call Stack)



Çıktı:



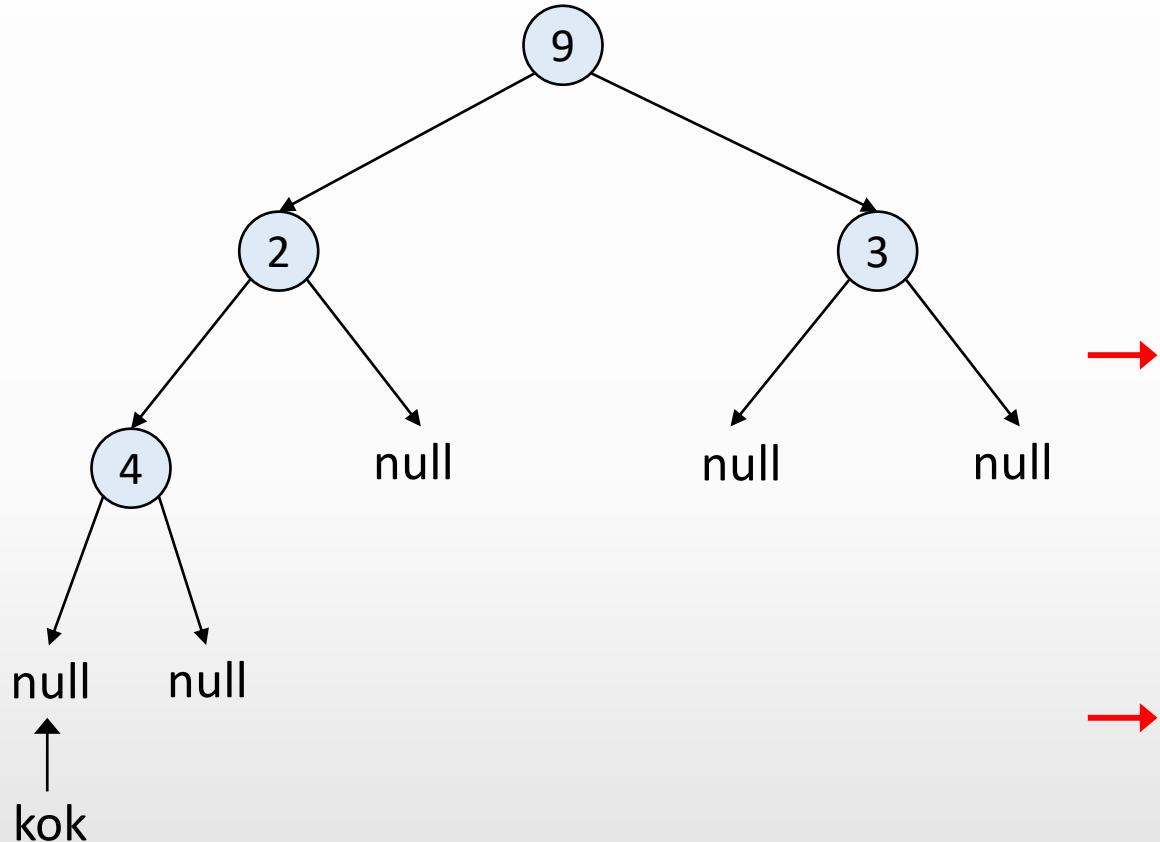
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



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



## Çağırma Yığıtı (Call Stack)

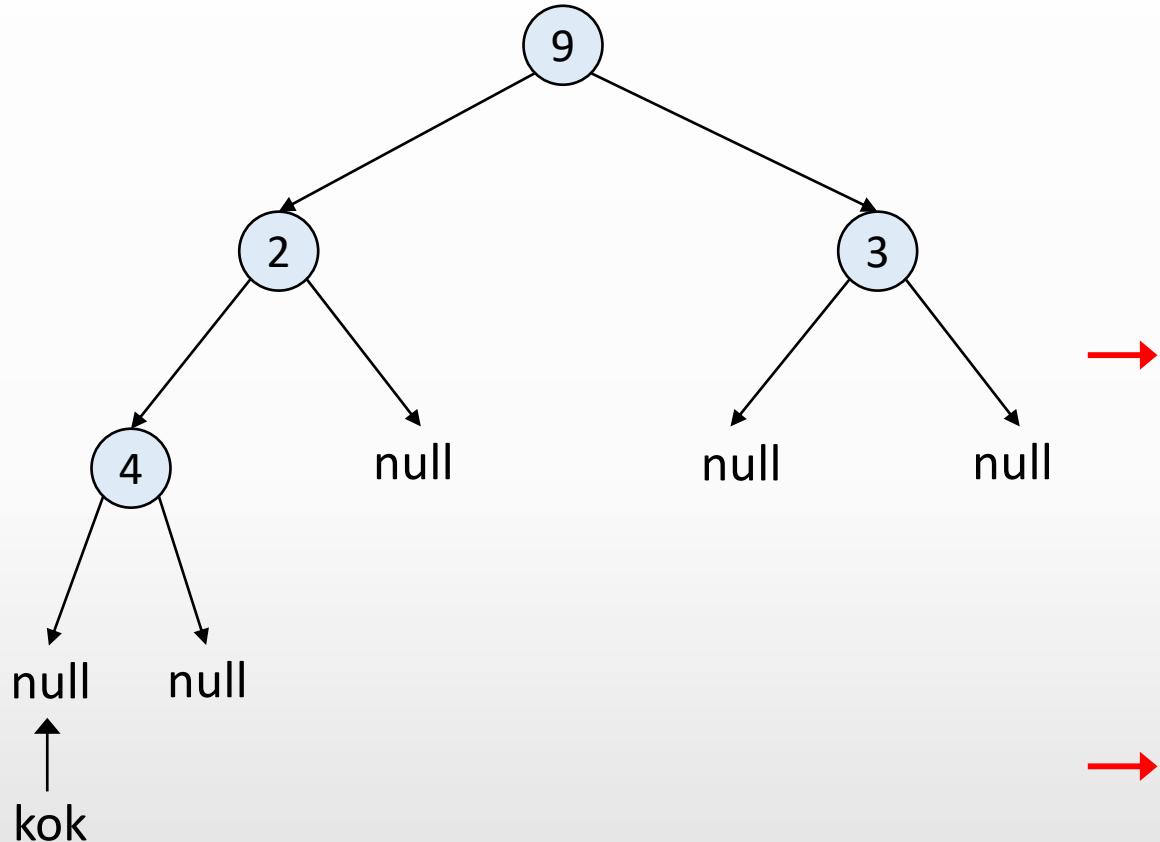


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

```
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)

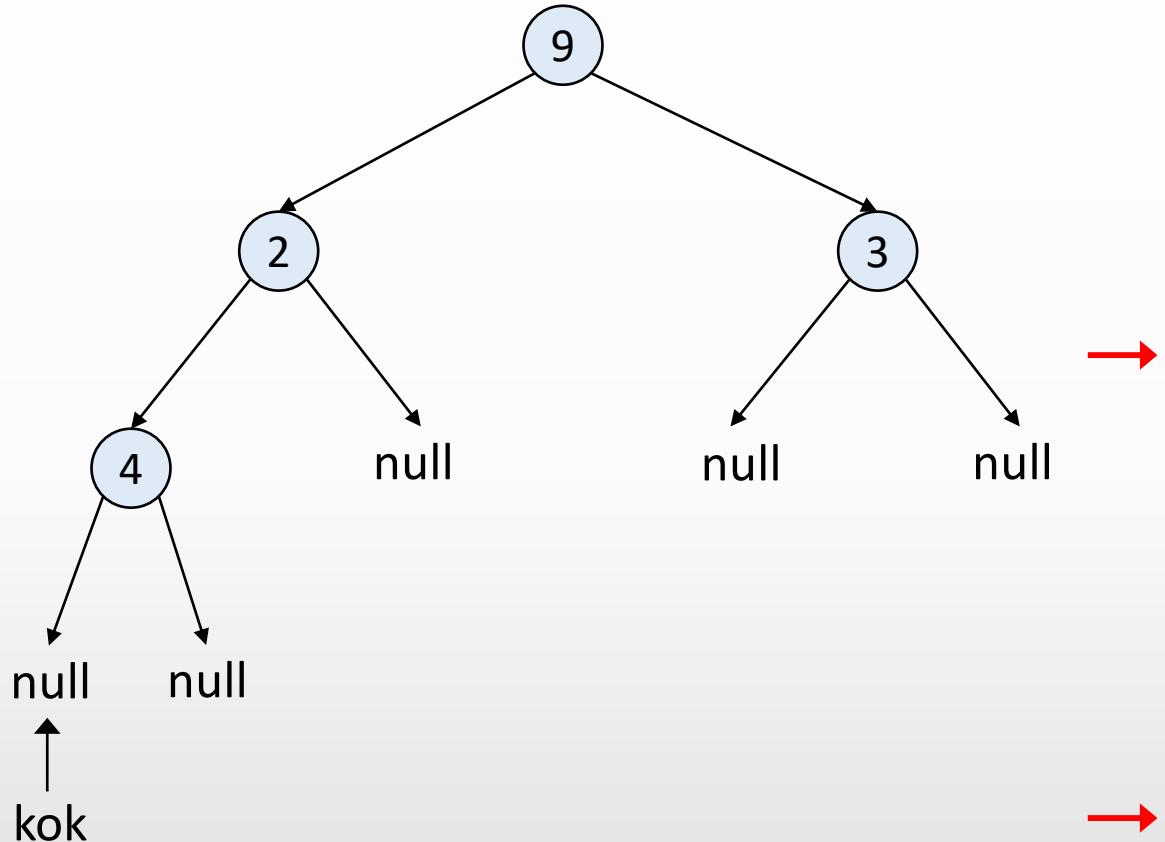


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

```
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)

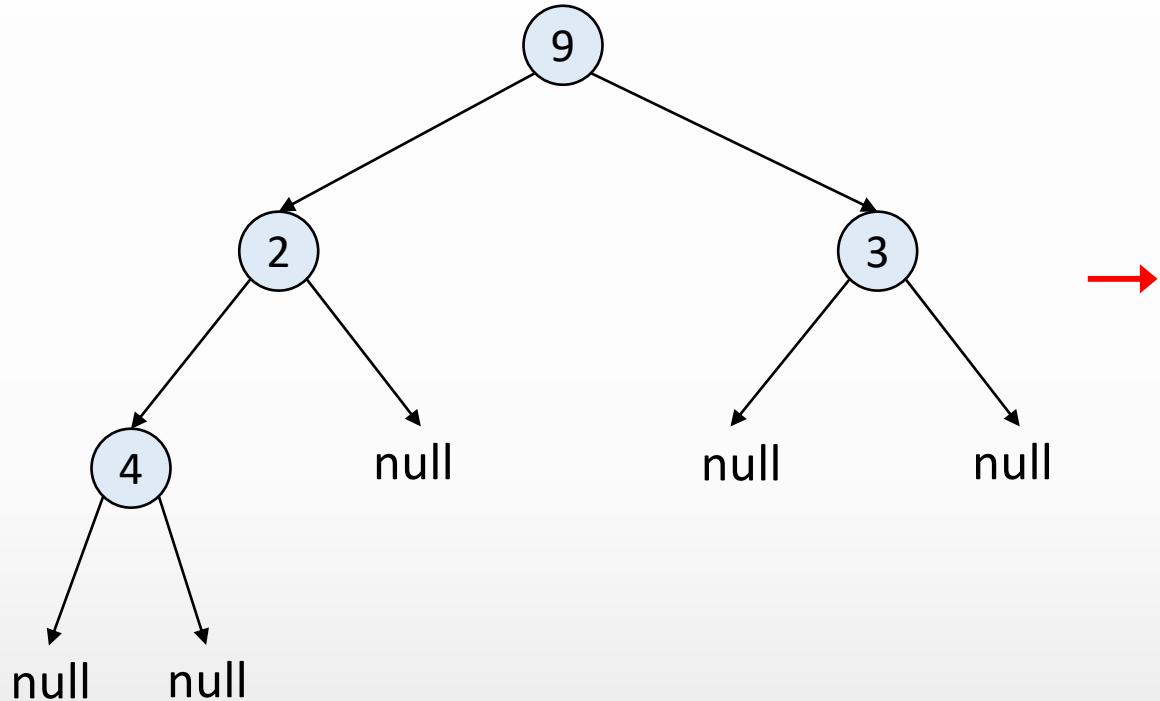


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

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



## Çağırma Yığıtı (Call Stack)



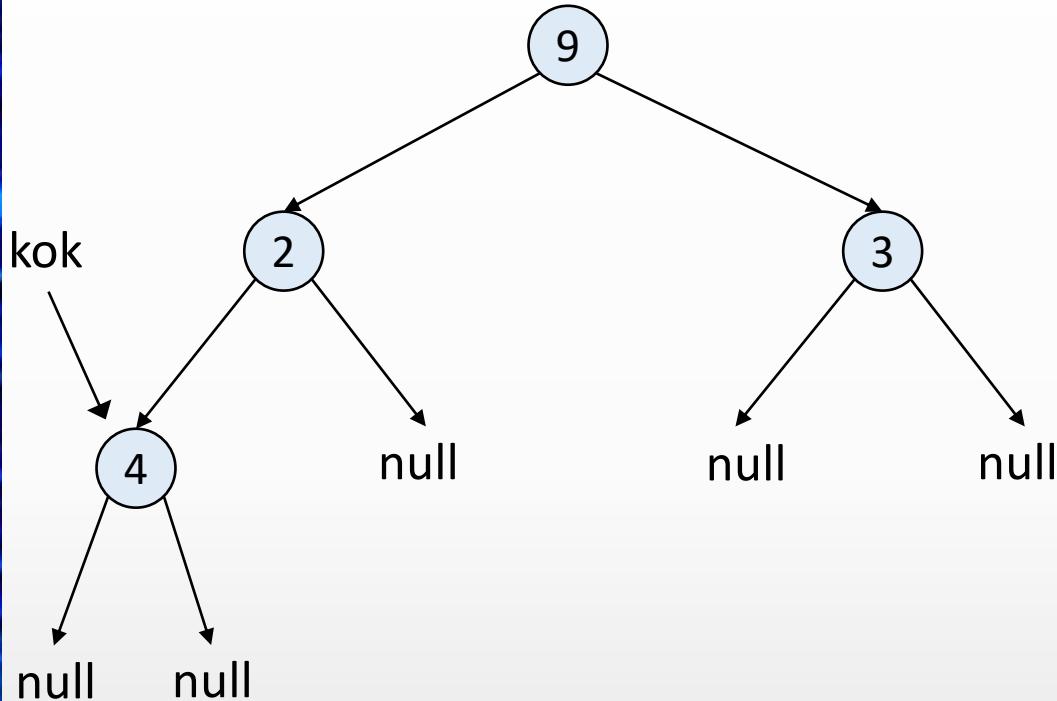
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4

Çıktı:

```
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 }
```



## Çağırma Yığıtı (Call Stack)



Çıktı:



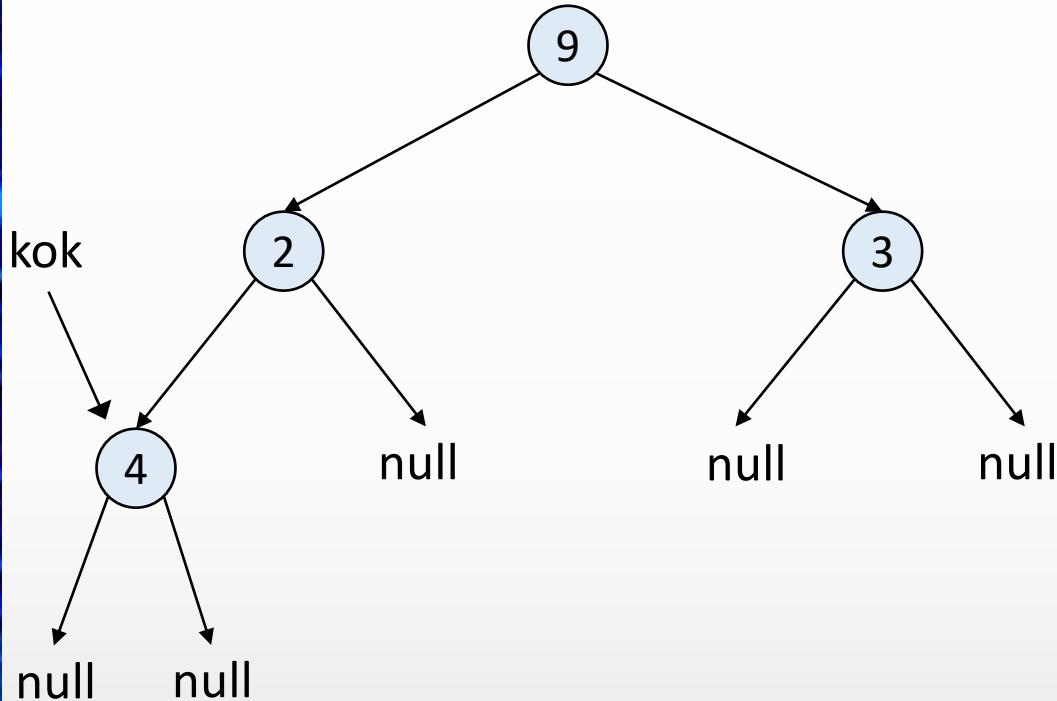
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4



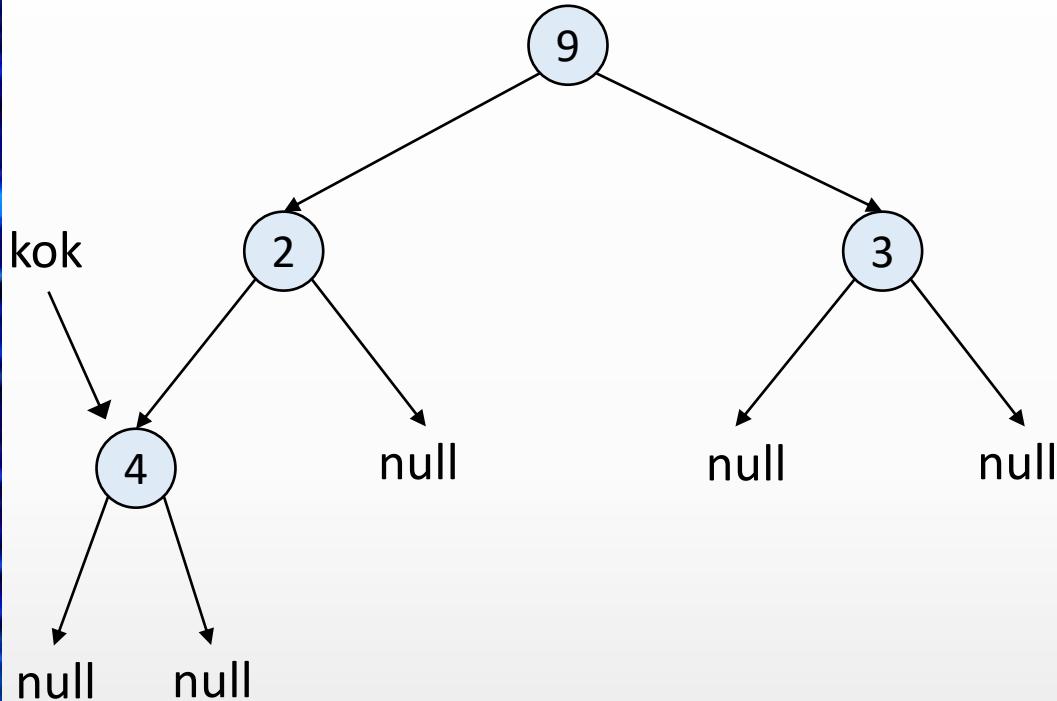
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



```
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)



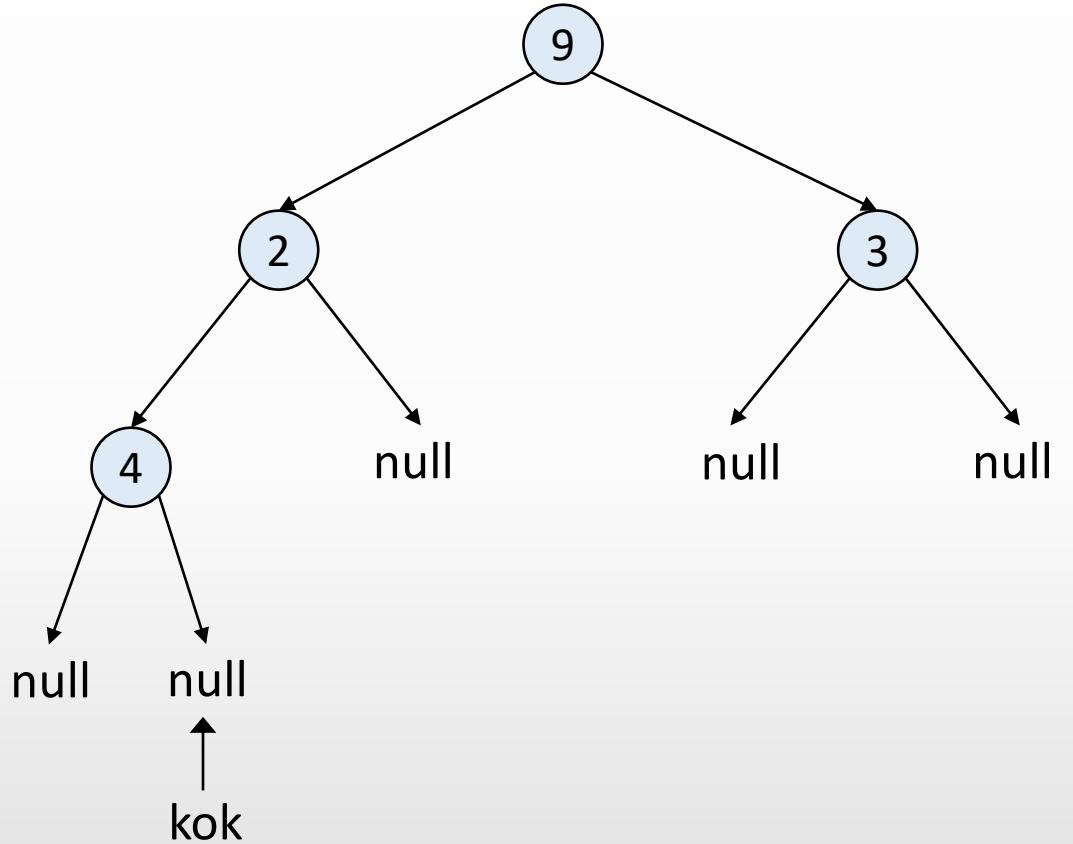
Cıktı: 4

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 + " ");  
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8 }
```



## Çağırma Yığıtı (Call Stack)



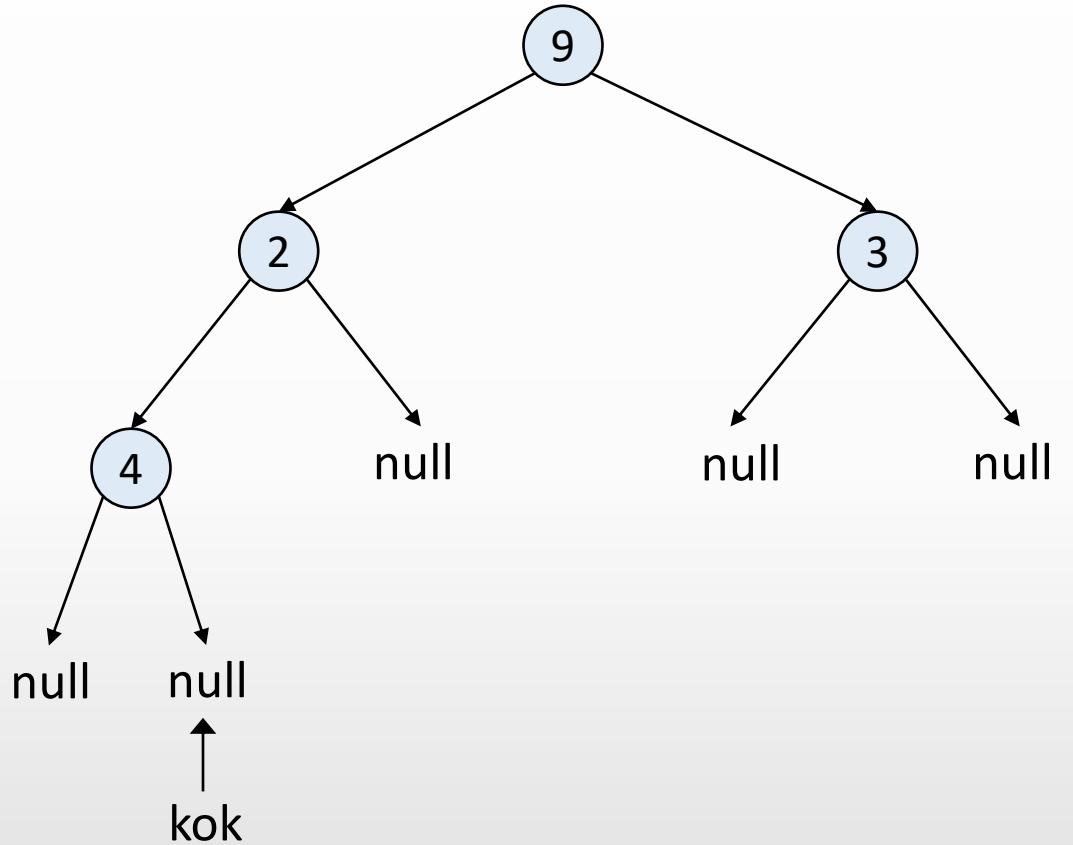
Çıktı: 4

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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```



## Çağırma Yığıtı (Call Stack)



Cıktı: 4



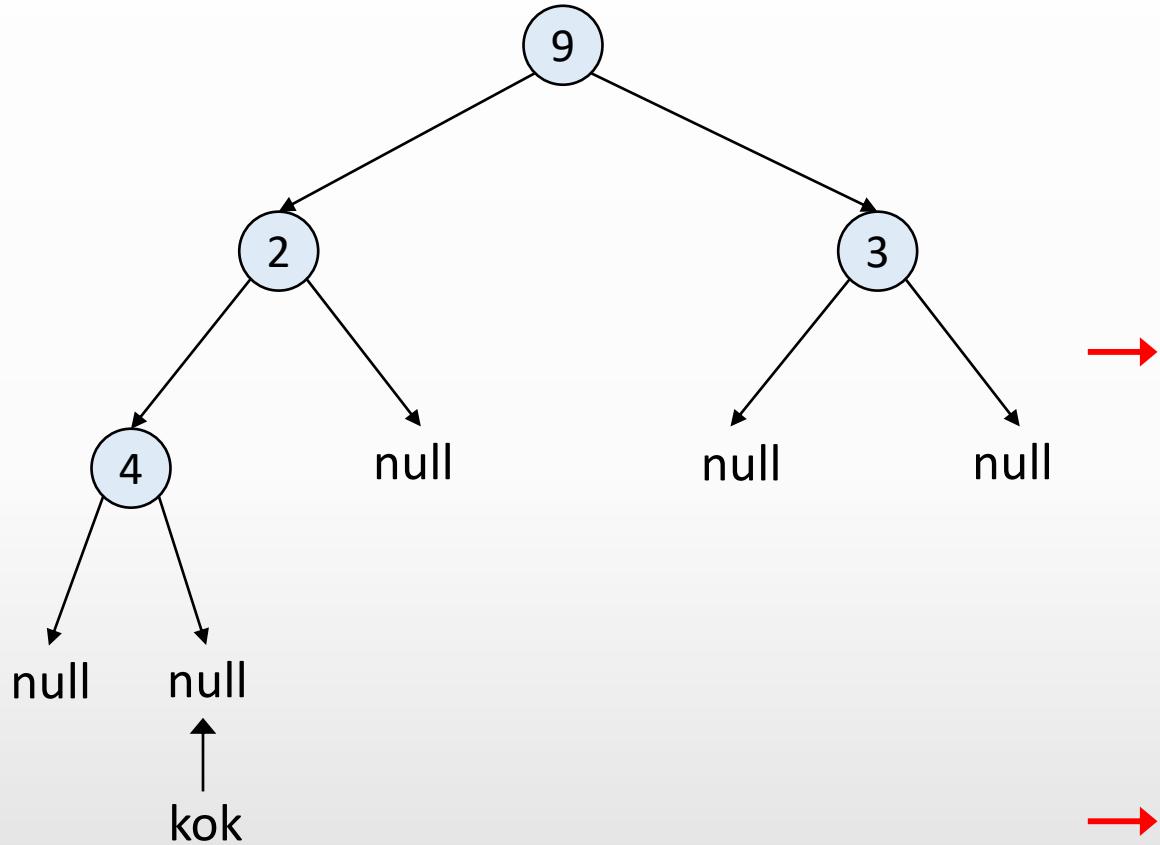
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
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8 }
```



## Çağırma Yığıtı (Call Stack)

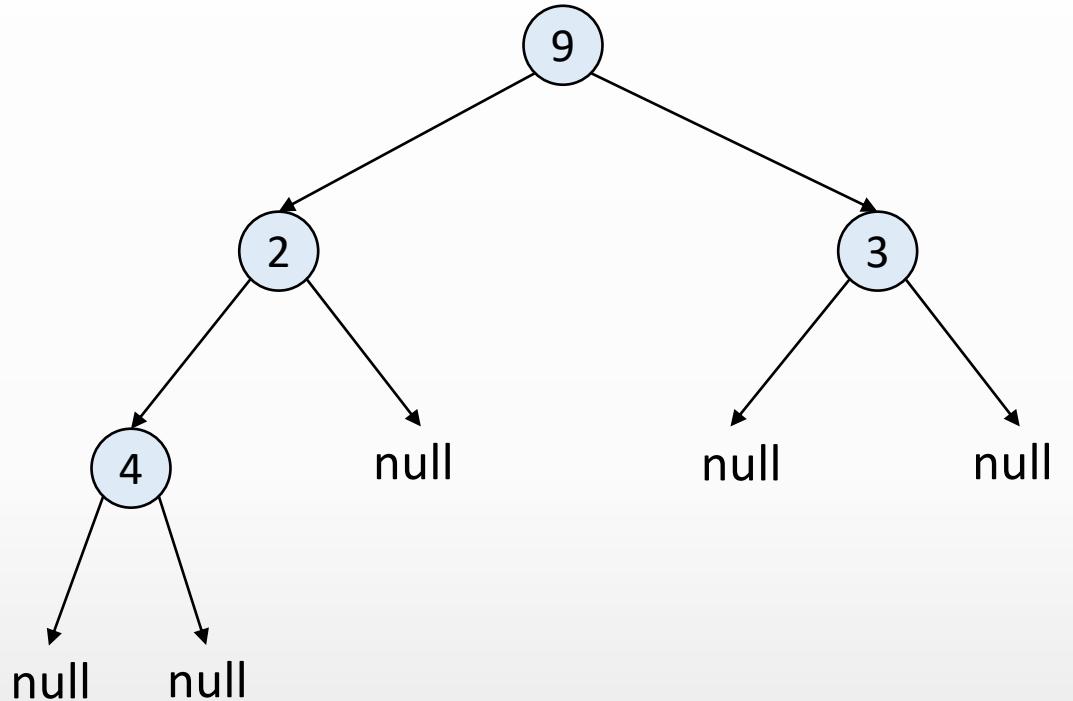


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4
kokOrtada()		null

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8 }
```



## Çağırma Yığıtı (Call Stack)



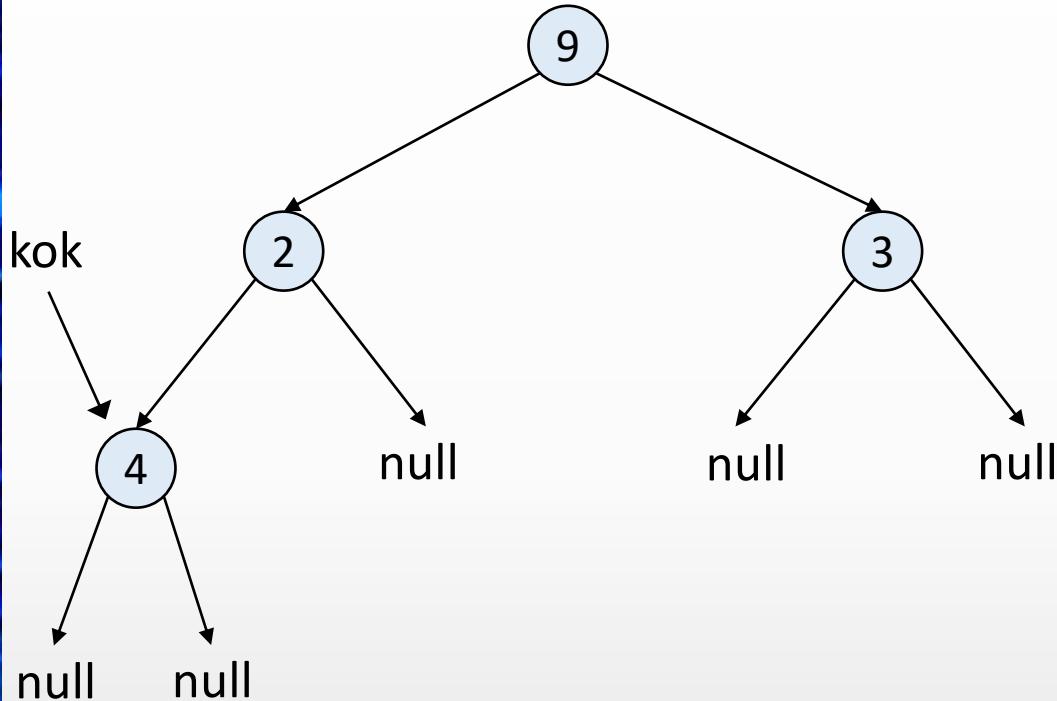
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
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Çıktı: 4

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## Çağırma Yığıtı (Call Stack)



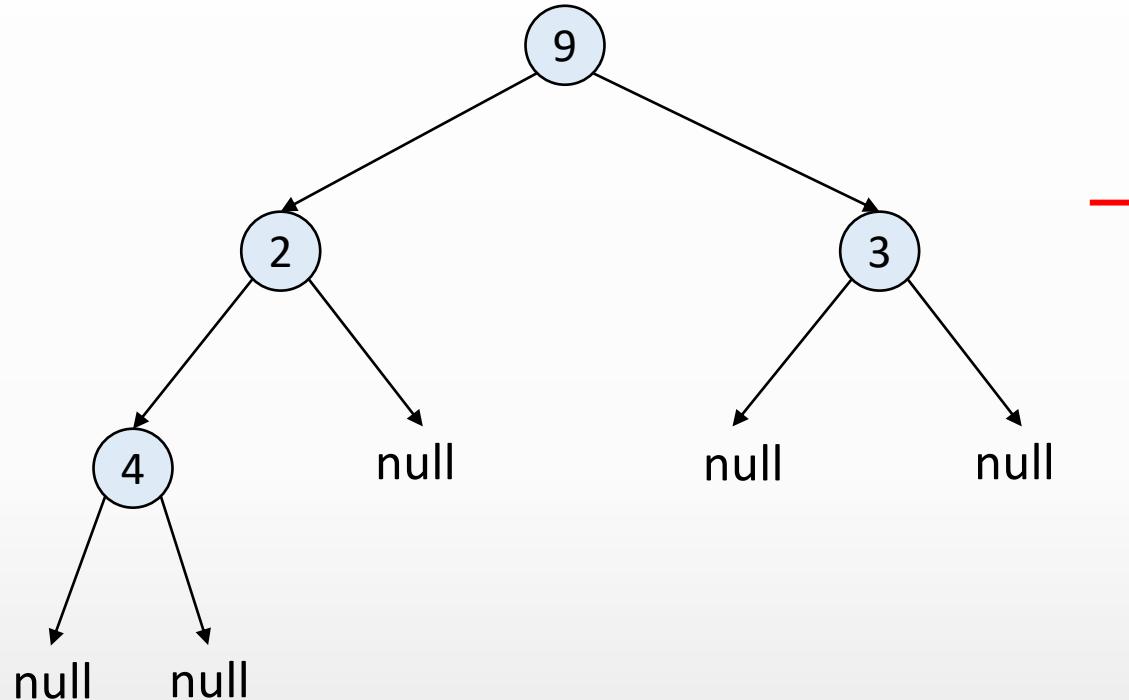
Cıktı: 4

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kokOrtada()	5	9
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## Çağırma Yığıtı (Call Stack)



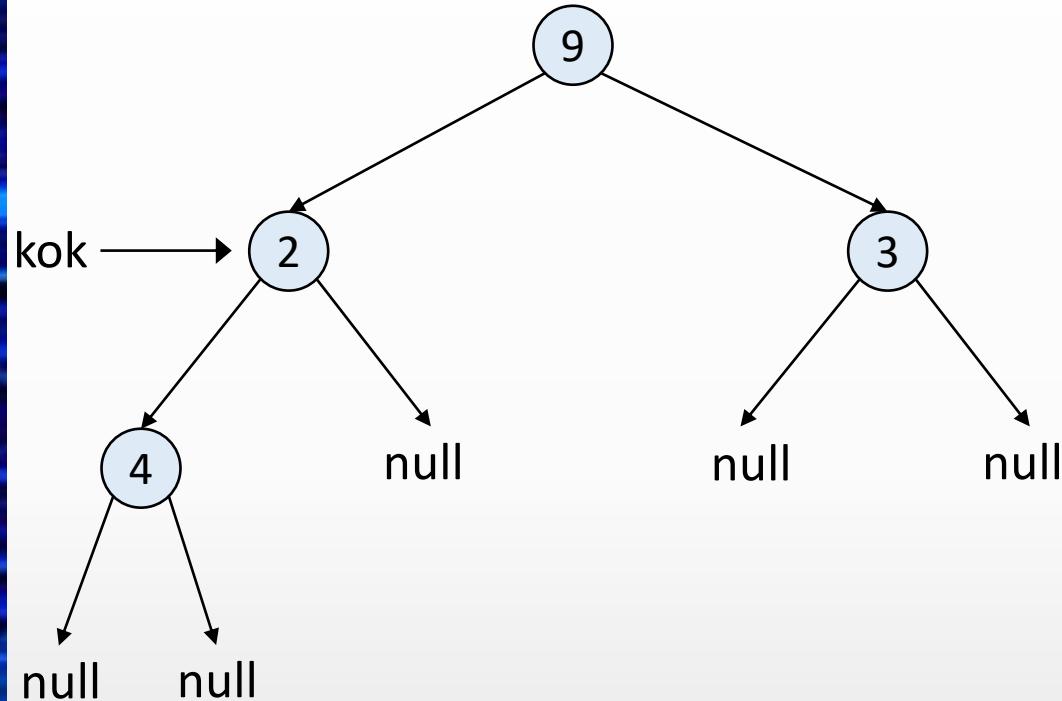
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2

Cıktı: 4

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



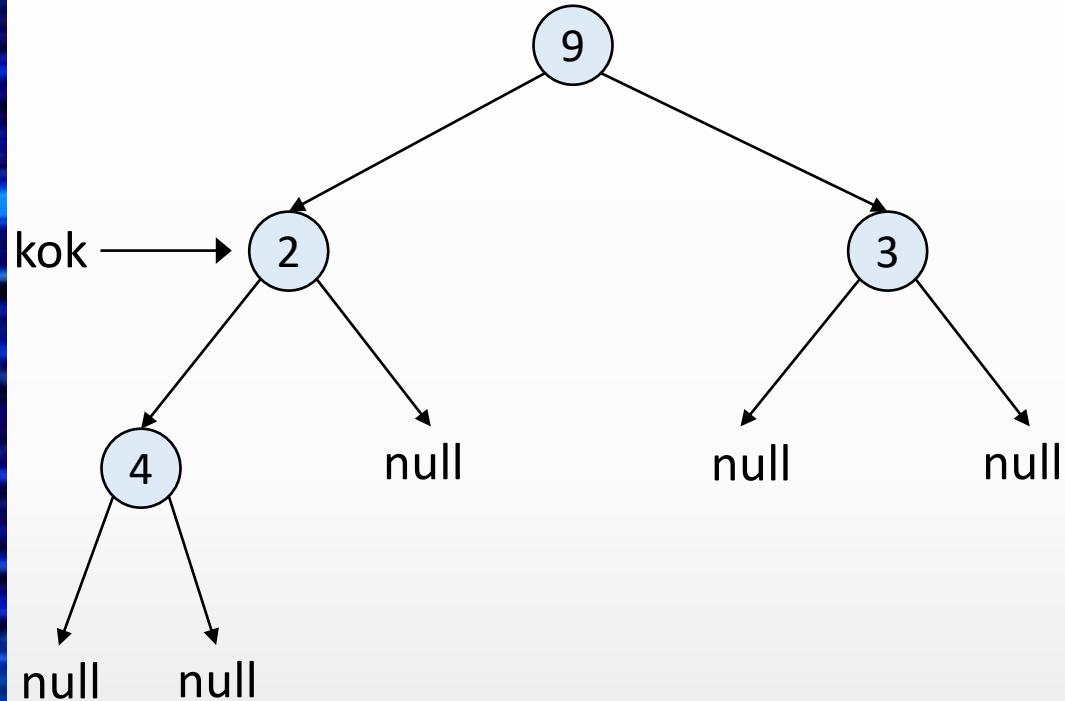
Cıktı: 4

Metot Çağrımı	Satır Numarası	Kök
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kokOrtada()	5	2

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## Çağırma Yığıtı (Call Stack)



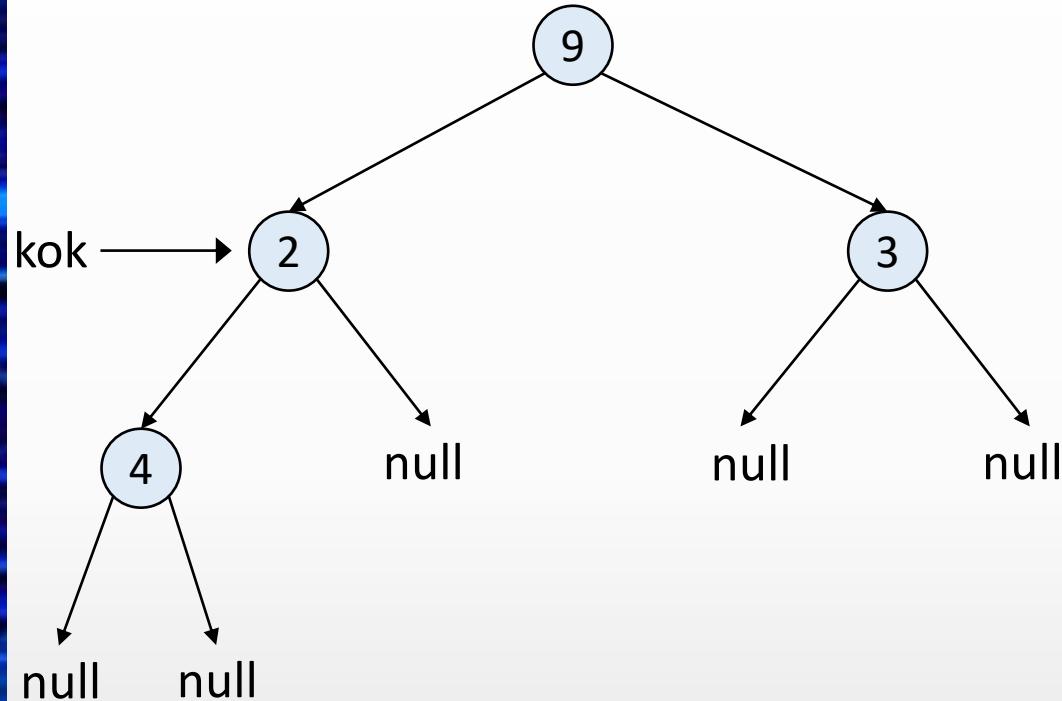
Cıktı: 4 2

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

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



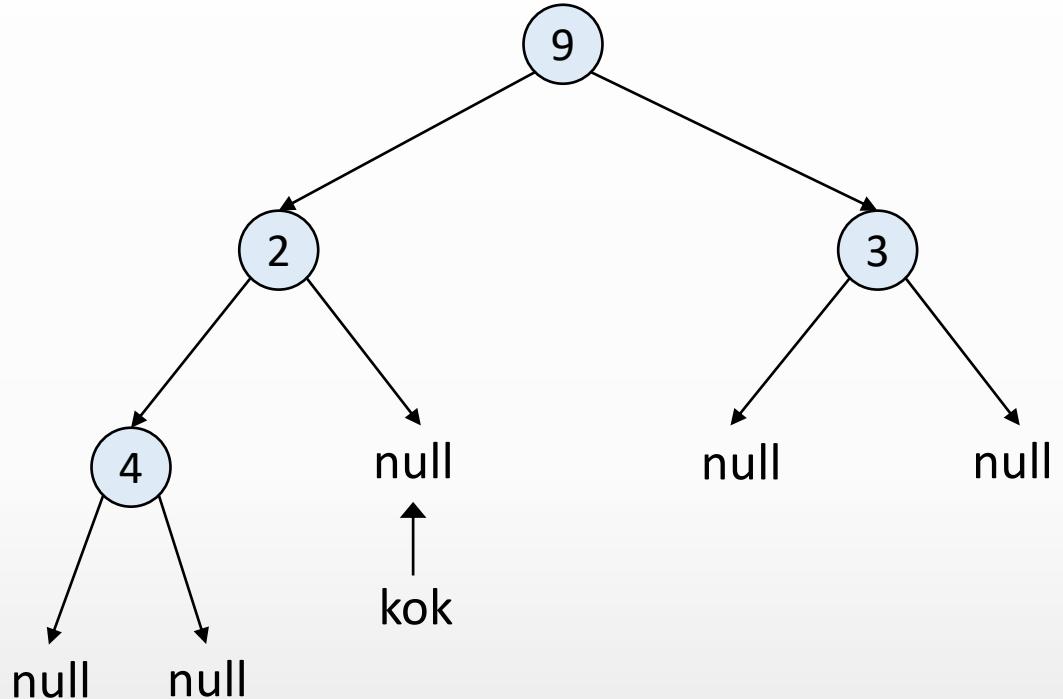
Cıktı: 4 2

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



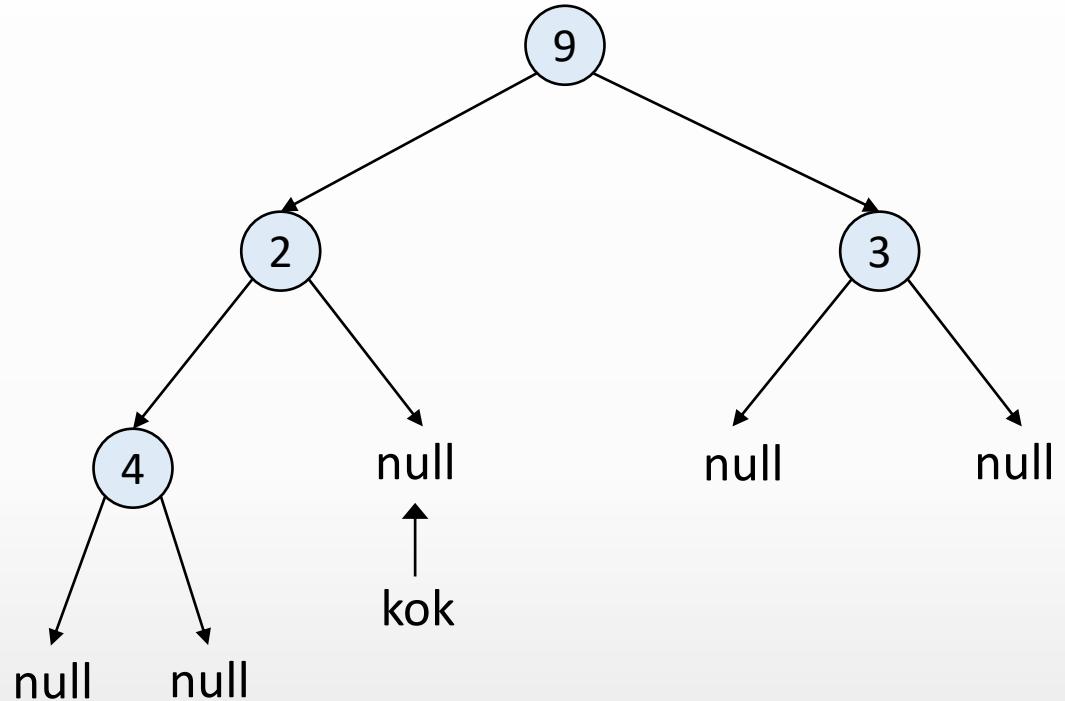
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
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```
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## Çağırma Yığıtı (Call Stack)



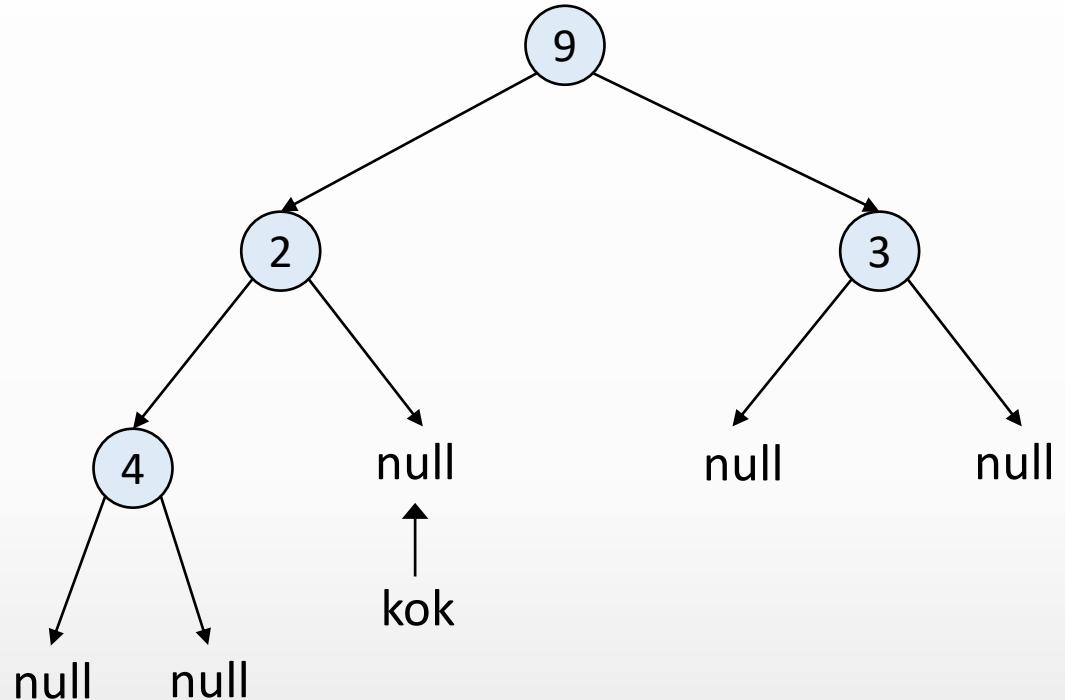
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
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8 }
```



## Çağırma Yığıtı (Call Stack)



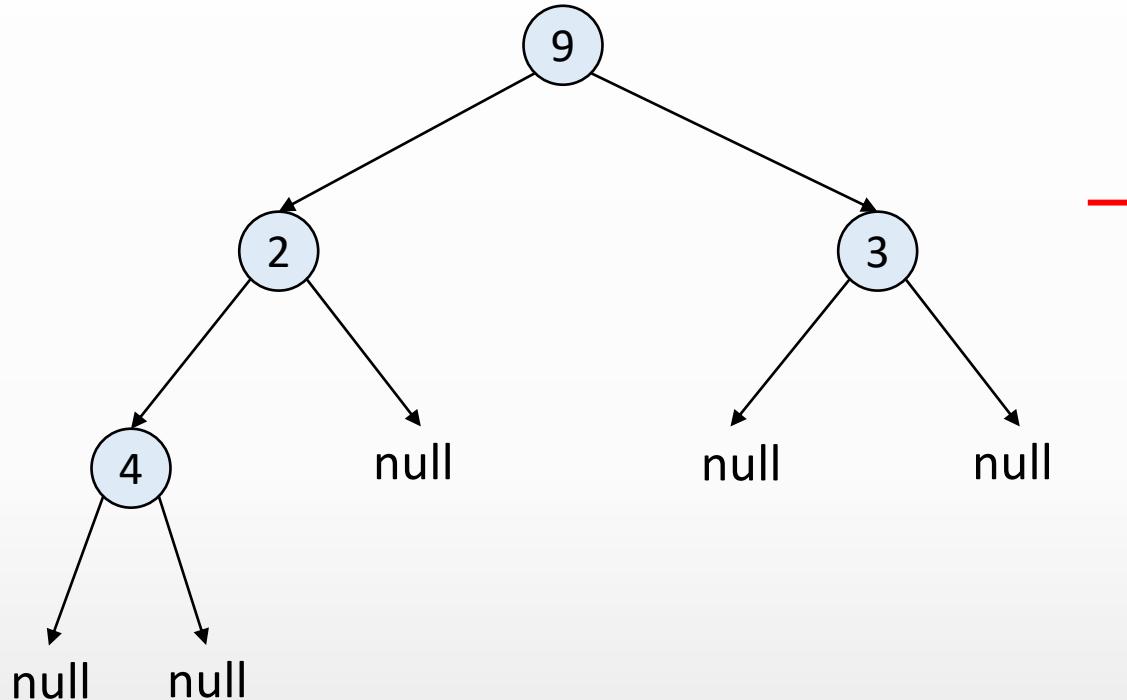
Cıktı: 4 2

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



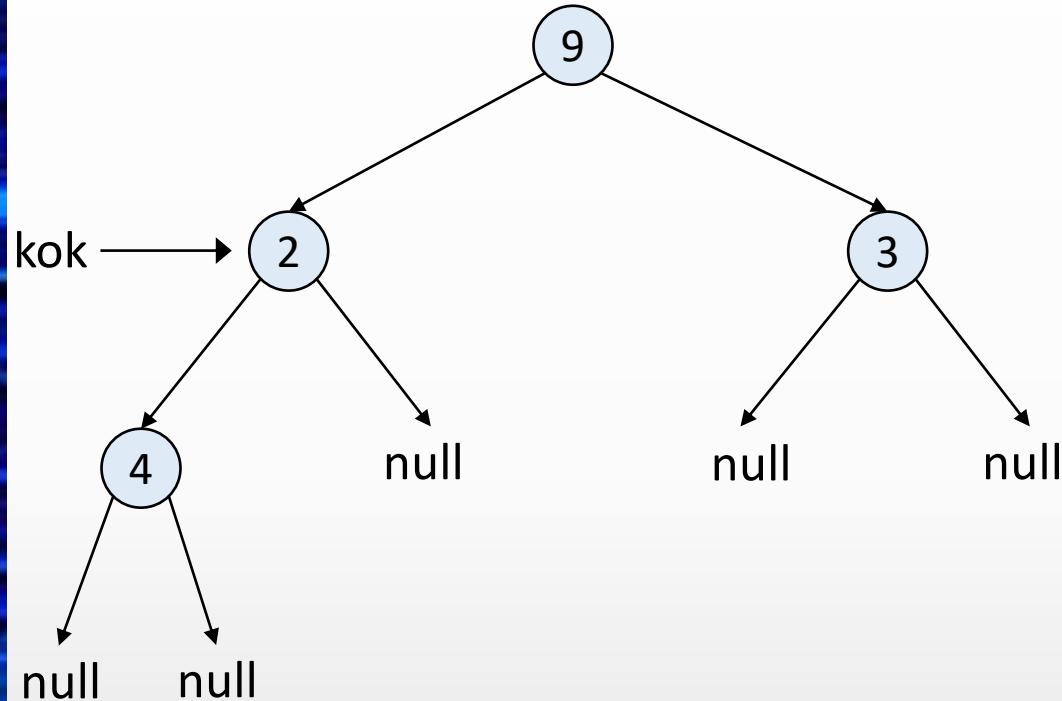
Metot Çağrımı	Satır Numarası	Kök
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kokOrtada()	7	2

Cıktı: 4 2

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## Çağırma Yığıtı (Call Stack)



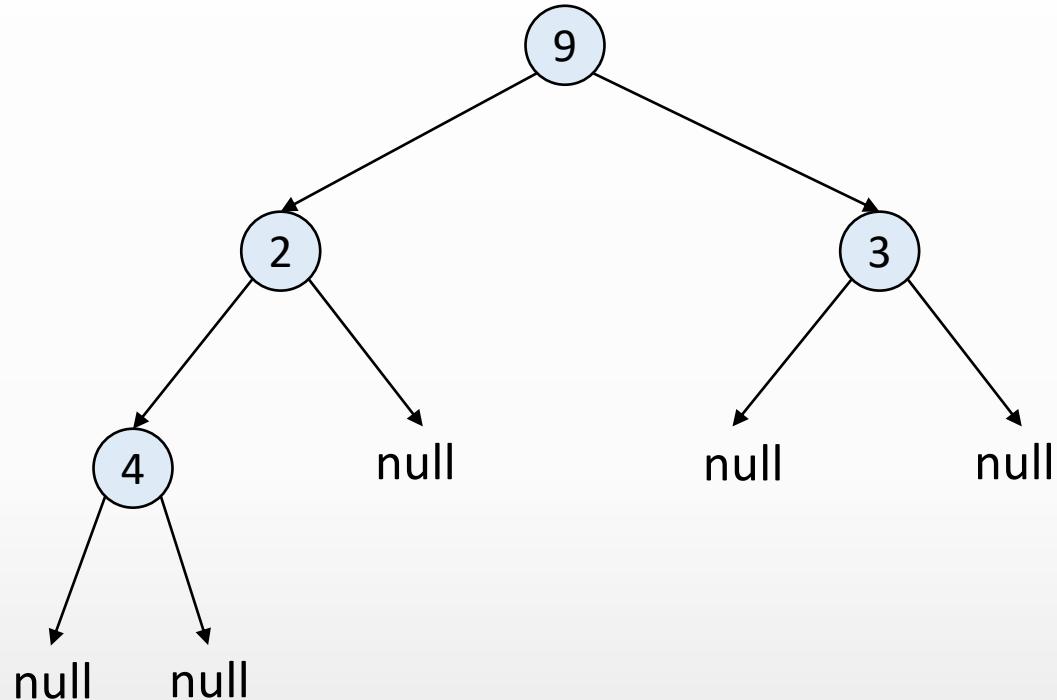
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



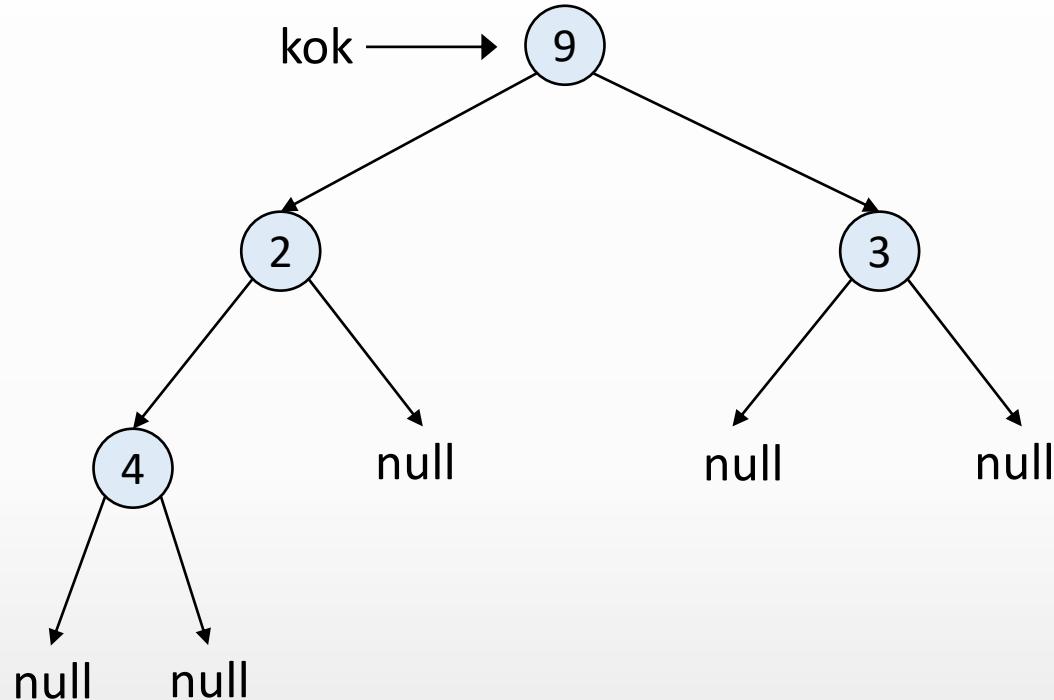
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

Cıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2

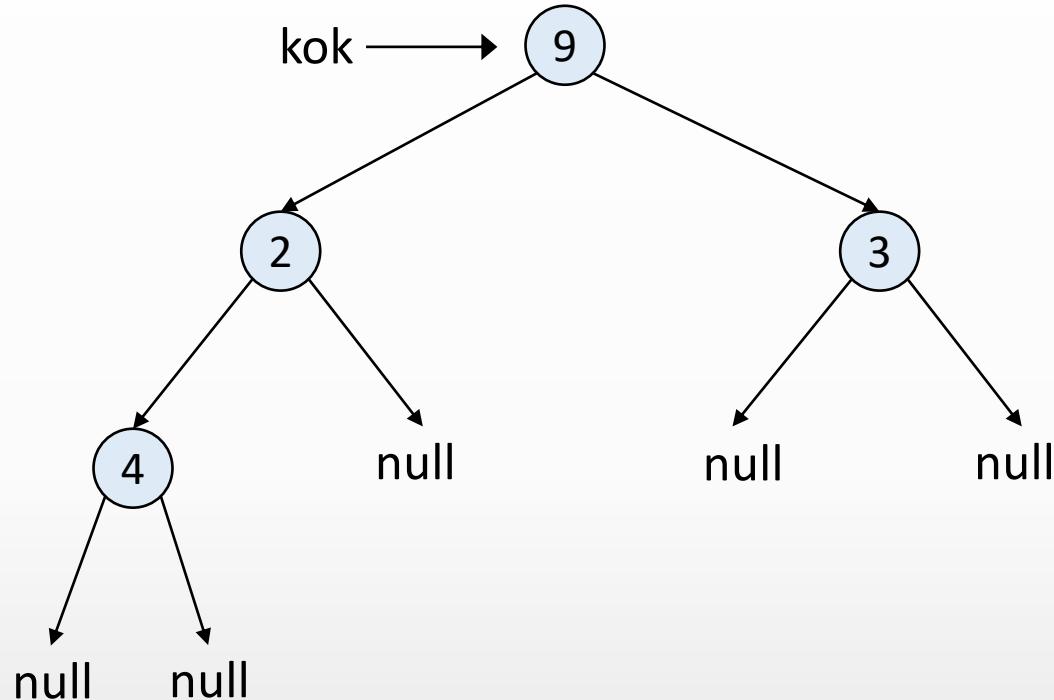
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

→

```
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)



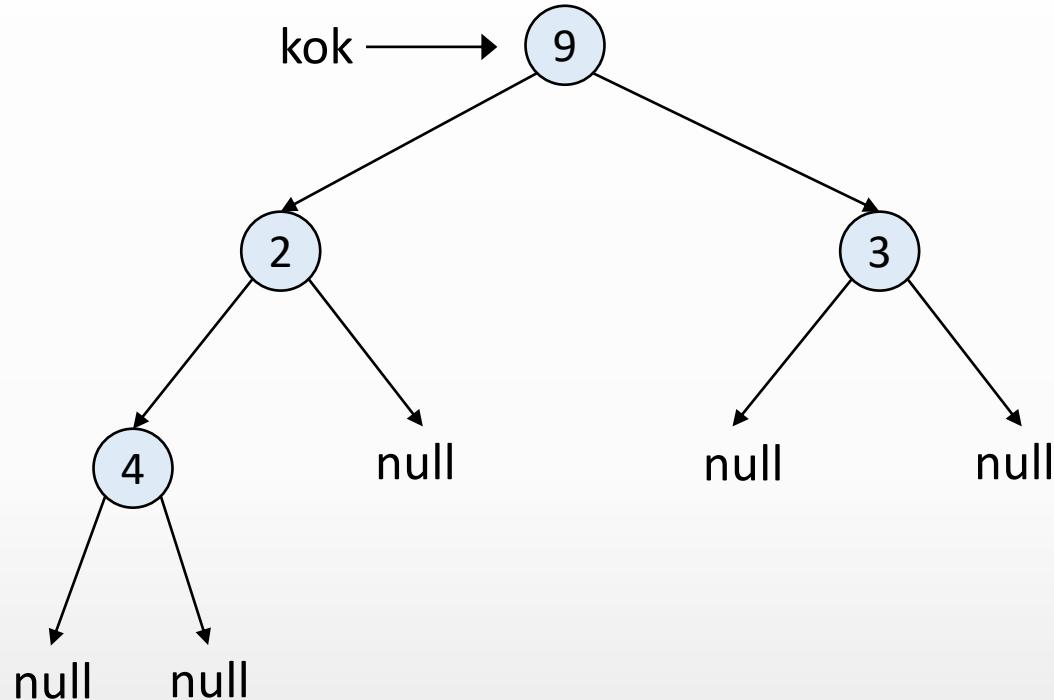
Cıktı: 4 2 9

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

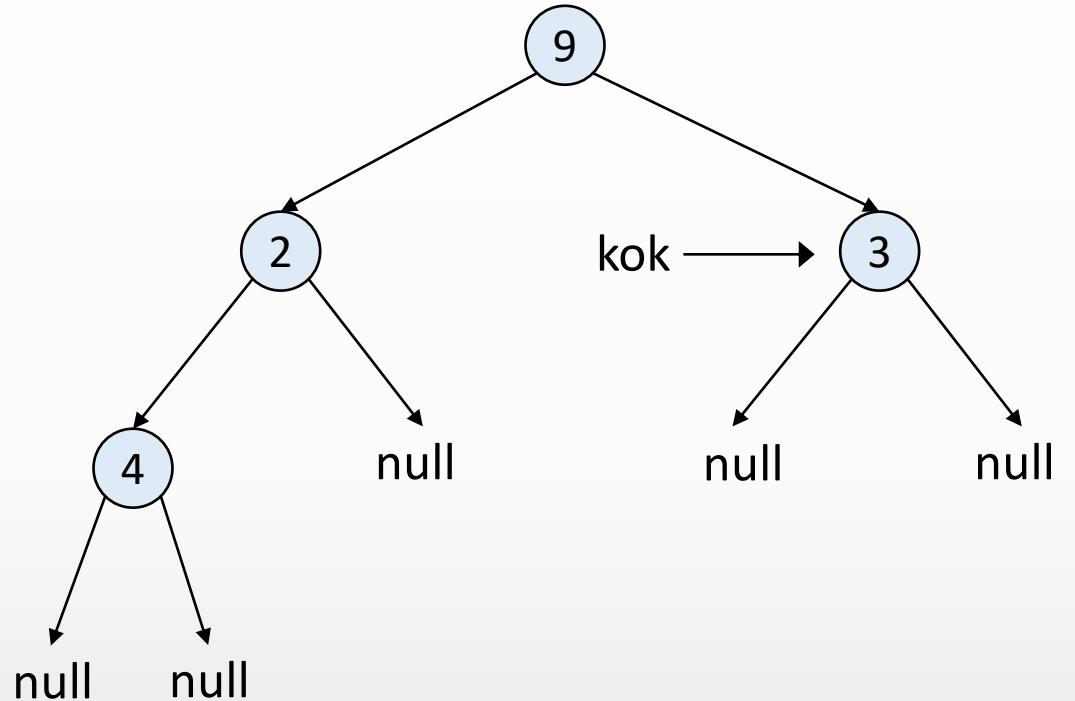
Cıktı: 4 2 9



```
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)



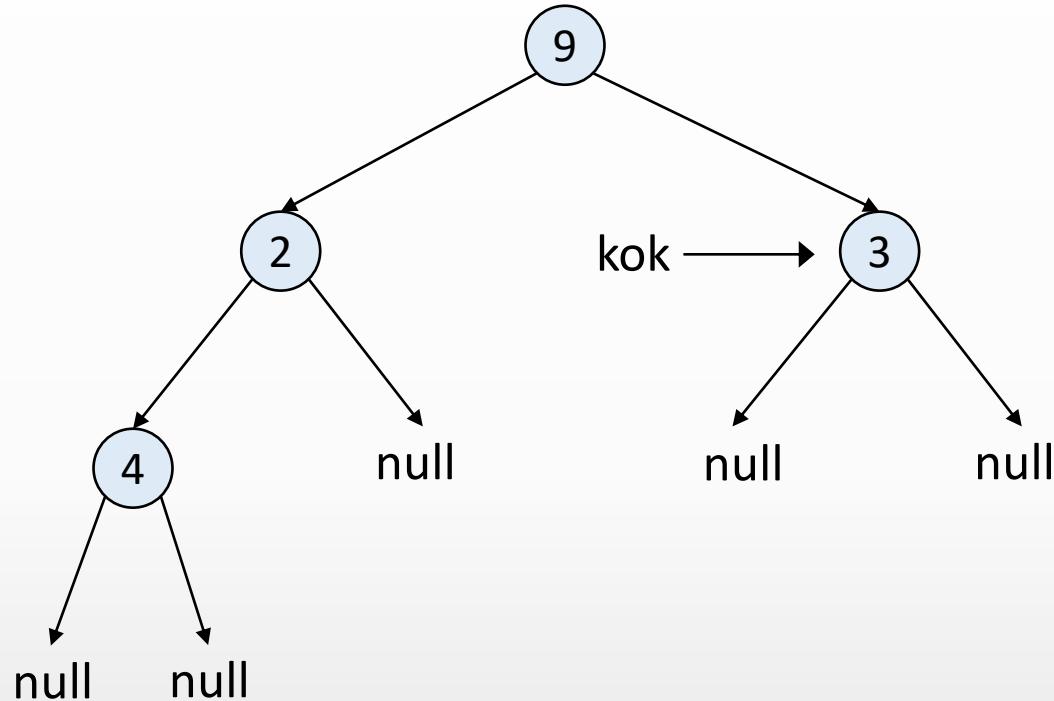
Cıktı: 4 2 9

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



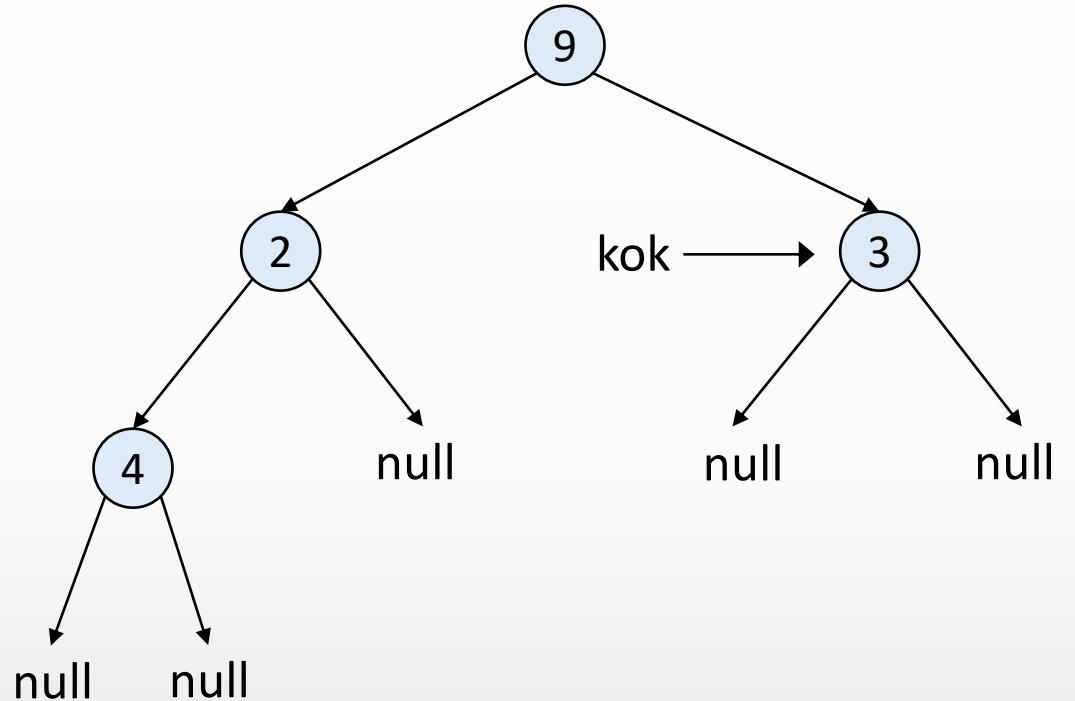
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()		3



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



## Çağırma Yığıtı (Call Stack)

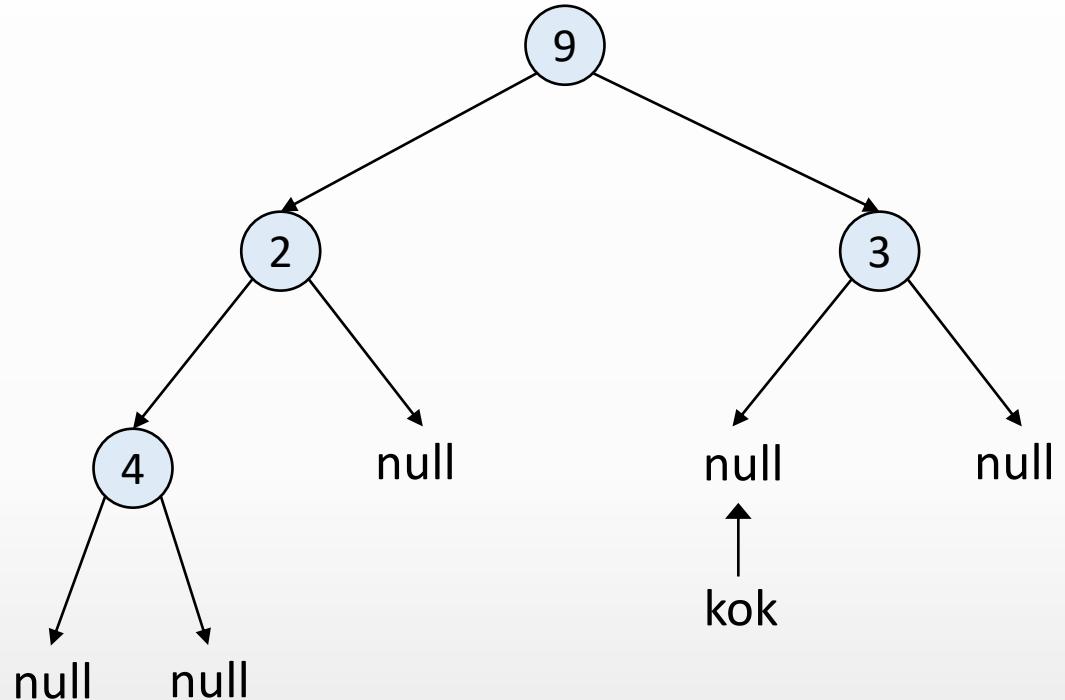


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3

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



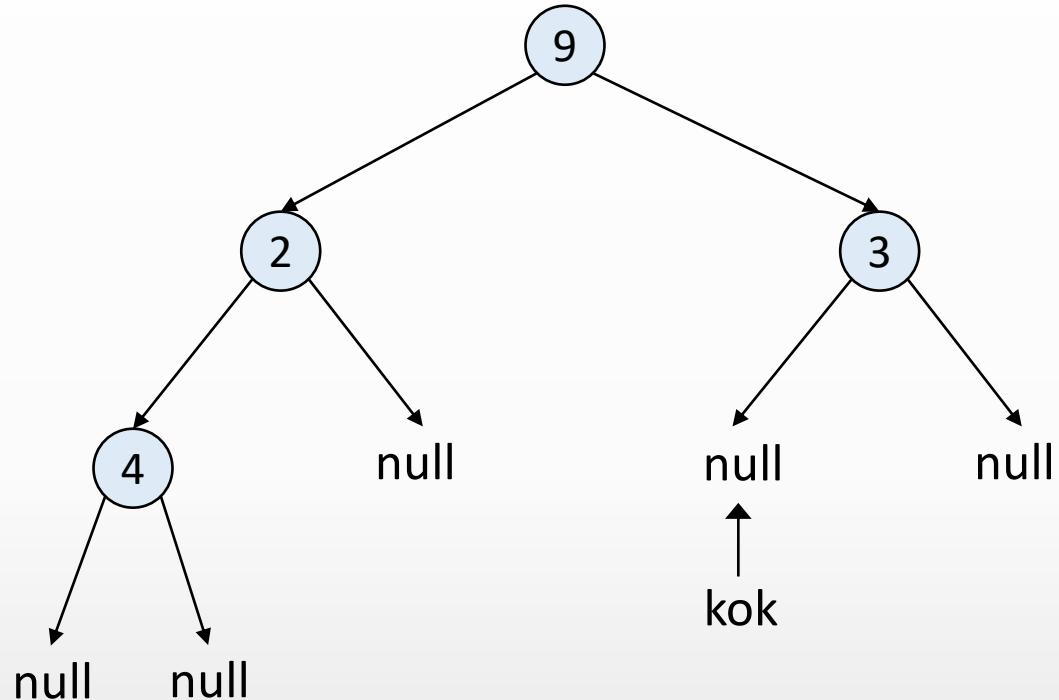
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
kokOrtada()		null



```
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)



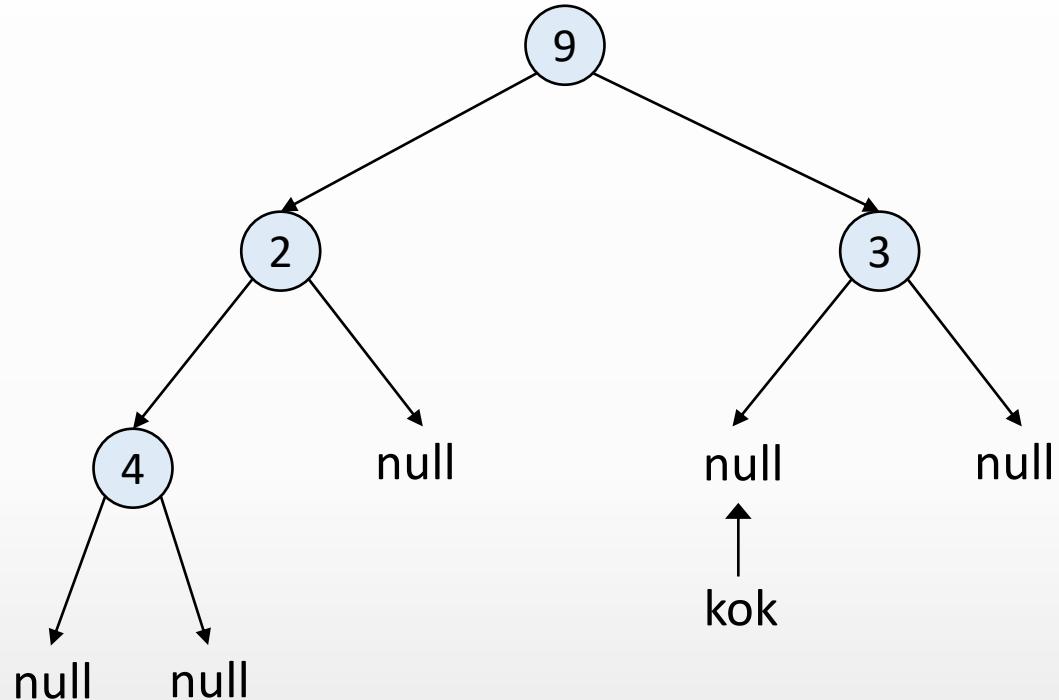
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
kokOrtada()		null

Cıktı: 4 2 9

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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)



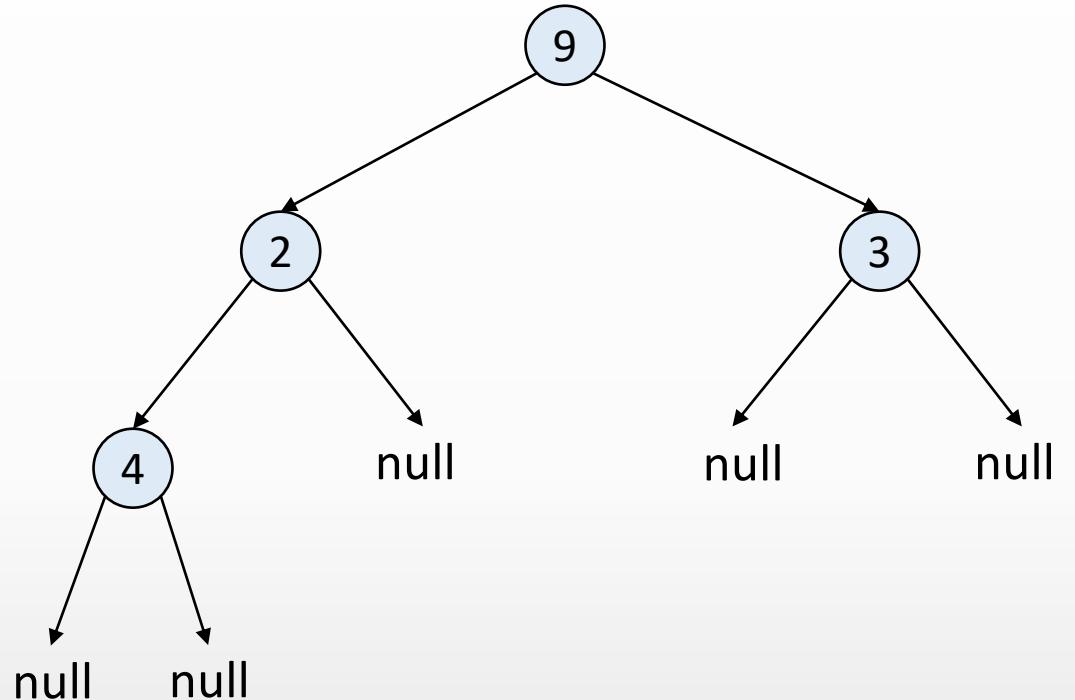
Cıktı: 4 2 9

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



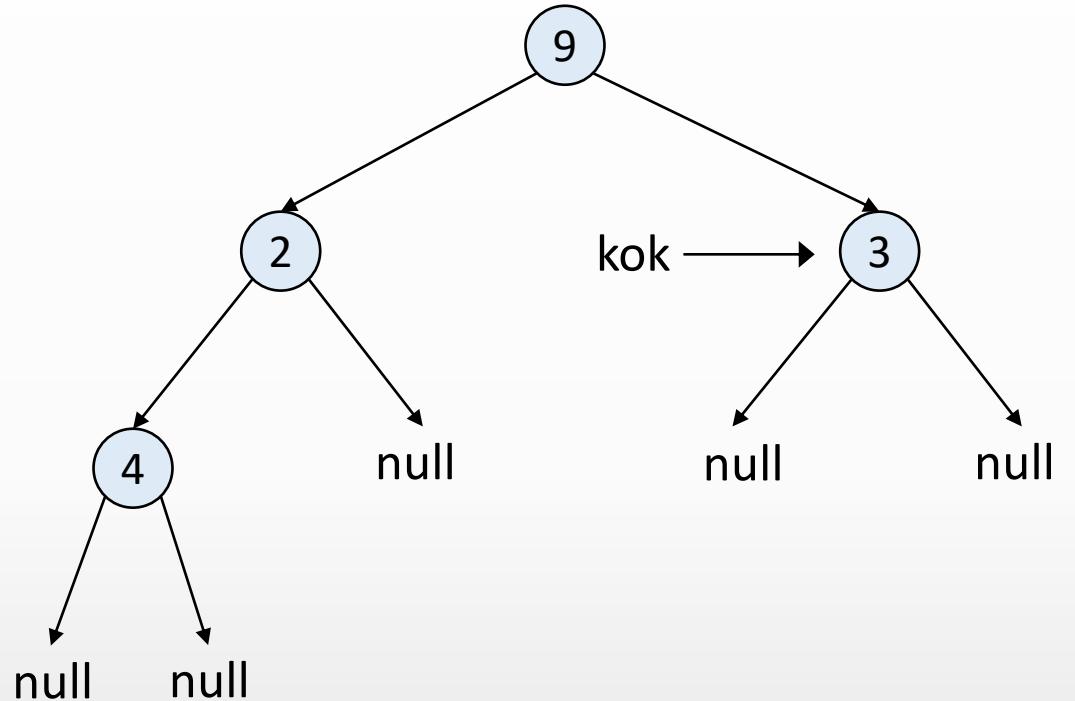
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3

Cıktı: 4 2 9

```
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)

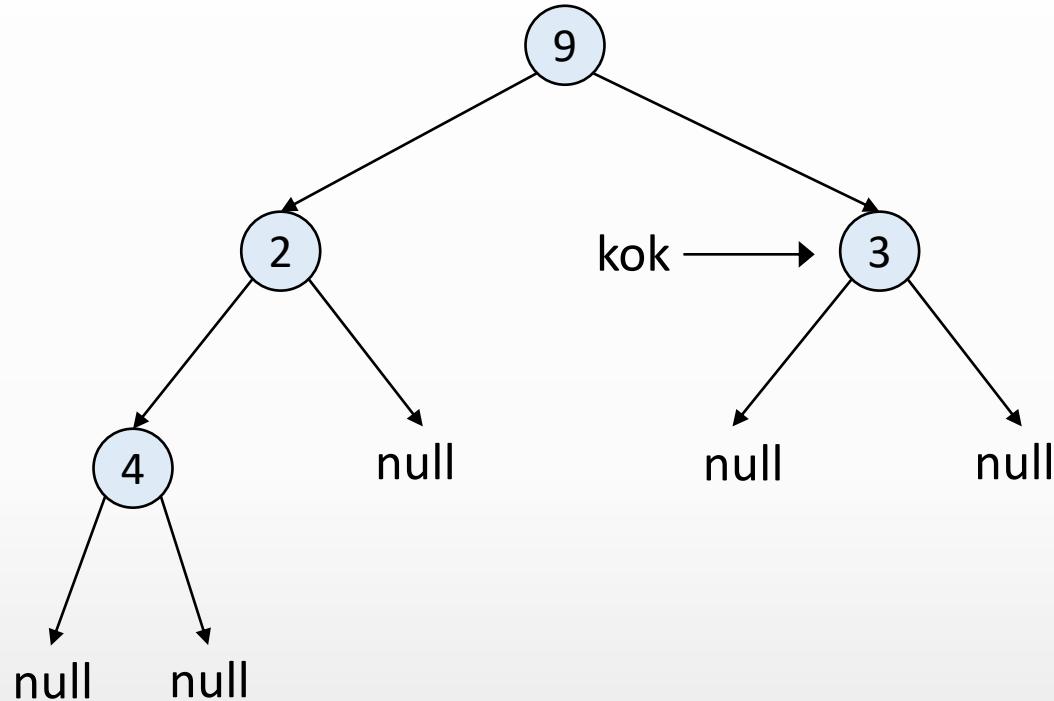


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3

```
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 9 3



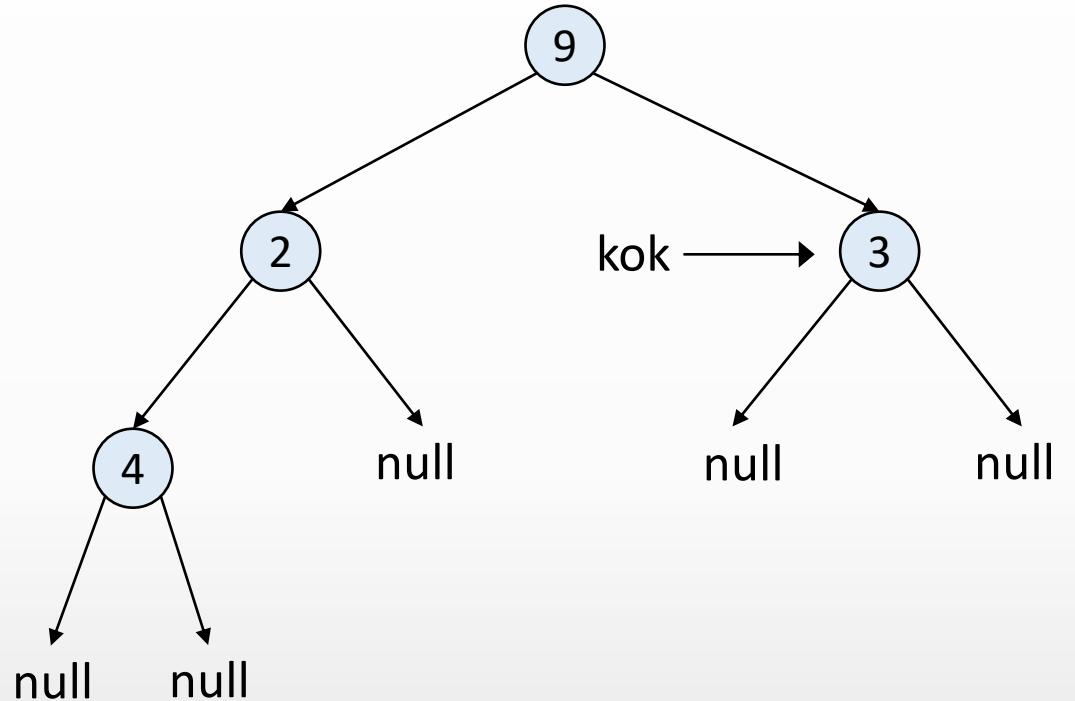
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3



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



## Çağırma Yığıtı (Call Stack)



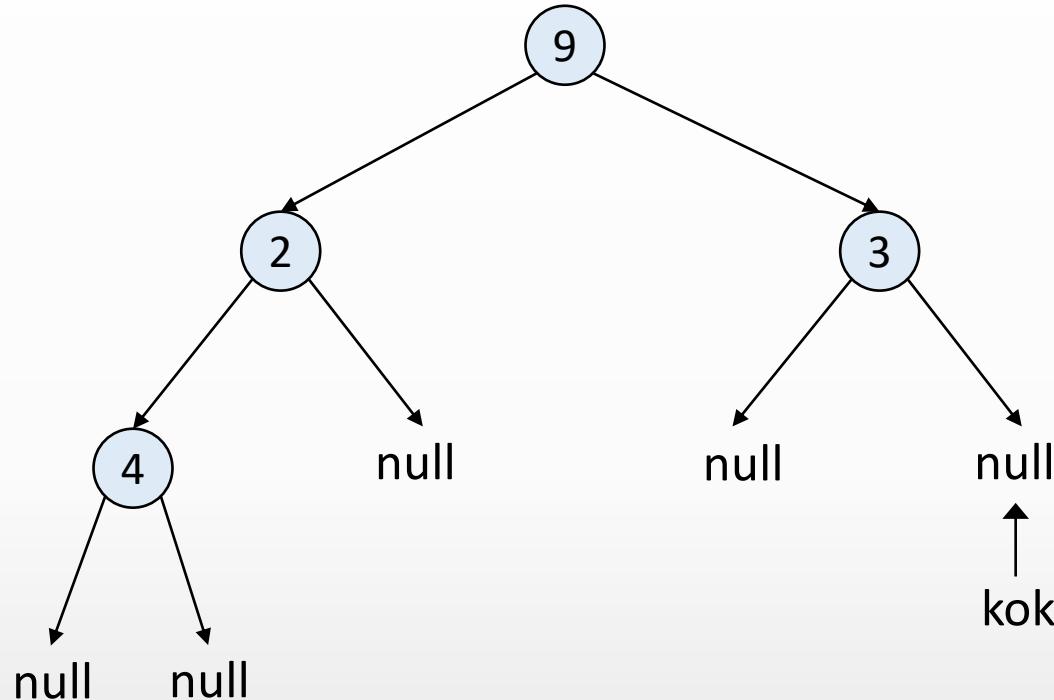
Cıktı: 4 2 9 3

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

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



Cıktı: 4 2 9 3



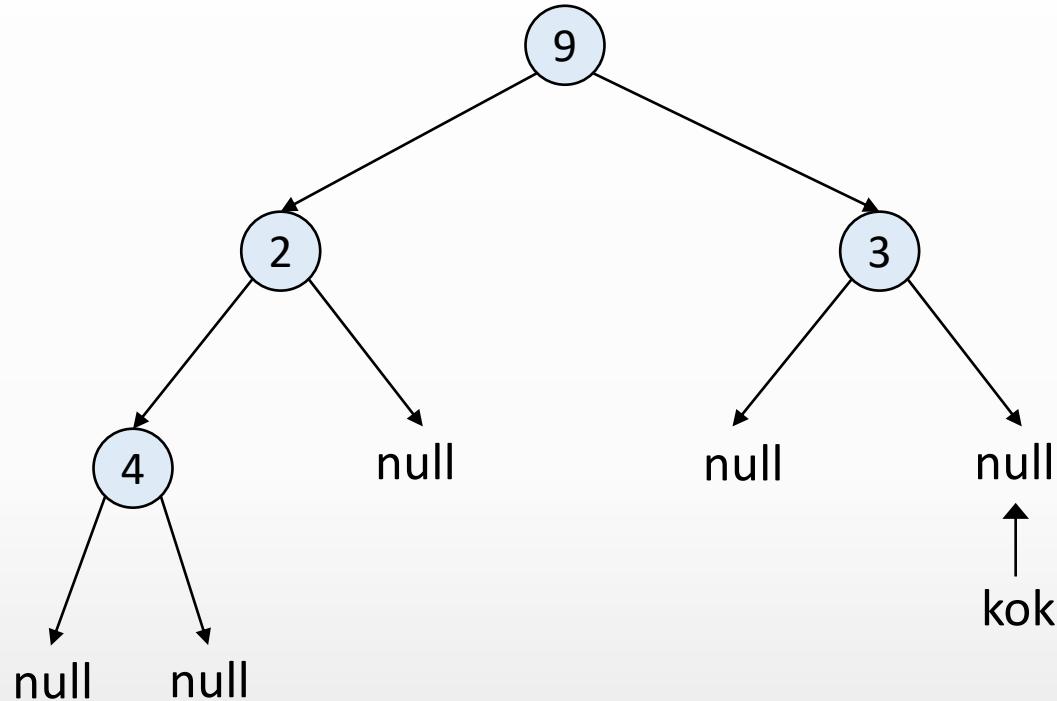
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
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7     kokOrtada(kok.sag);  
8 }
```



## Çağırma Yığıtı (Call Stack)



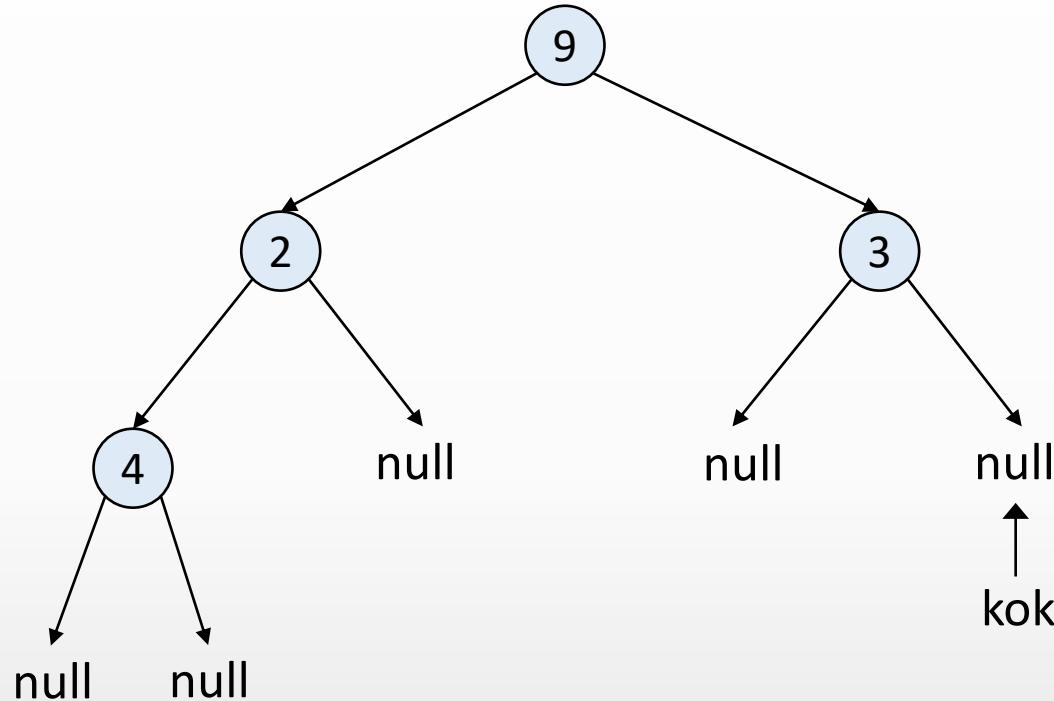
Cıktı: 4 2 9 3

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

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3



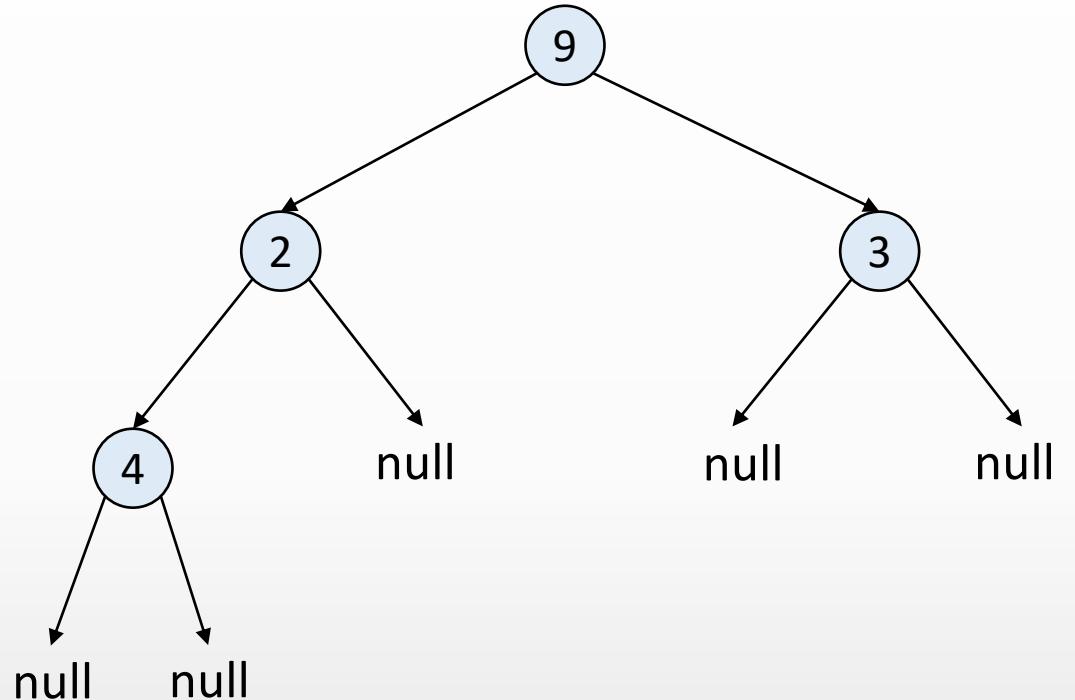
Metot Çağrımı	Satır Numarası	Kök
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8 }
```



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

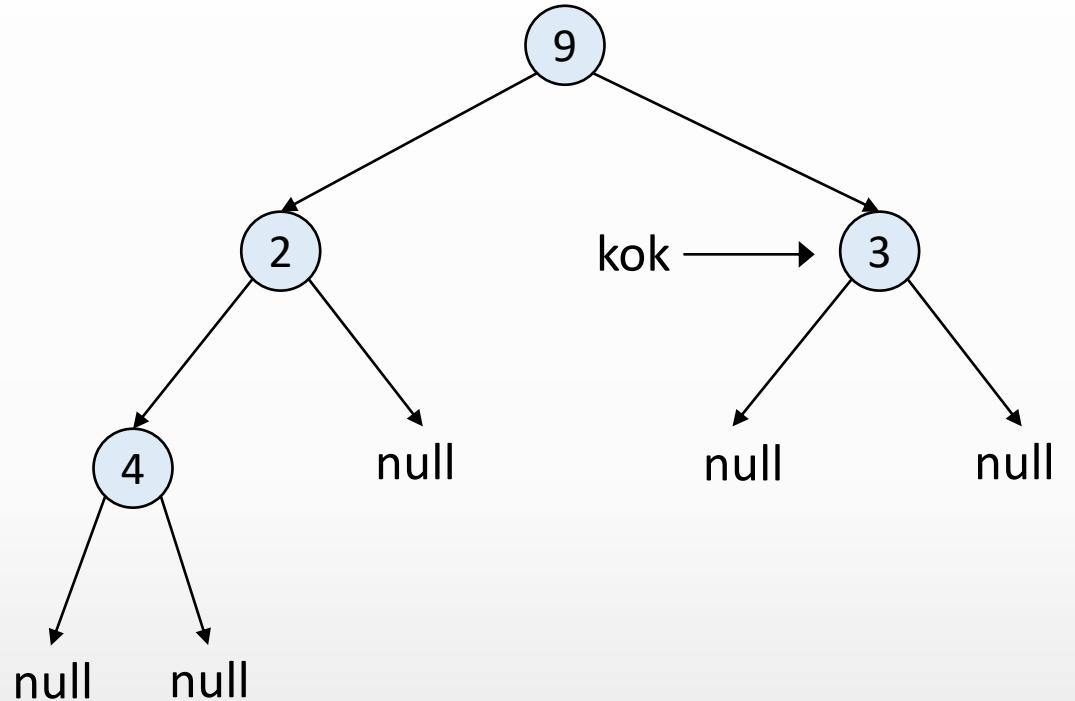


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
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```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
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5     kokOrtada(kok.sol);  
6     System.out.print(kok.veri + " ");  
7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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

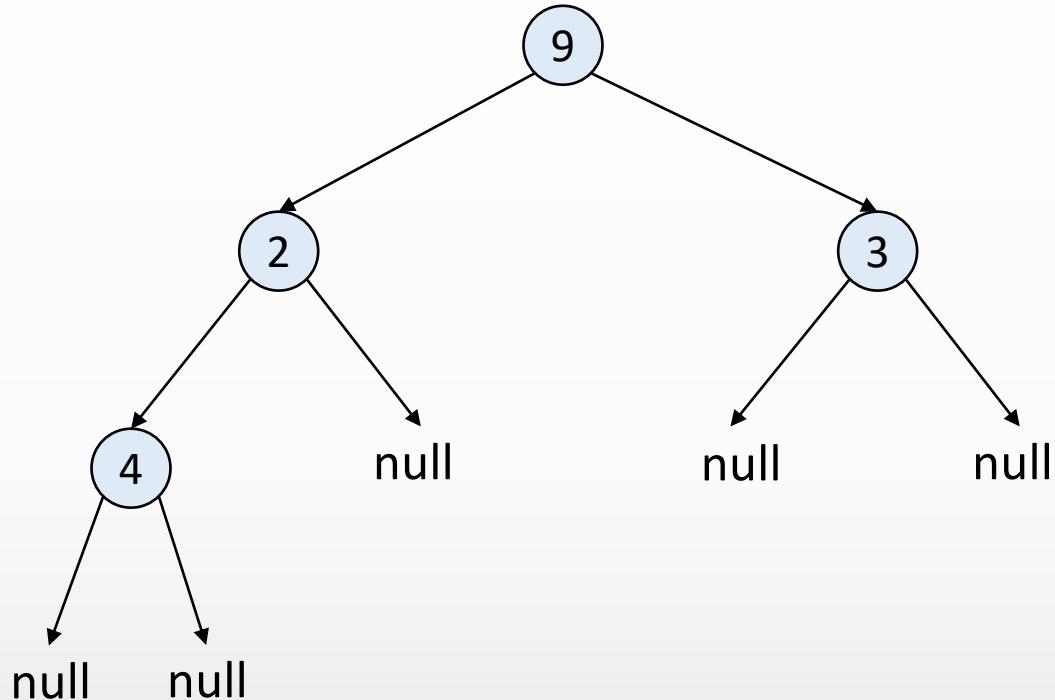
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	7	3

```
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 }
```



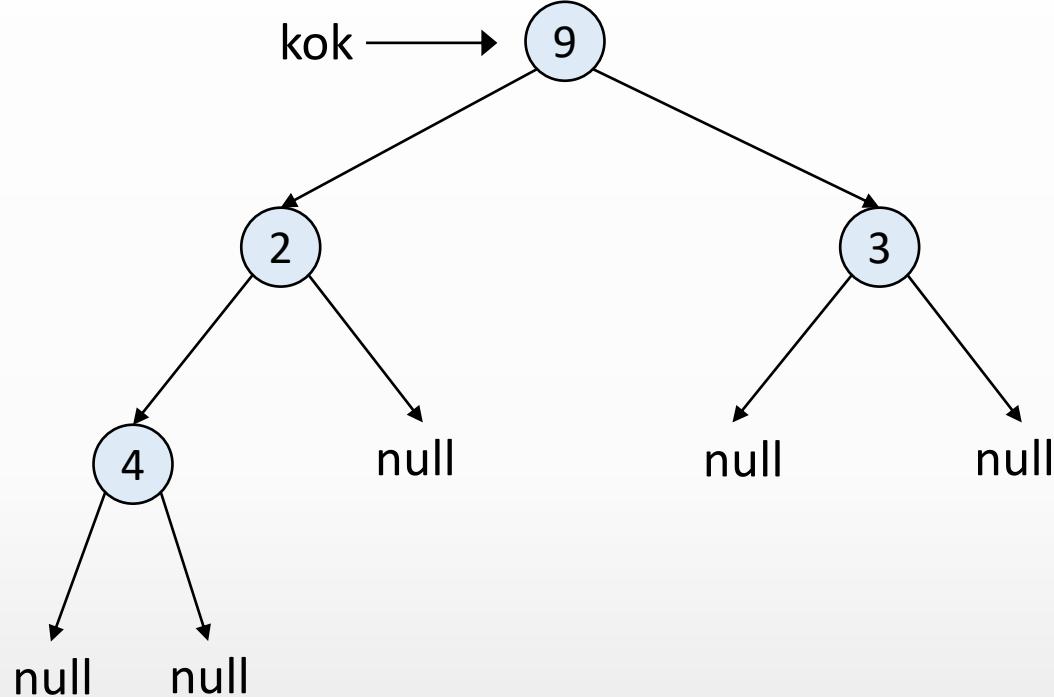
### Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9



Cıktı: 4 2 9 3

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



Cıktı: 4 2 9 3

### Çağırma Yığıtı (Call Stack)

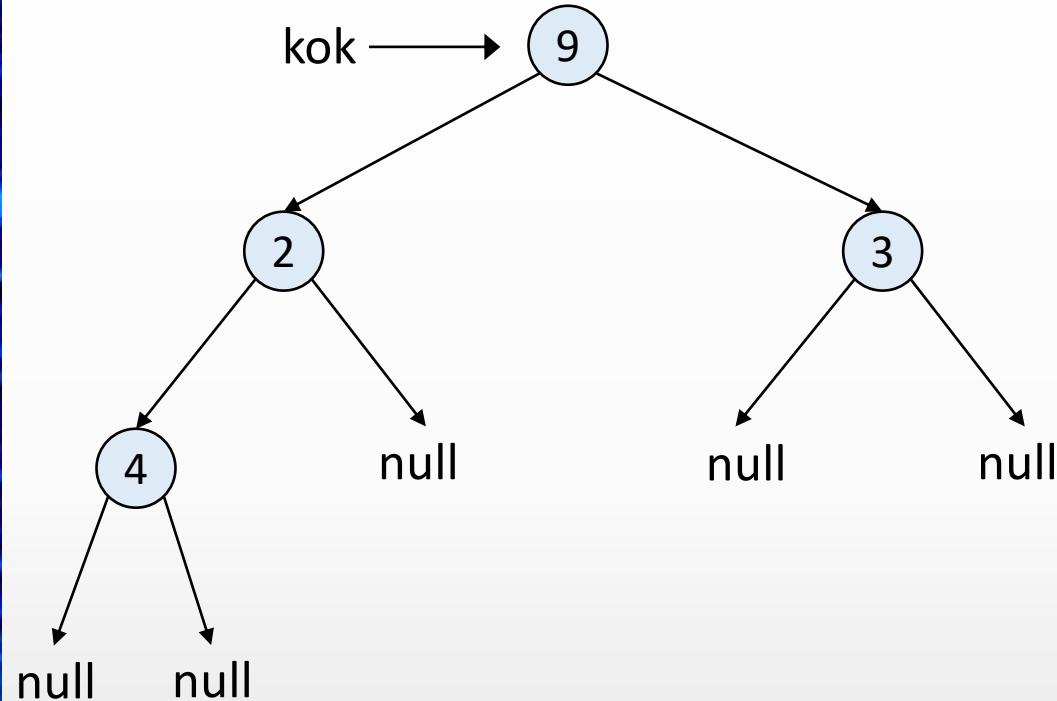
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9

→

```
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)



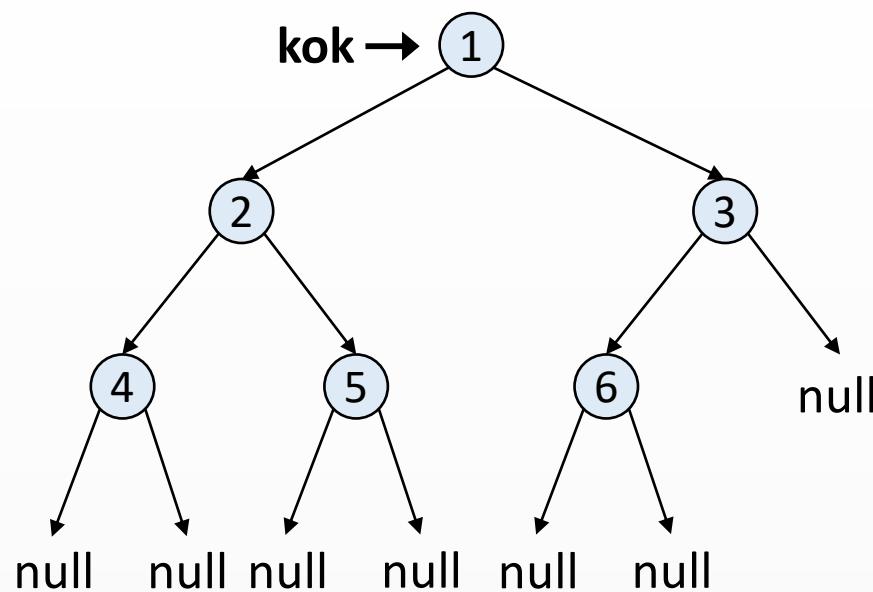
Cıktı: 4 2 9 3

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 }
```

# Yığın ile Kök Ortada (Inorder) Dolasımı





Çıktı:

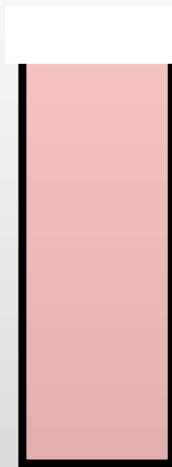
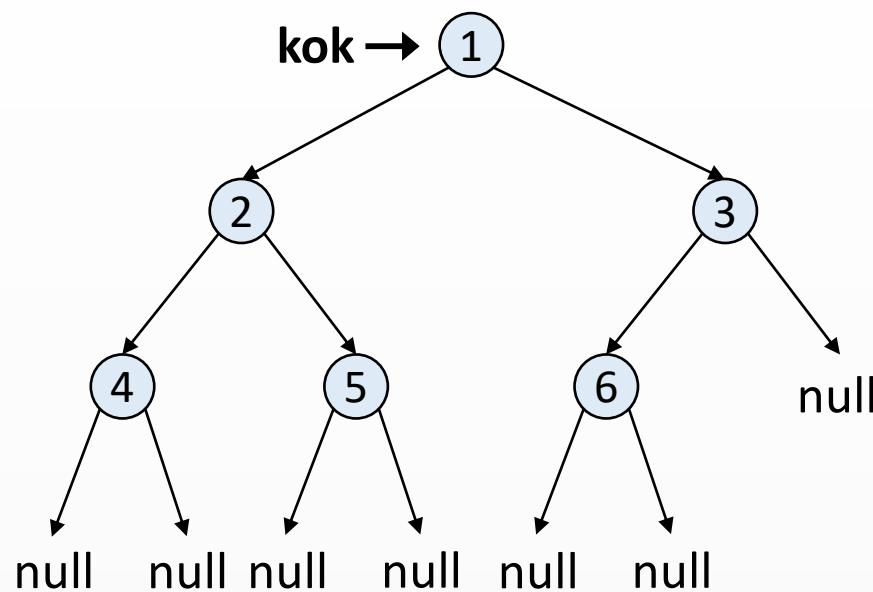
→

```

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;
    }
}

```



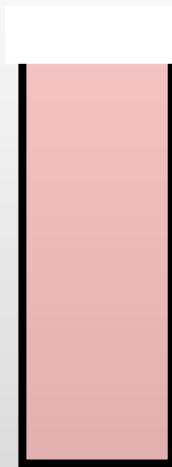
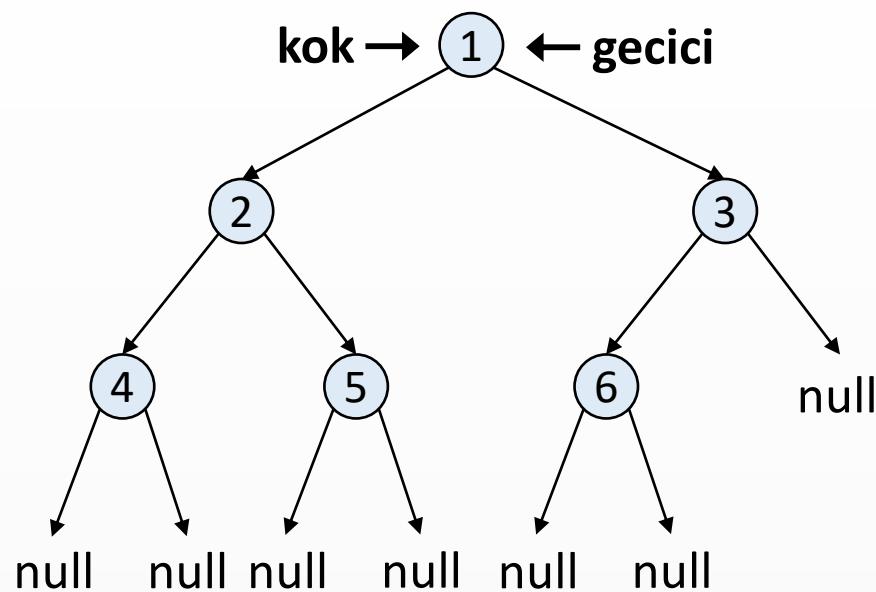


Yığıt

Çıktı:

→

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

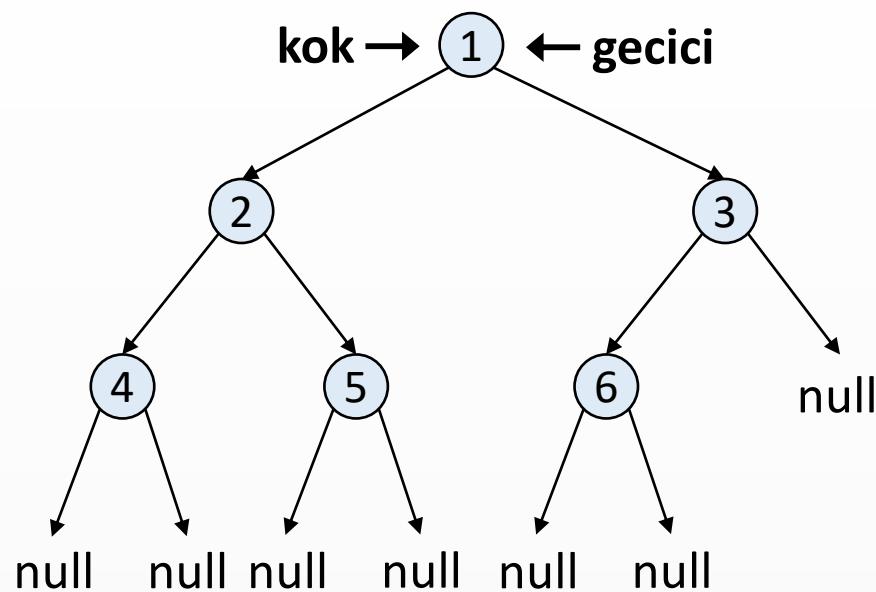


Yığıt

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;  
    }  
}
```

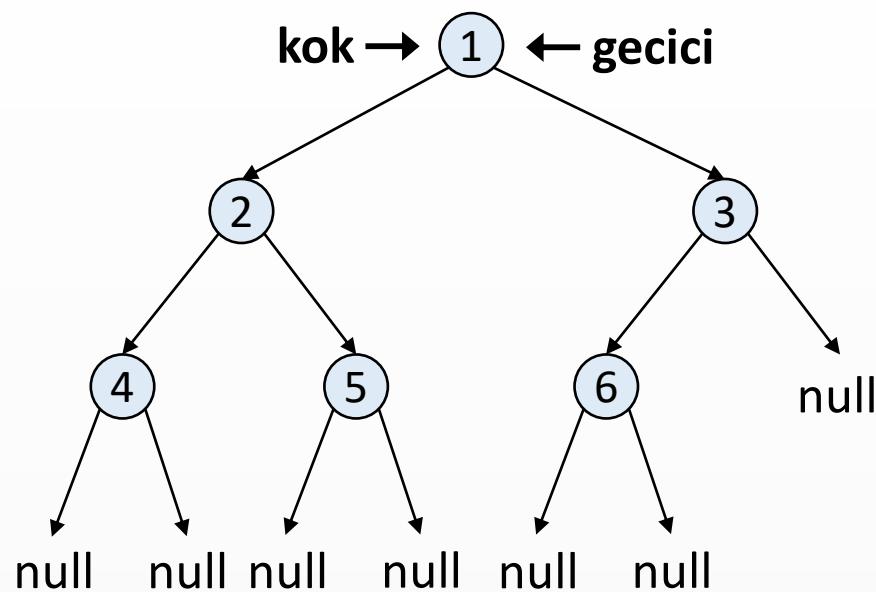


Yığıt

Çıktı:

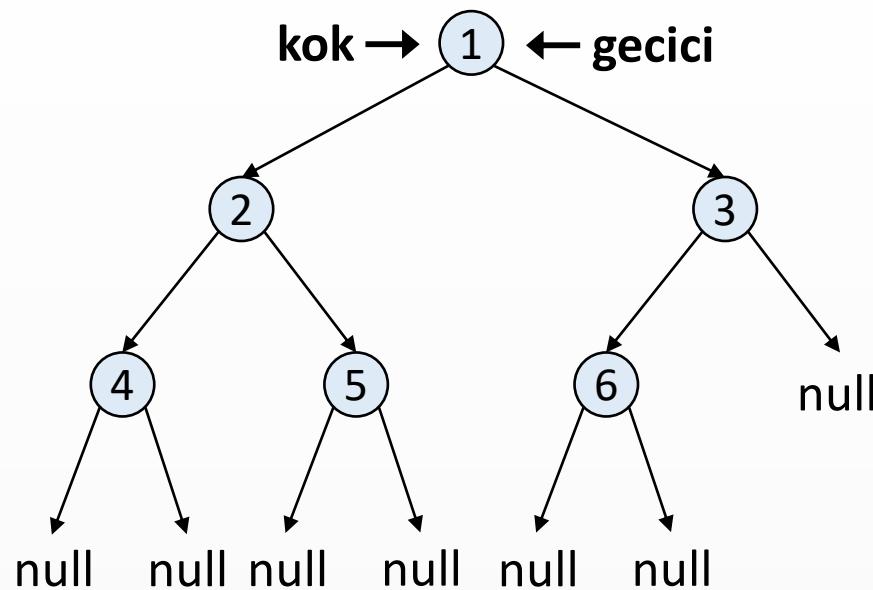
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
→ while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
    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

The code implements an in-order traversal of a binary search tree using a stack. It starts at the root (kok). If the current node (gecici) is not null, it is pushed onto the stack and its left child is set to null. If the current node is null, it is popped from the stack, its value is printed, and its right child is set to null. This process repeats until both the stack is empty and all nodes have been traversed.



Çıktı:

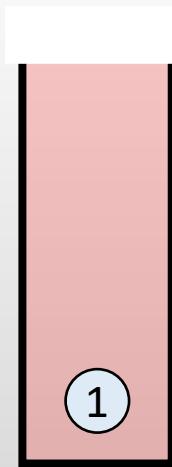
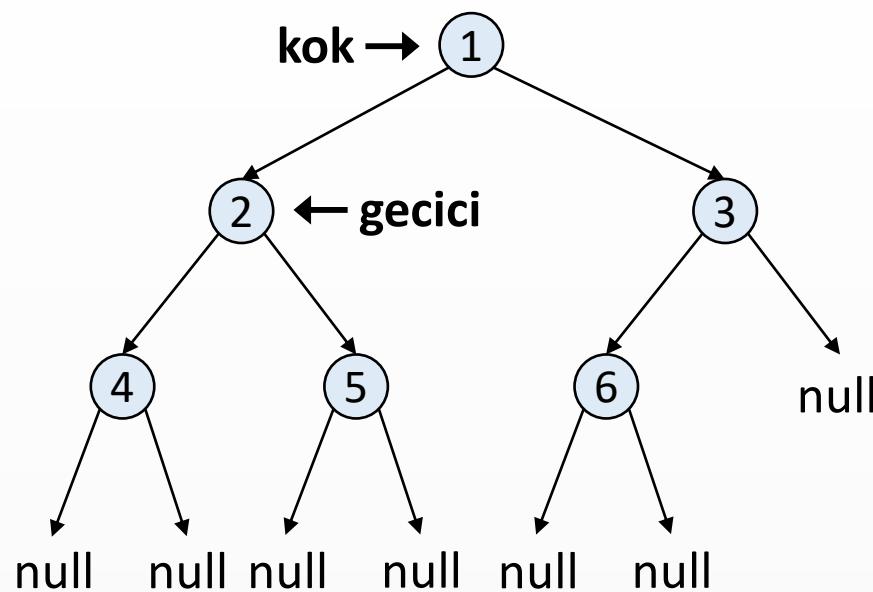
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı:

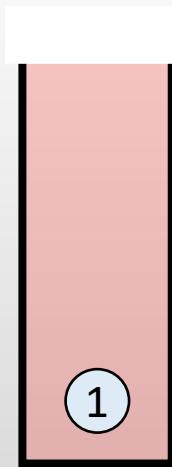
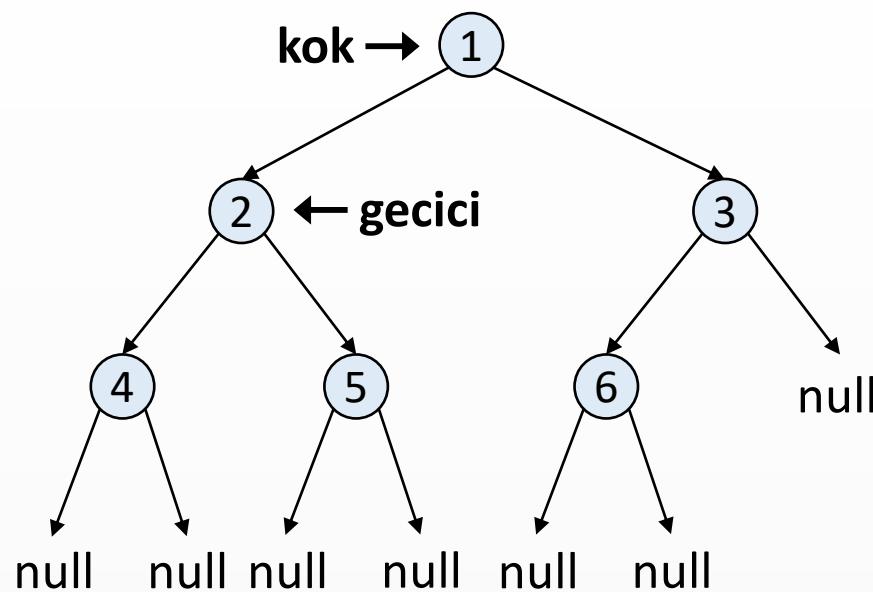
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else { 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



Yığıt

Çıktı:

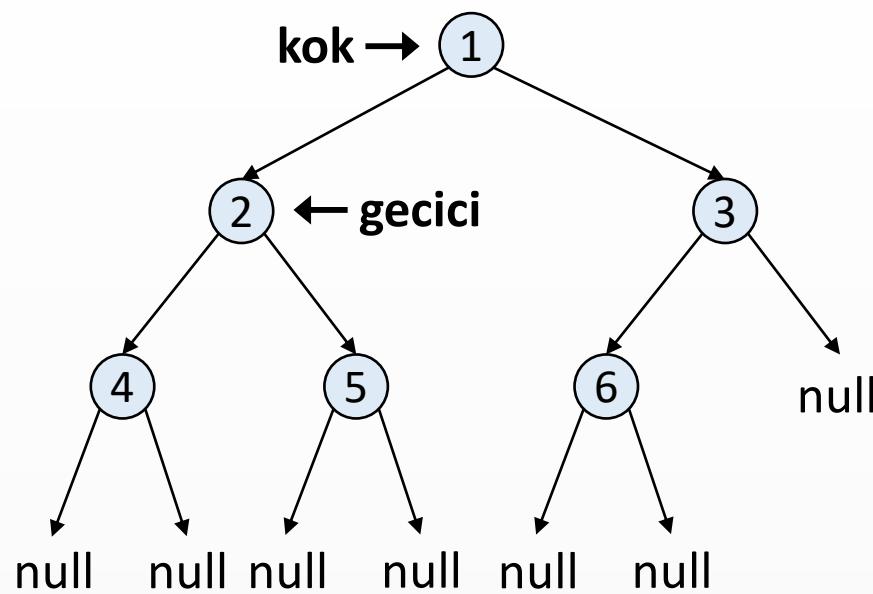
```
if(kok == null) {  
    return;  
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Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
 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



Yığıt

Çıktı:

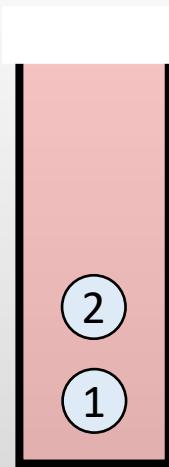
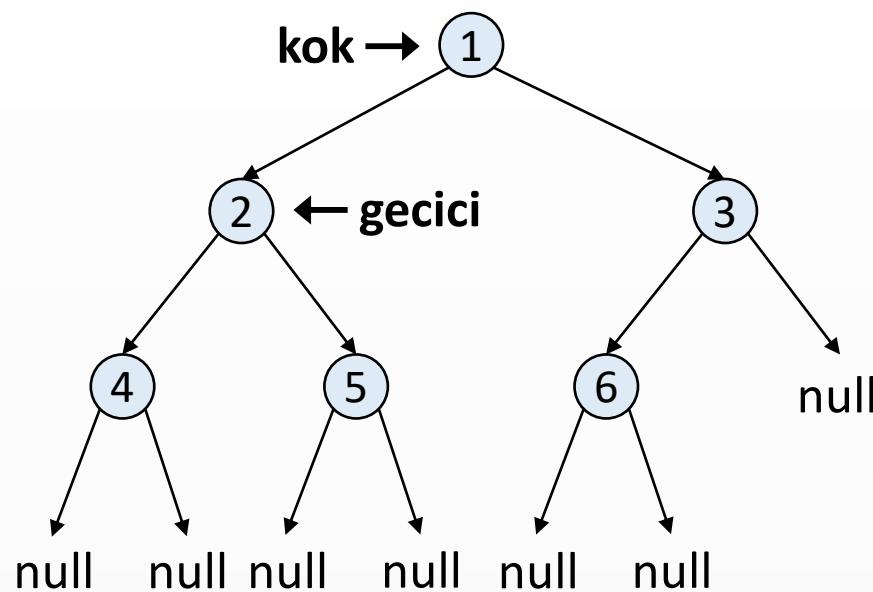
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
→ while(!yigit.isEmpty() || gecici != null) {  
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Yığıt

Çıktı:

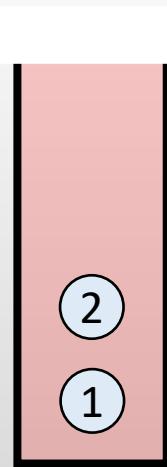
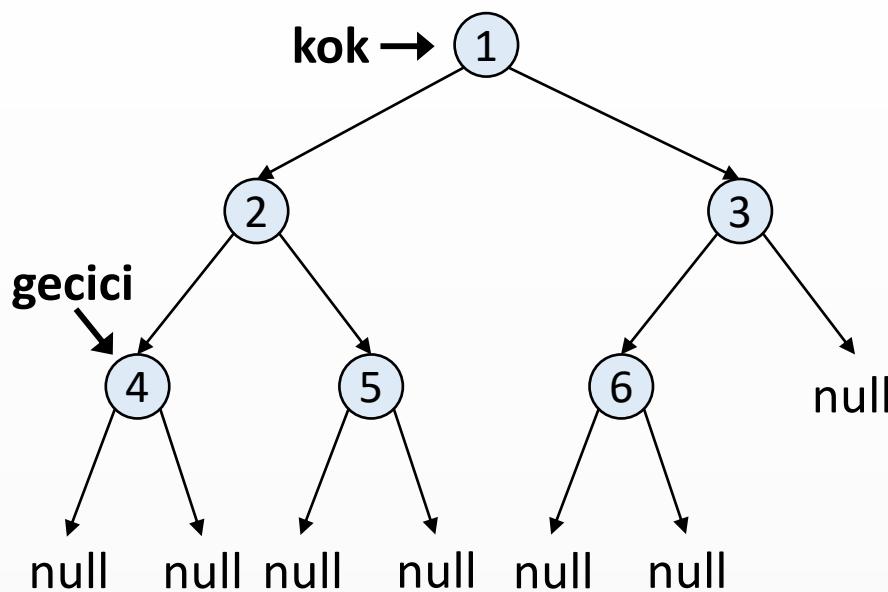
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    }  
}
```



Yığıt

Çıktı:

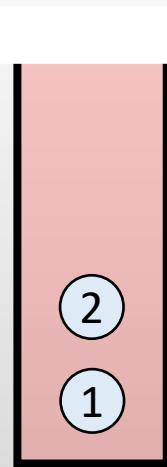
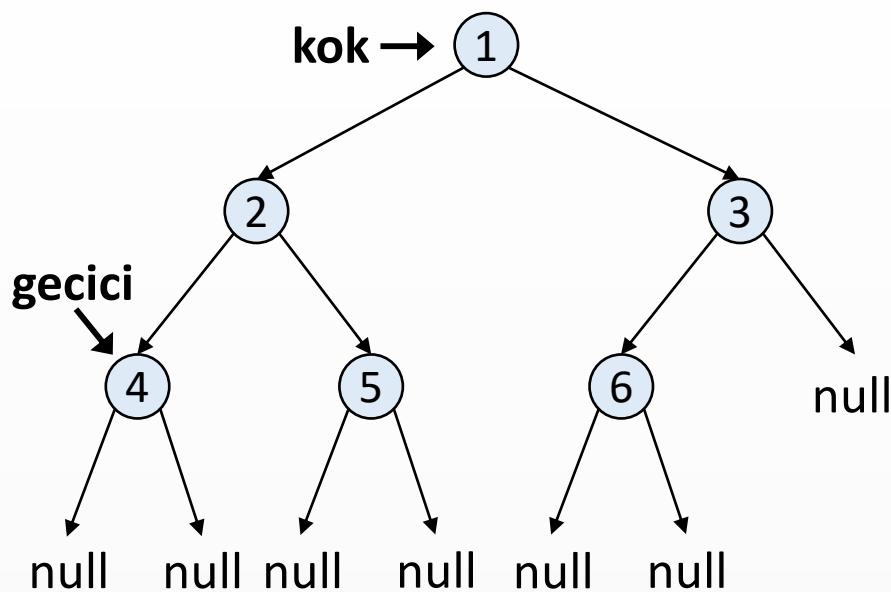
```
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    }  
}
```



Yığıt

Çıktı:

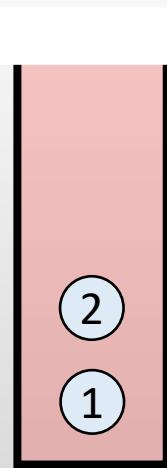
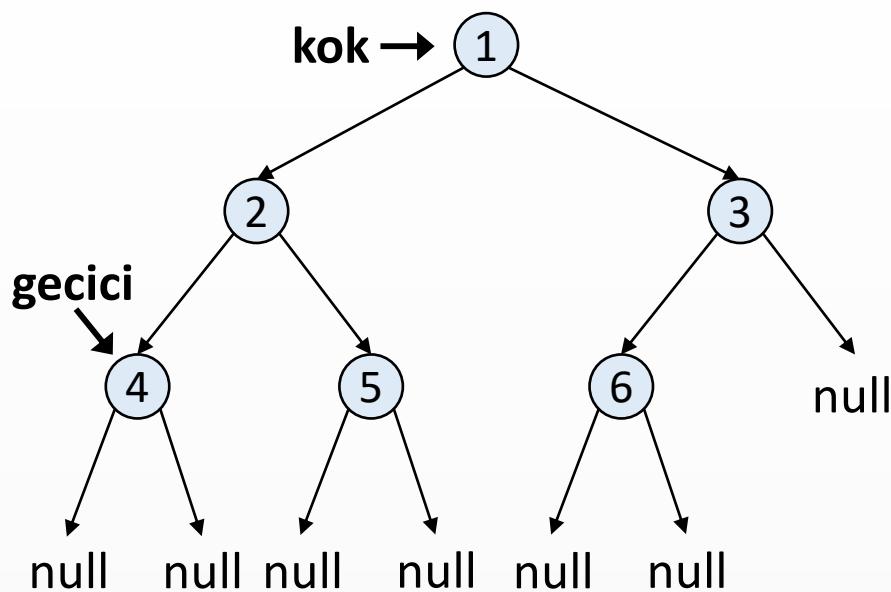
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        ecici = ecici.sag;  
    }  
}
```



Yığıt

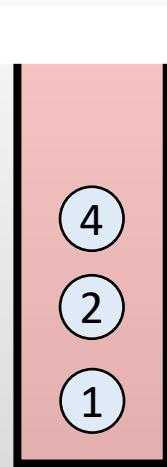
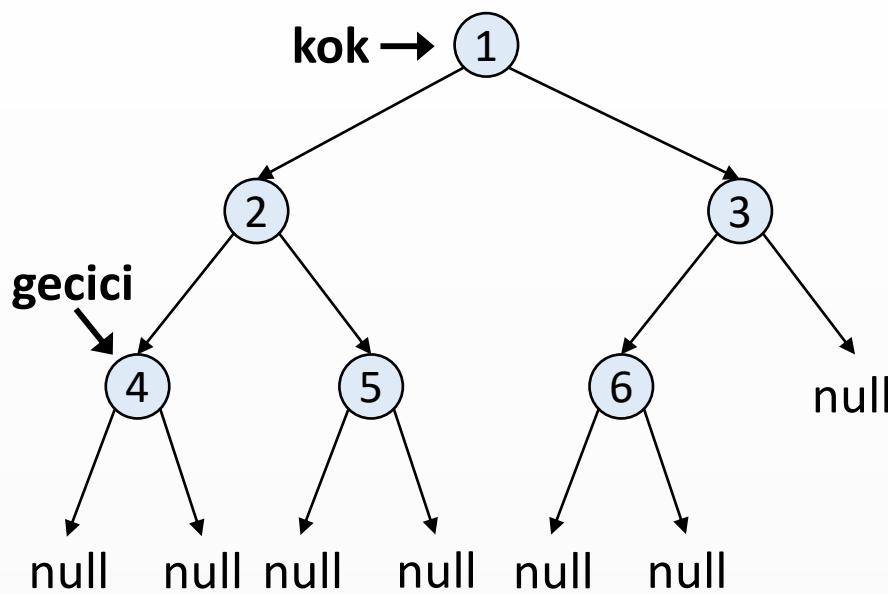
Çıktı:

```
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:

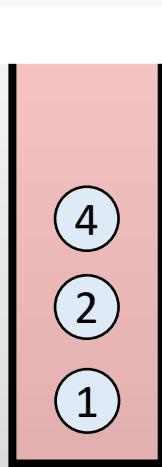
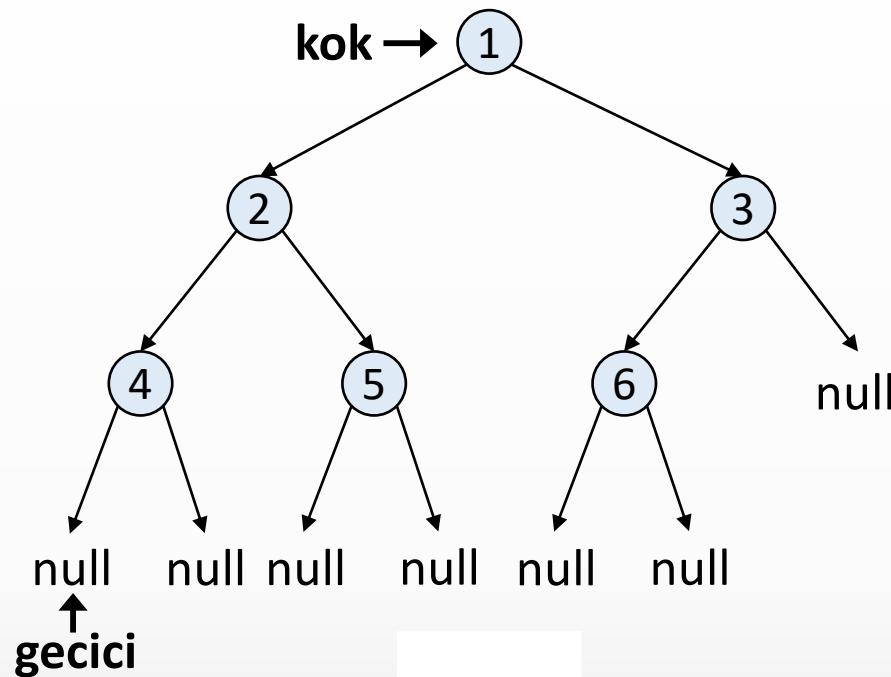
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if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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        System.out.print(ecici.veri + " ");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



Yığıt

Çıktı:

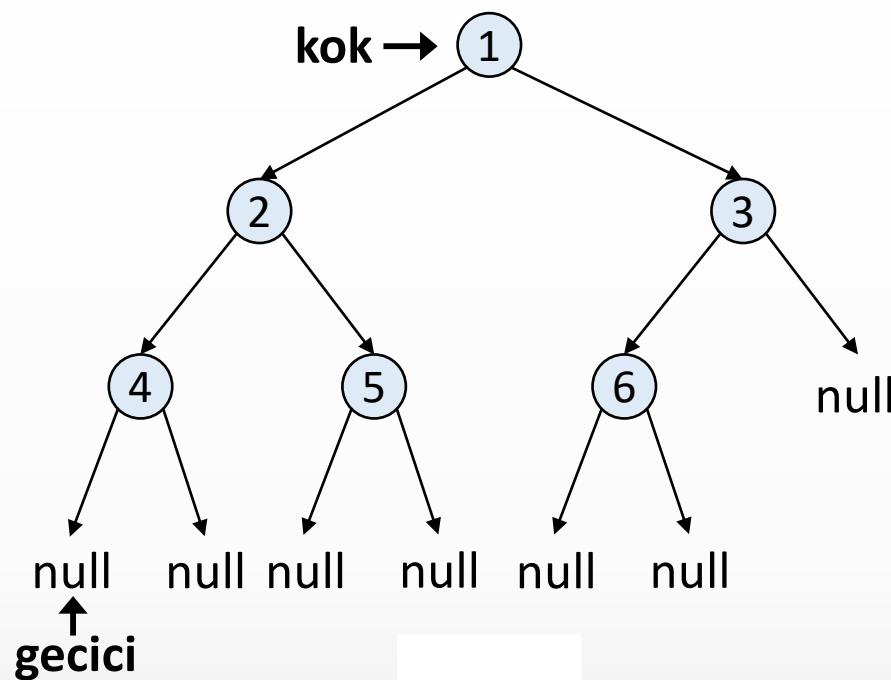
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
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    }  
    else {  
        ecici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



Yığıt

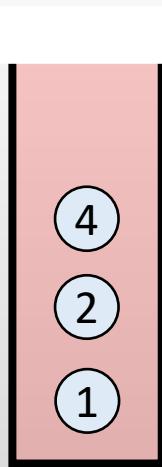
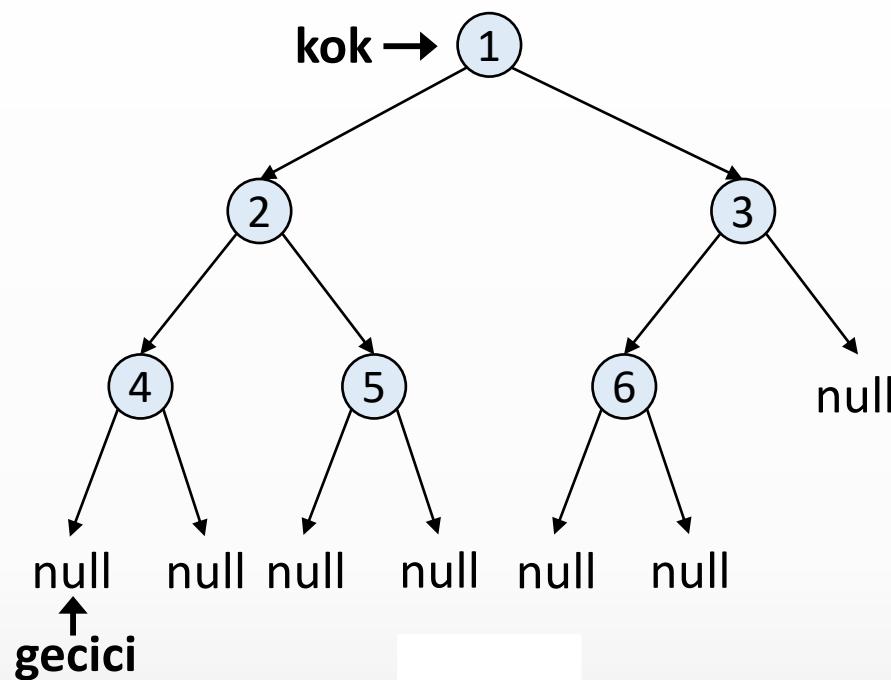
Çıktı:

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



Çıktı:

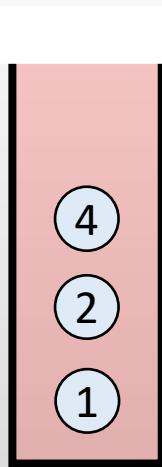
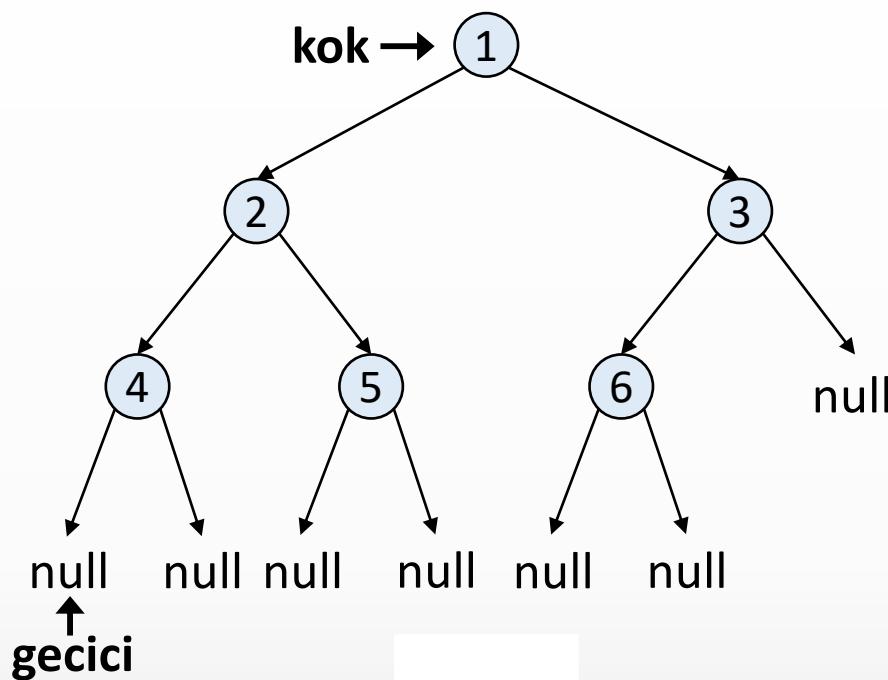
```
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    }  
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```



Yığıt

Çıktı:

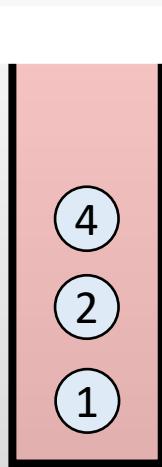
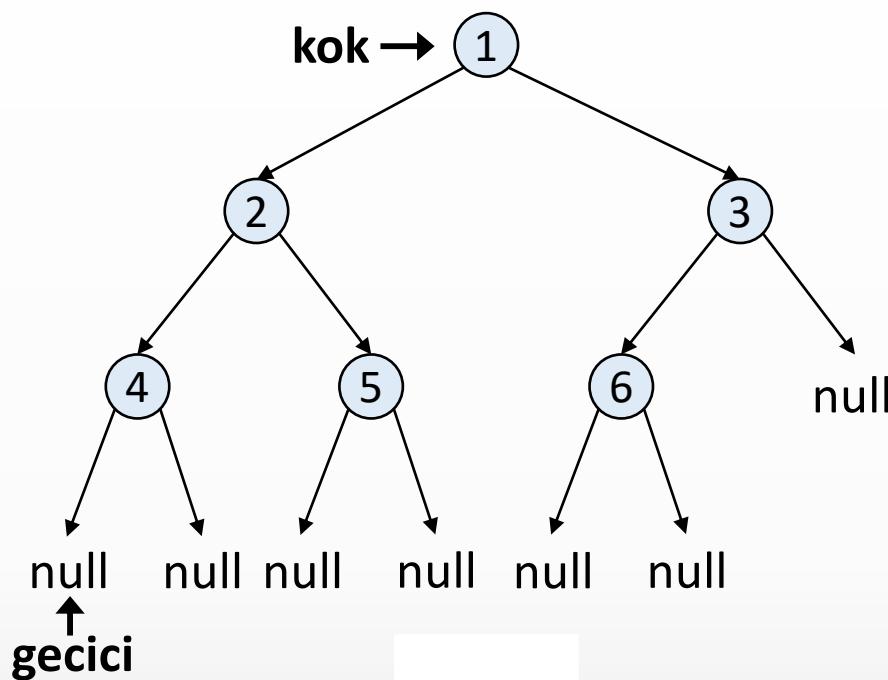
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Yığıt

Çıktı:

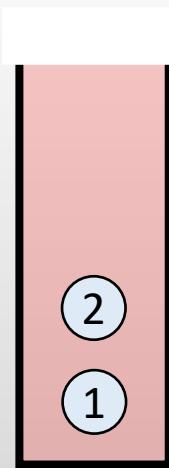
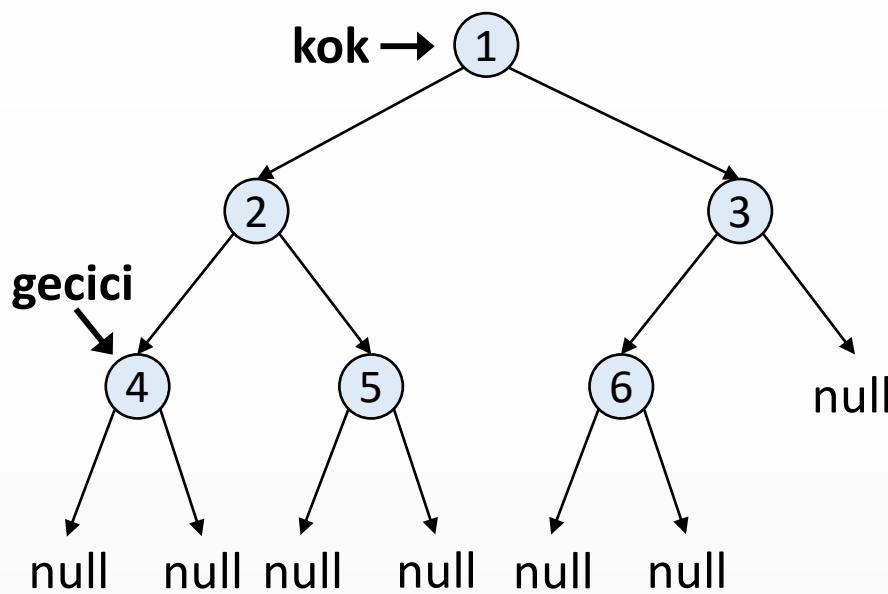
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if(kok == null) {  
    return;  
}  
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        System.out.print(ecici.veri + " ");  
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    }  
}
```



Yığıt

Çıktı:

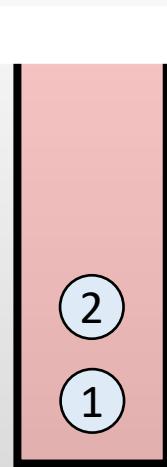
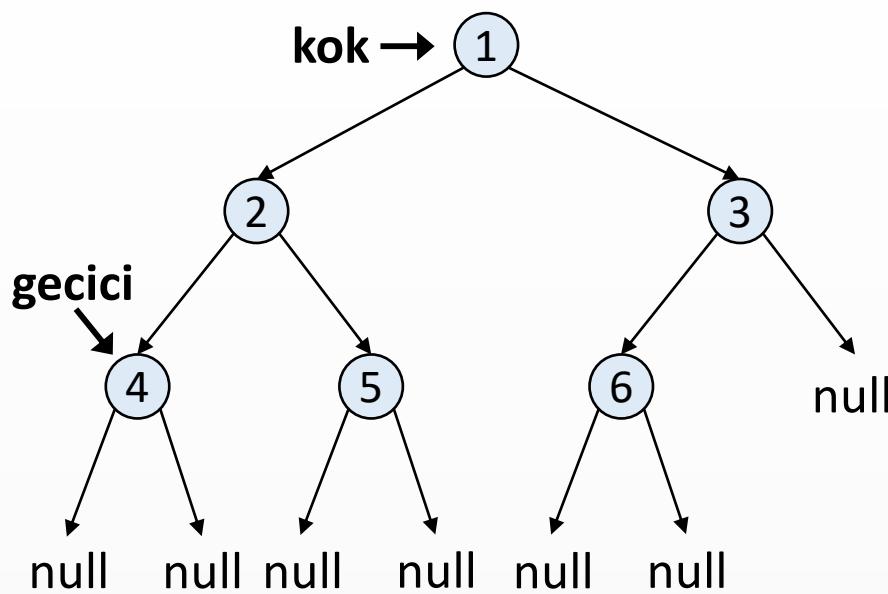
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    }  
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Yığıt

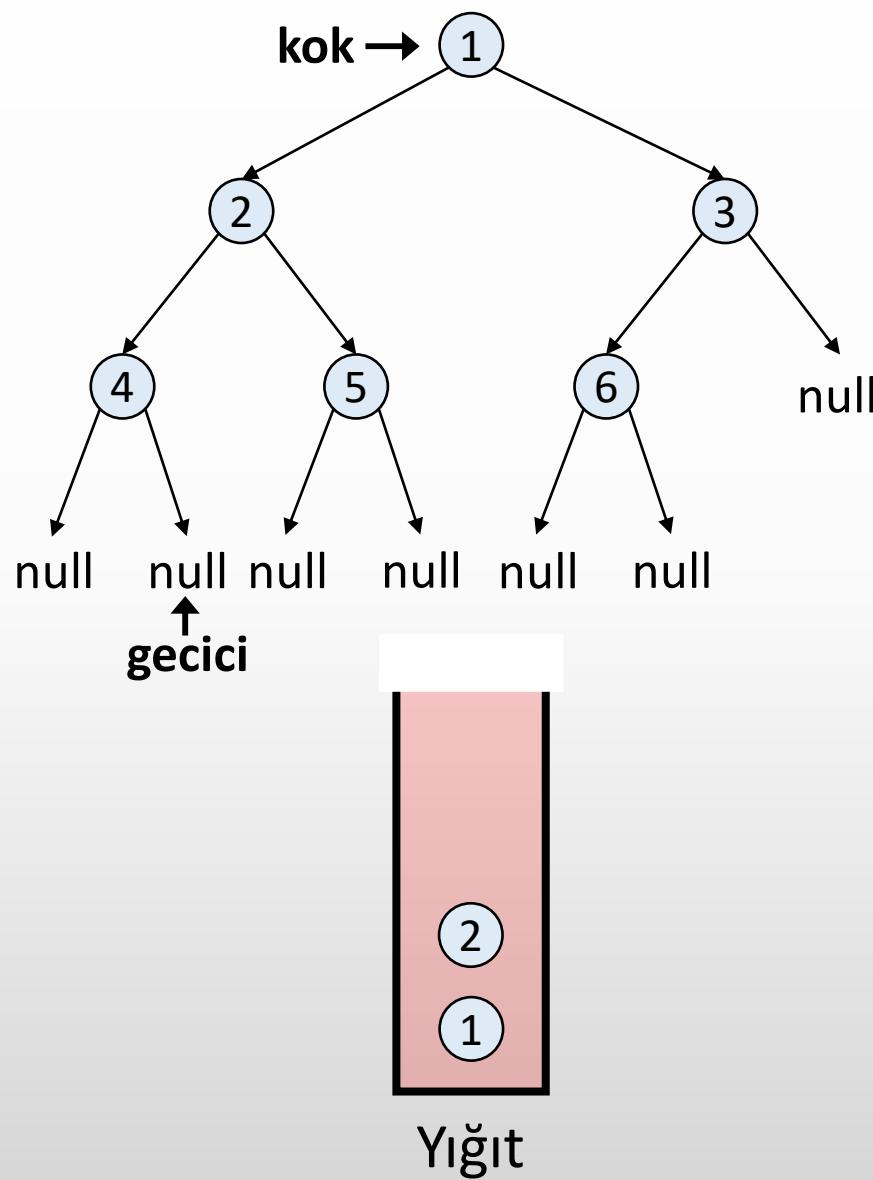
Çıktı:

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



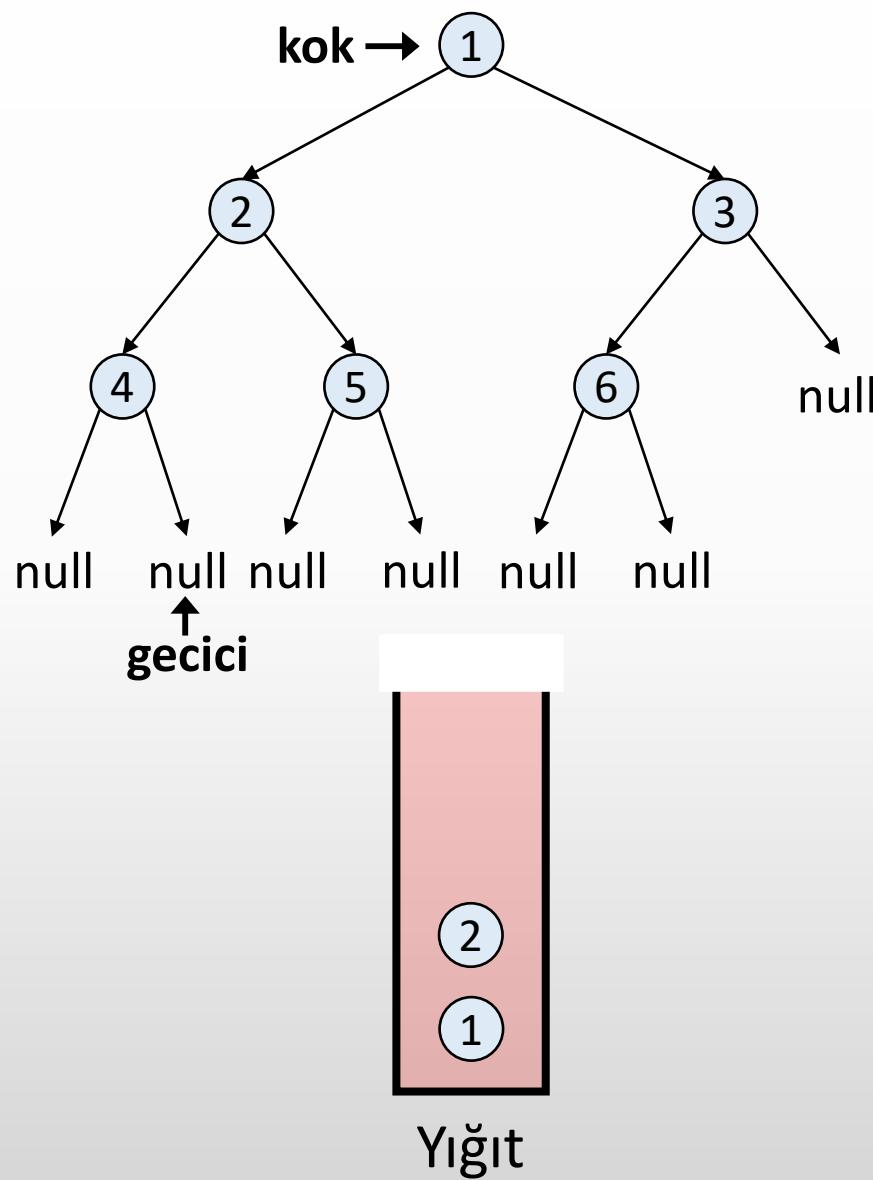
Çıktı: 4

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if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty() || gecici != null) {  
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        System.out.print(ecici.veri + " ");  
        ecici = ecici.sag;  
    }  
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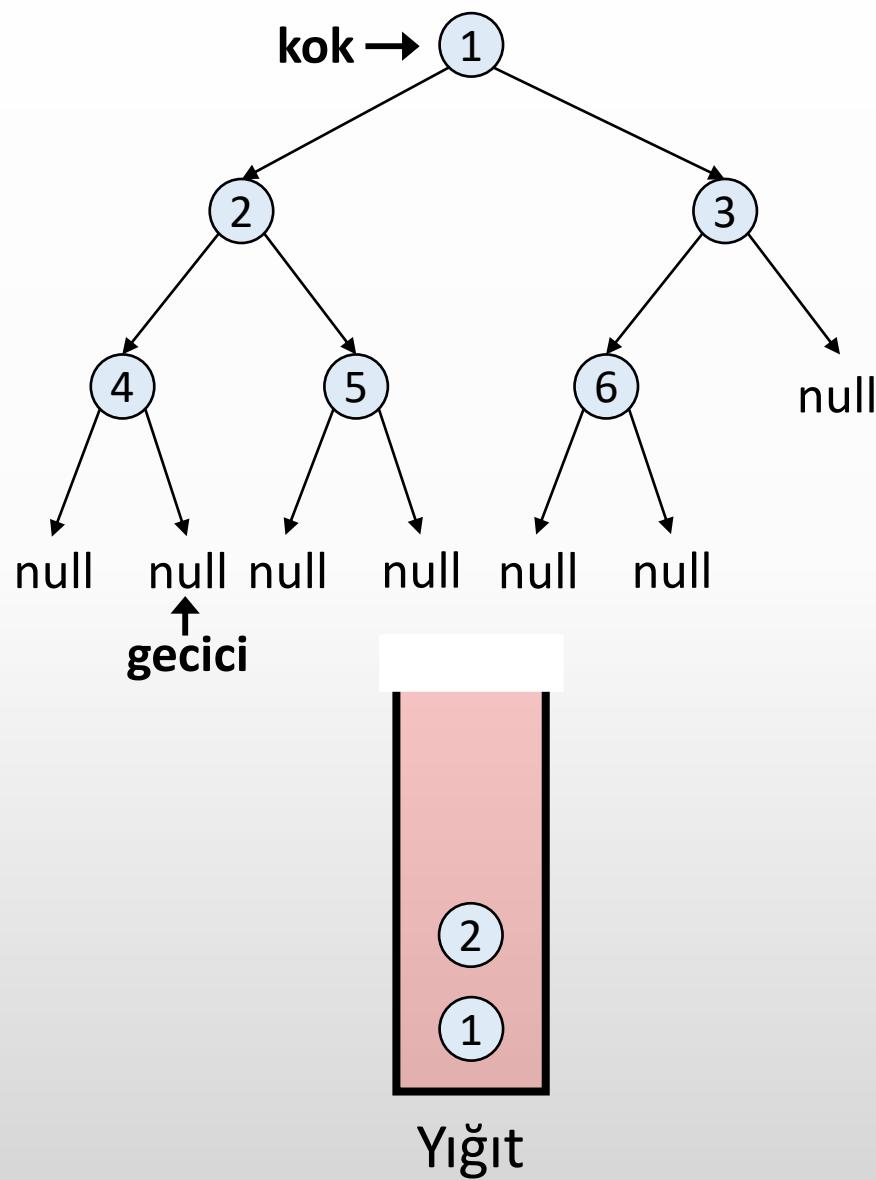
Çıktı: 4

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



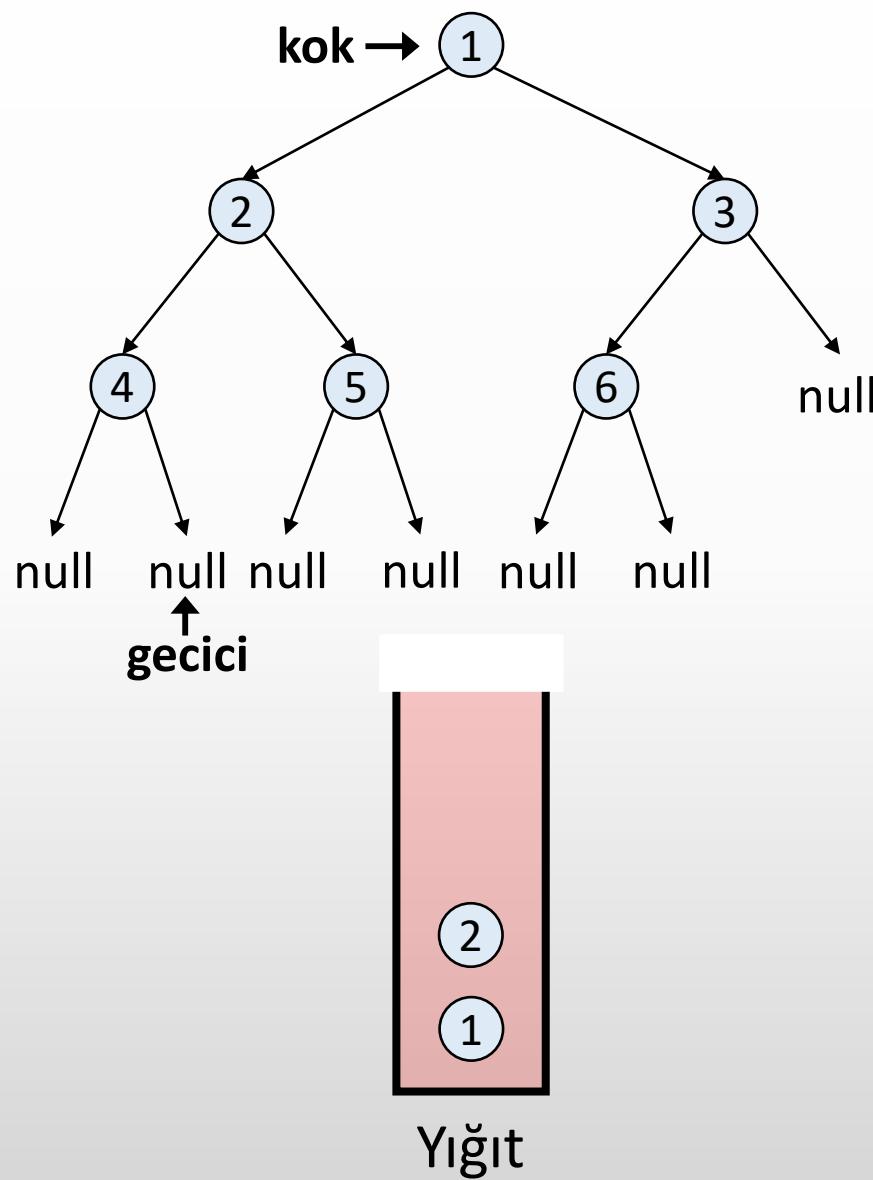
Cıktı: 4

```
if(kok == null) {  
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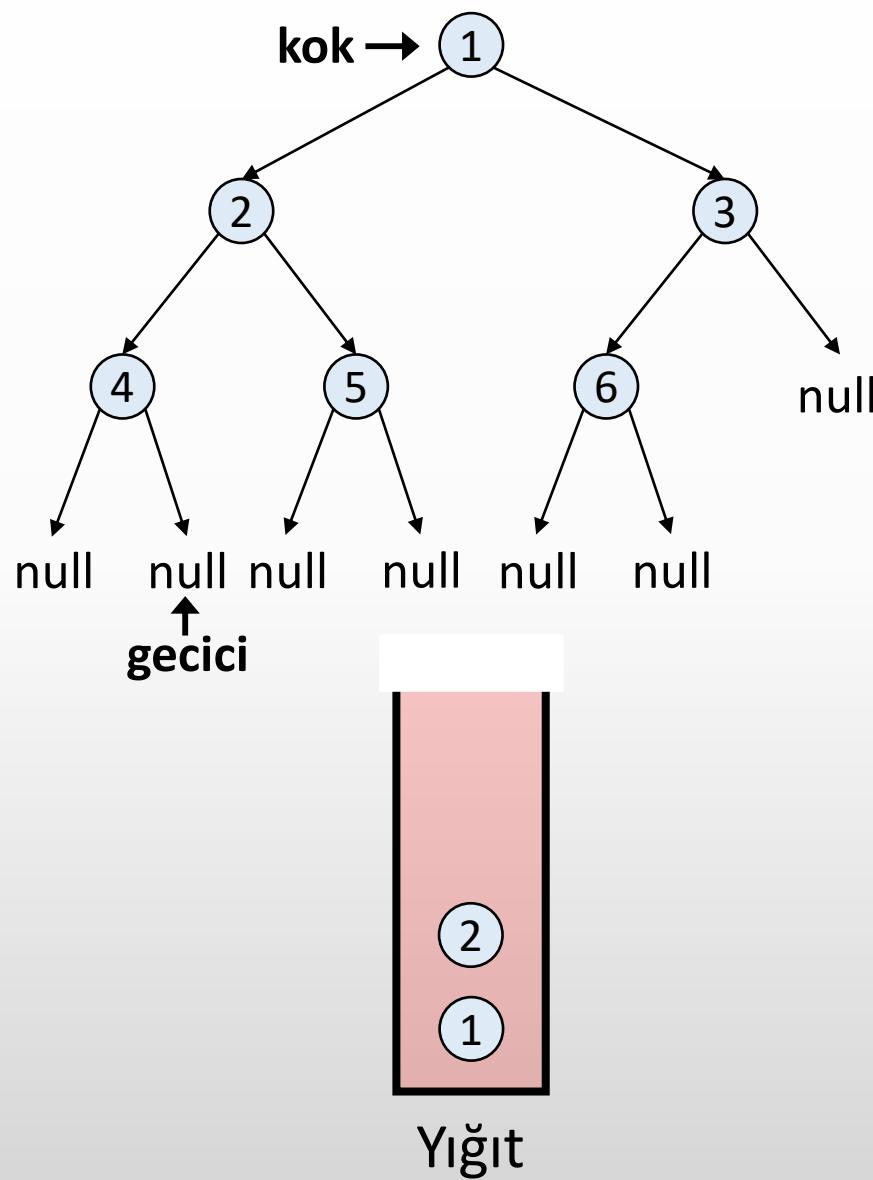
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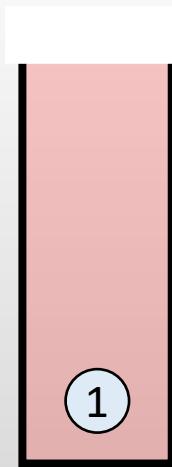
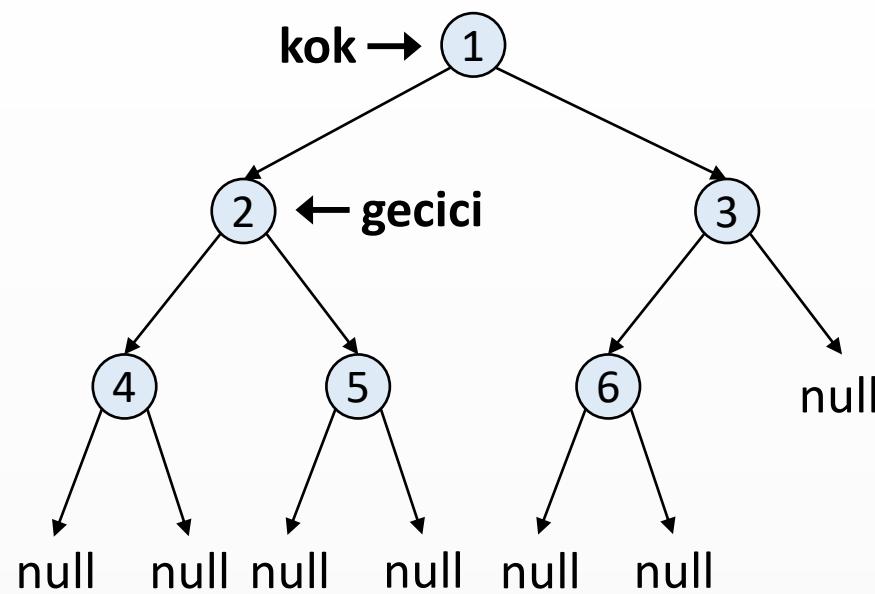
Çıktı: 4

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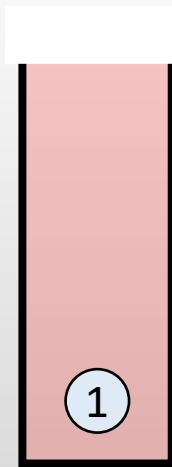
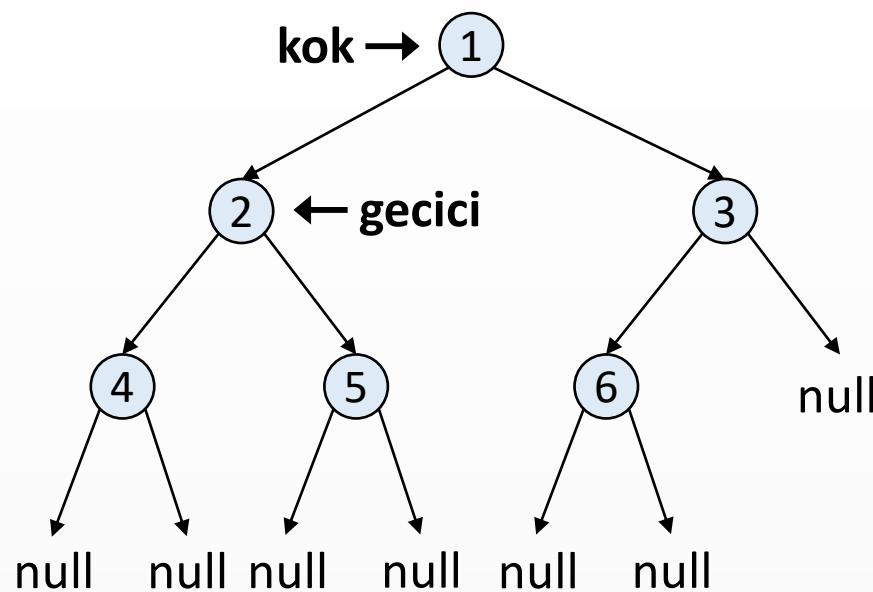
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        System.out.print(gecici.veri + " ");  
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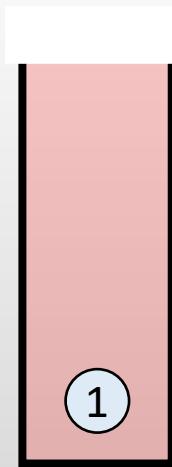
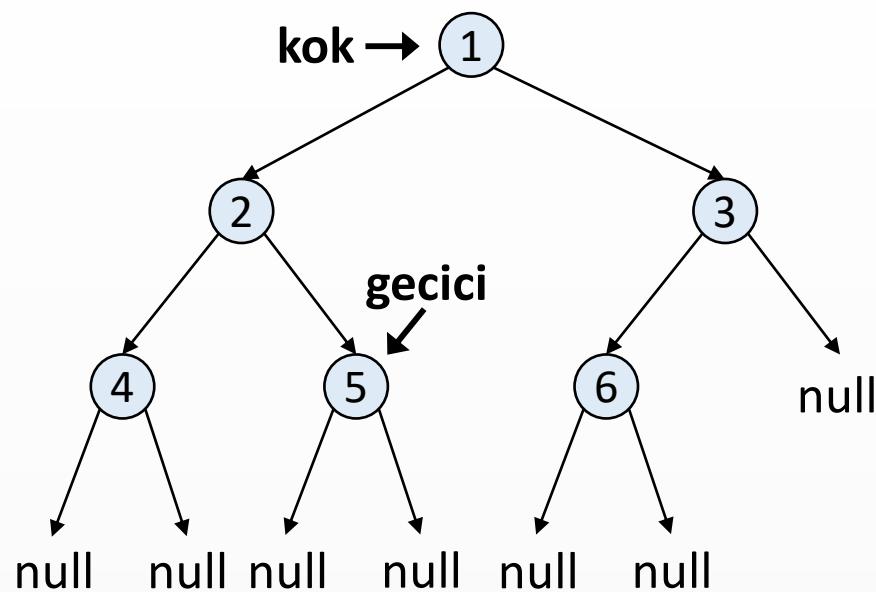
Çıktı: 4

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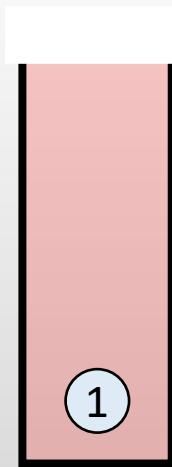
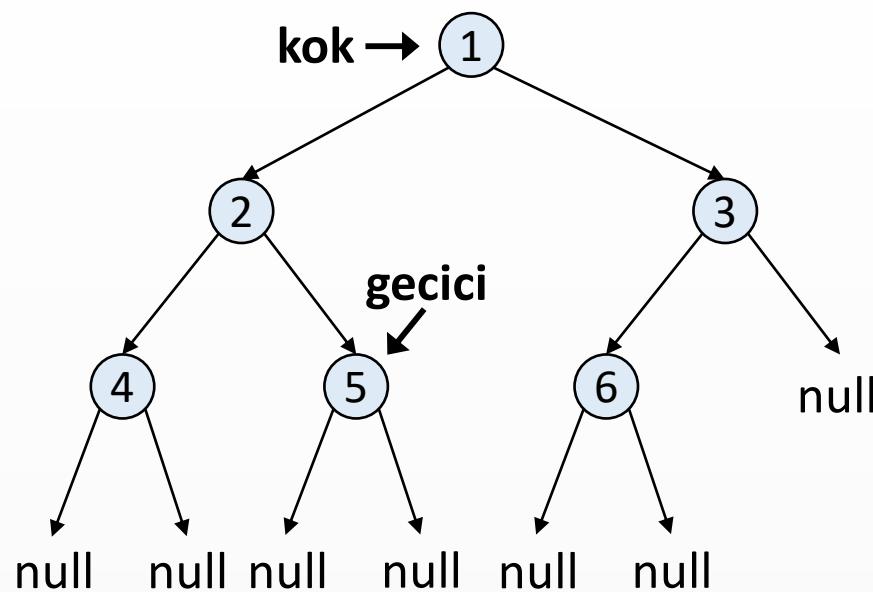
Çıktı: 4 2

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



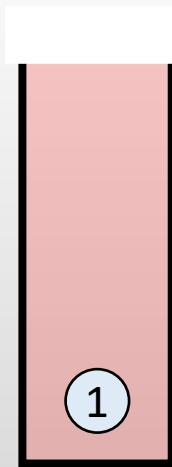
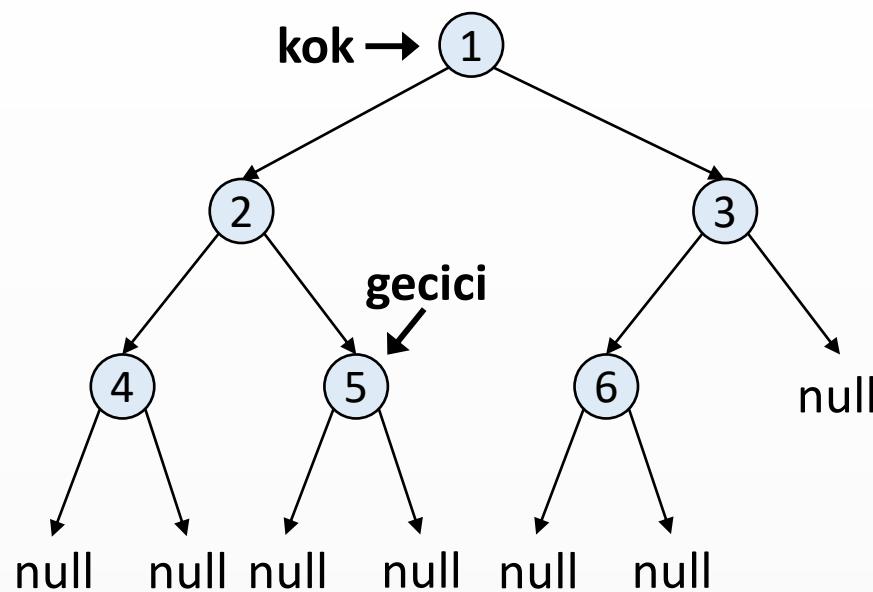
Cıktı: 4 2

```
if(kok == null) {  
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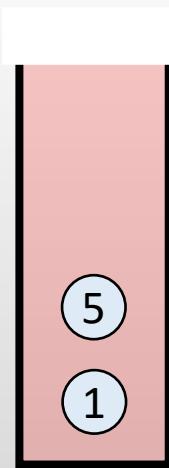
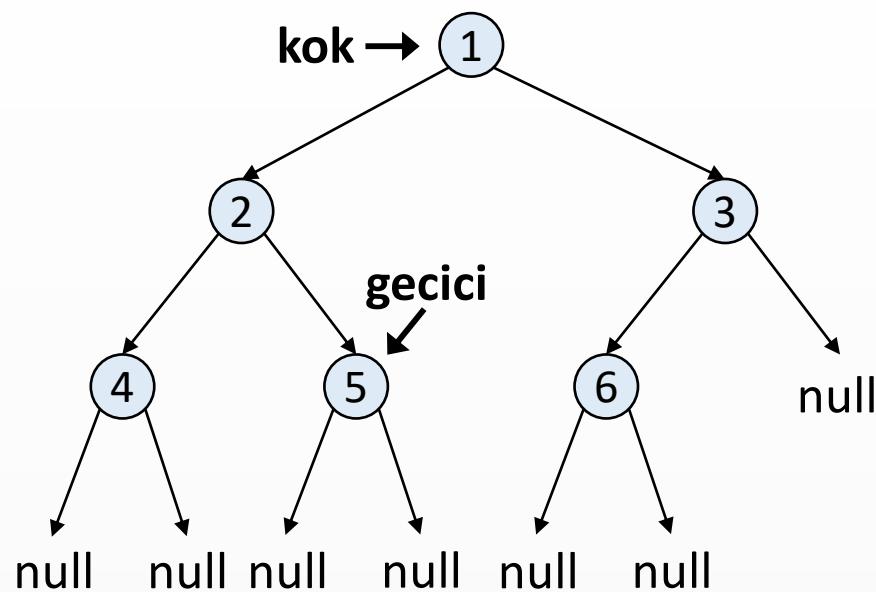
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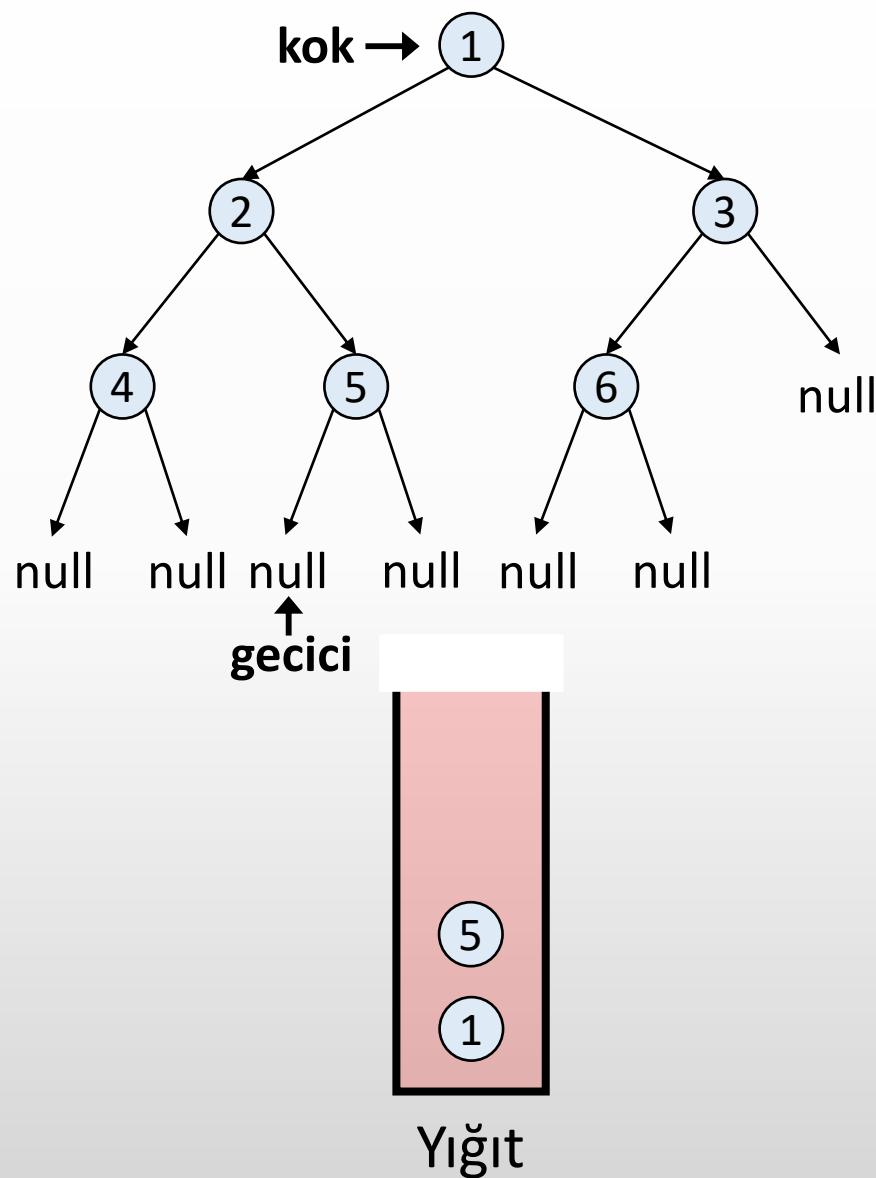
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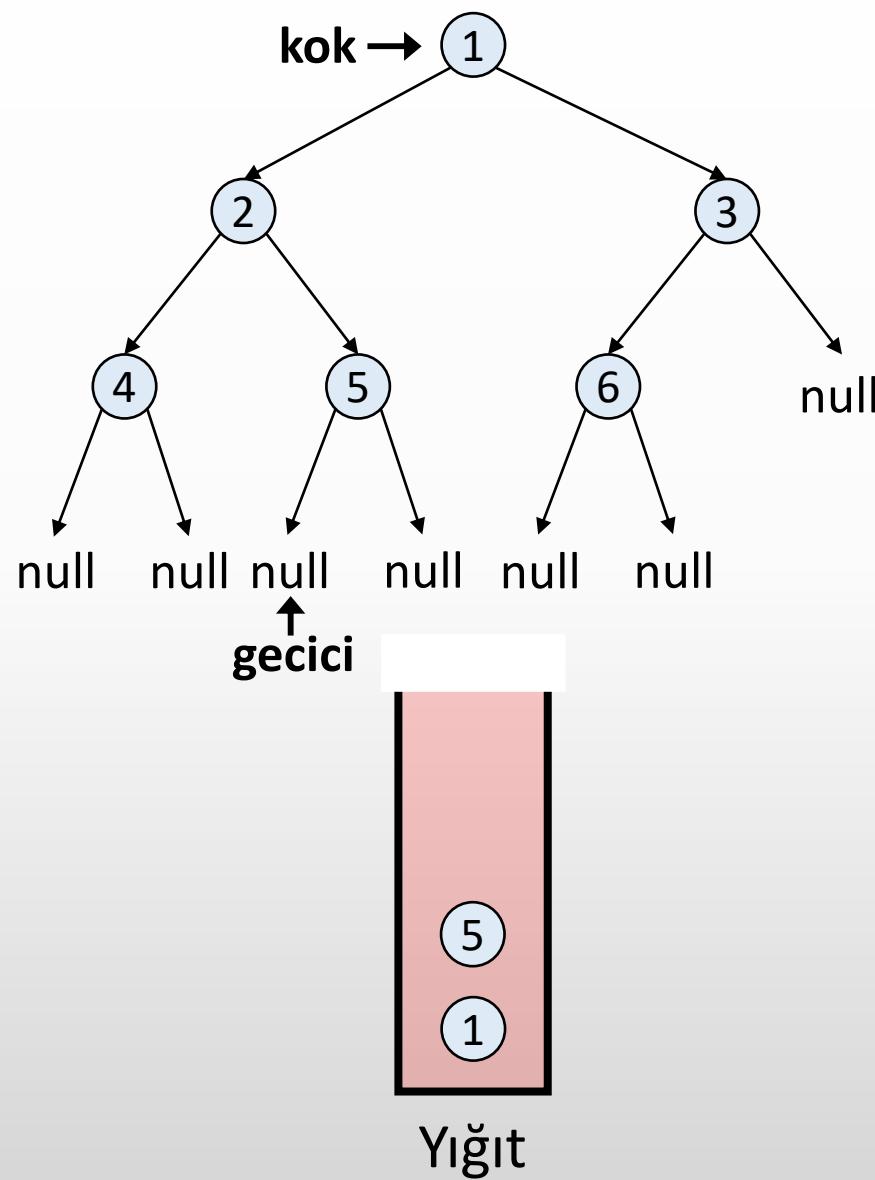
Cıktı: 4 2

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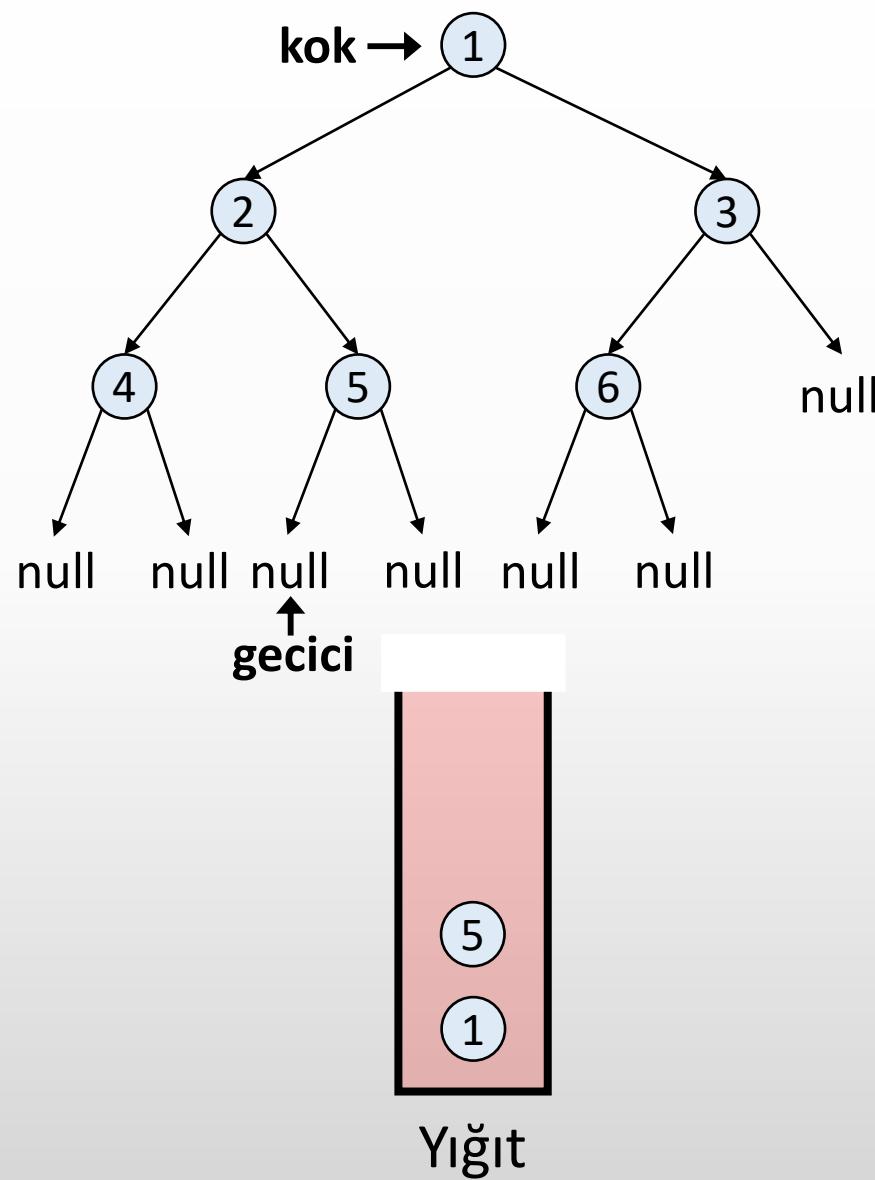
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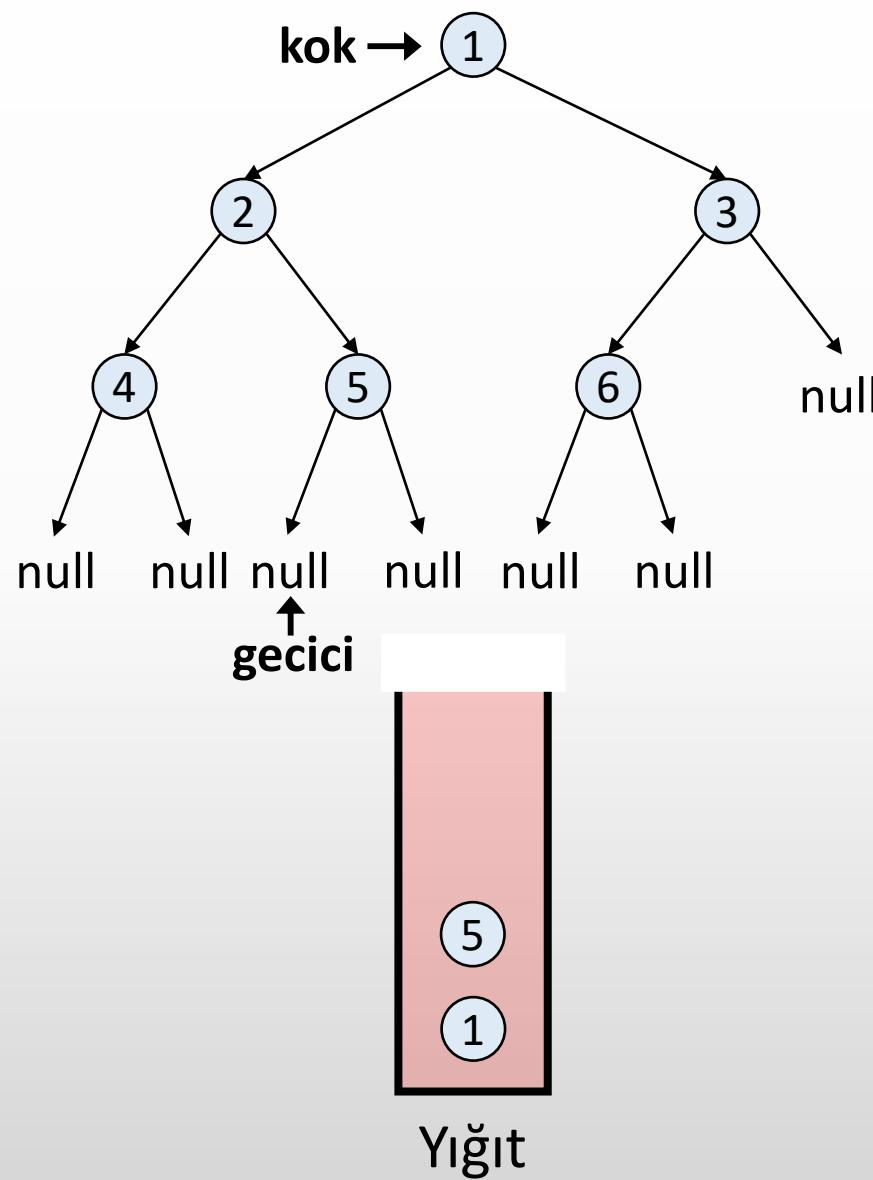
Çıktı: 4 2

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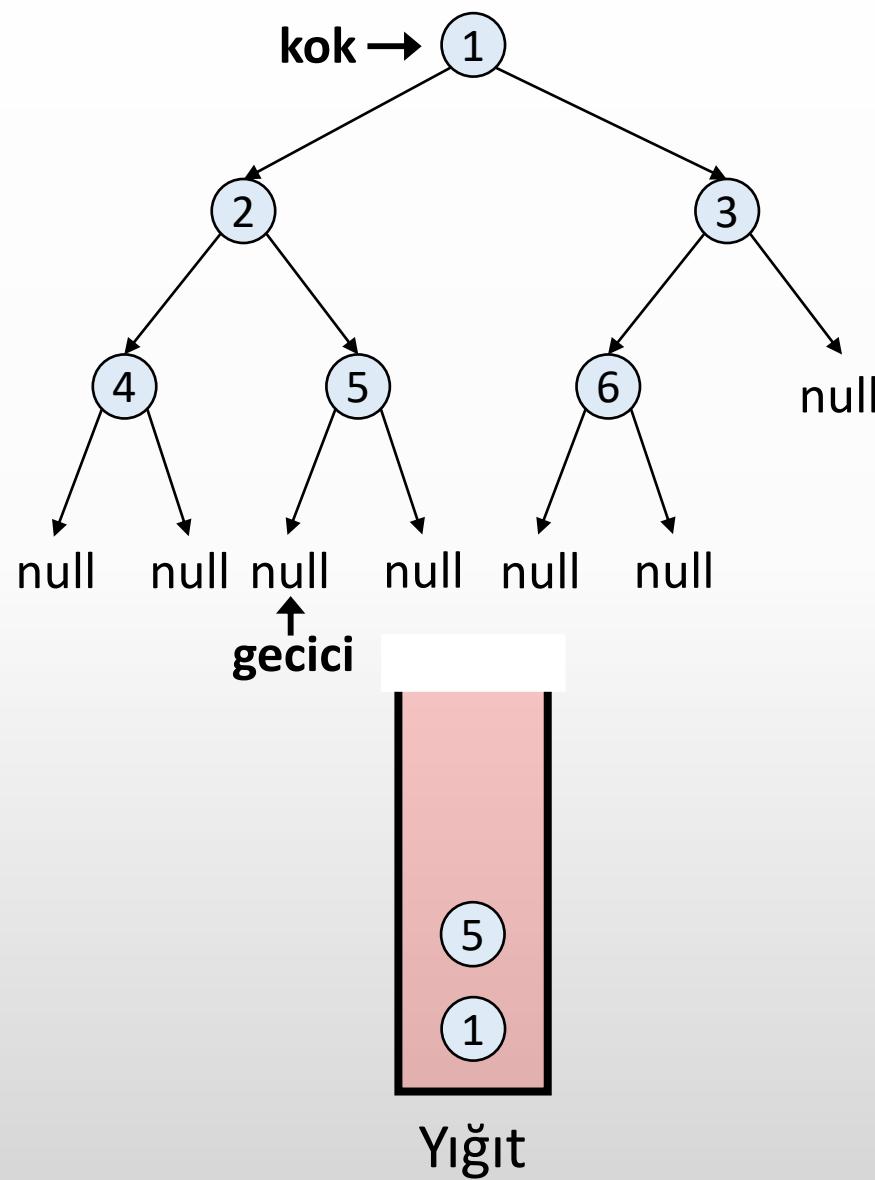
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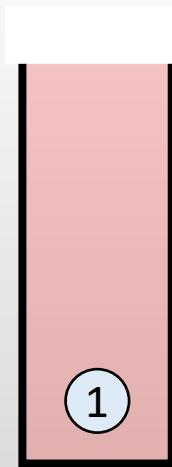
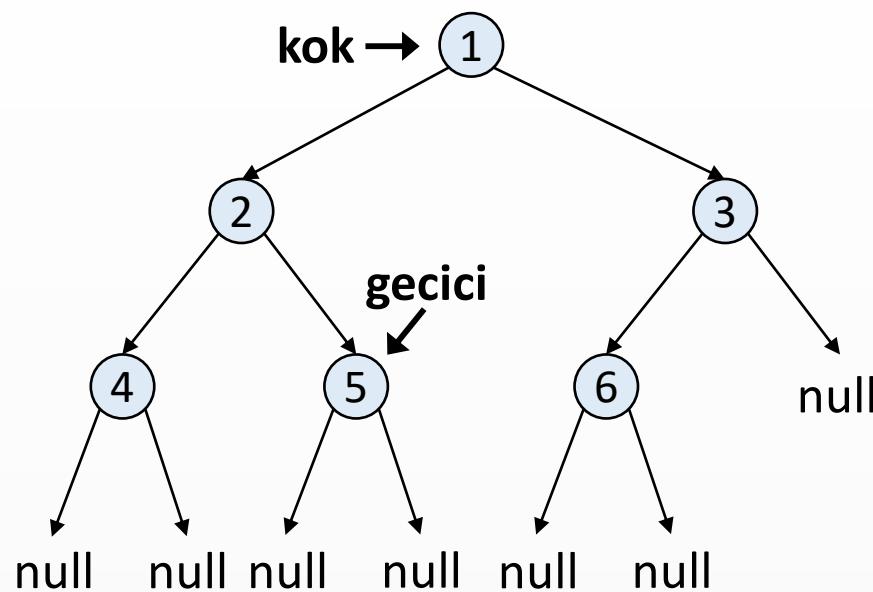
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```



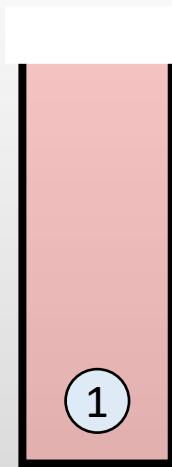
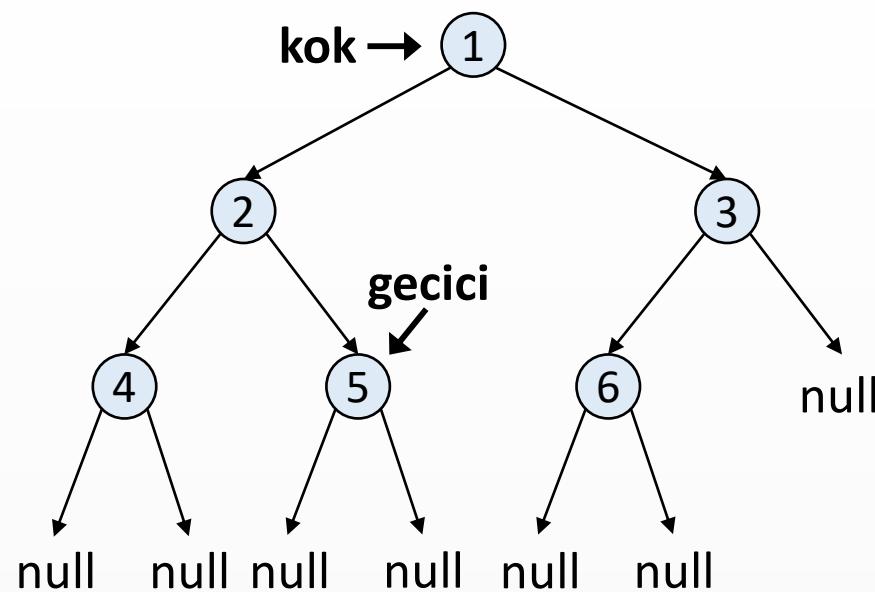
Cıktı: 4 2

```
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;  
    }  
}
```



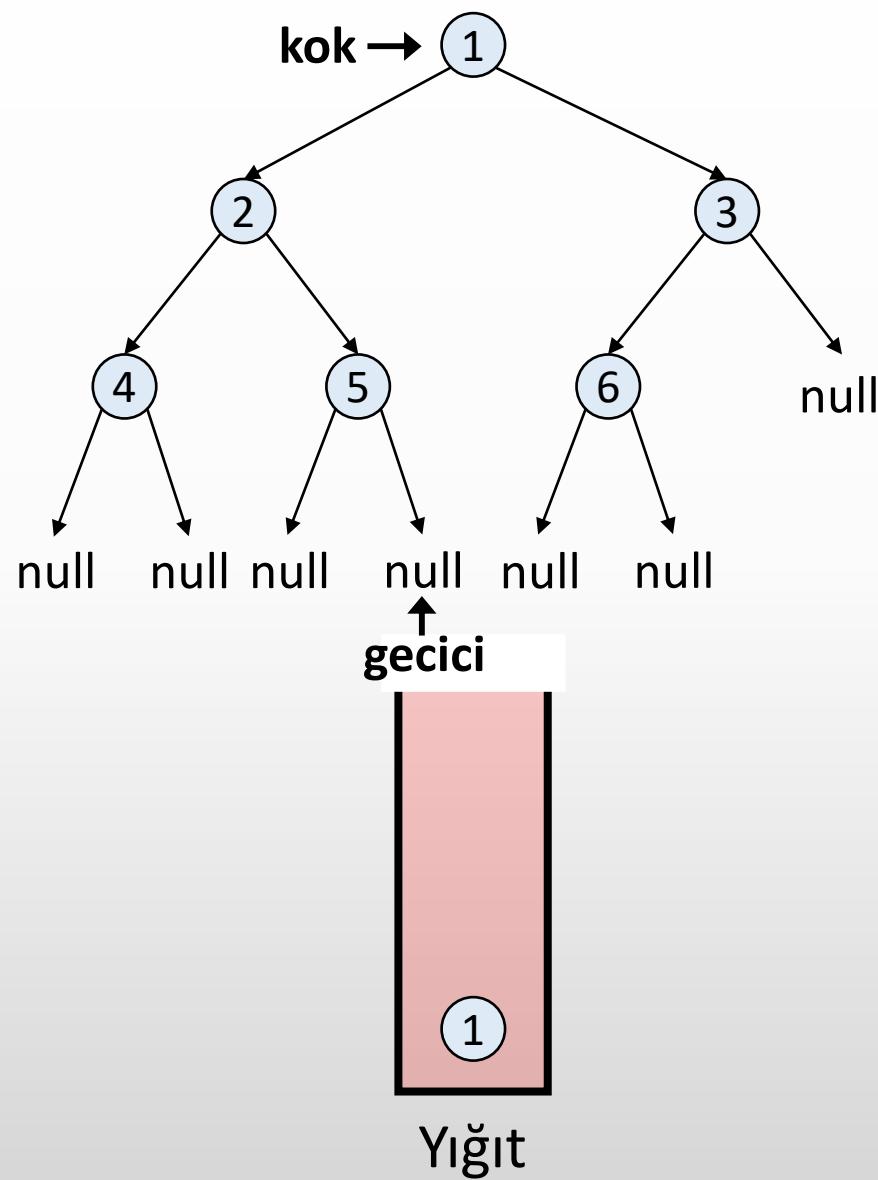
Cıktı: 4 2

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



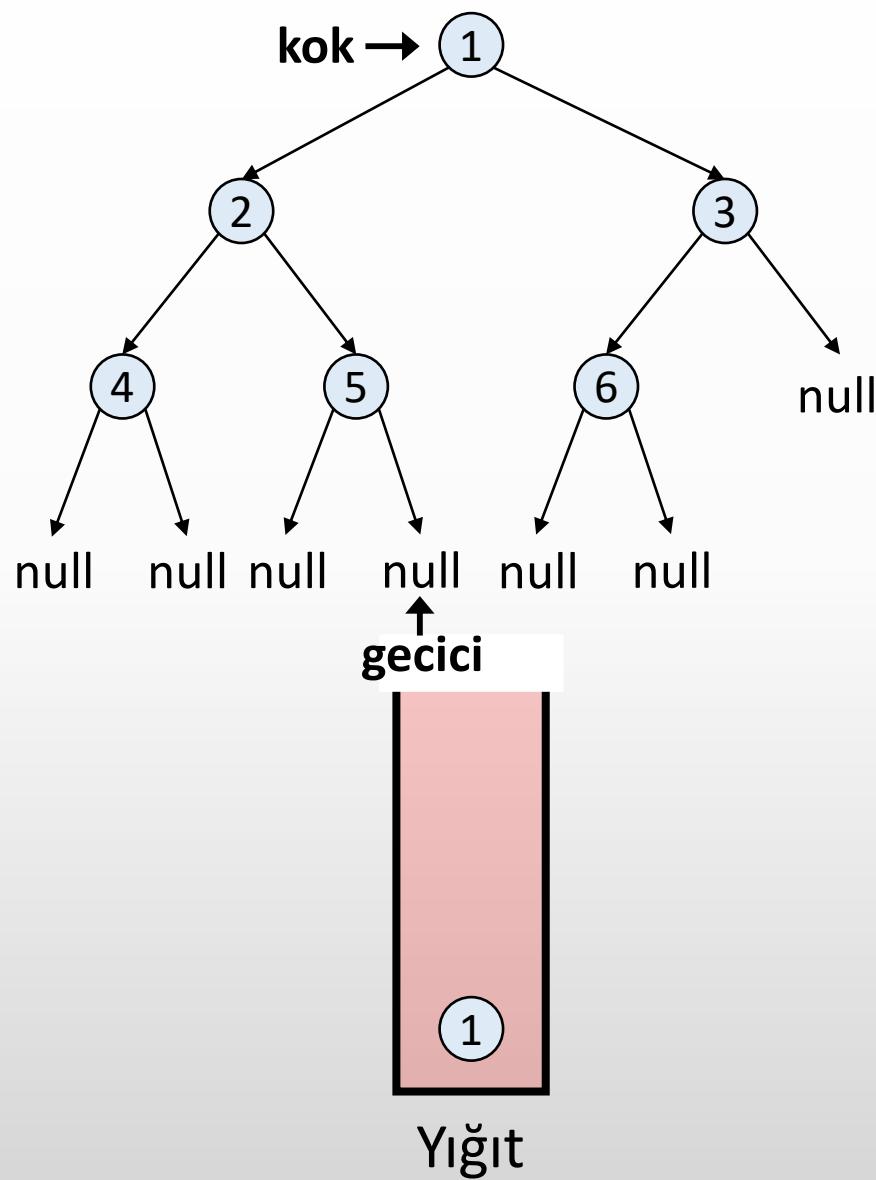
Çıktı: 4 2 5

```
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;  
    }  
}
```



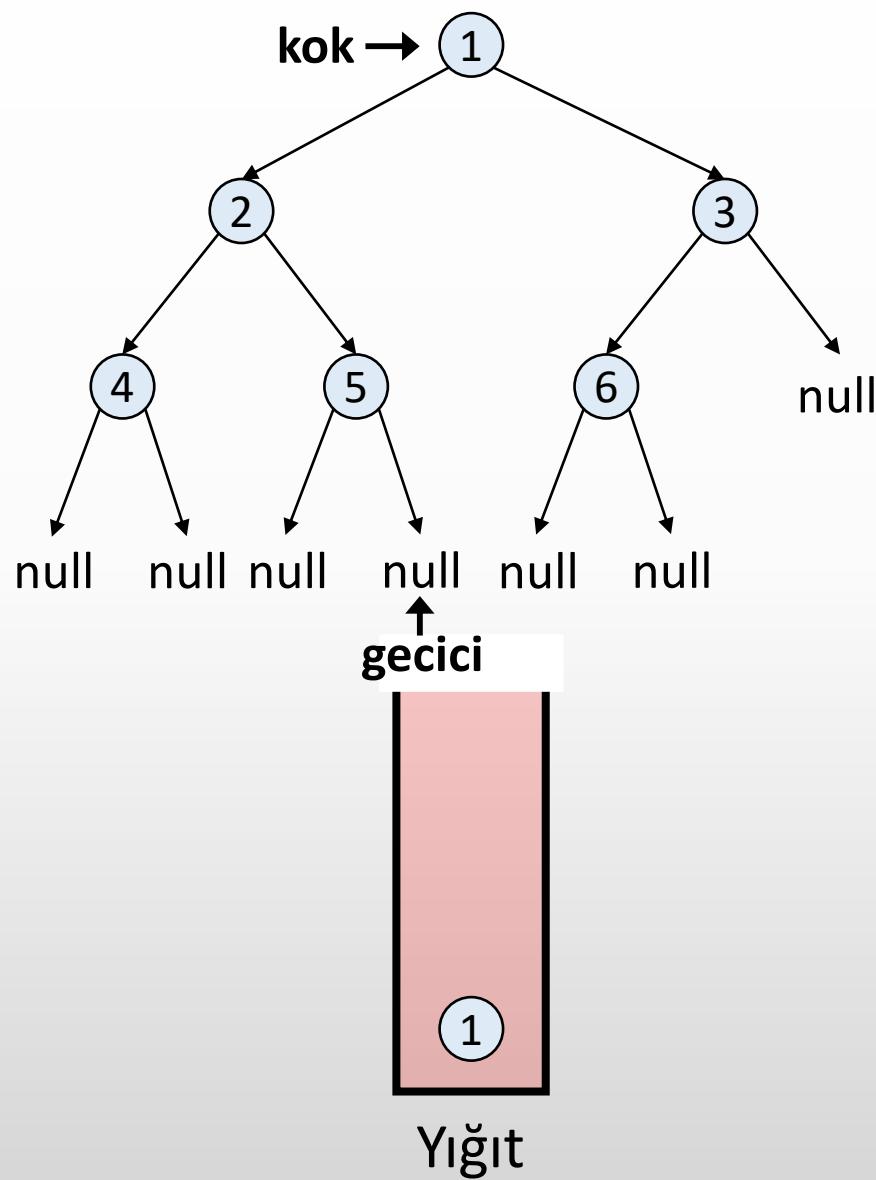
Çıktı: 4 2 5

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



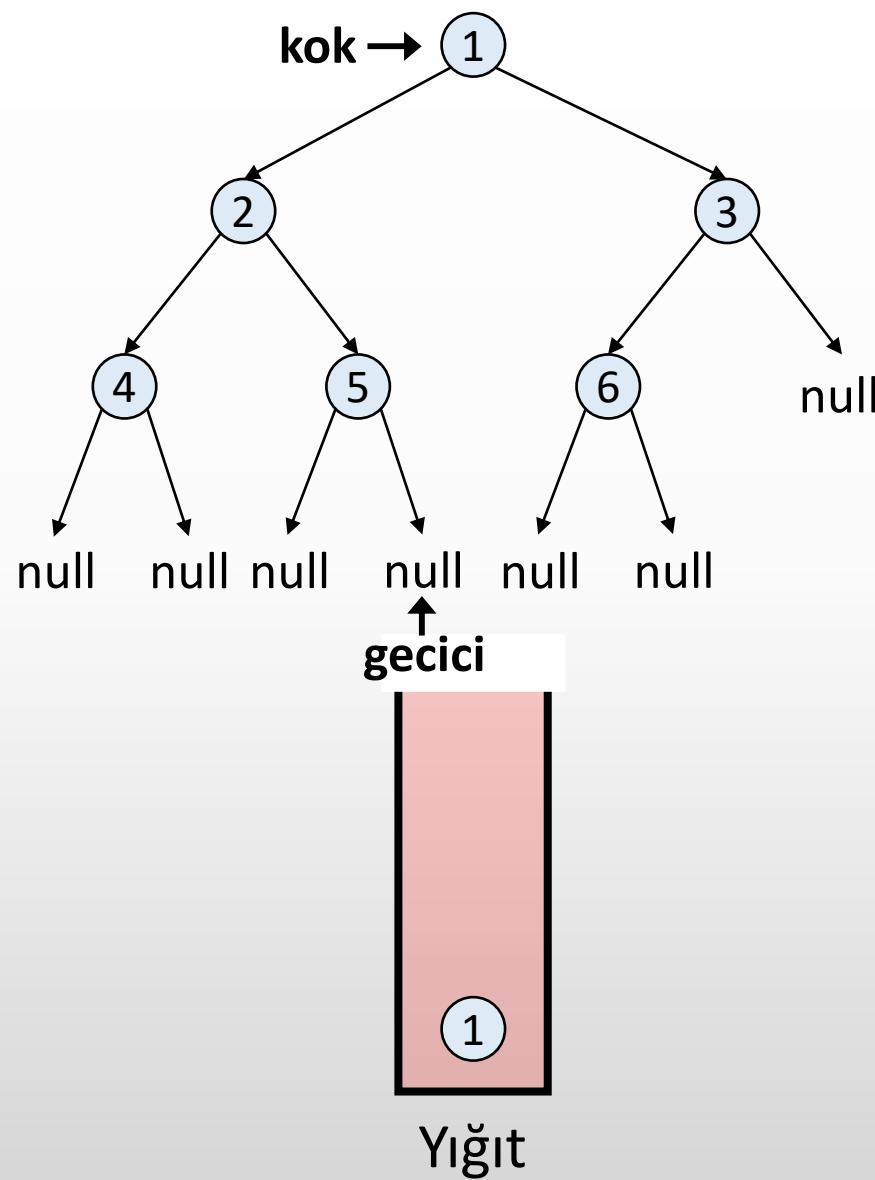
Çıktı: 4 2 5

```
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;
    }
}
```



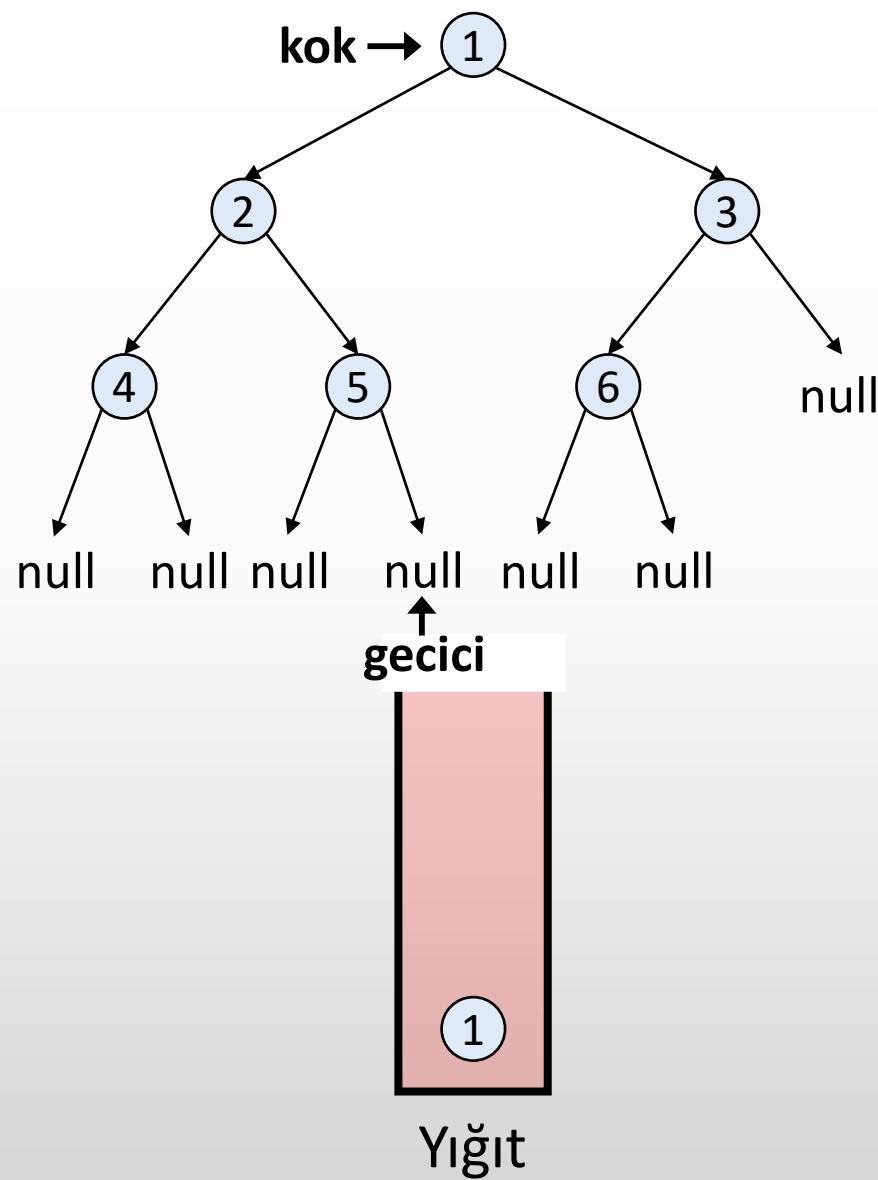
Çıktı: 4 2 5

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



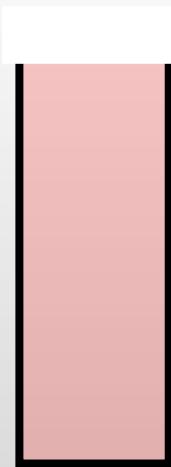
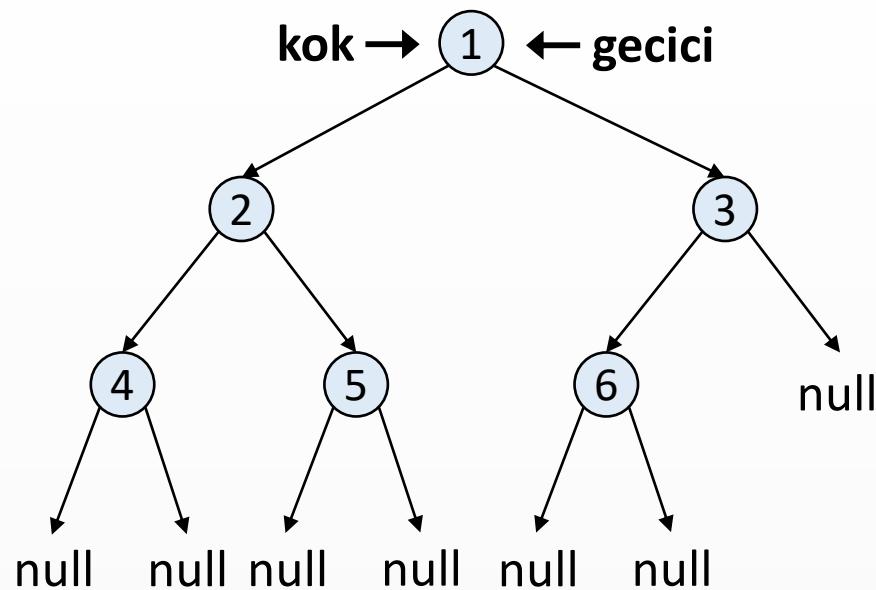
Çıktı: 4 2 5

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

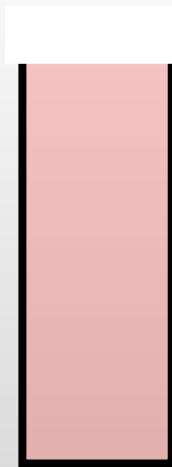
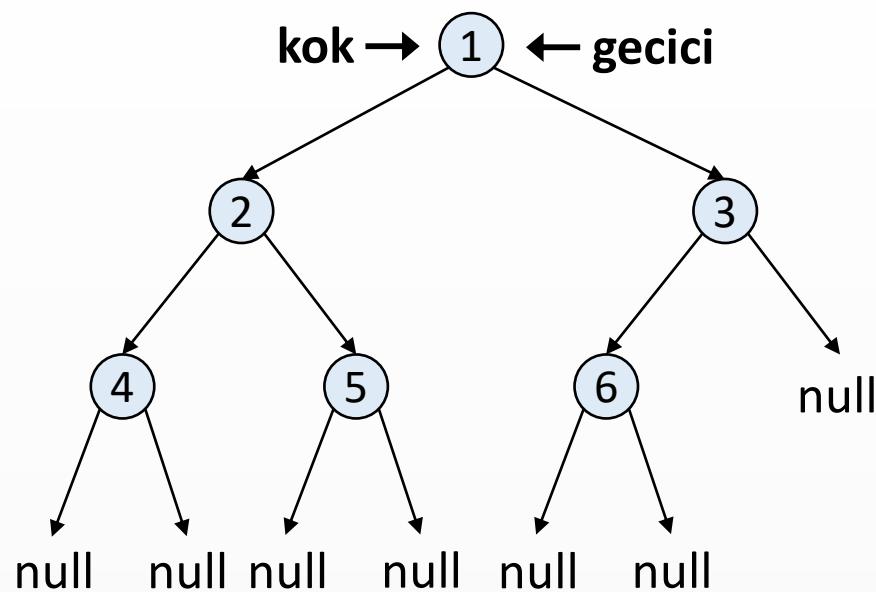


Yığıt

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;  
    }  
}
```

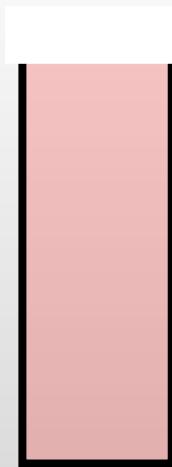
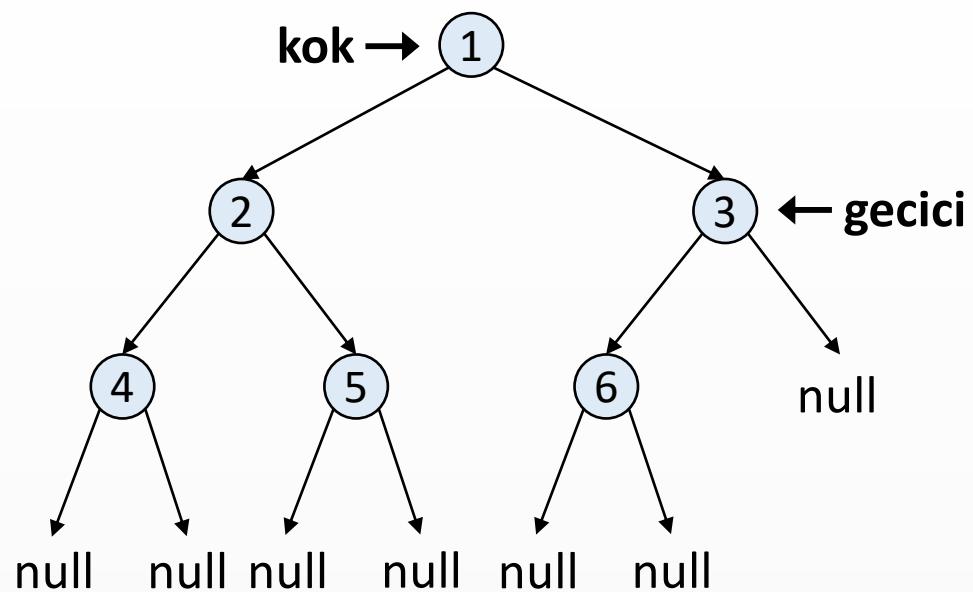
A code snippet illustrating the in-order traversal of a binary tree using a stack. The code initializes a stack, sets the current node to the root, and enters a loop. Inside the loop, it pushes the current node onto the stack and moves to its left child (if not null). Once a node's left child is null, it is popped from the stack, its value is printed, and its right child is set as the current node. This process repeats until both the stack is empty and the current node is null.



Yığıt

Cıktı: 4 2 5 1

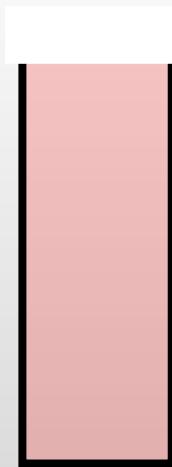
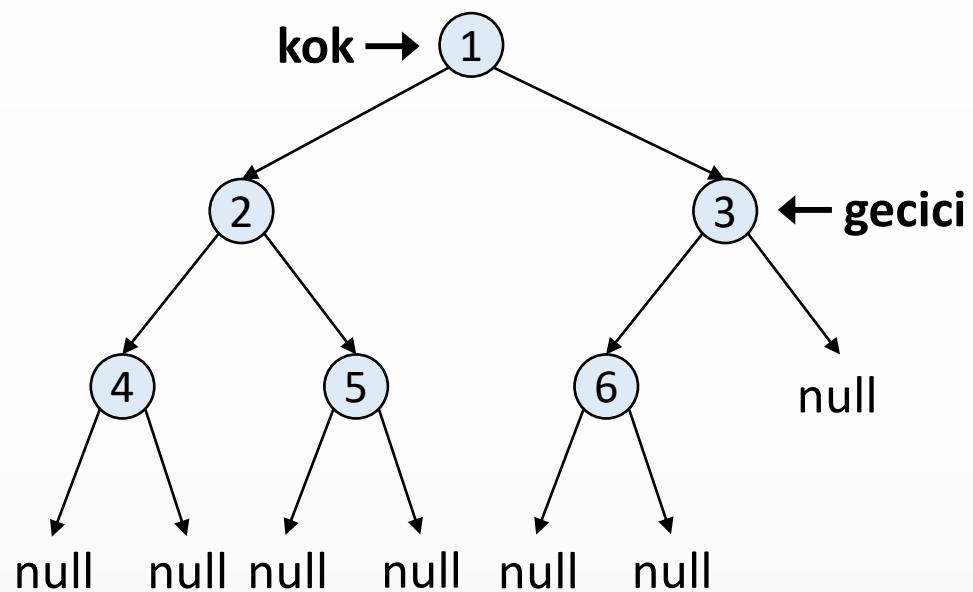
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Cıktı: 4 2 5 1

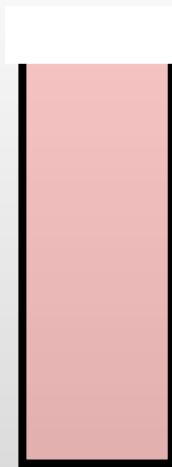
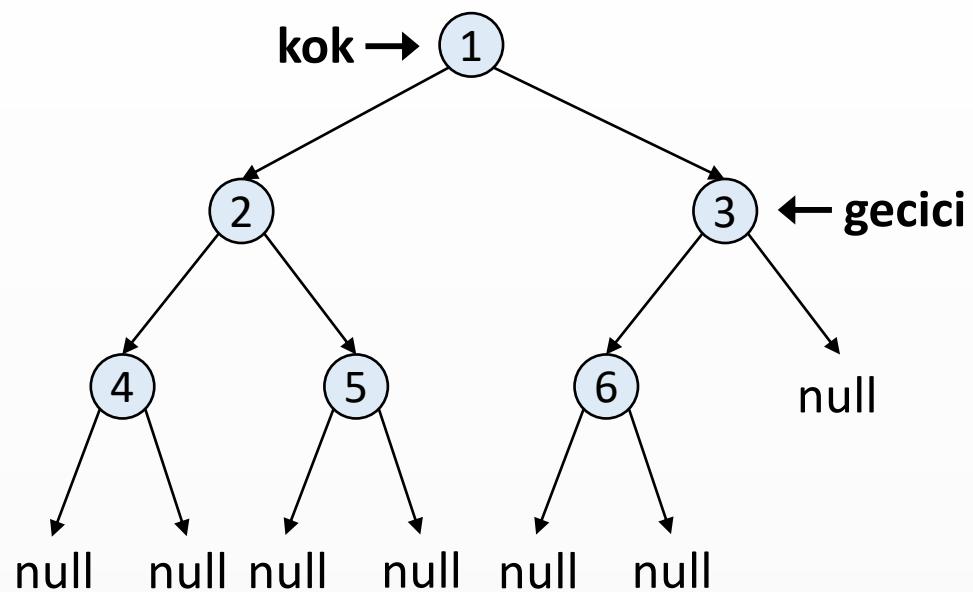
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
  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



Yığıt

Cıktı: 4 2 5 1

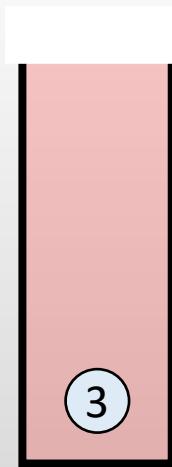
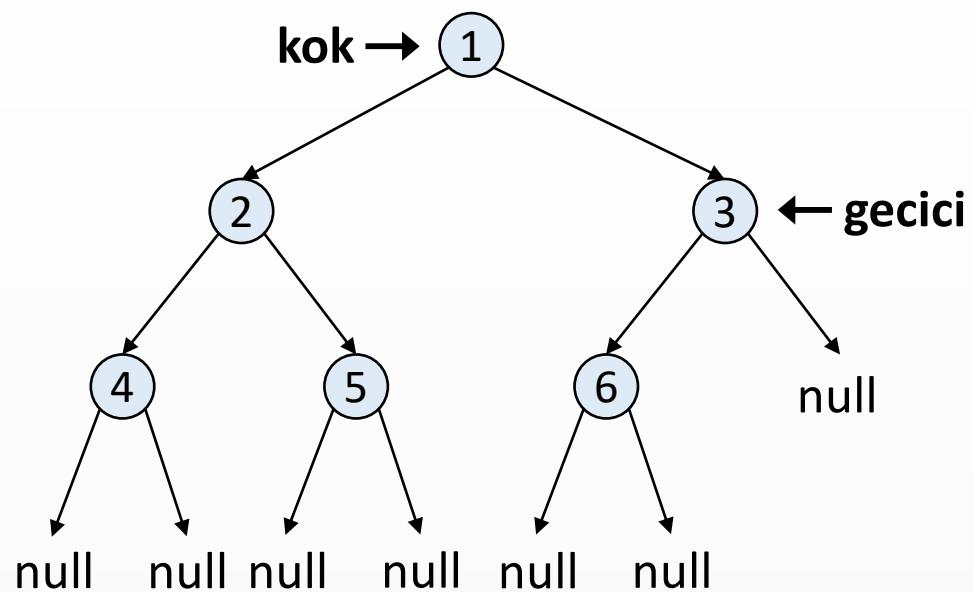
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
→ while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
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



Yığıt

Cıktı: 4 2 5 1

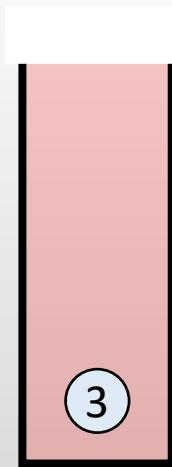
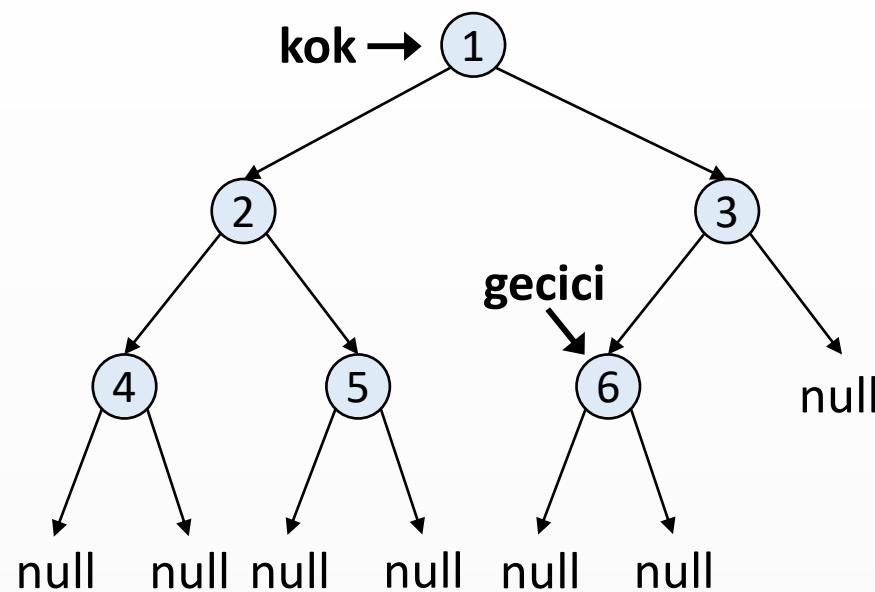
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Cıktı: 4 2 5 1

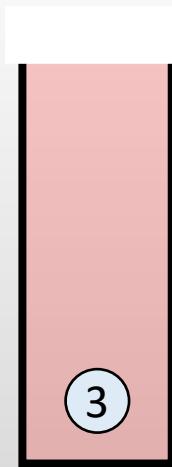
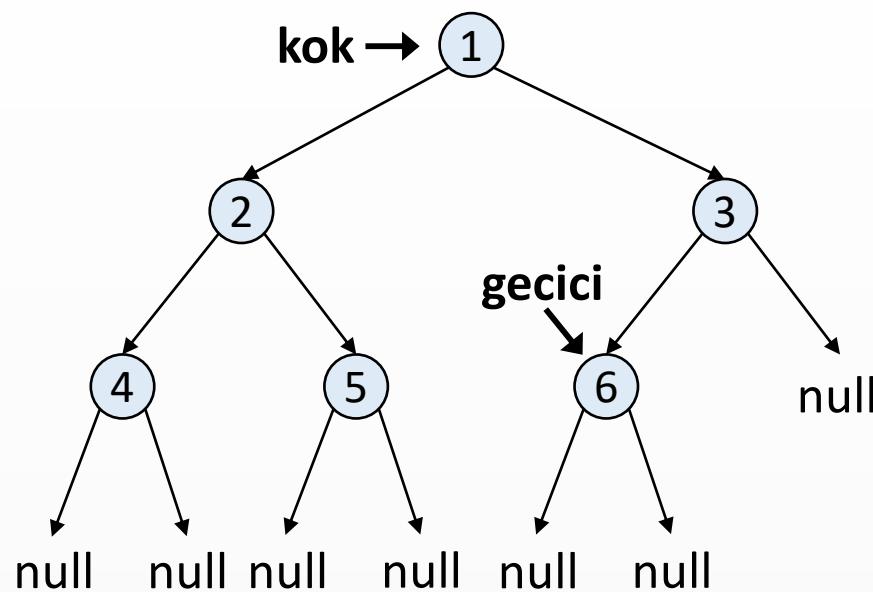
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
 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



Yığıt

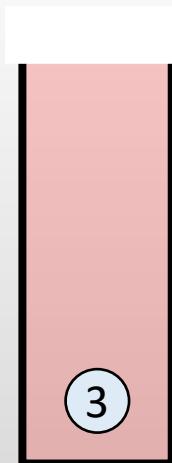
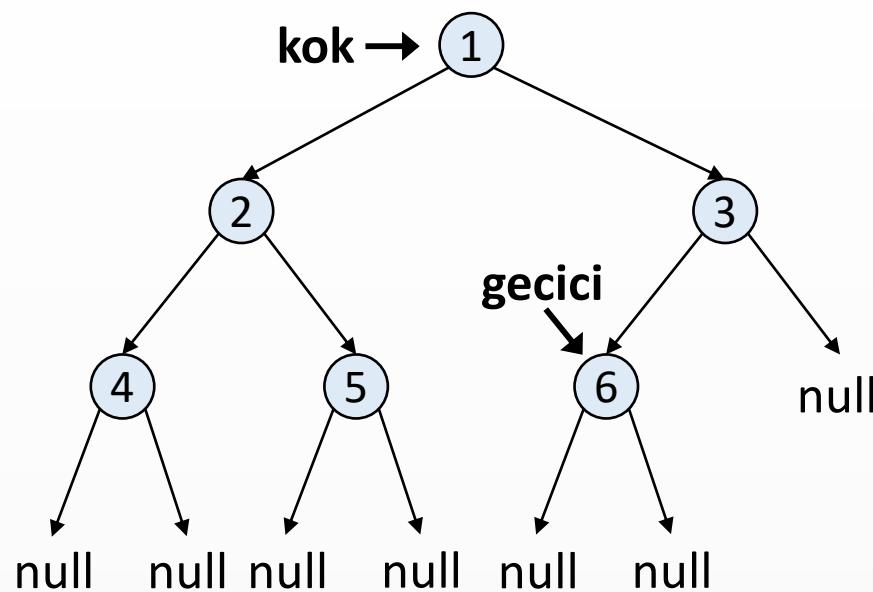
Cıktı: 4 2 5 1

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



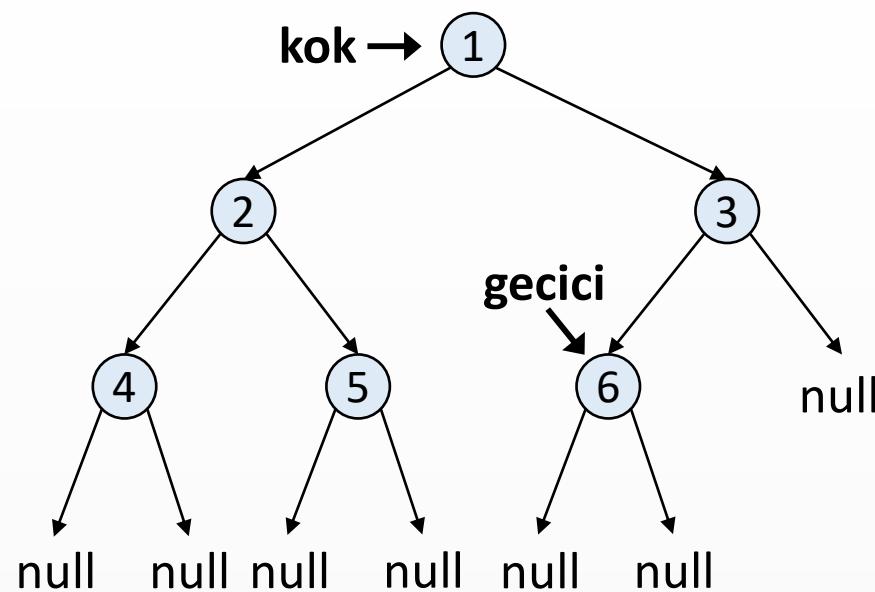
Cıktı: 4 2 5 1

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



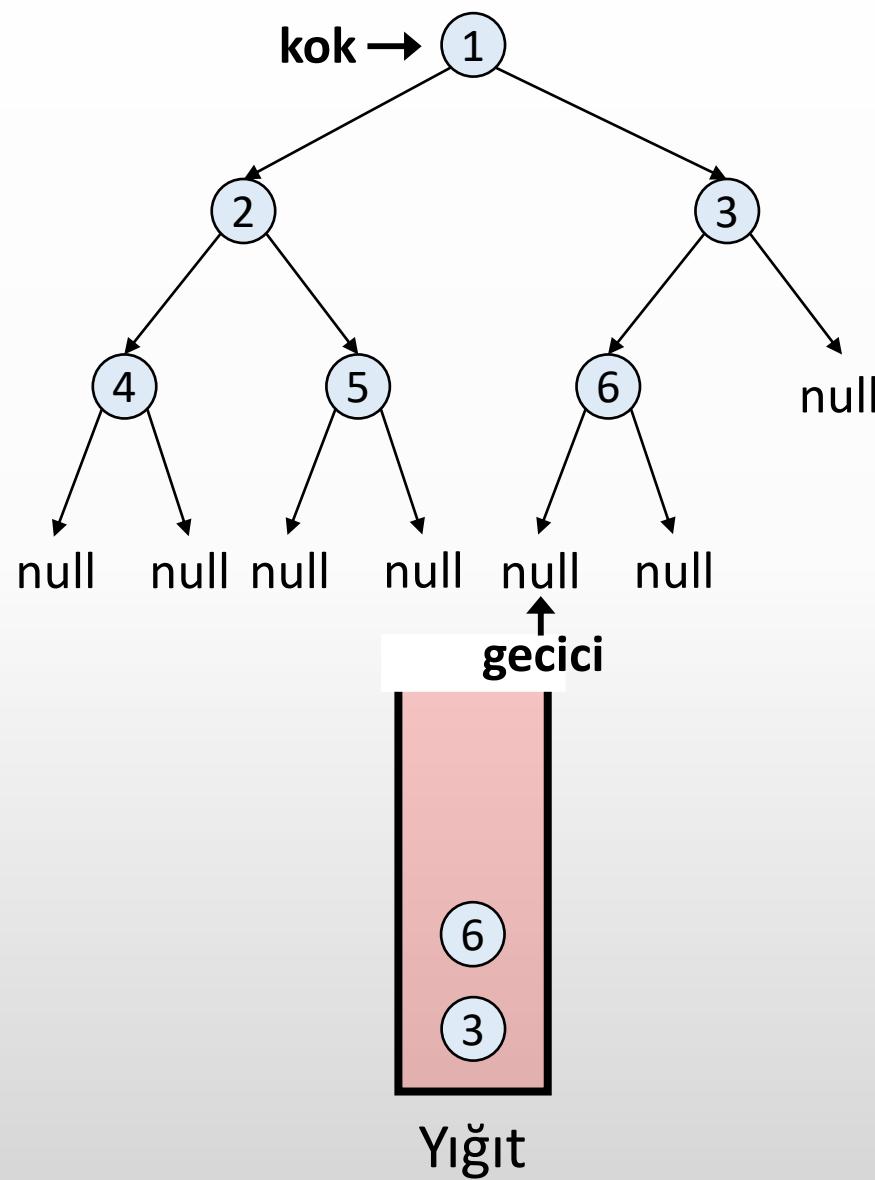
Cıktı: 4 2 5 1

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



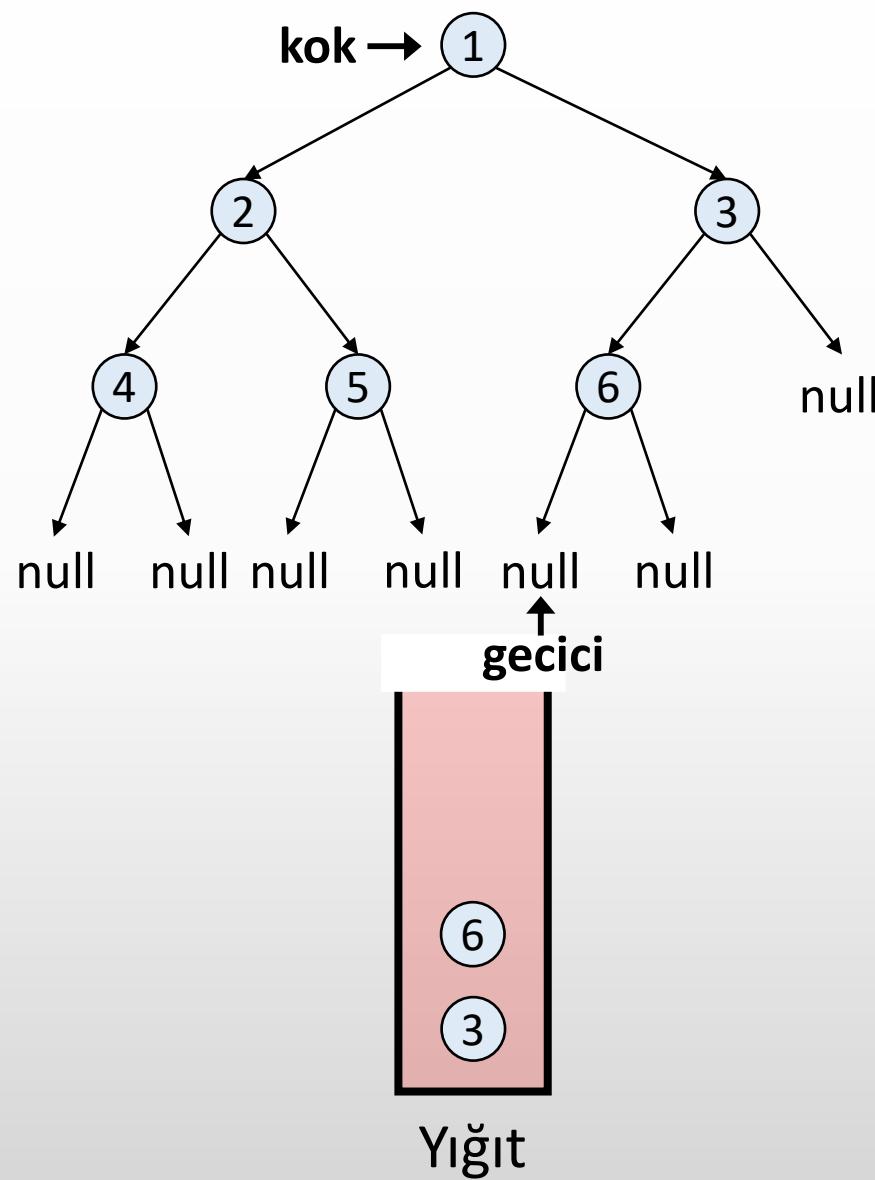
Çıktı: 4 2 5 1

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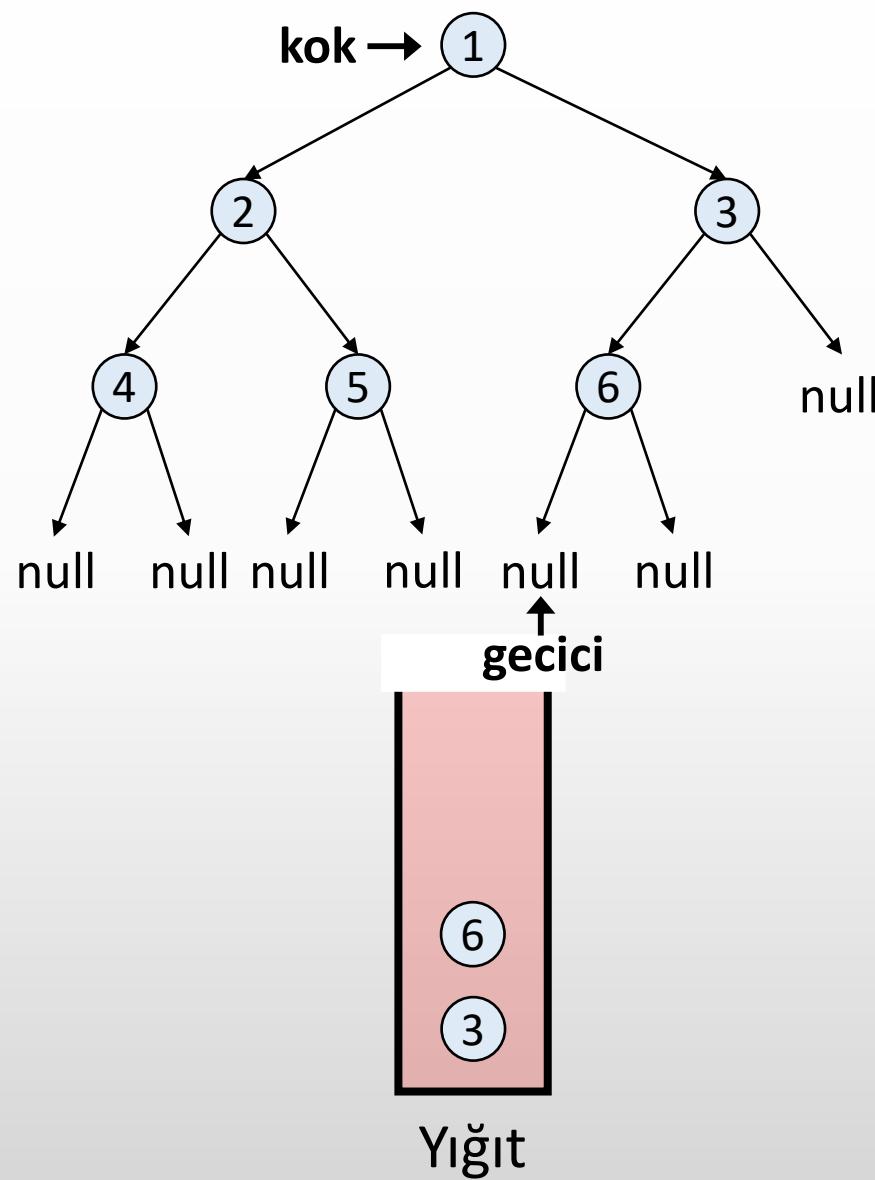
Çıktı: 4 2 5 1

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



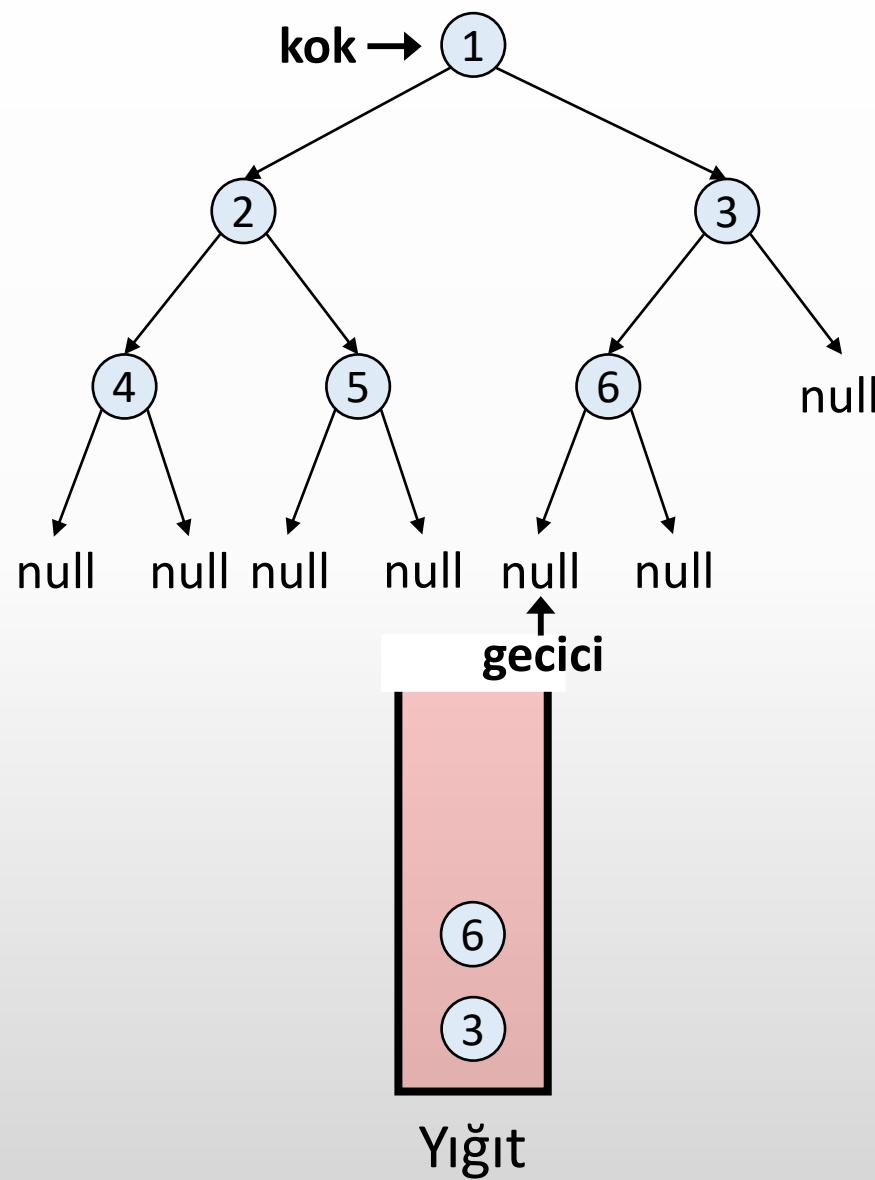
Çıktı: 4 2 5 1

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



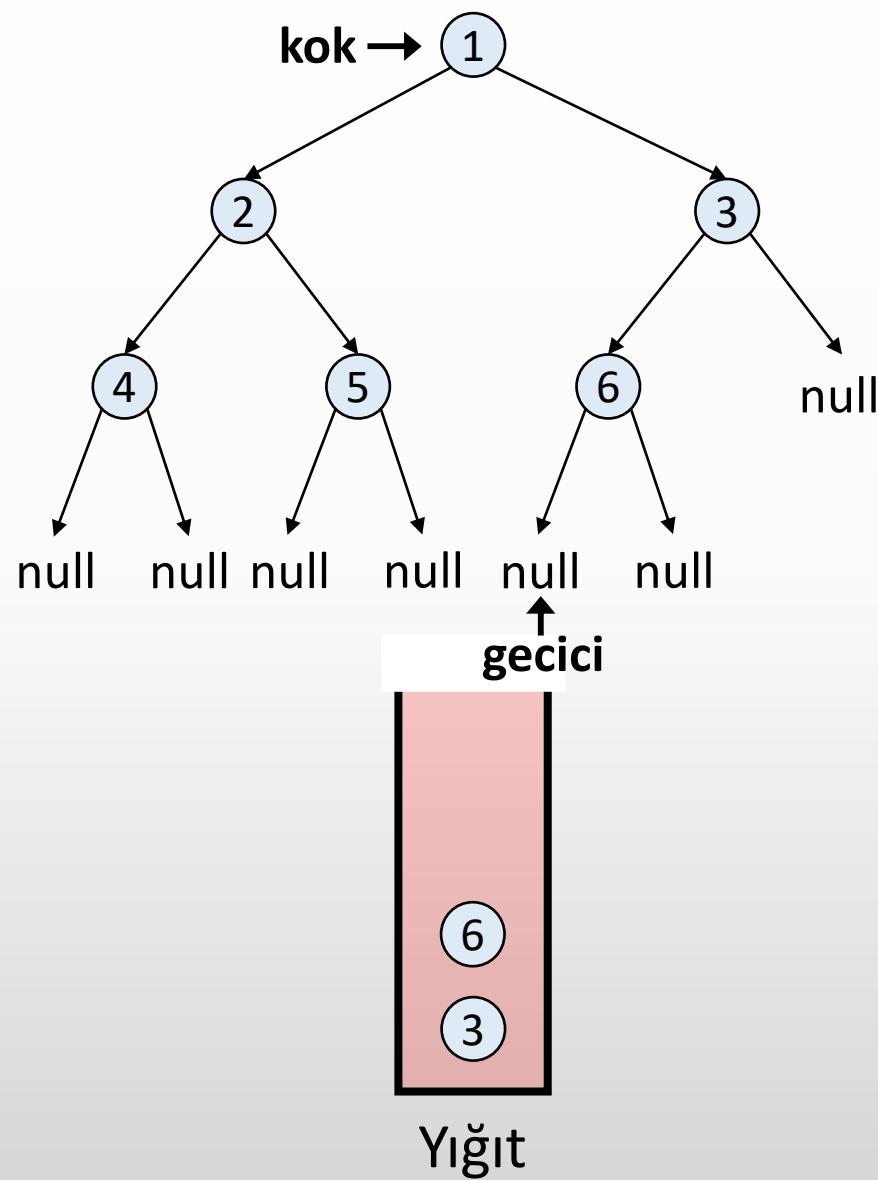
Çıktı: 4 2 5 1

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



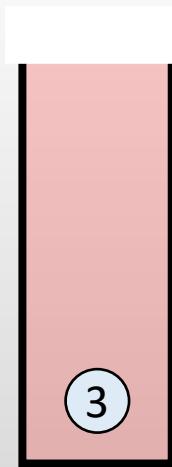
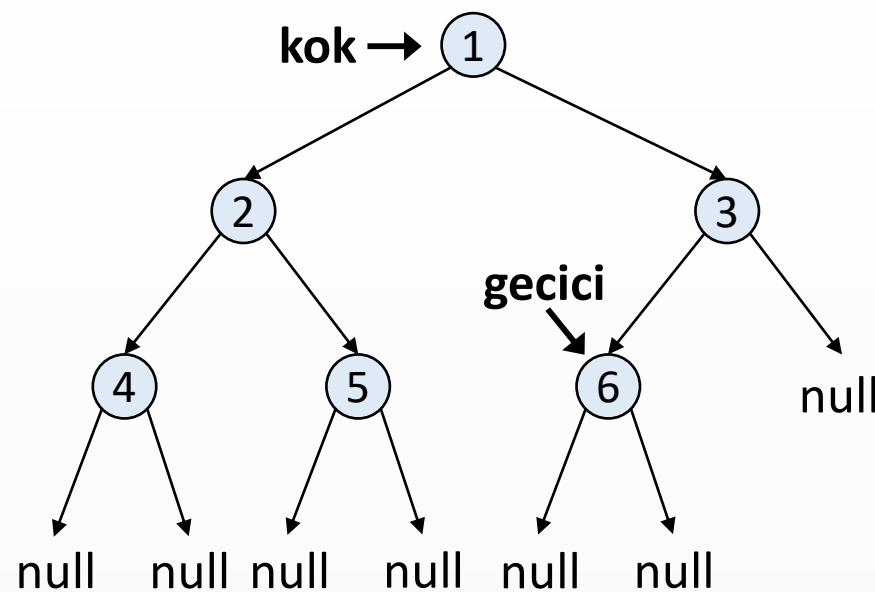
Çıktı: 4 2 5 1

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



Çıktı: 4 2 5 1

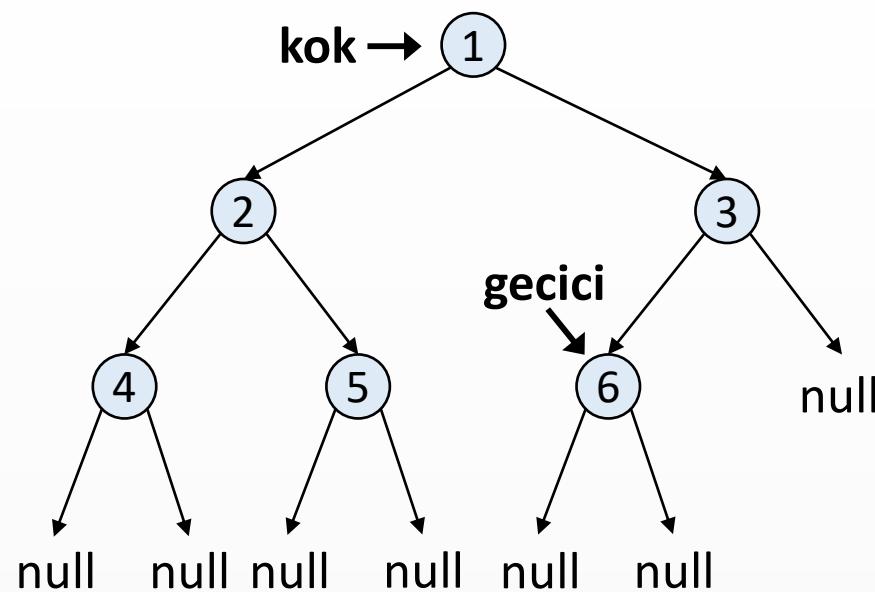
```
if(kok == null) {  
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        gecici = gecici.sag;  
    }  
}
```



Yığıt

Cıktı: 4 2 5 1

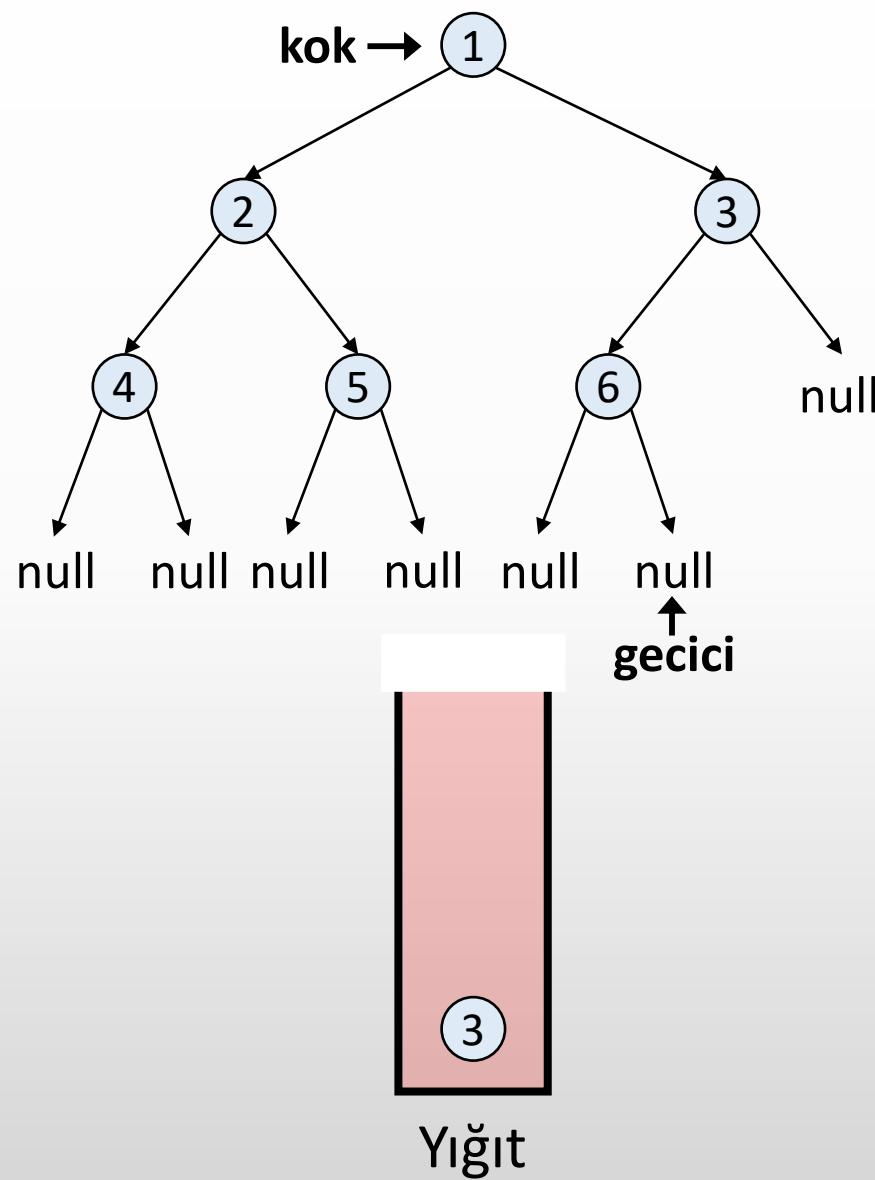
```
if(kok == null) {  
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AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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        yigit.push(gecici);  
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    }  
    else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



Yığıt

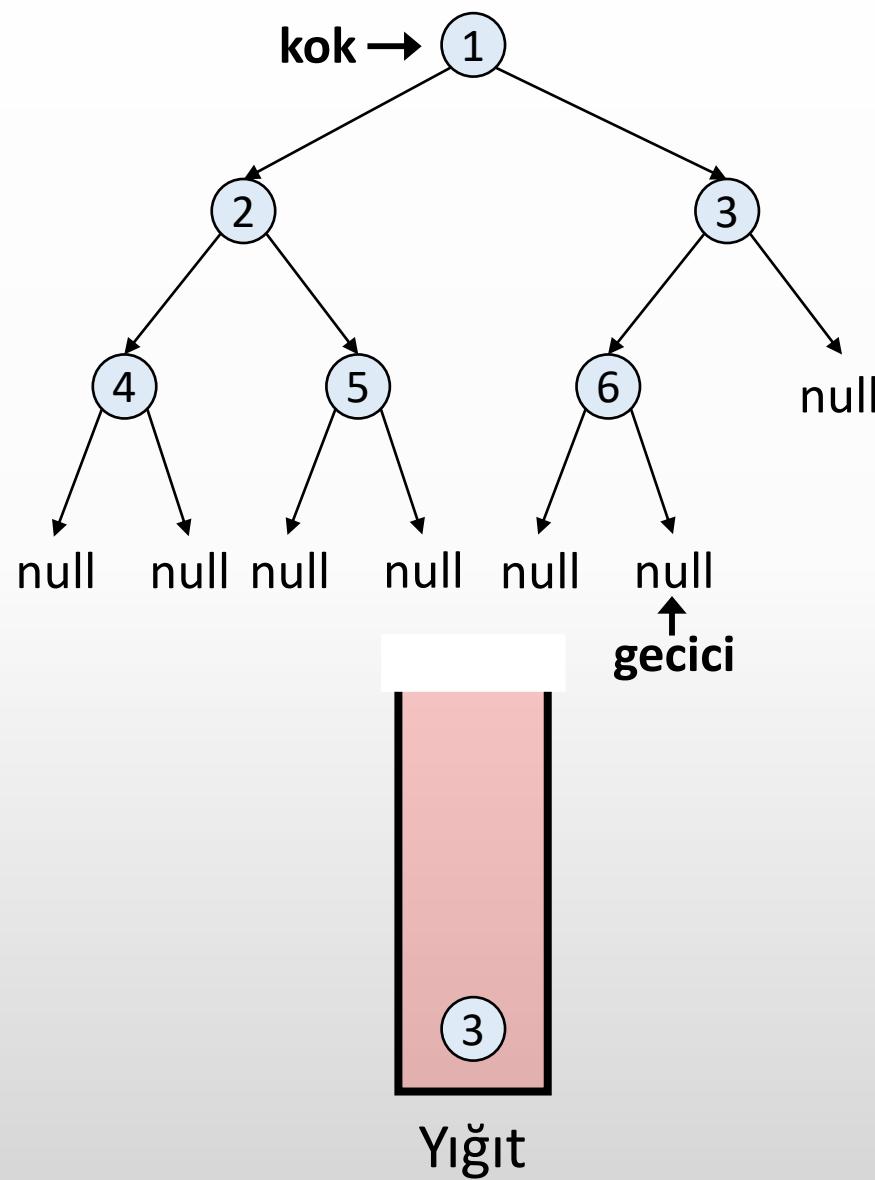
Cıktı: 4 2 5 1 6

```
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;  
    }  
}
```



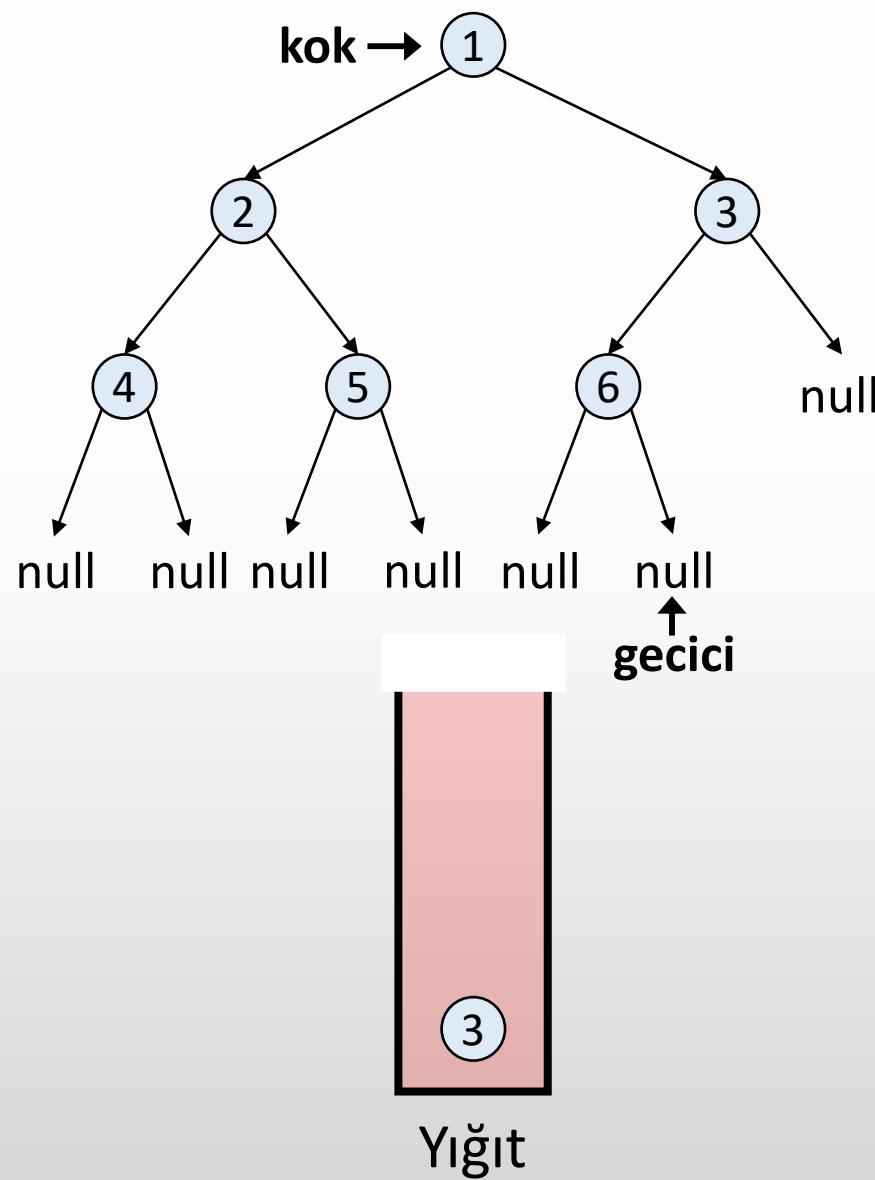
Çıktı: 4 2 5 1 6

```
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;  
    }  
}
```



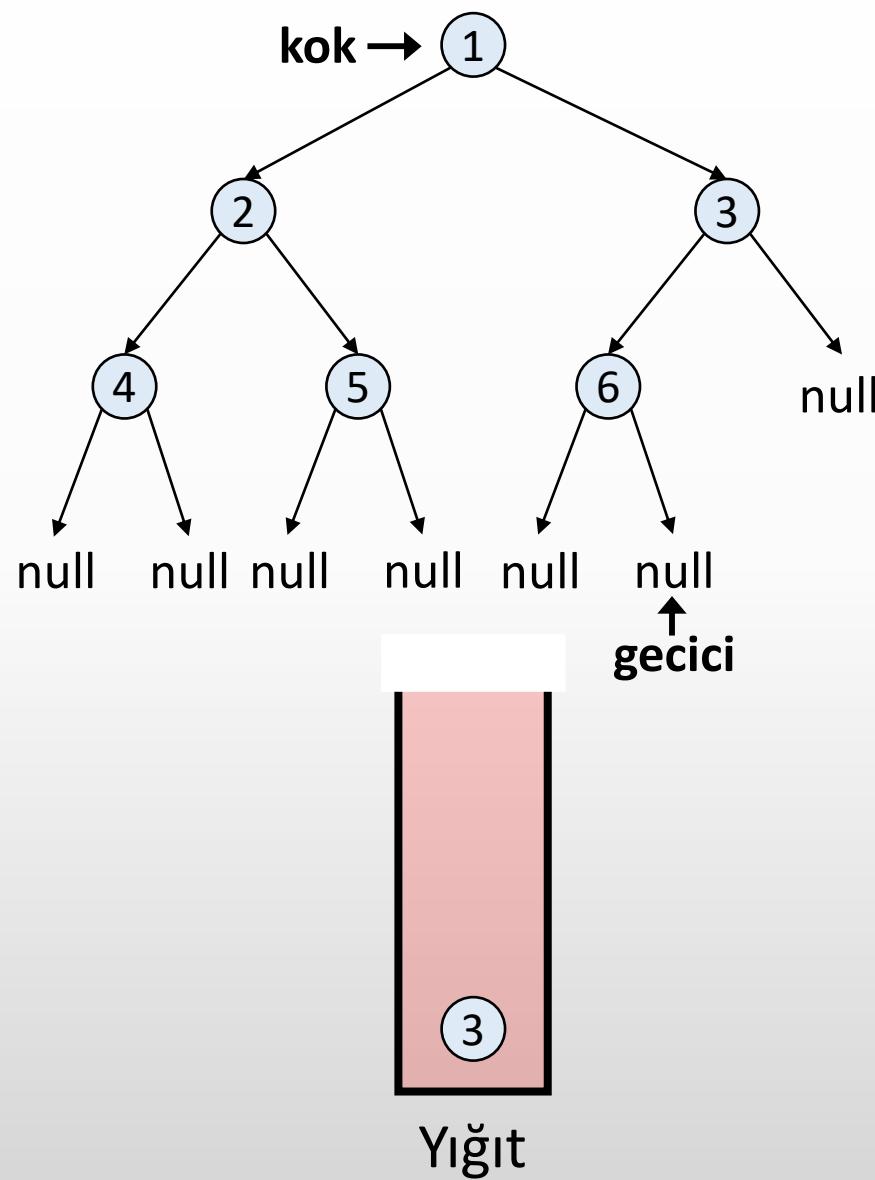
Çıktı: 4 2 5 1 6

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



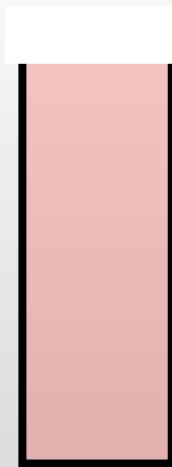
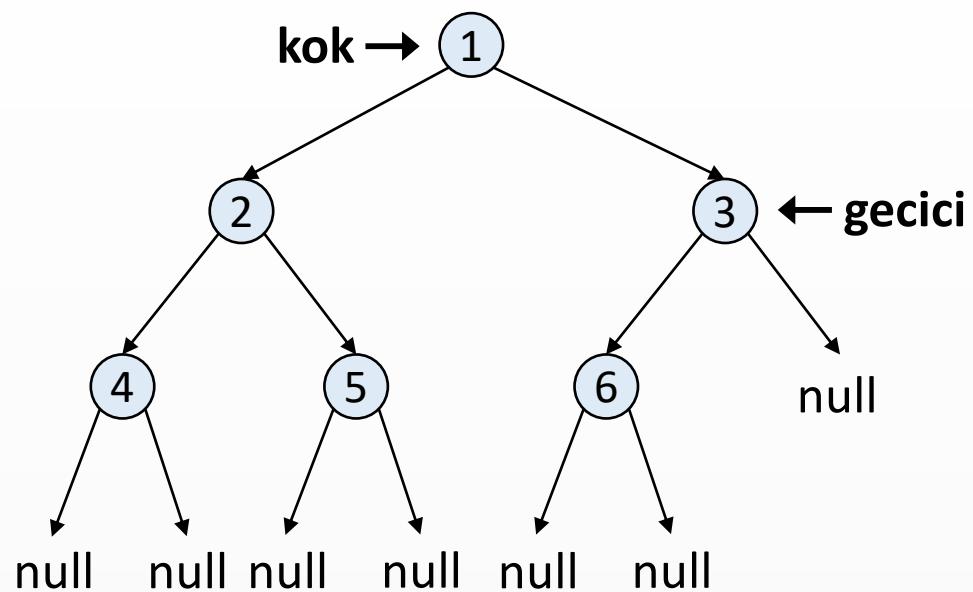
Çıktı: 4 2 5 1 6

```
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 2 5 1 6

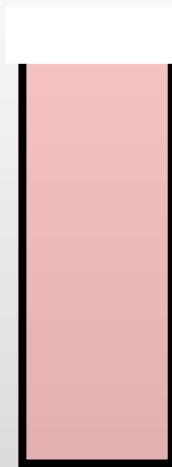
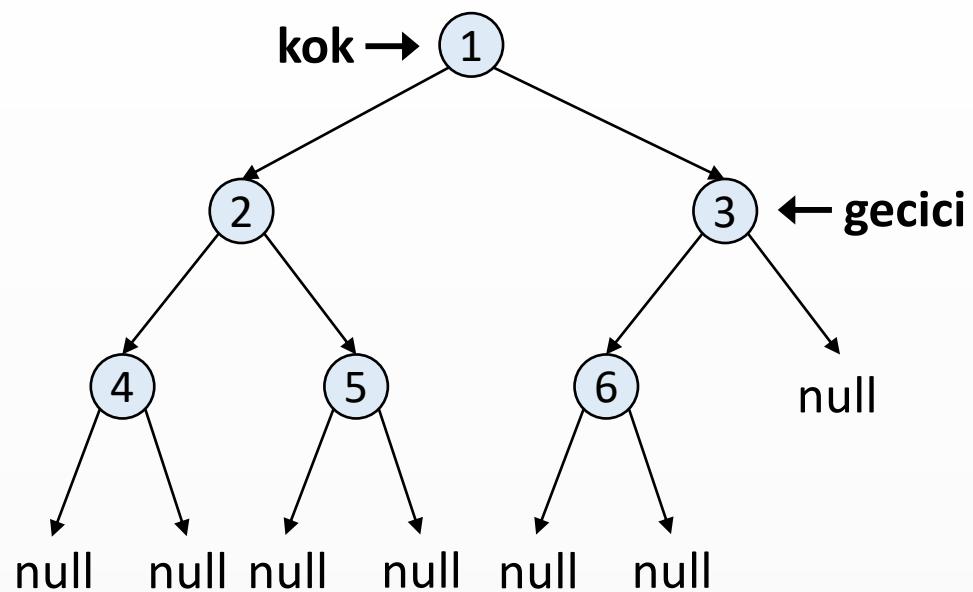
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    }  
}
```



Yığıt

Çıktı: 4 2 5 1 6

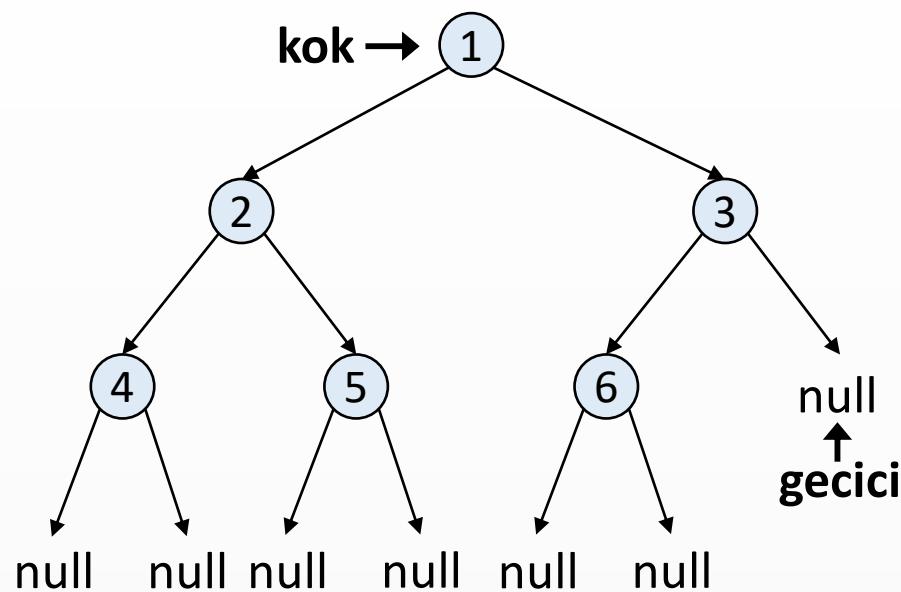
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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        System.out.print(gecici.veri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



Yığıt

Cıktı: 4 2 5 1 6 3

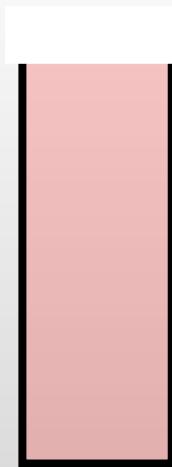
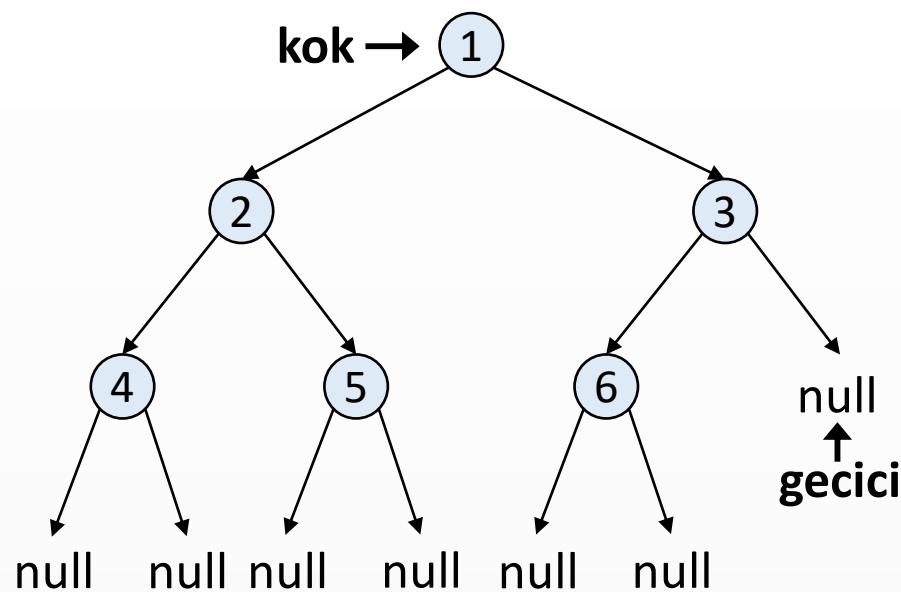
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı: 4 2 5 1 6 3

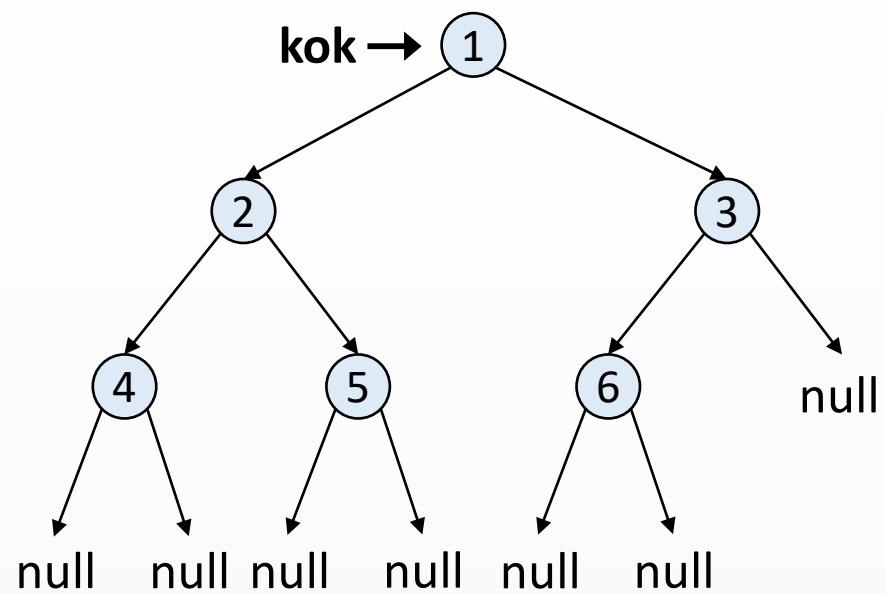
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
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}
```



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

```

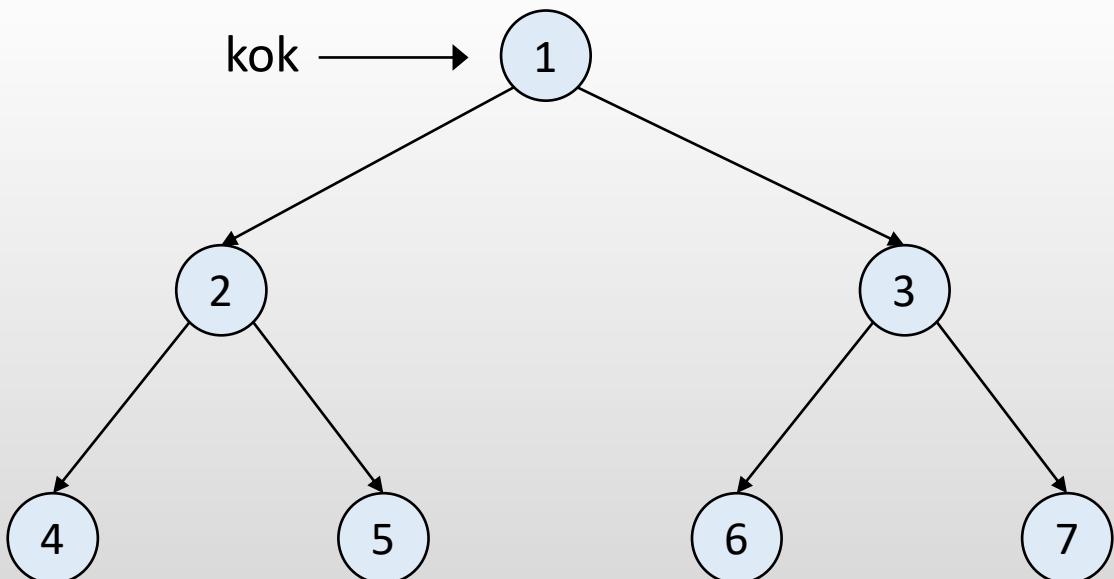
# Kök Sonda (Postorder) Dolaşımı





# Kök Sonda (Postorder) Dolaşımı

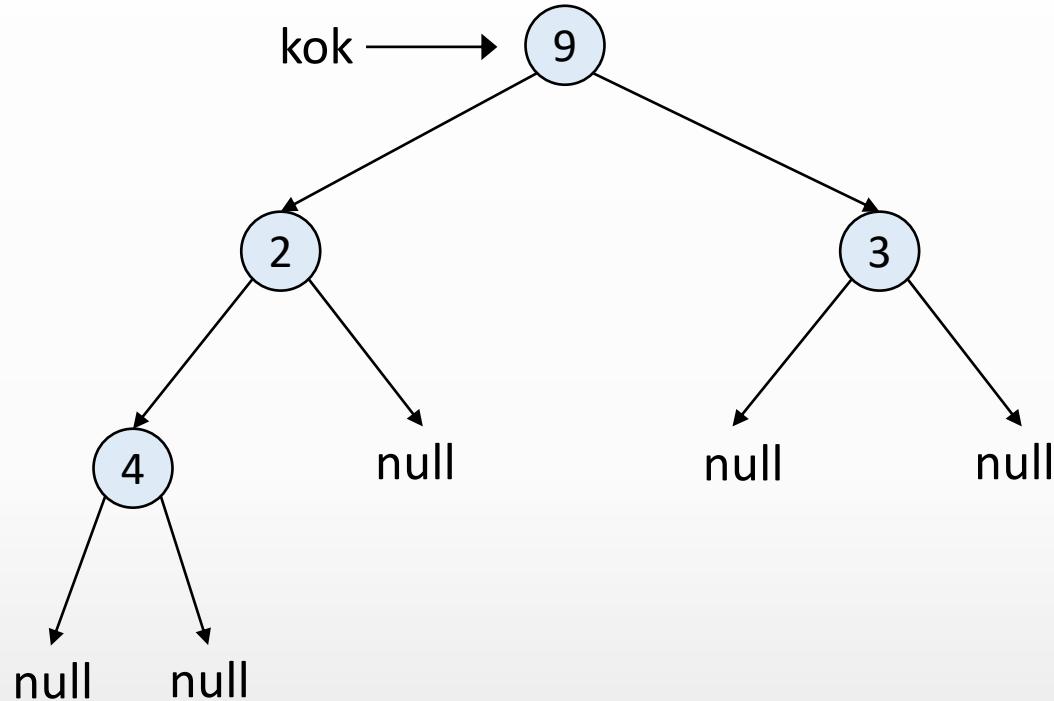
- Kök sonda olacak şekilde sol alt ağacı dolaş.
- Kök sonda olacak şekilde sağ alt ağacı dolaş.
- Kök düğümü ziyaret et.



Kök sonda dolaşımı: 4 5 2 6 7 3 1



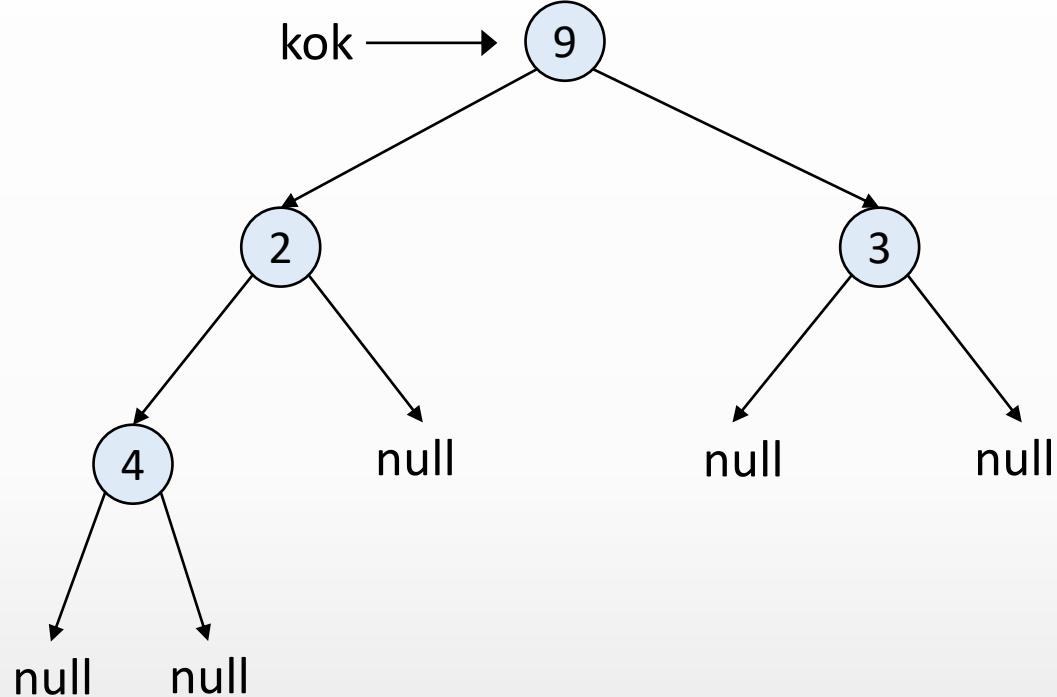
## Çağırma Yığıtı (Call Stack)



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

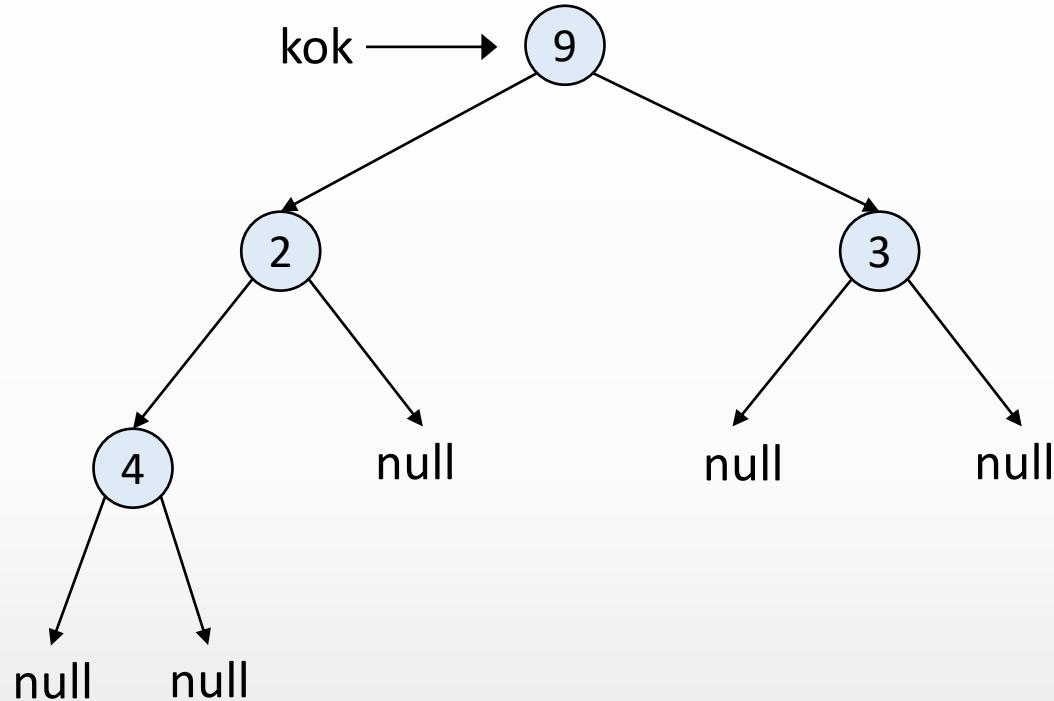
Çıktı:

→

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



## Çağırma Yığıtı (Call Stack)



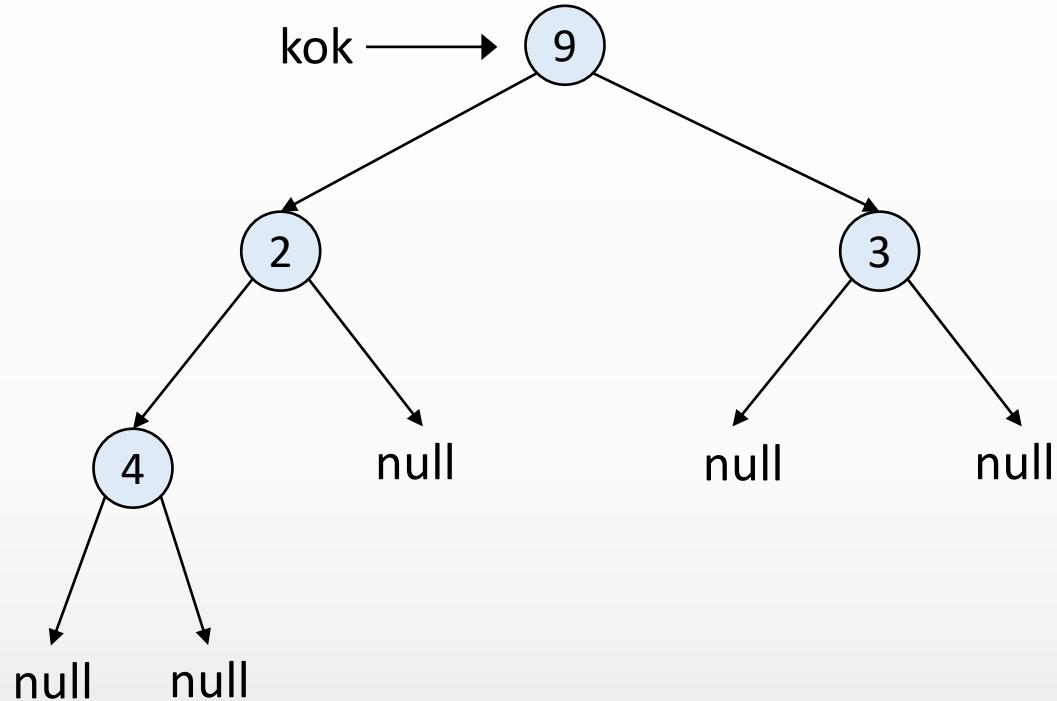
Metot Çağrımı	Satır Numarası	Kök
kokSonda()		9

Çıktı:

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



## Çağırma Yığıtı (Call Stack)



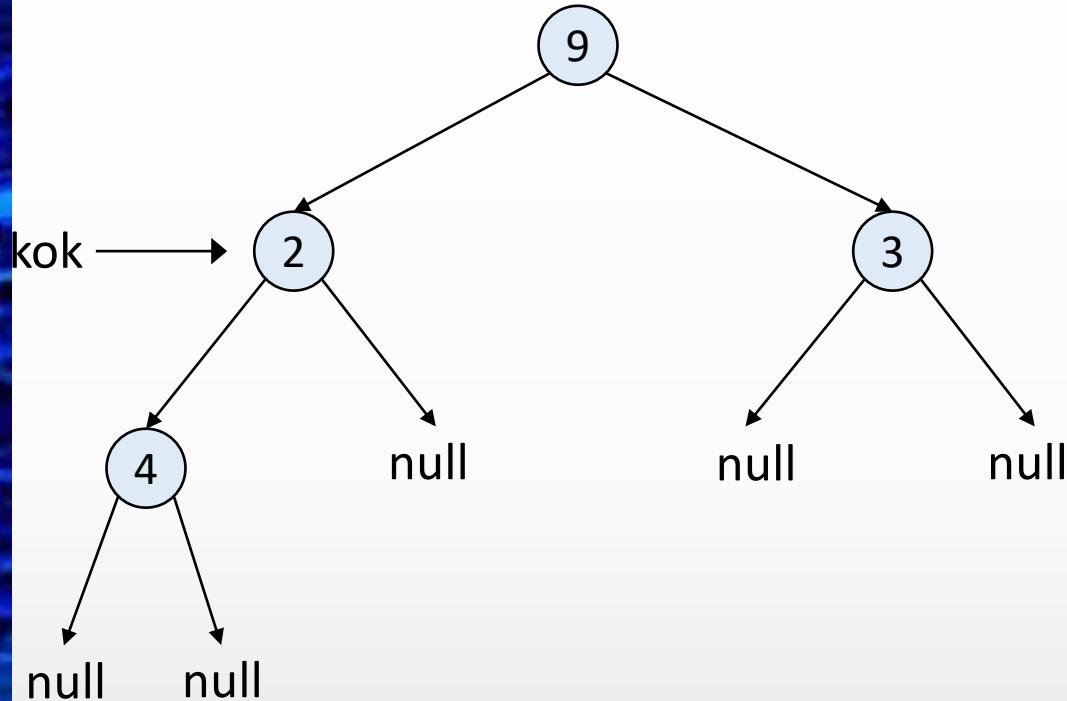
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9

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)



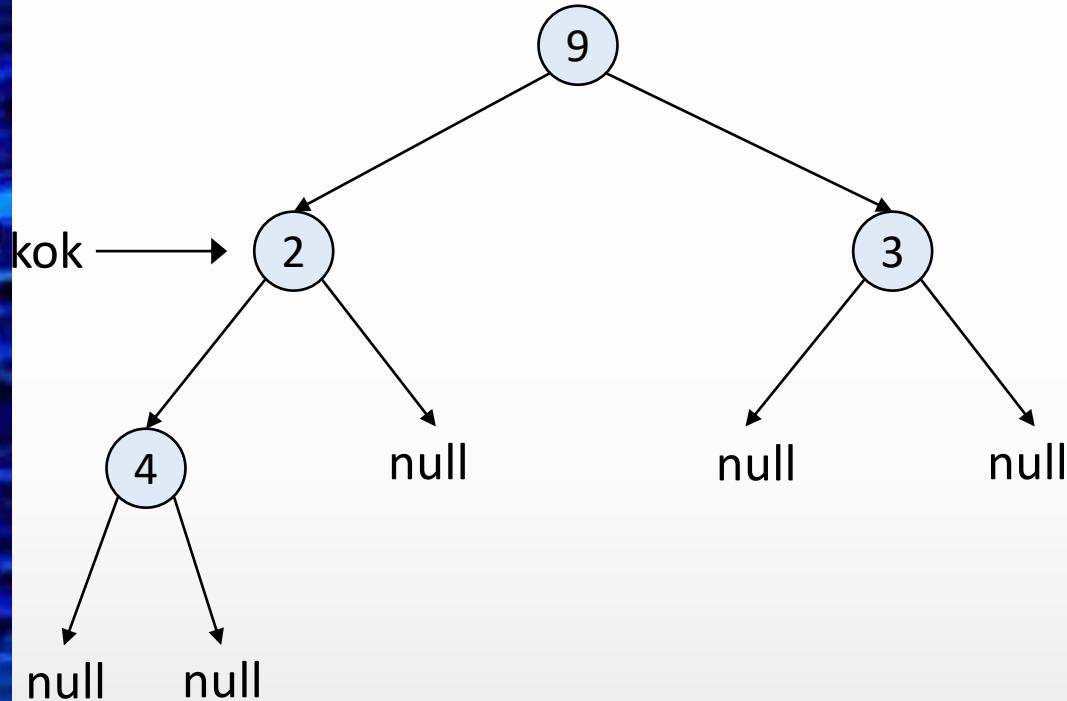
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()		2

Çıktı:

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



## Çağırma Yığıtı (Call Stack)



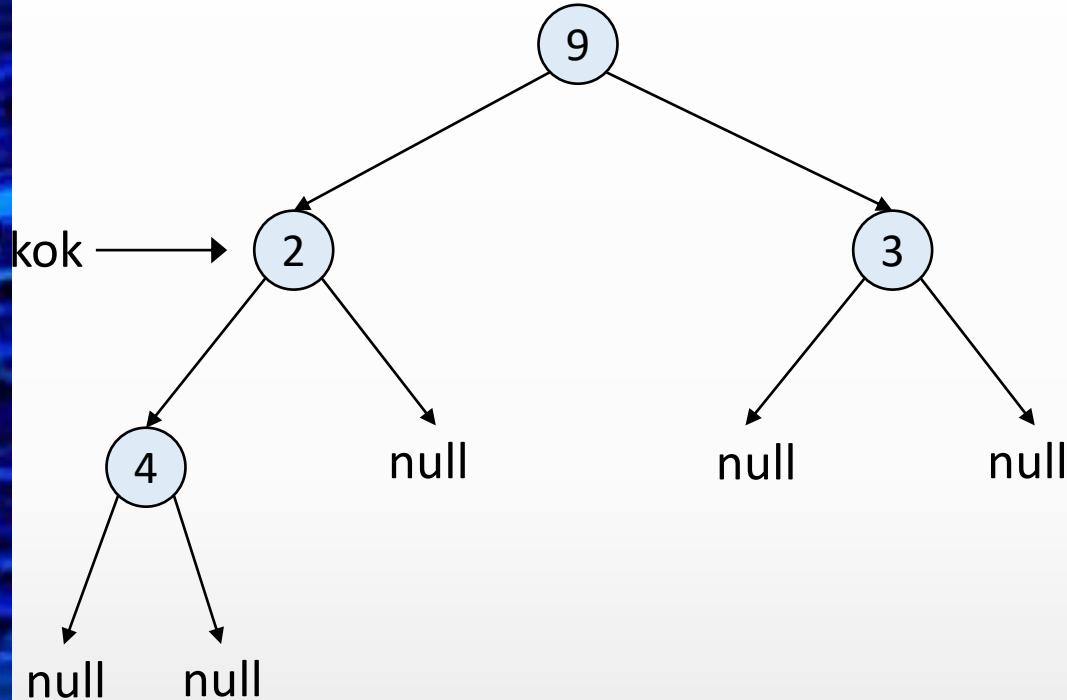
Çıktı:

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

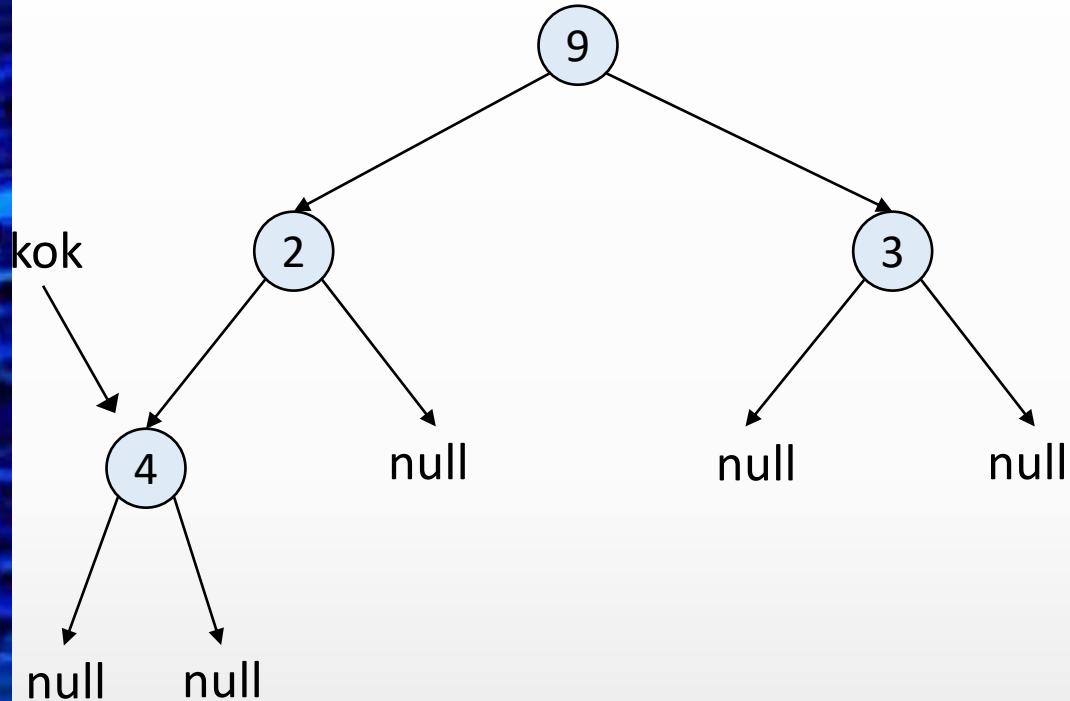
Çıktı:



```
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## Çağırma Yığıtı (Call Stack)



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

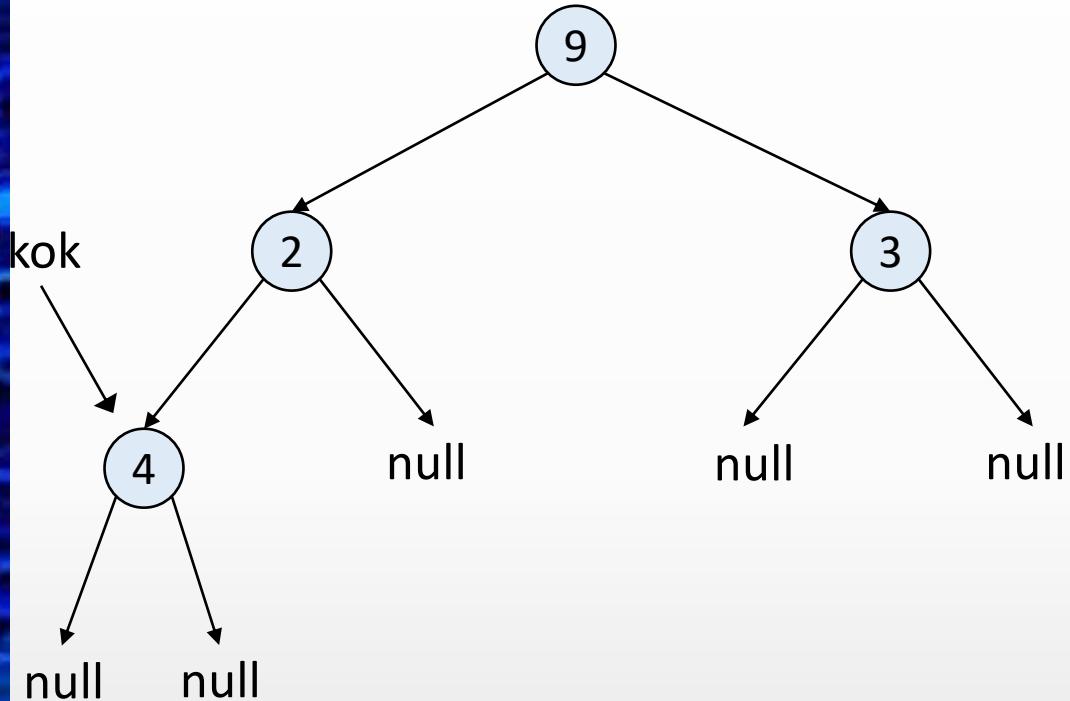


Çıktı:

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



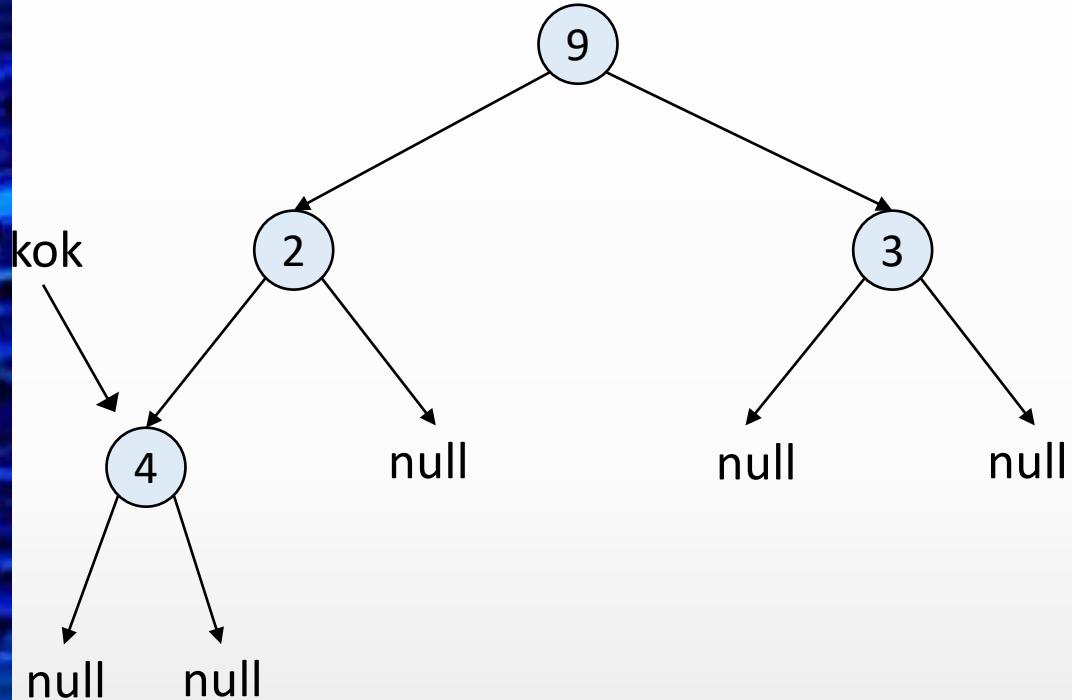
Çıktı:

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1 public void kokSonda(AgacDugumu kok) {  
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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
kokSonda()	5	2
kokSonda()	5	4

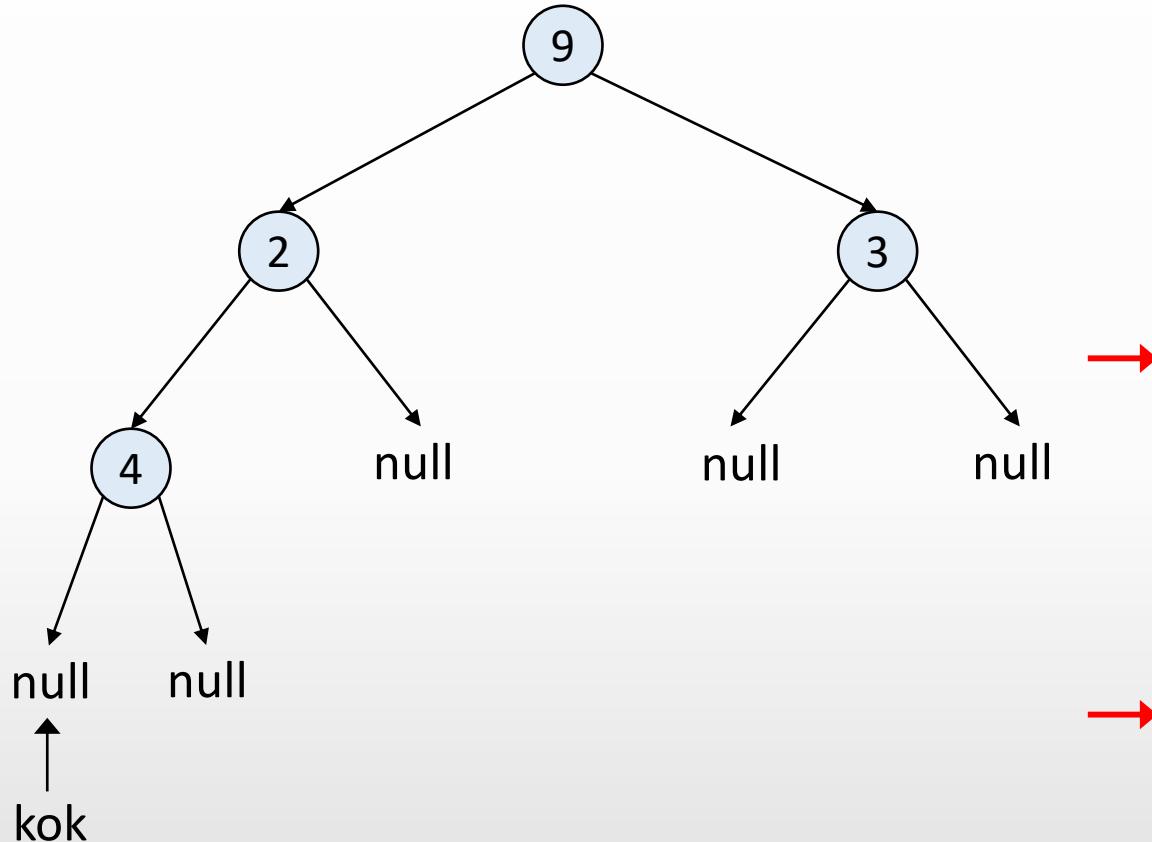
Çıktı:



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## Çağırma Yığıtı (Call Stack)



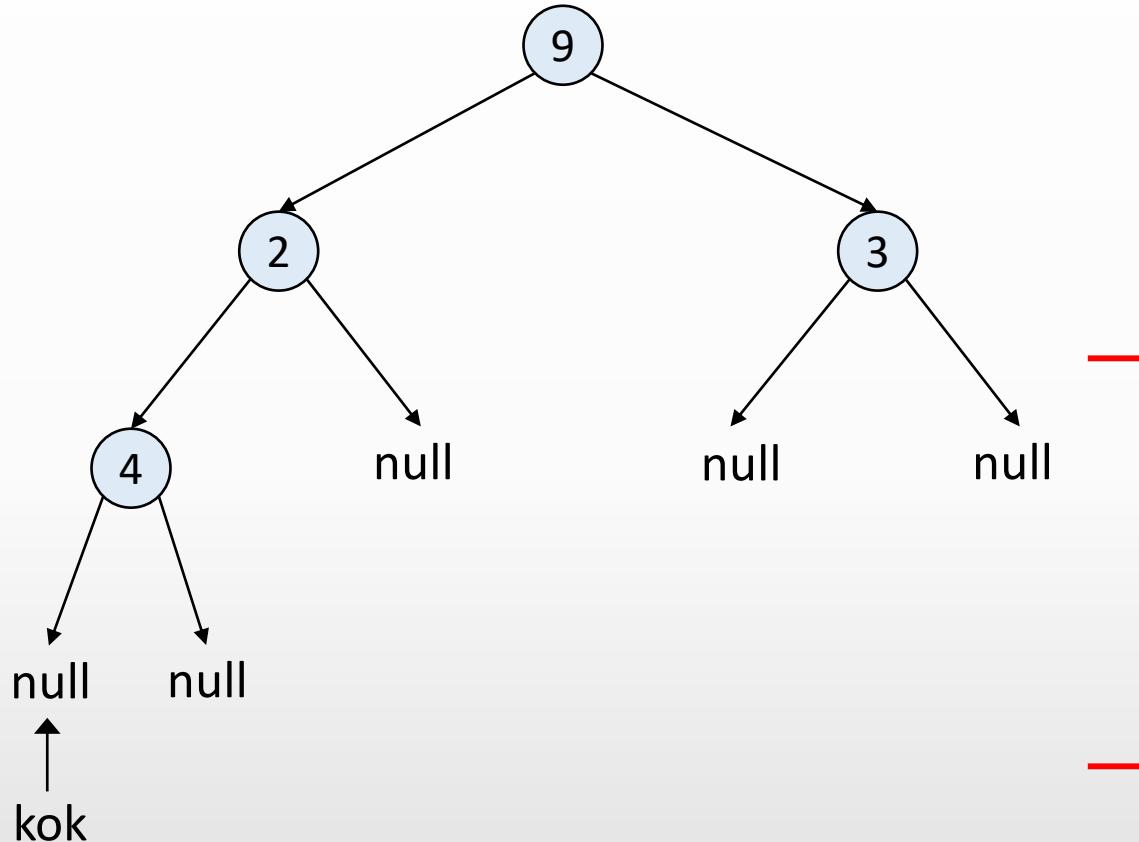
Çıktı:

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

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## Çağırma Yığıtı (Call Stack)

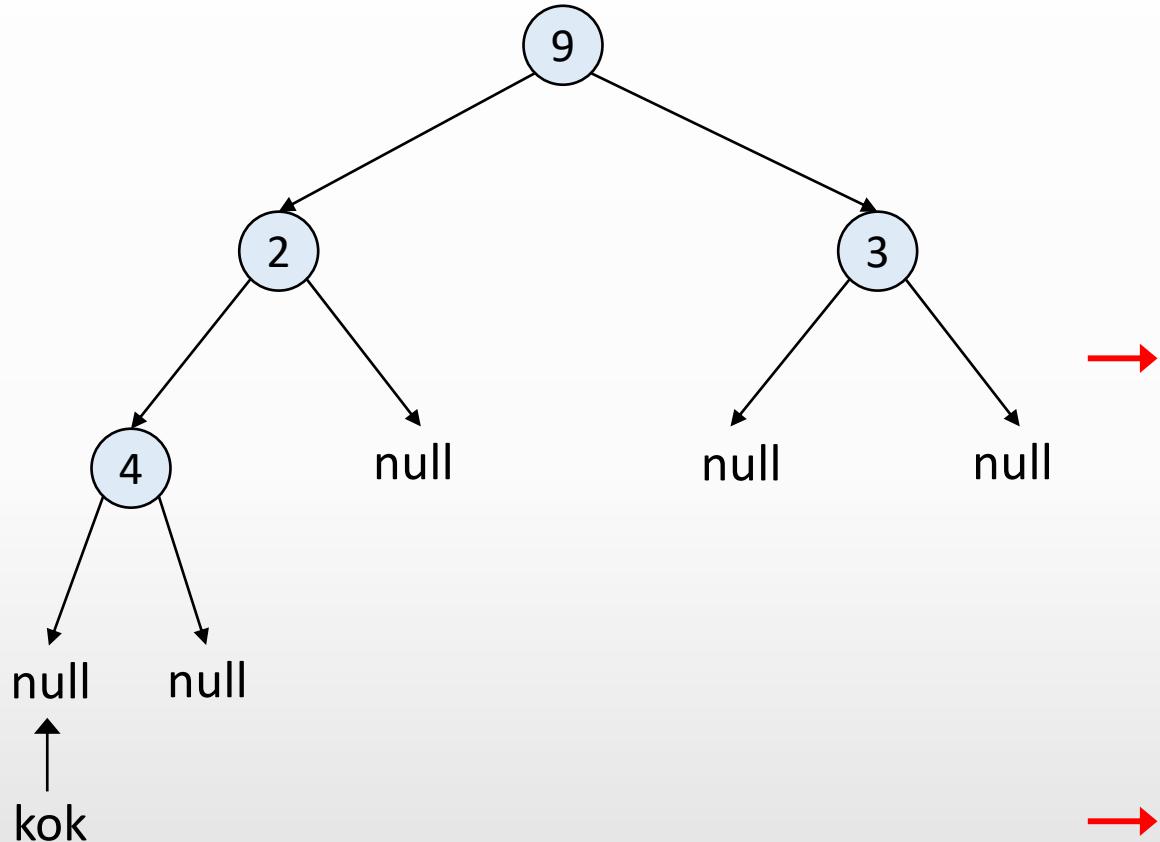


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
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## Çağırma Yığıtı (Call Stack)

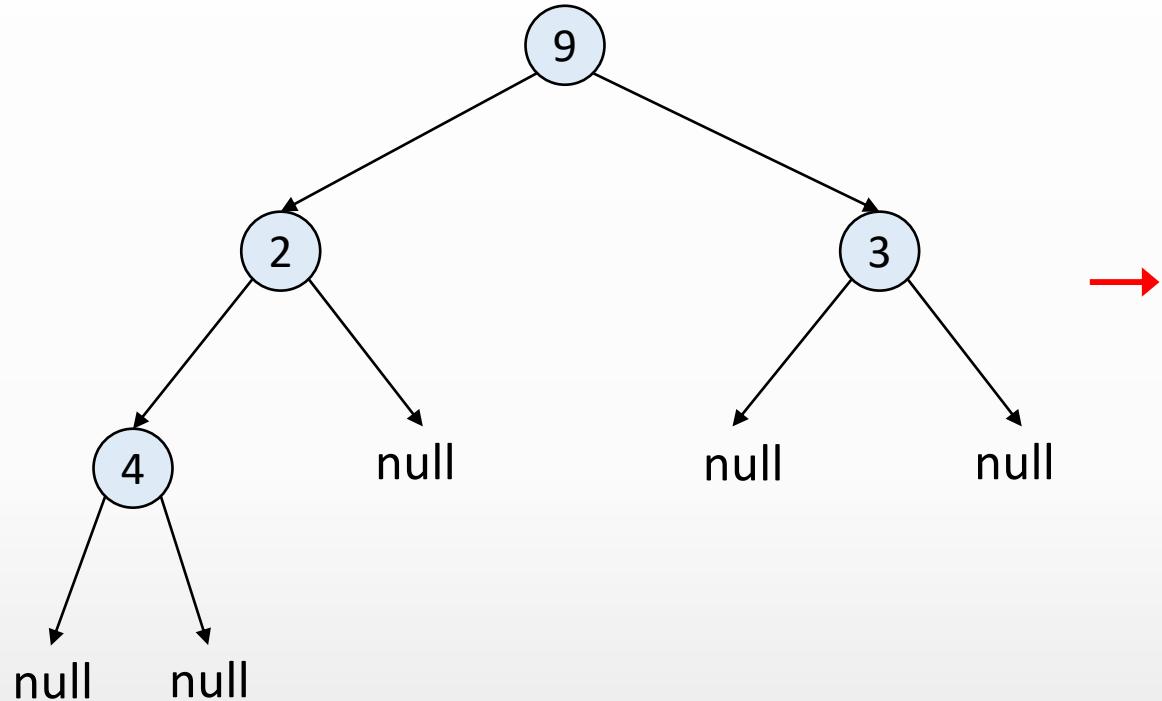


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4
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## Çağırma Yığıtı (Call Stack)



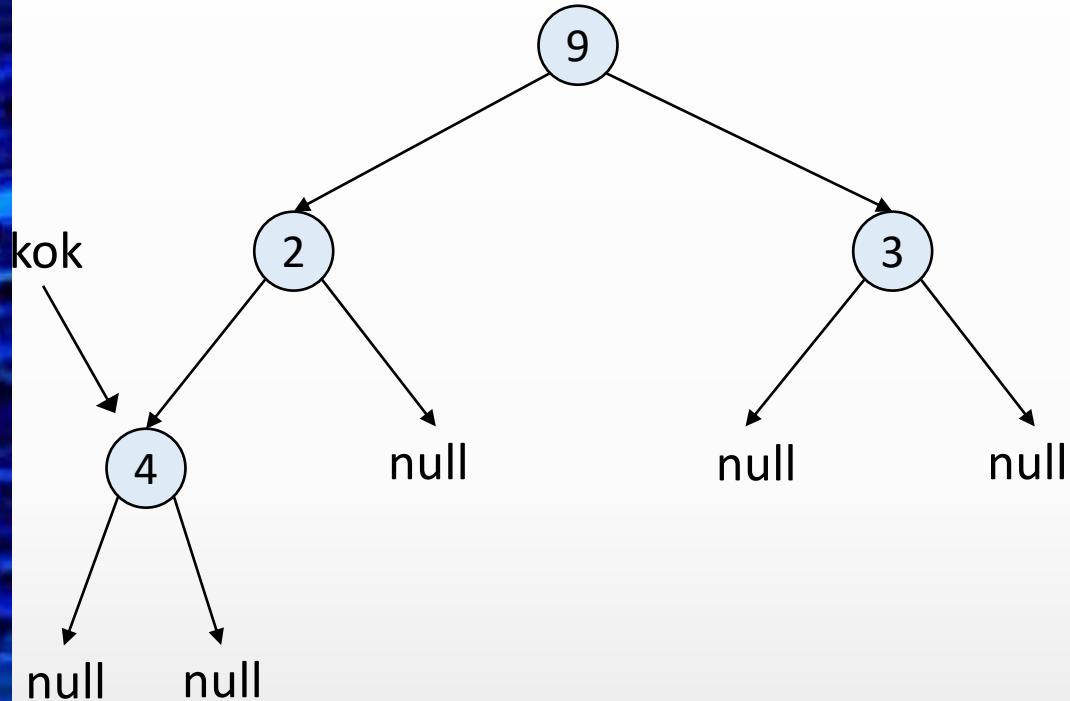
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
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Çıktı:

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```



## Çağırma Yığıtı (Call Stack)



Çıktı:



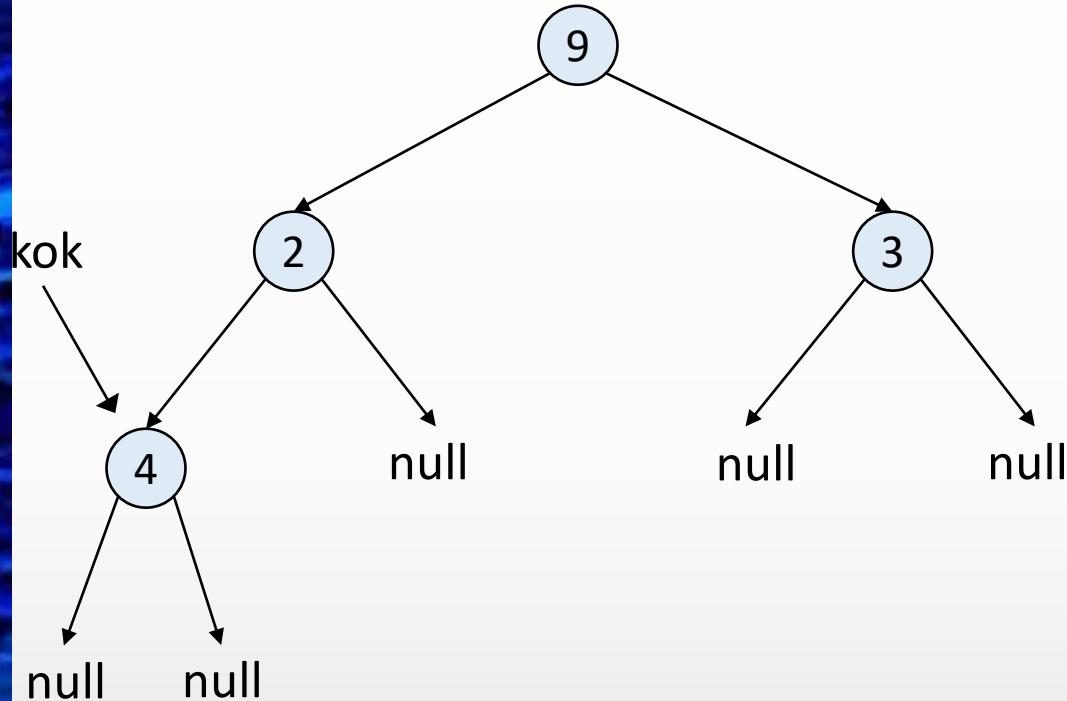
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
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## Çağırma Yığıtı (Call Stack)



Çıktı:



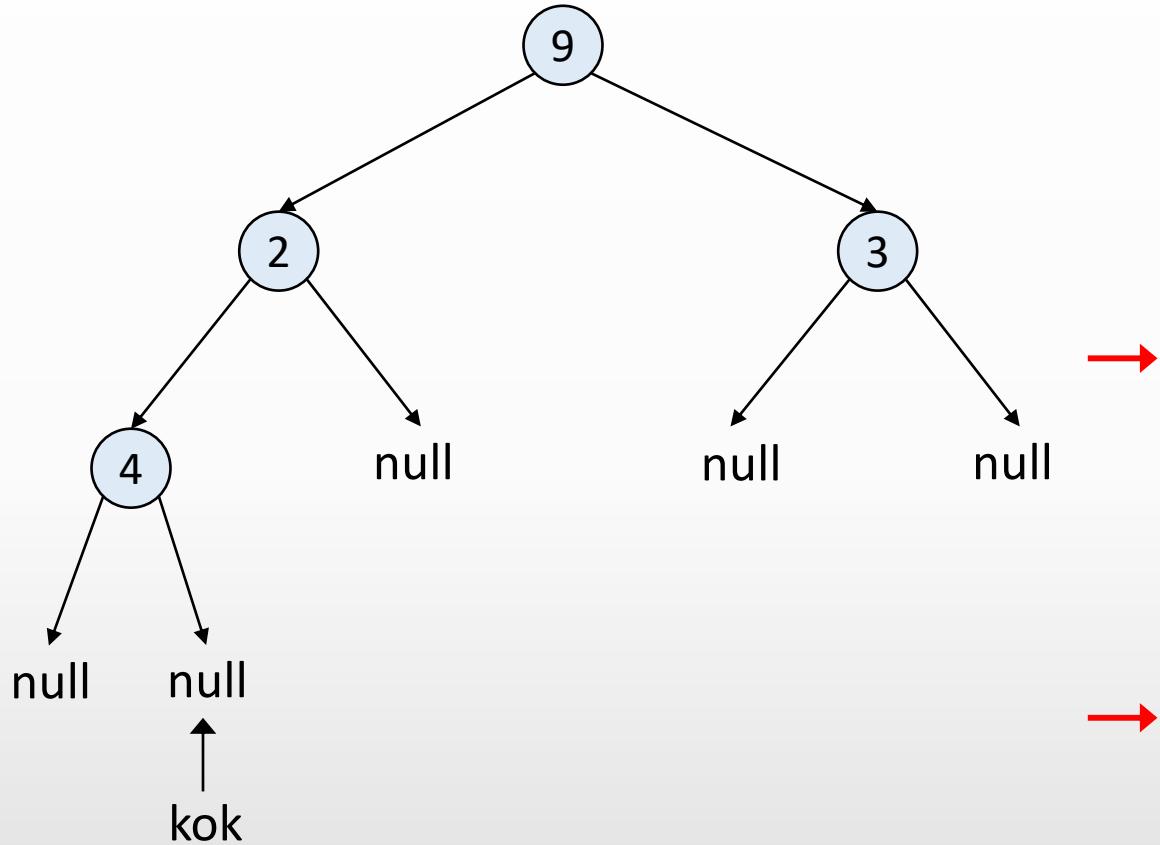
Metot Çağrımı	Satır Numarası	Kök
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## Çağırma Yığıtı (Call Stack)



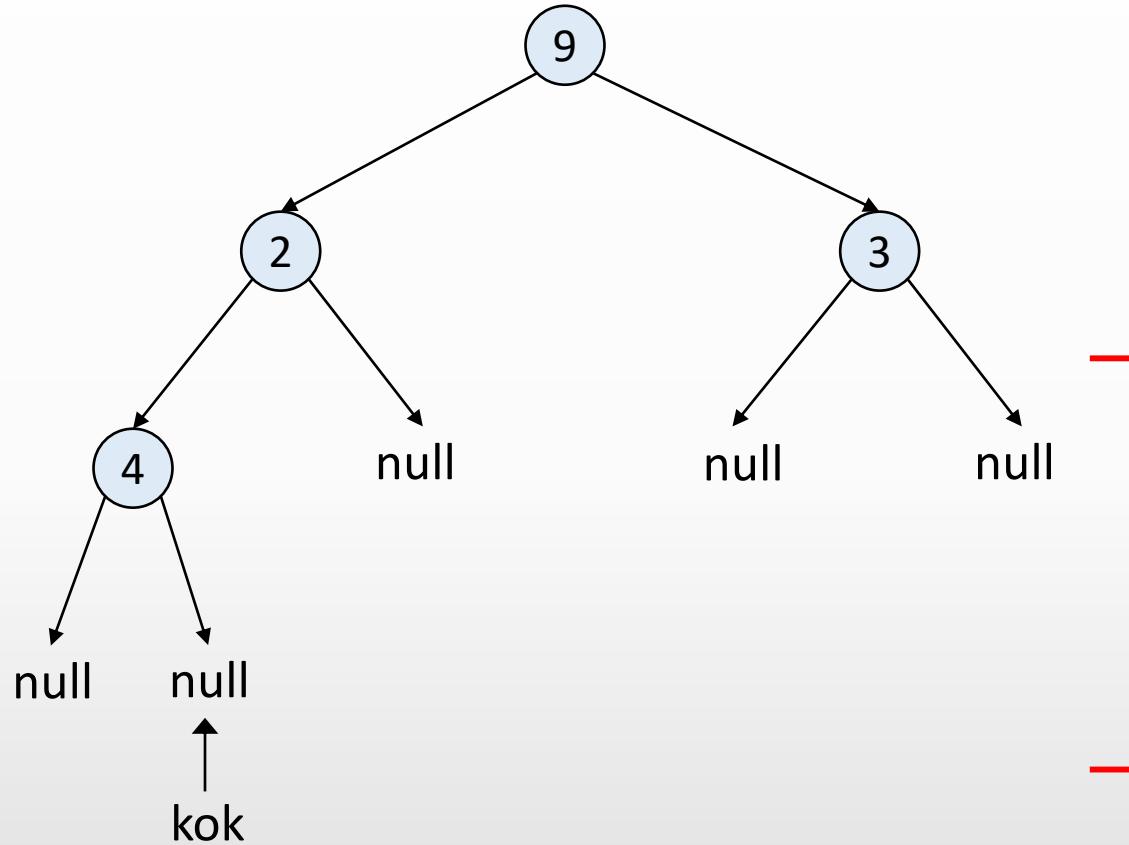
Çıktı:

```
→ 1 public void kokSonda(AgacDugumu kok) {  
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Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	4
kokSonda()		null



## Çağırma Yığıtı (Call Stack)



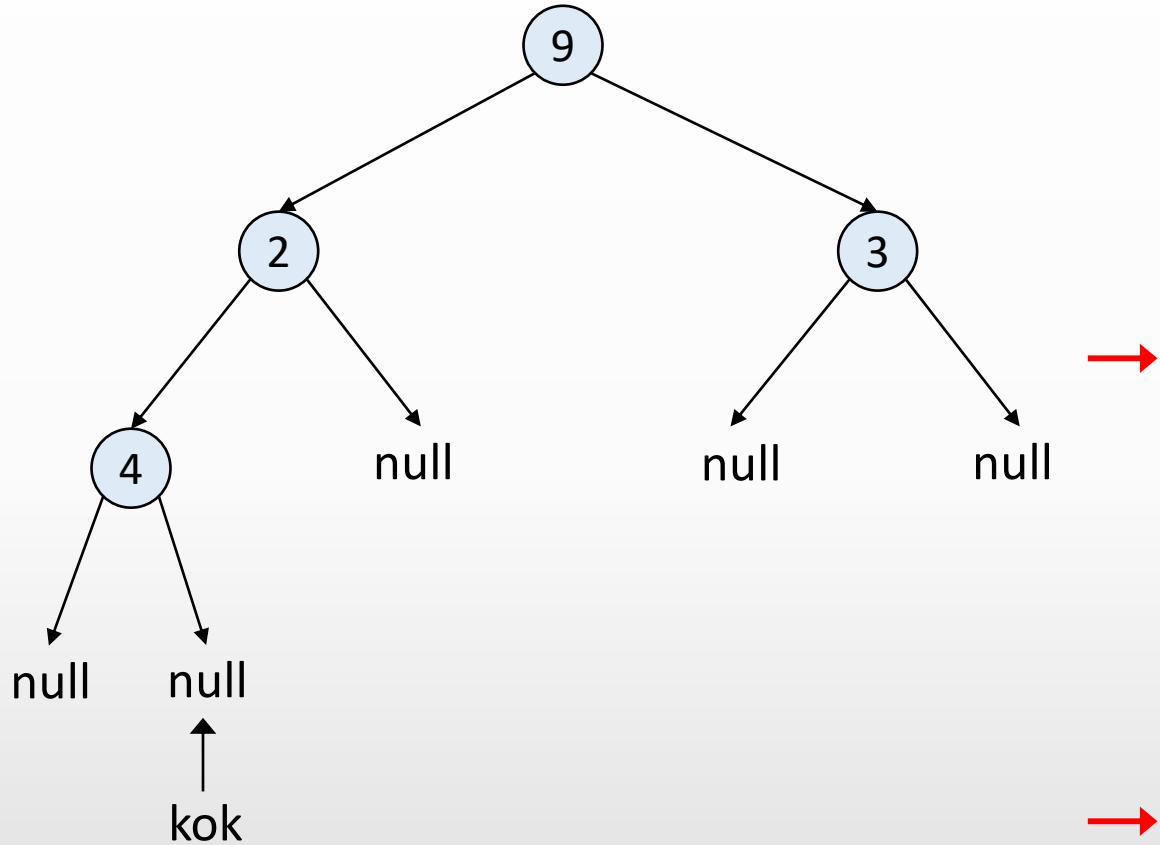
Çıktı:

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	4
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## Çağırma Yığıtı (Call Stack)



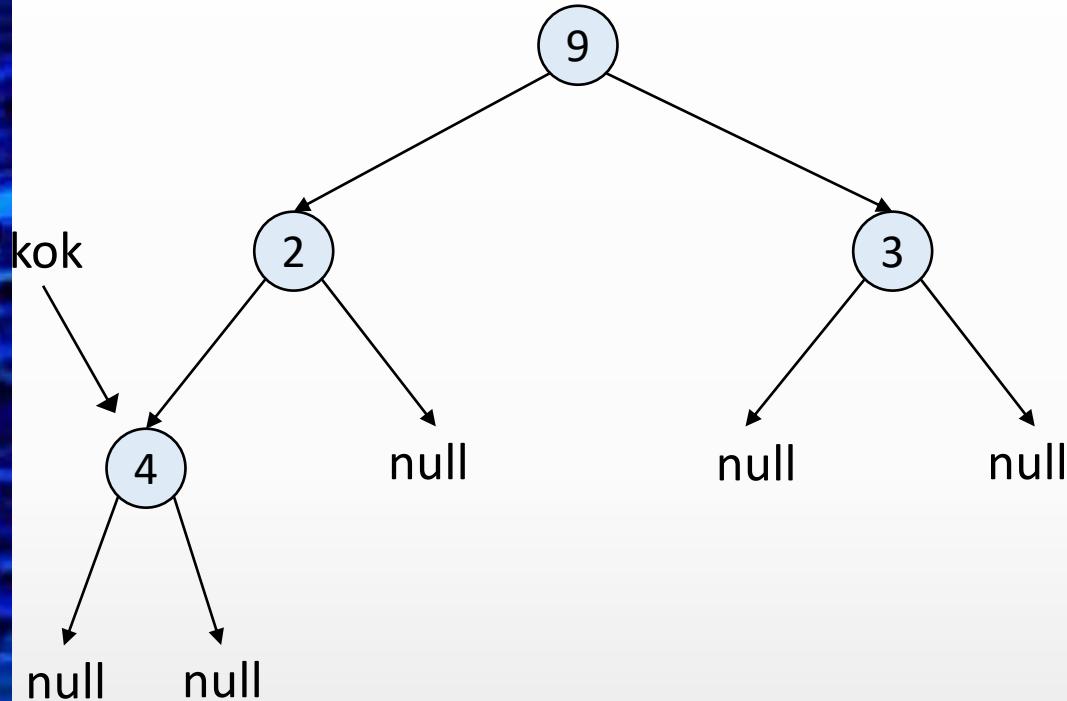
Çıktı:

Metot Çağrımı	Satır Numarası	Kök
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8 }
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## Çağırma Yığıtı (Call Stack)



Çıktı:



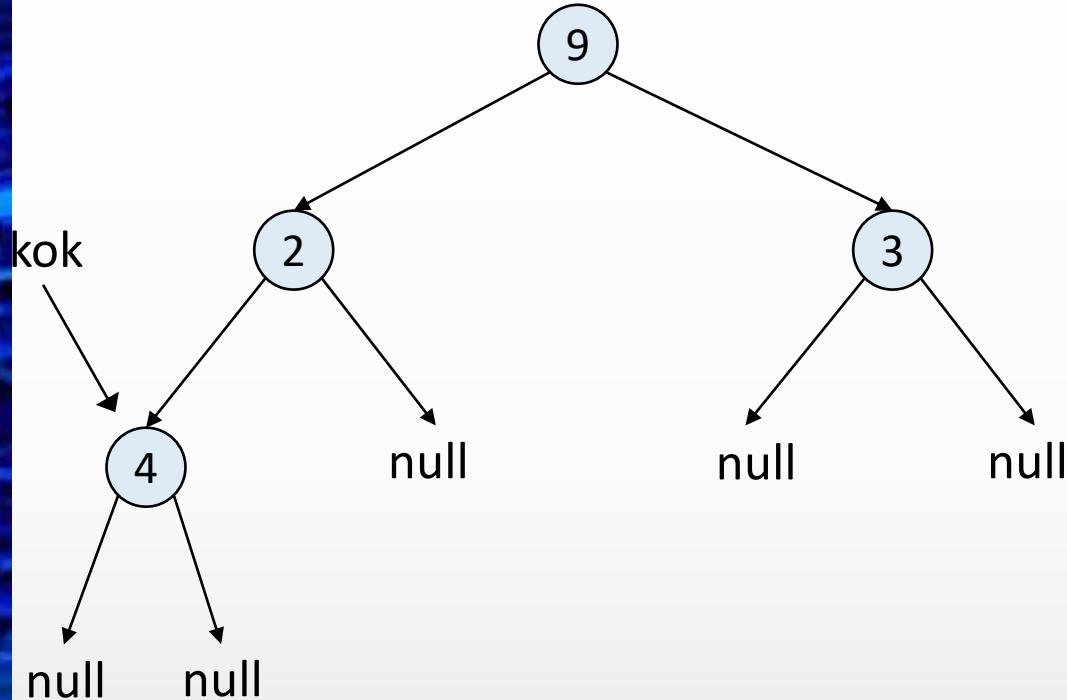
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	4



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



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

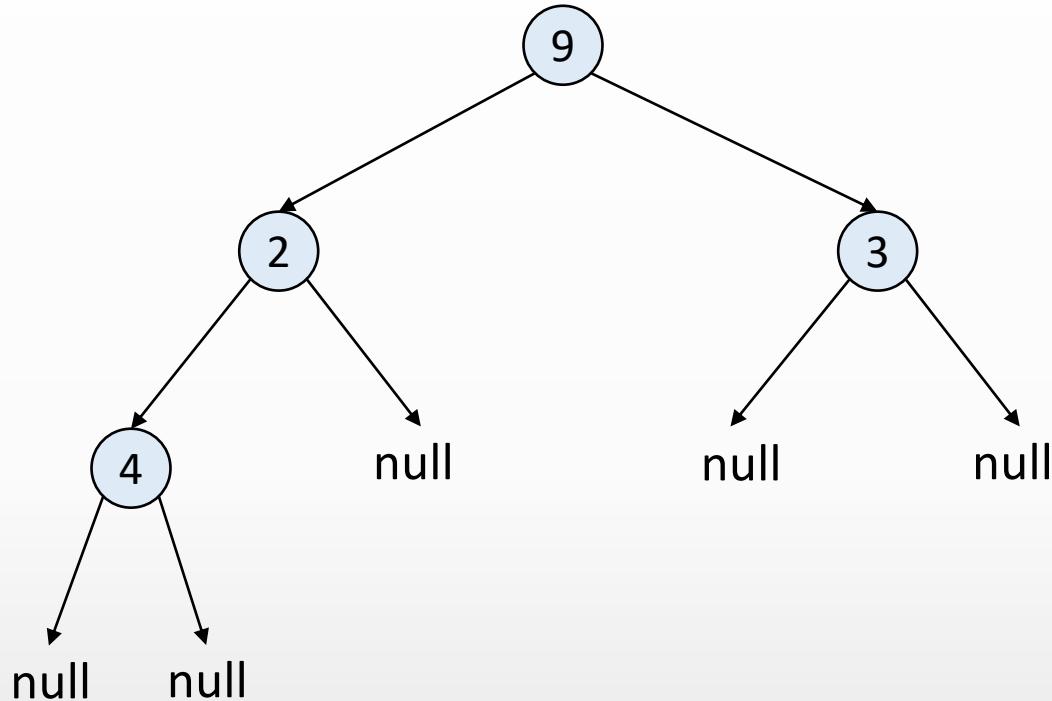
Çıktı: 4



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



## Çağırma Yığıtı (Call Stack)



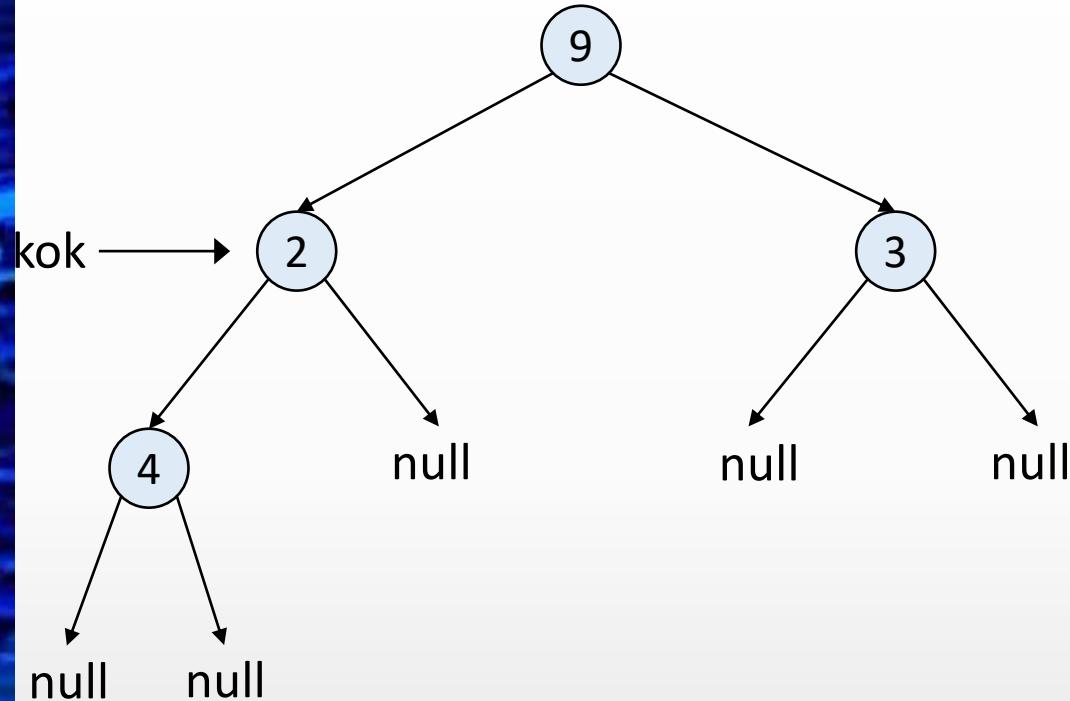
Çıktı: 4

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

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



## Çağırma Yığıtı (Call Stack)

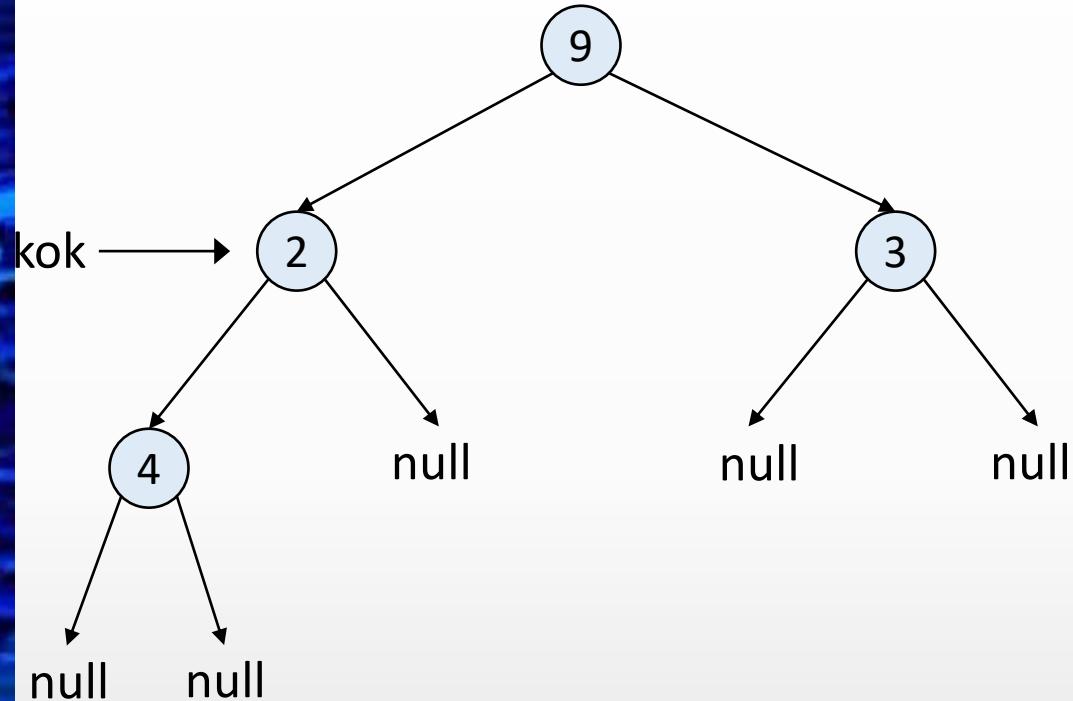


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2

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



## Çağırma Yığıtı (Call Stack)



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

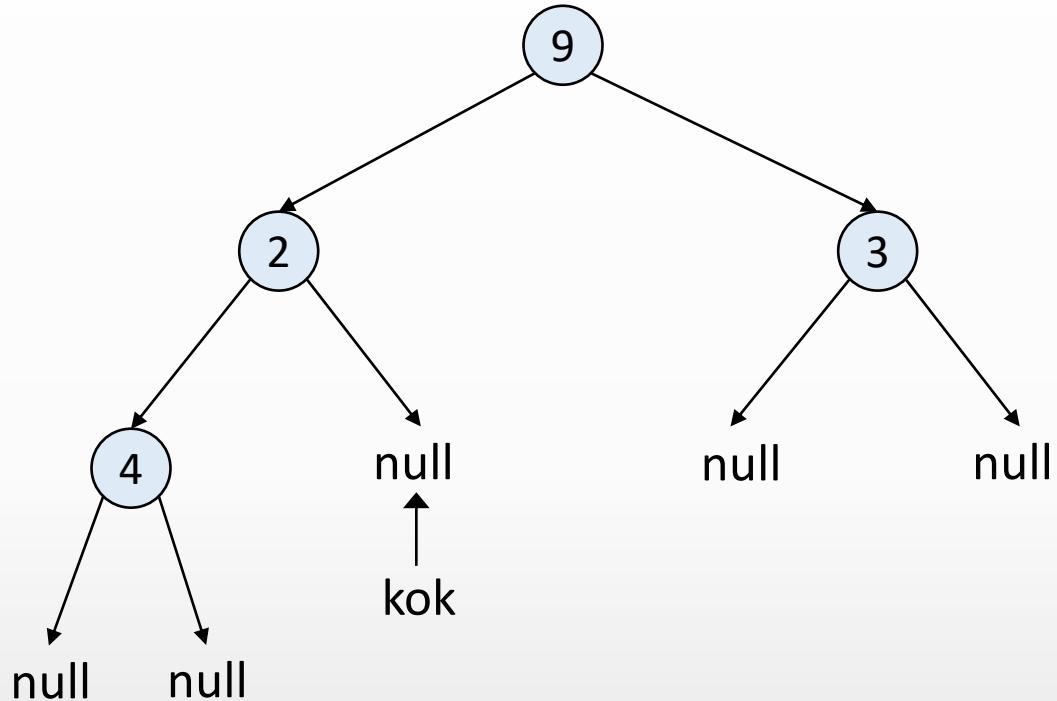


Çıktı: 4

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



## Çağırma Yığıtı (Call Stack)



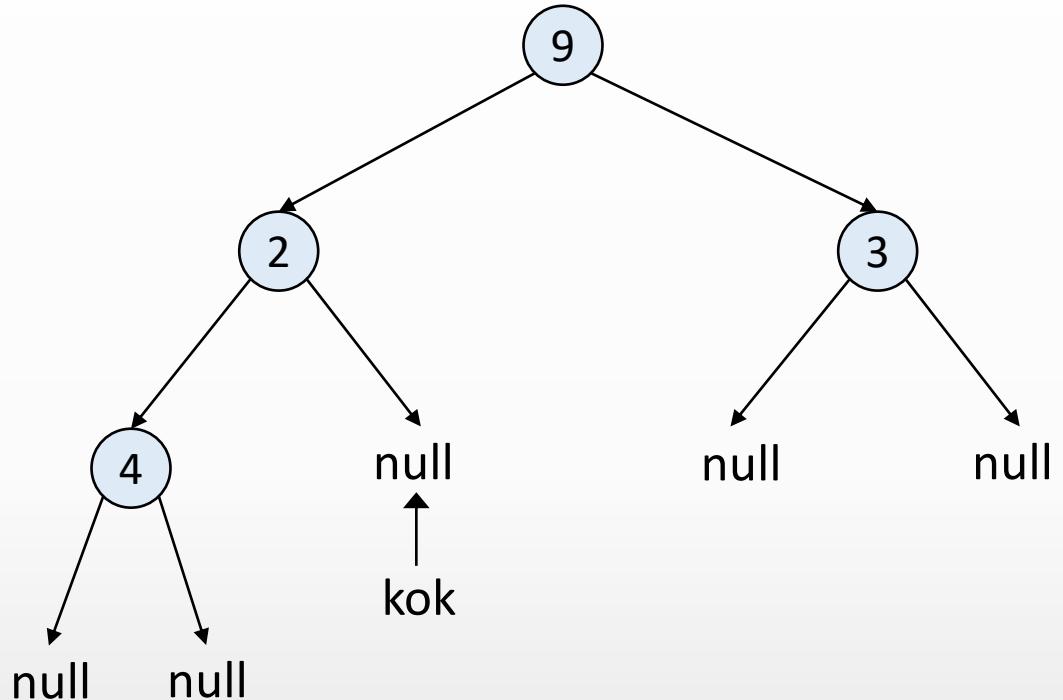
Çıktı: 4

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

```
→ 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)



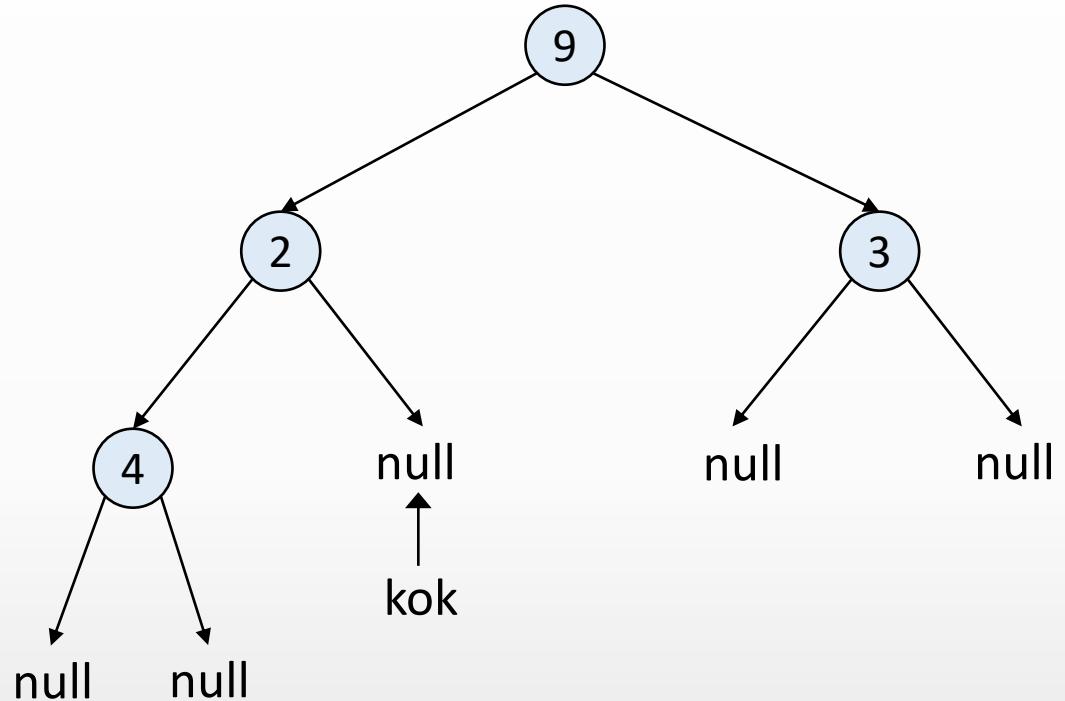
Çıktı: 4

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

```
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)



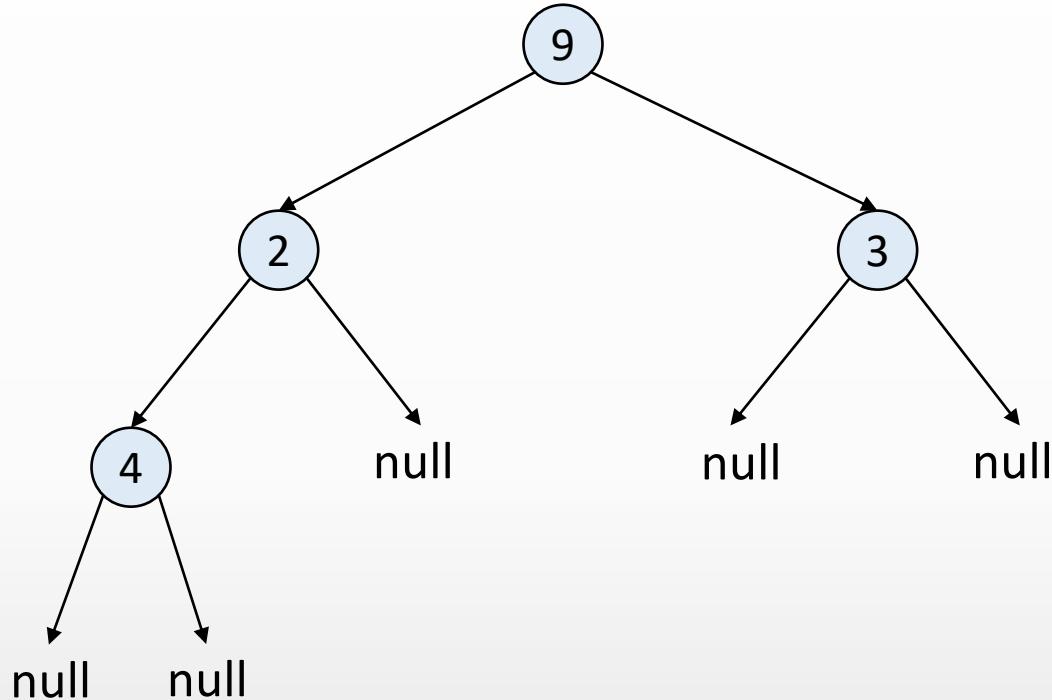
Çıktı: 4

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

```
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)



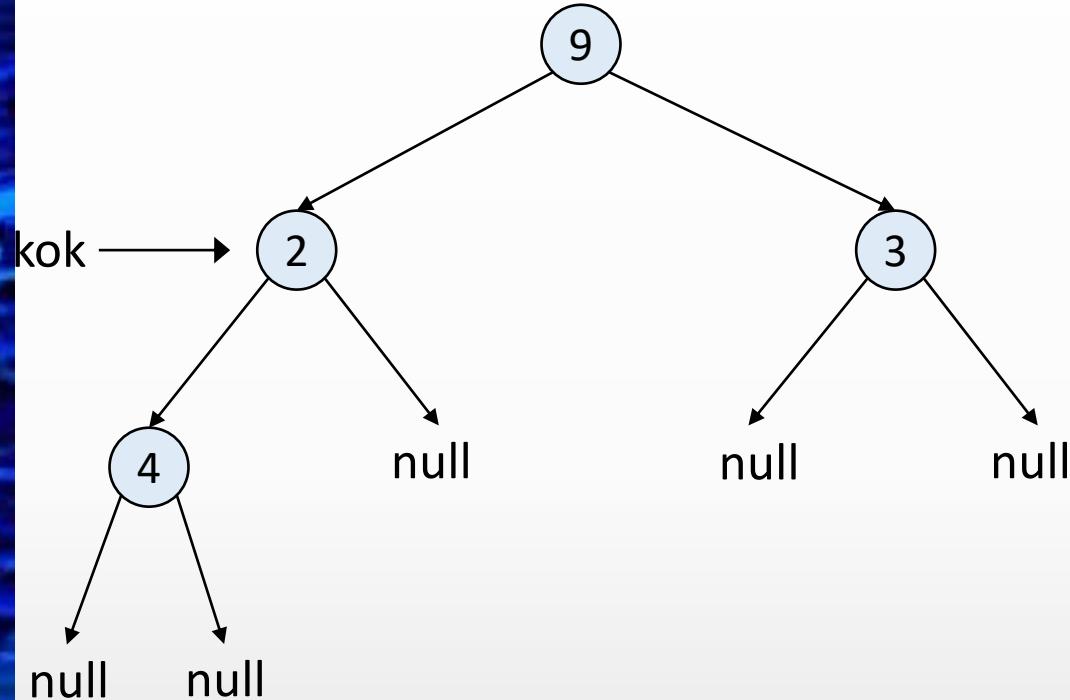
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	6	2

Çıktı: 4

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



## Çağırma Yığıtı (Call Stack)



Çıktı: 4



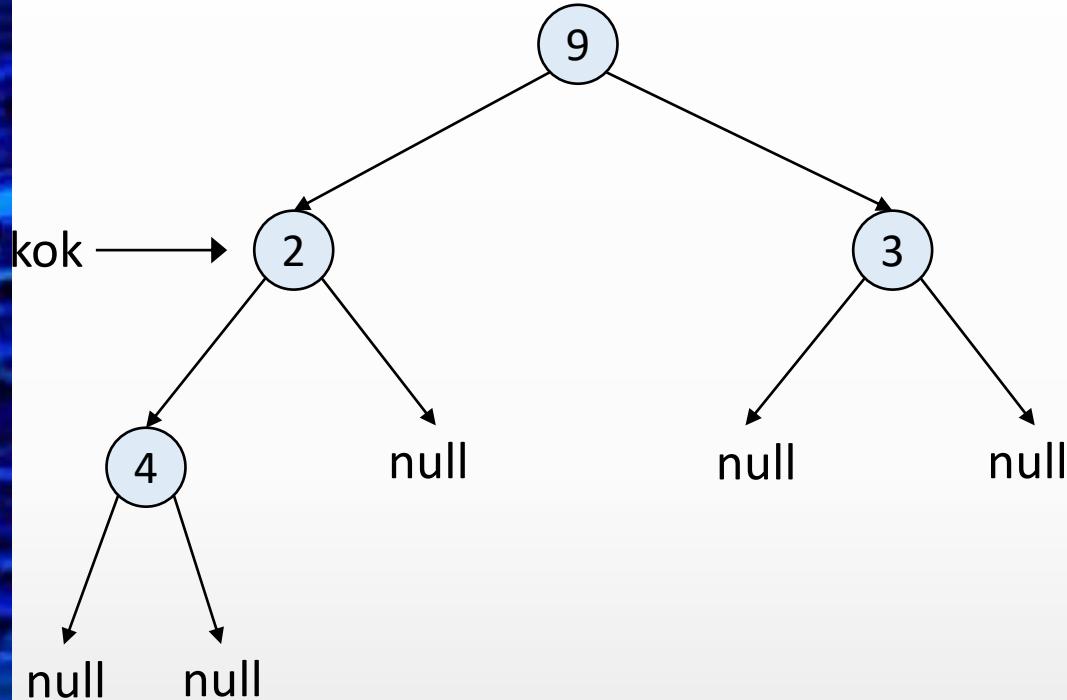
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	6	2



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



## Çağırma Yığıtı (Call Stack)



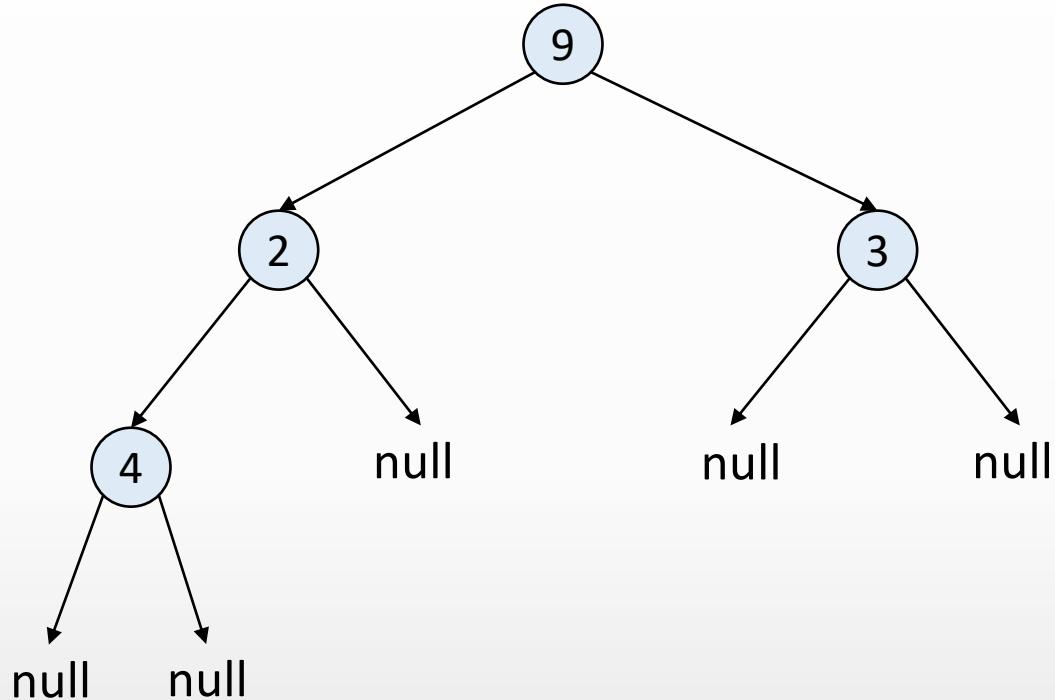
Cıktı: 4 2



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



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

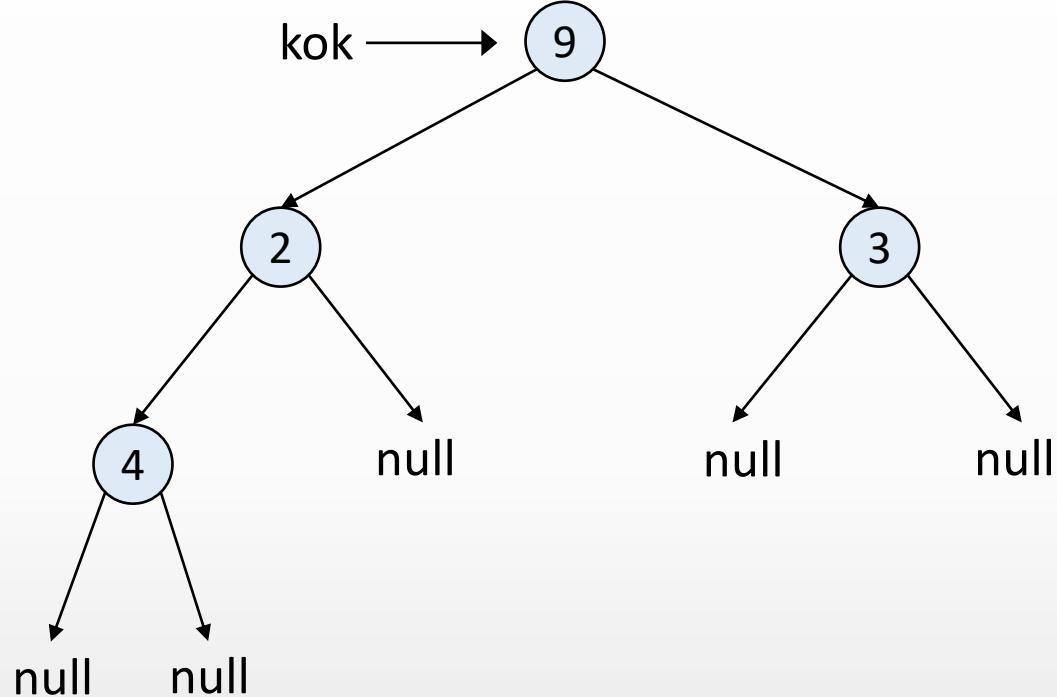


Cıktı: 4 2

Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	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 }
```



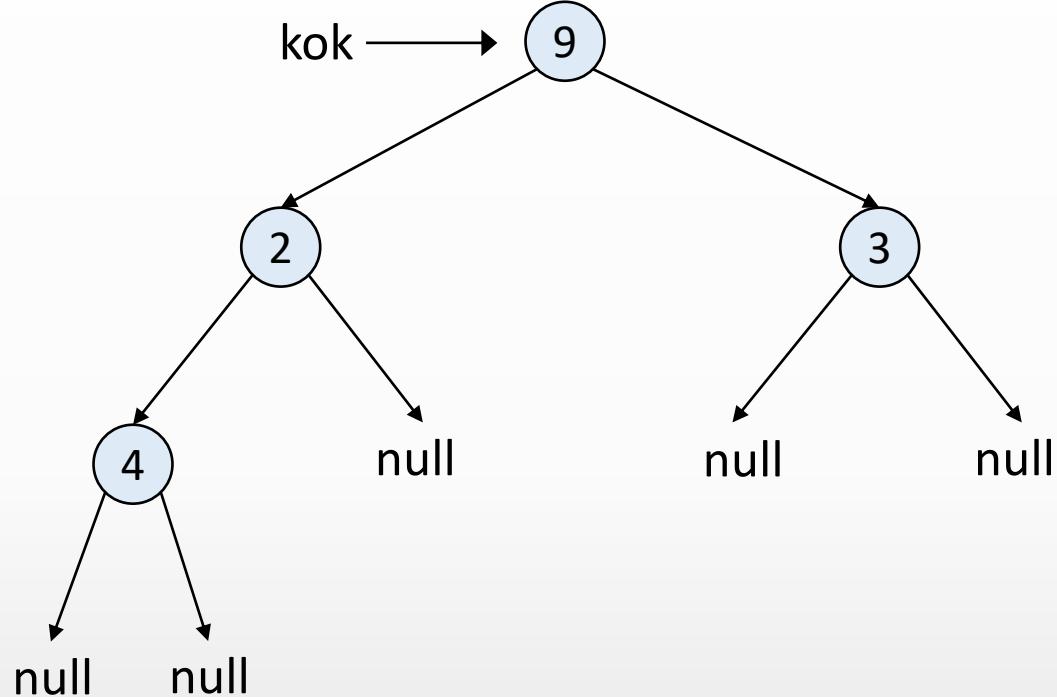
Cıktı: 4 2

Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	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 }
```



Cıktı: 4 2

Çağırma Yığıtı (Call Stack)

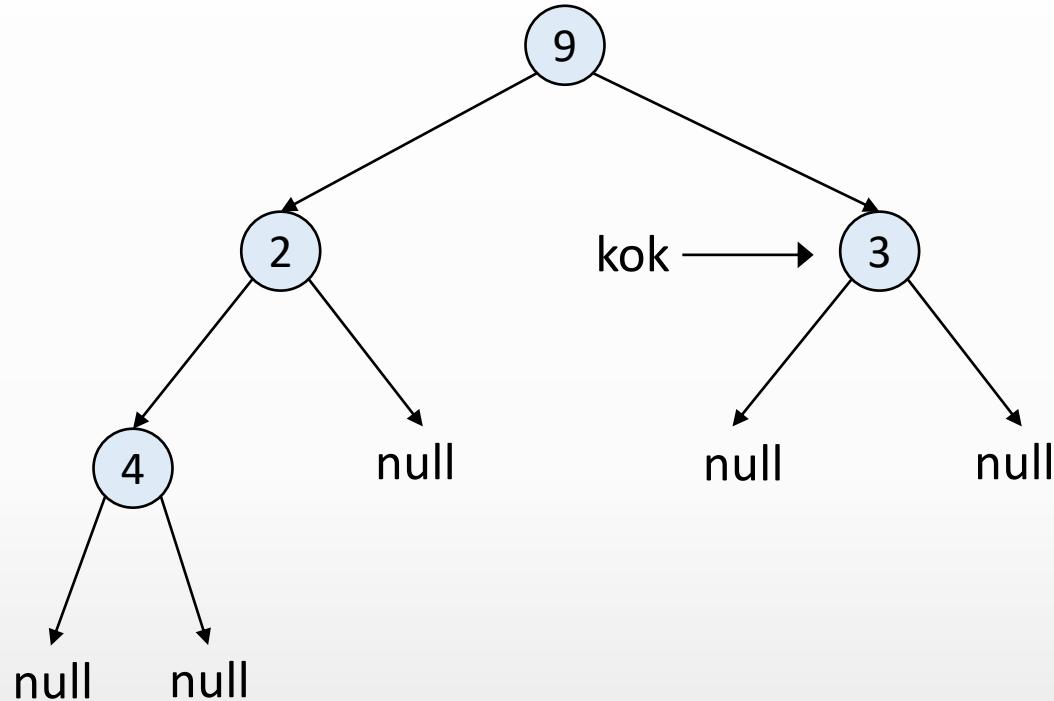
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

```
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)



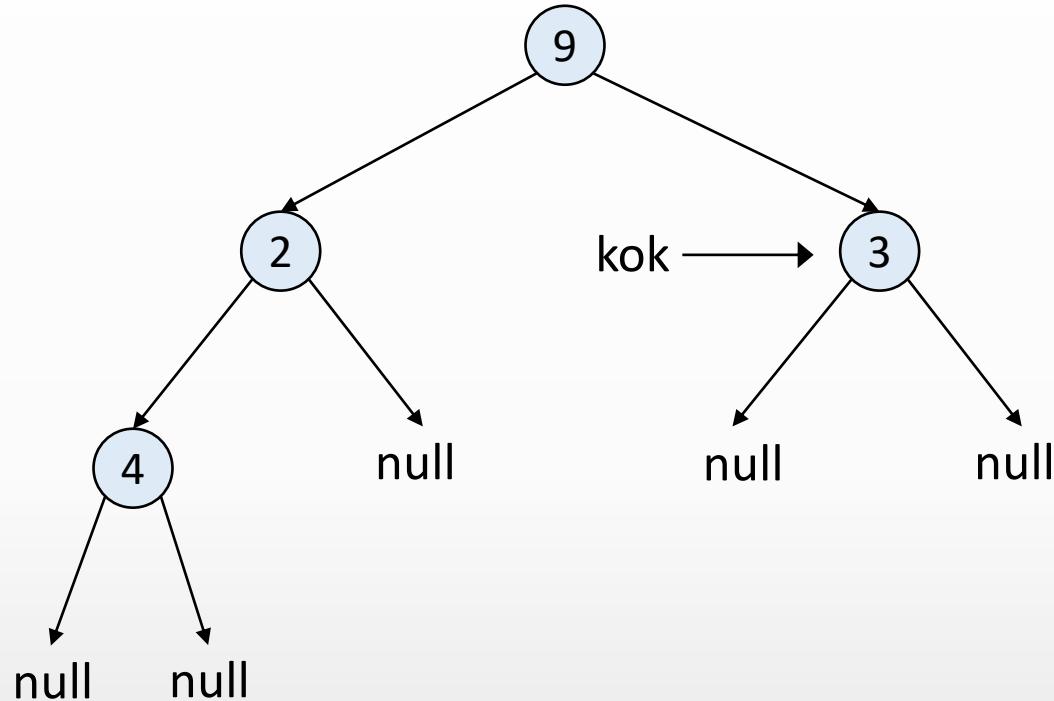
Çıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2



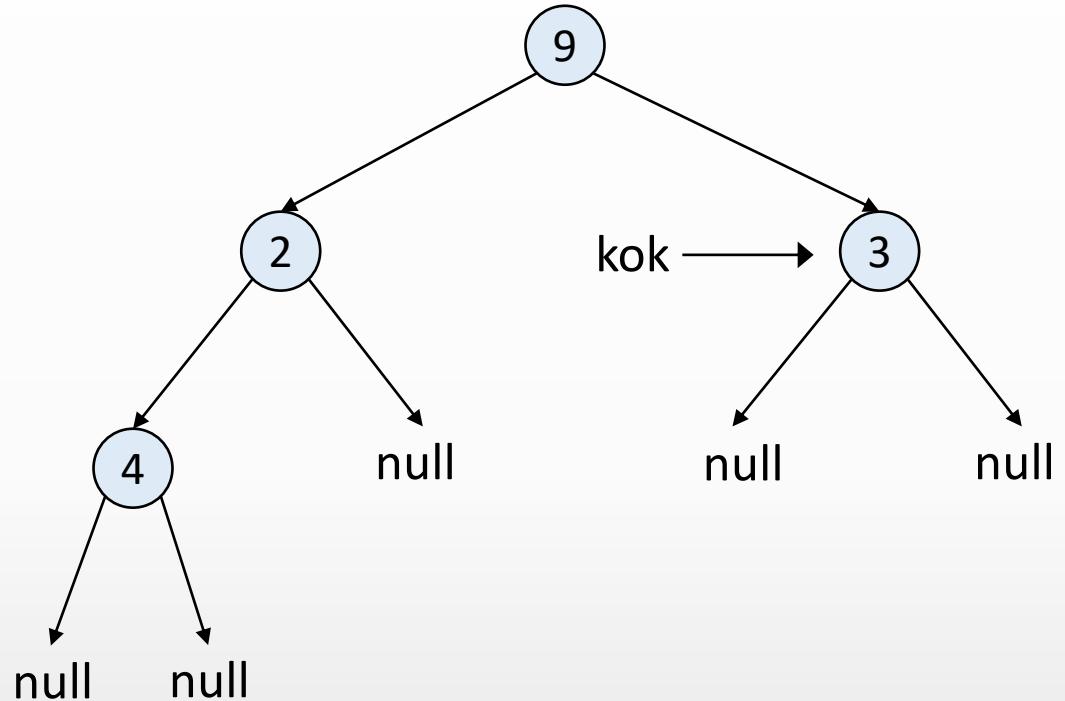
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()		3



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



## Çağırma Yığıtı (Call Stack)

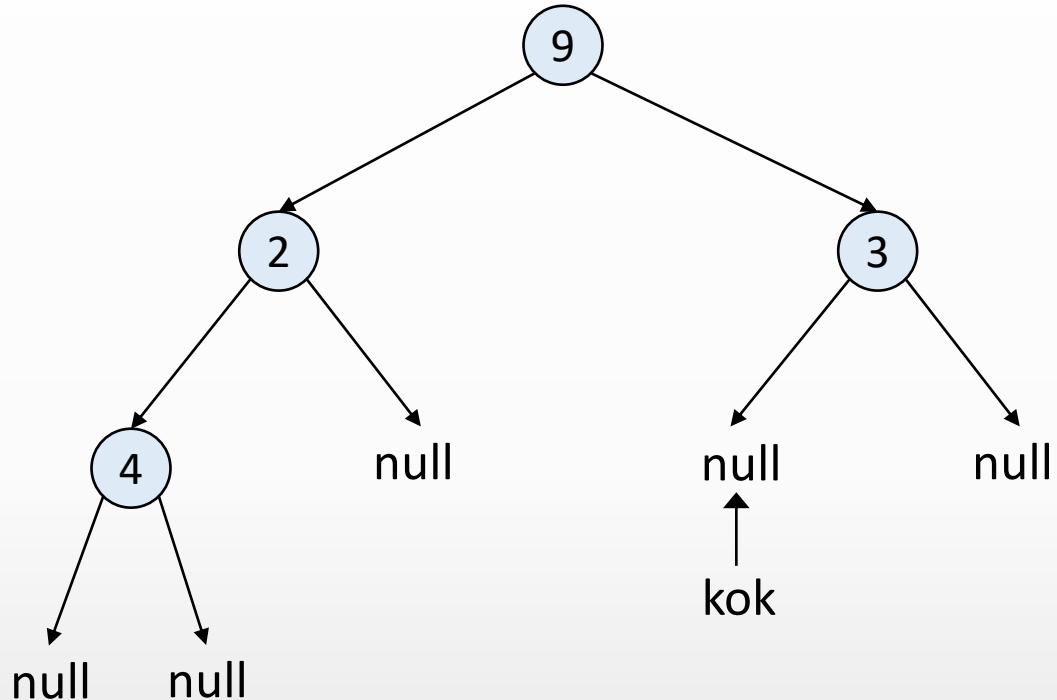


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

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



## Çağırma Yığıtı (Call Stack)



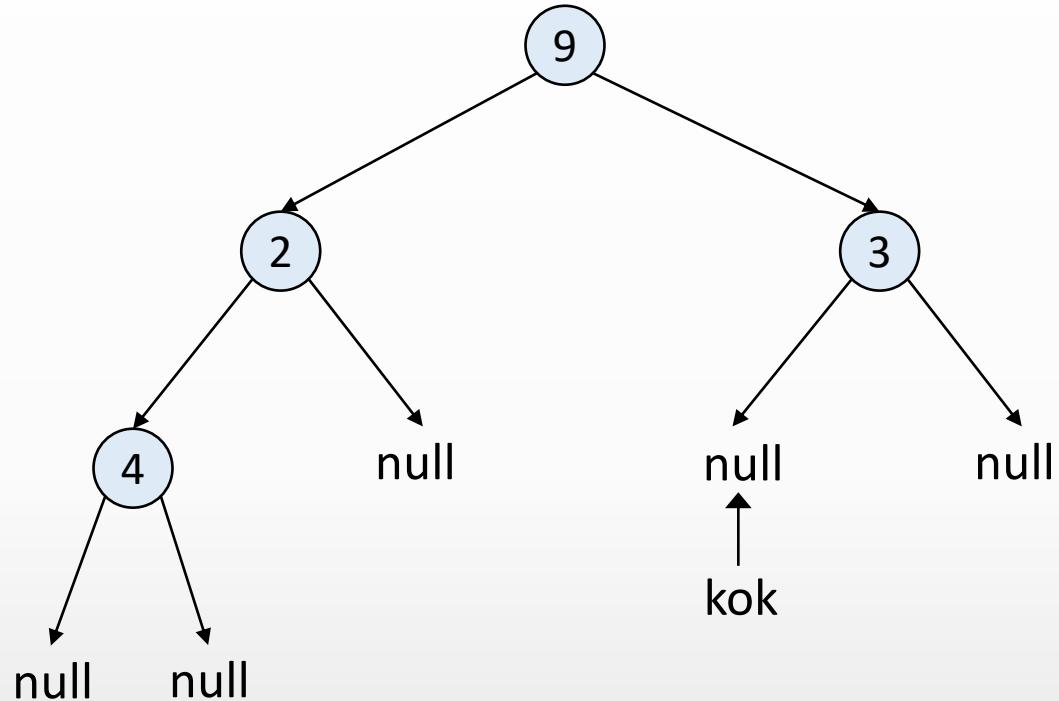
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



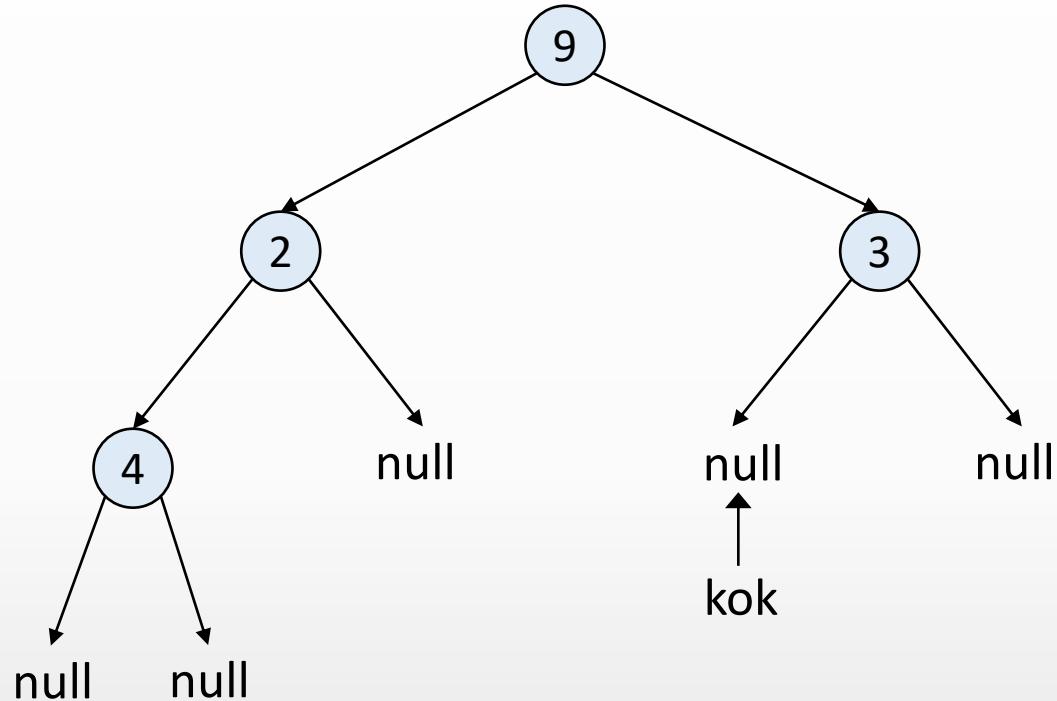
Çıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



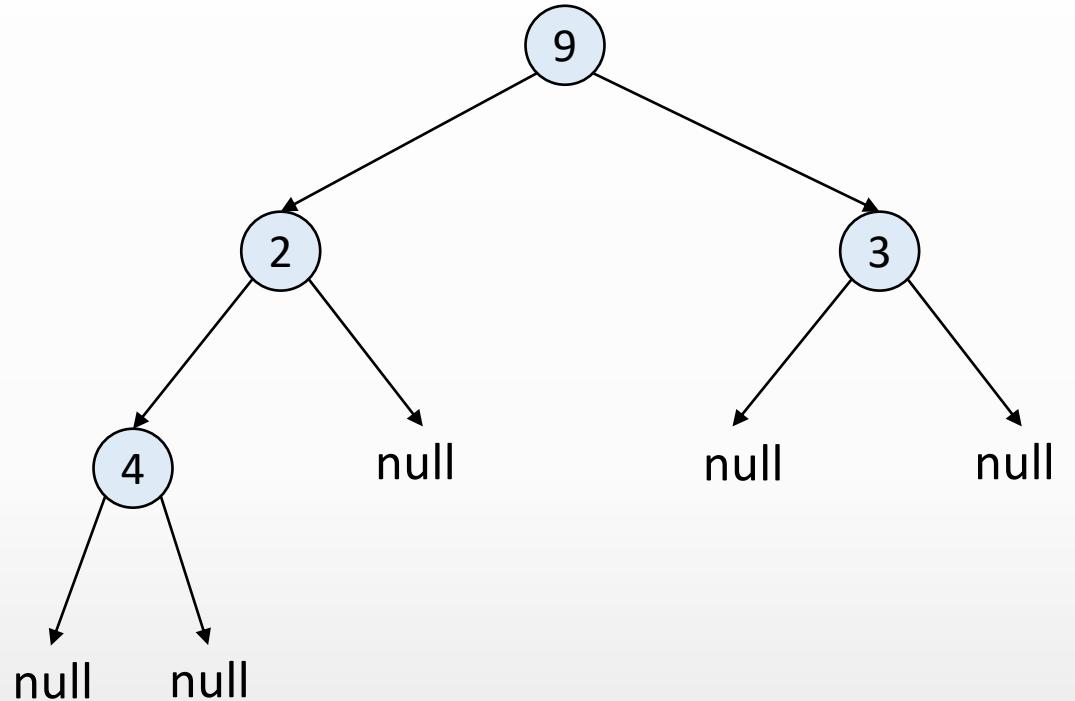
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



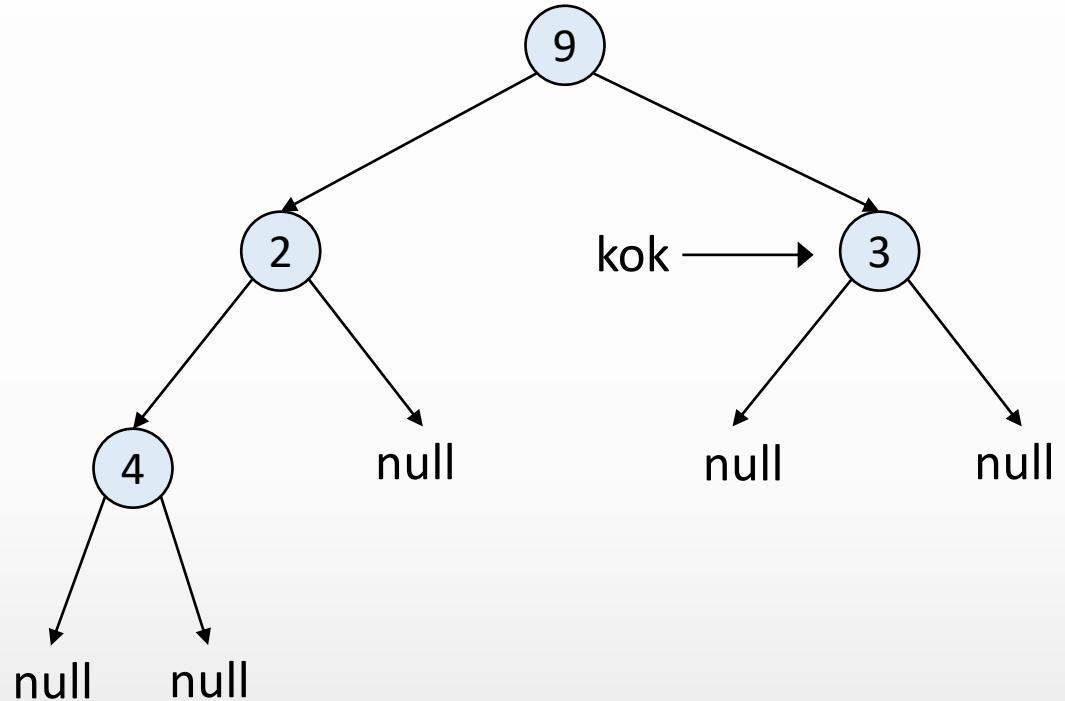
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

Cıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)

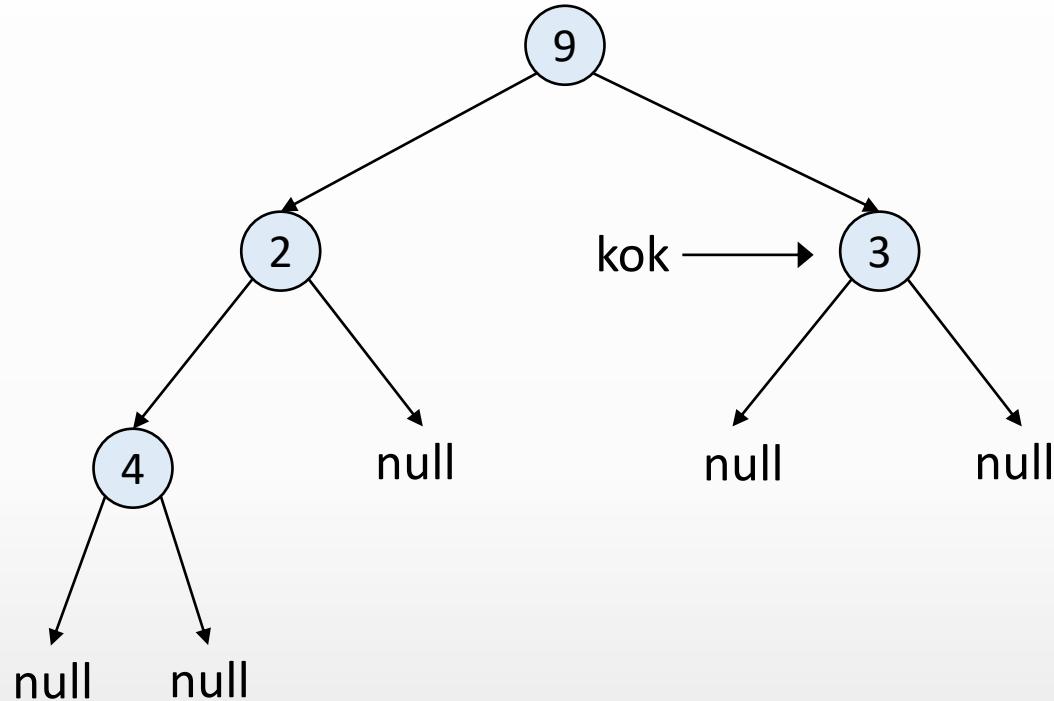


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

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



## Çağırma Yığıtı (Call Stack)



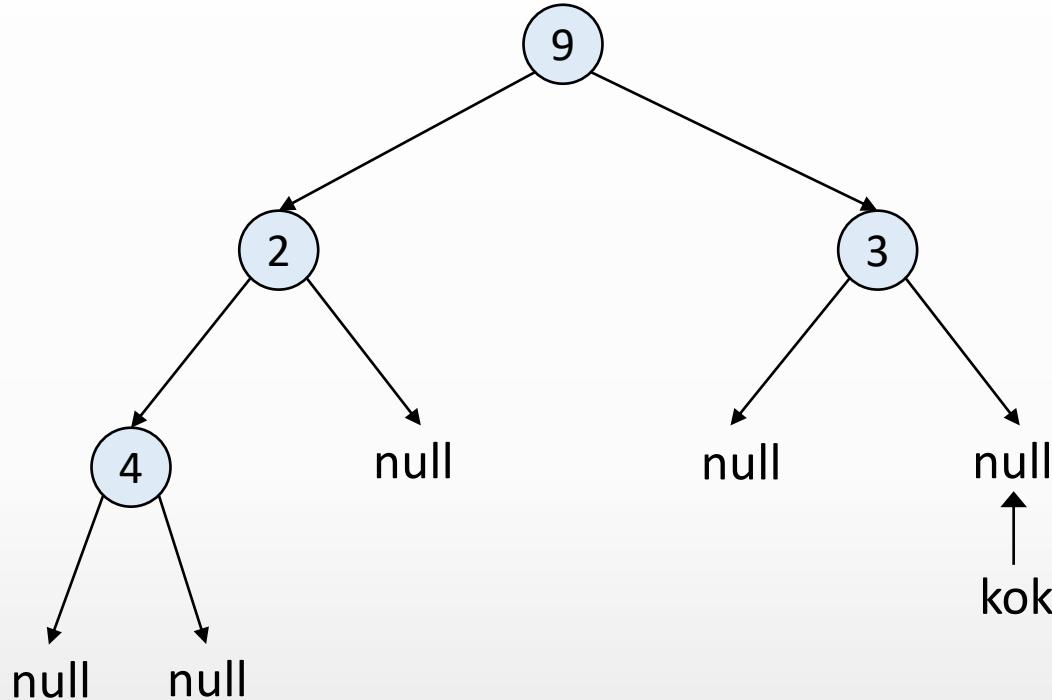
Çıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2

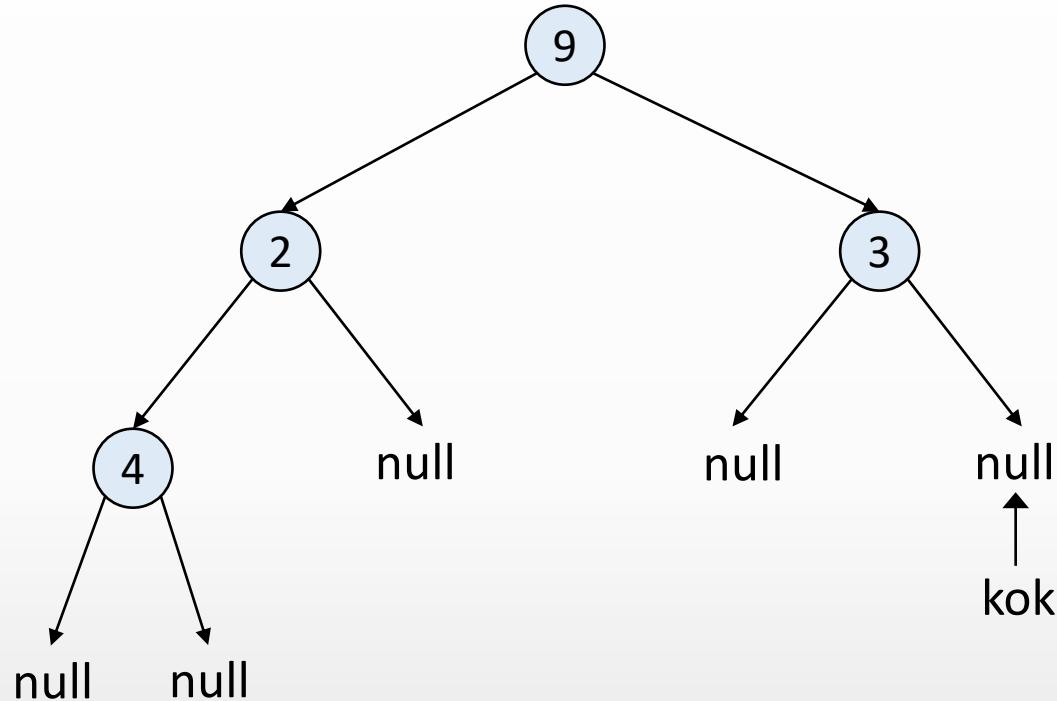
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3
kokSonda()		null

→

```
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)

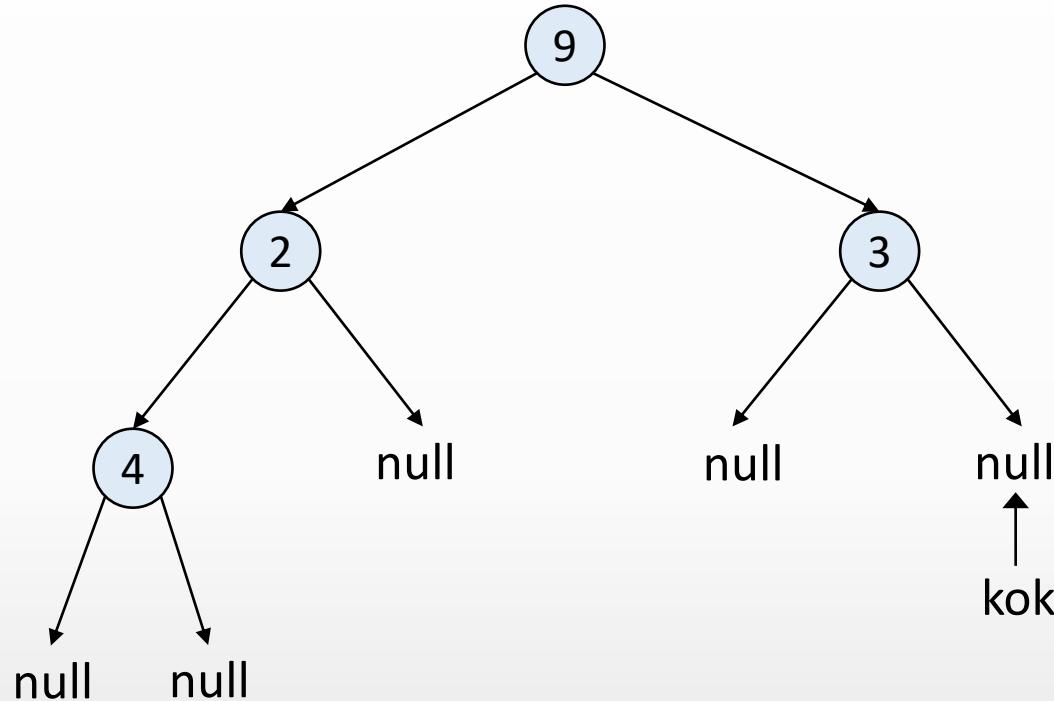


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3
kokSonda()		null

```
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)



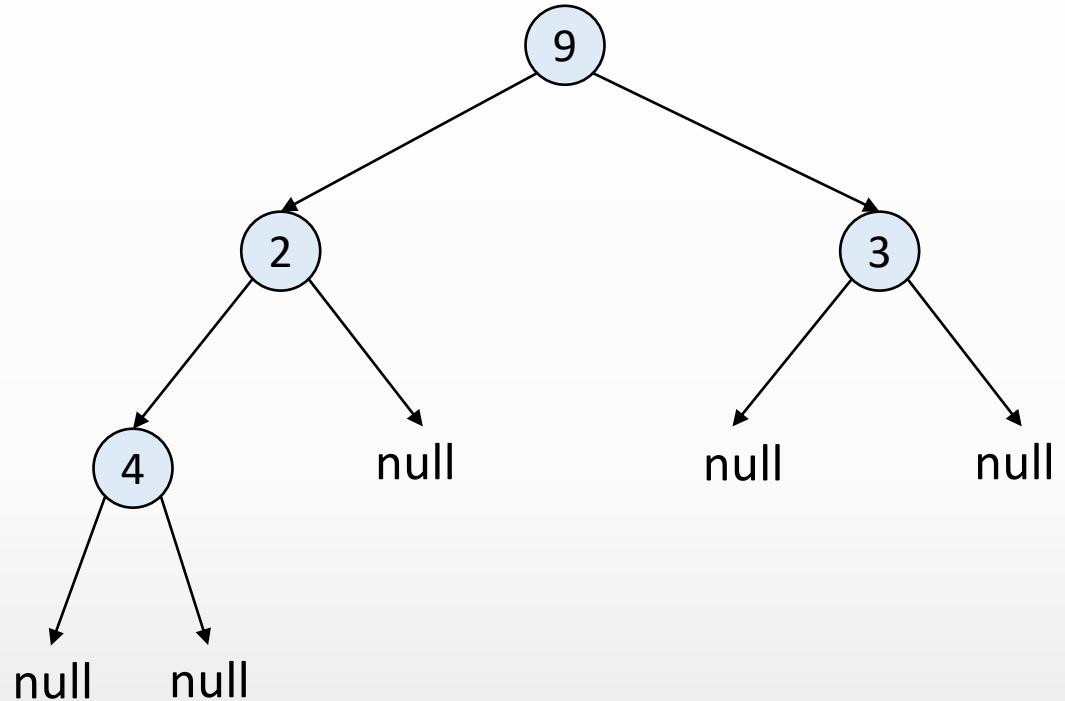
Cıktı: 4 2

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

```
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)



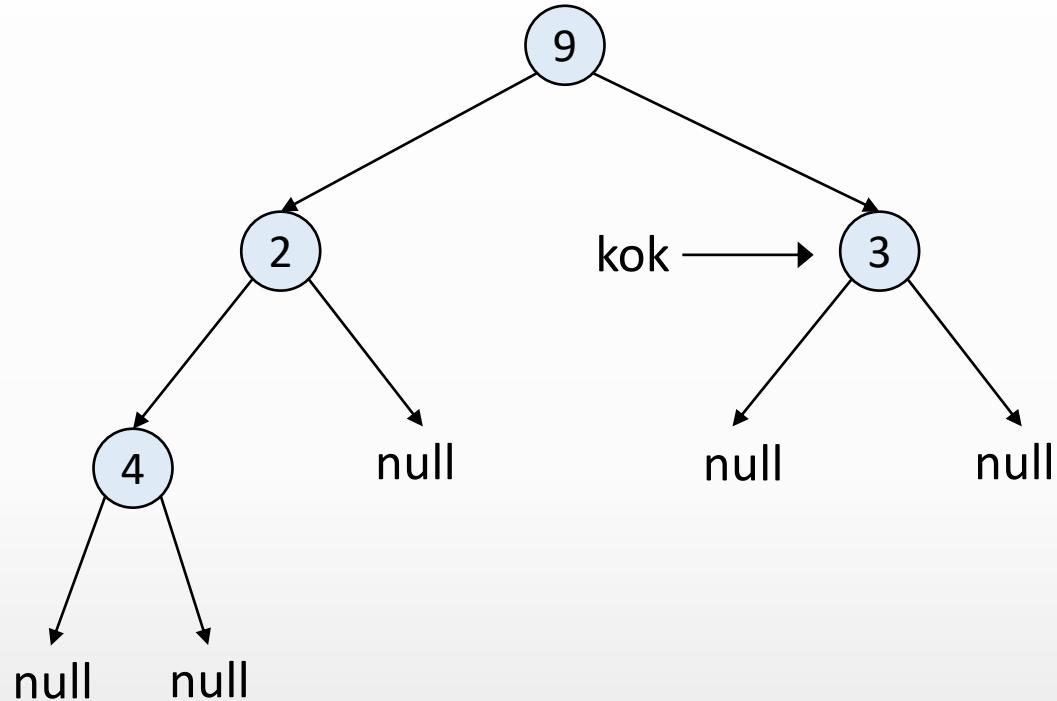
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3

Cıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)



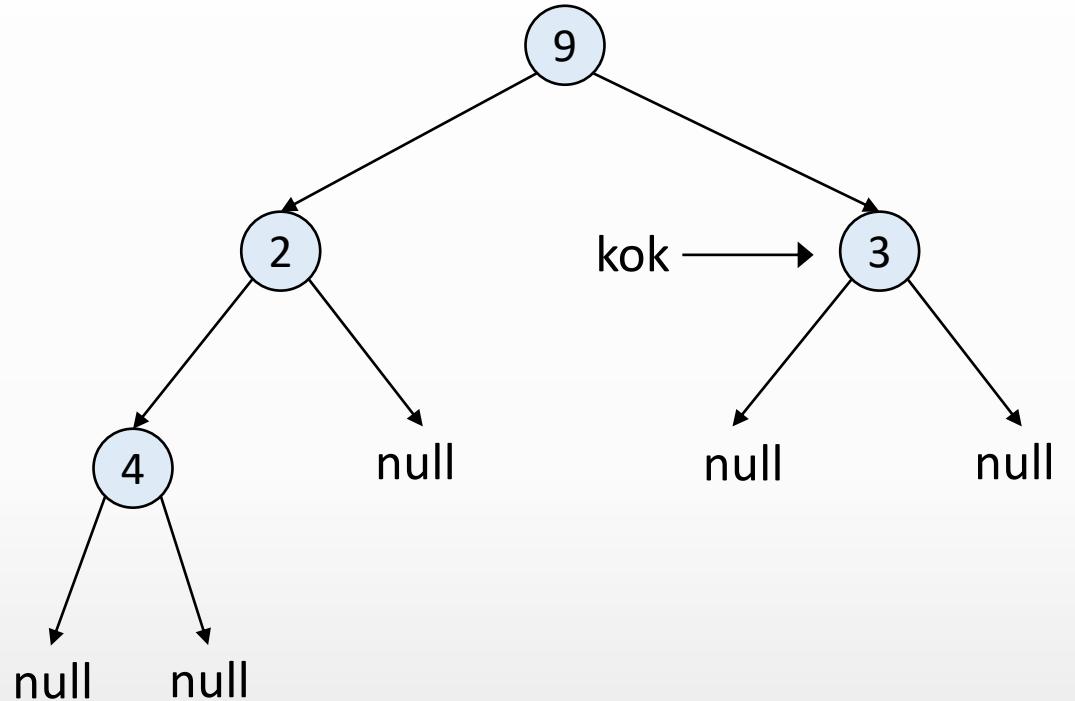
Çıktı: 4 2

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

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



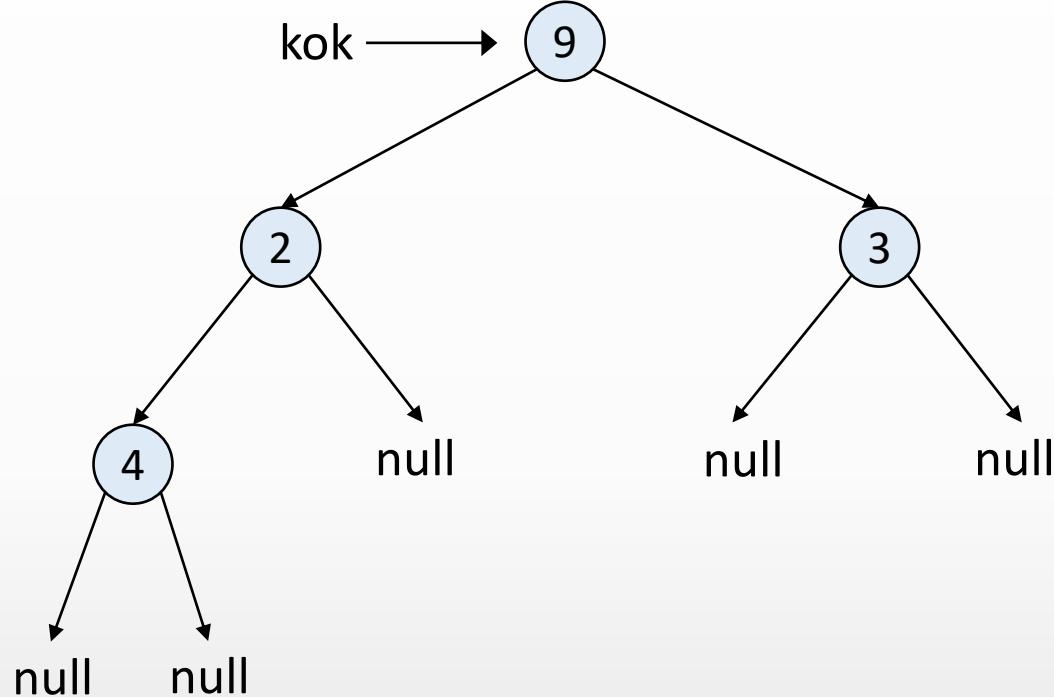
## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 3

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

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



Cıktı: 4 2 3

Çağırma Yığıtı (Call Stack)

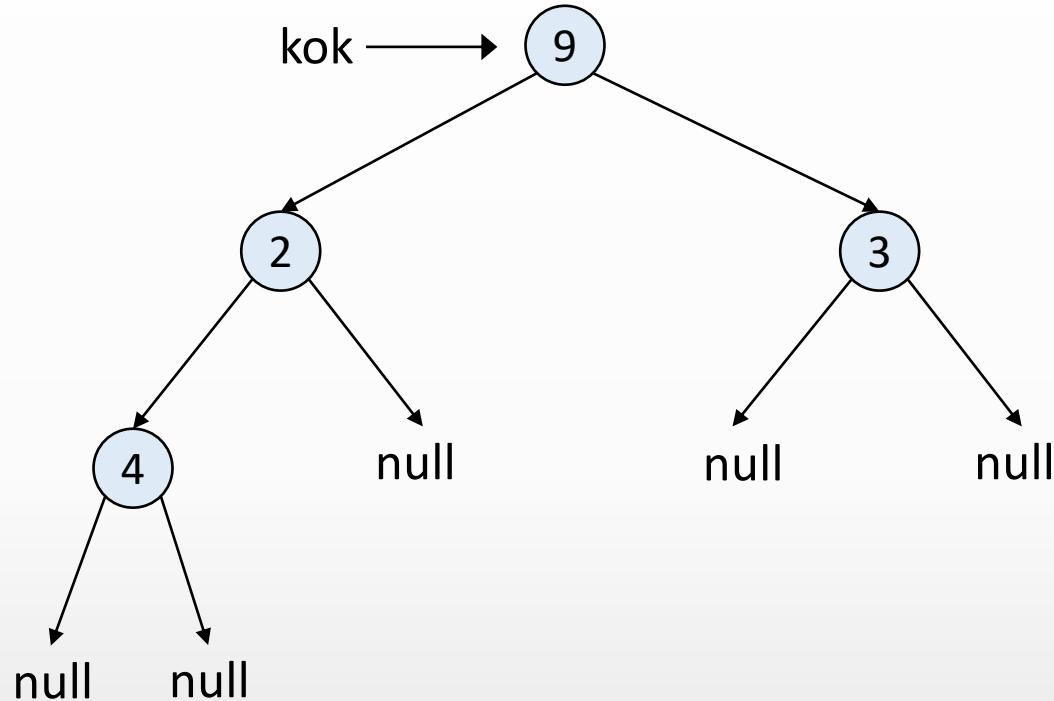
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

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



## Çağırma Yığıtı (Call Stack)



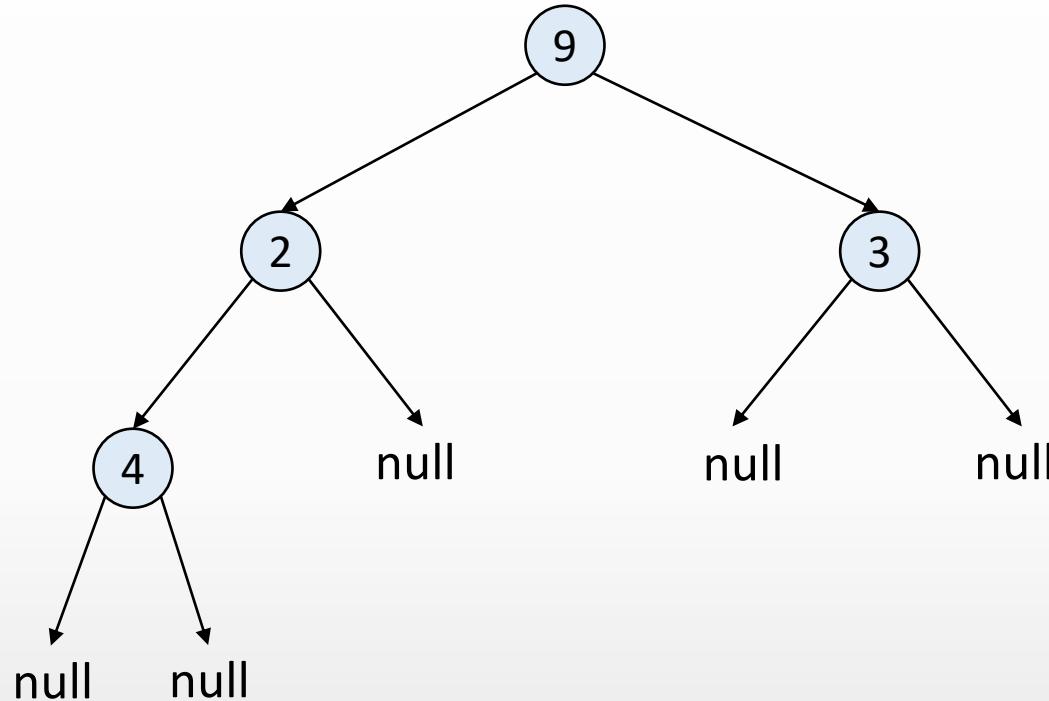
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

Çıktı: 4 2 3 9

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



## Çağrıma Yığıtı (Call Stack)



Cıktı: 4 2 3 9

Metot Çağrımı

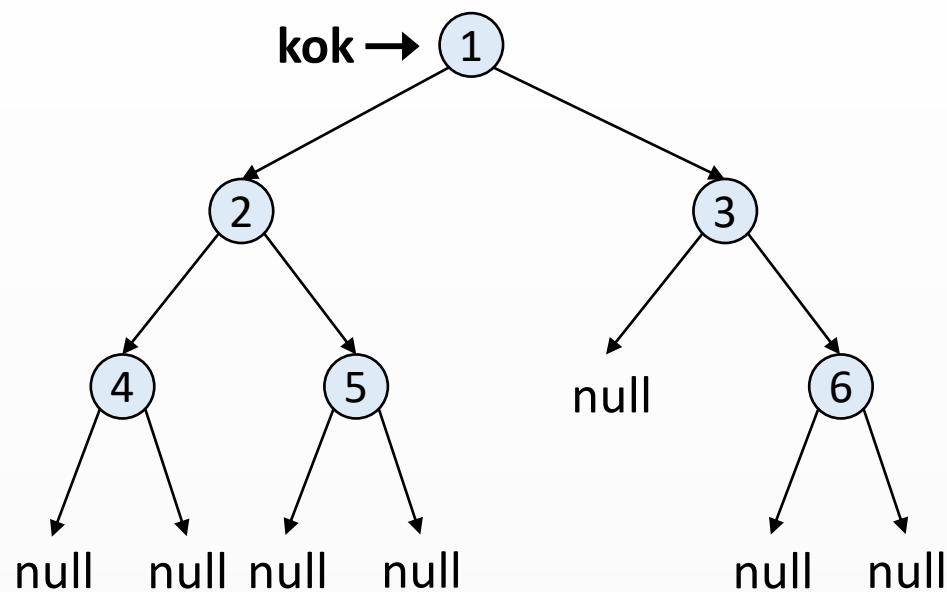
Satır Numarası

Kök

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

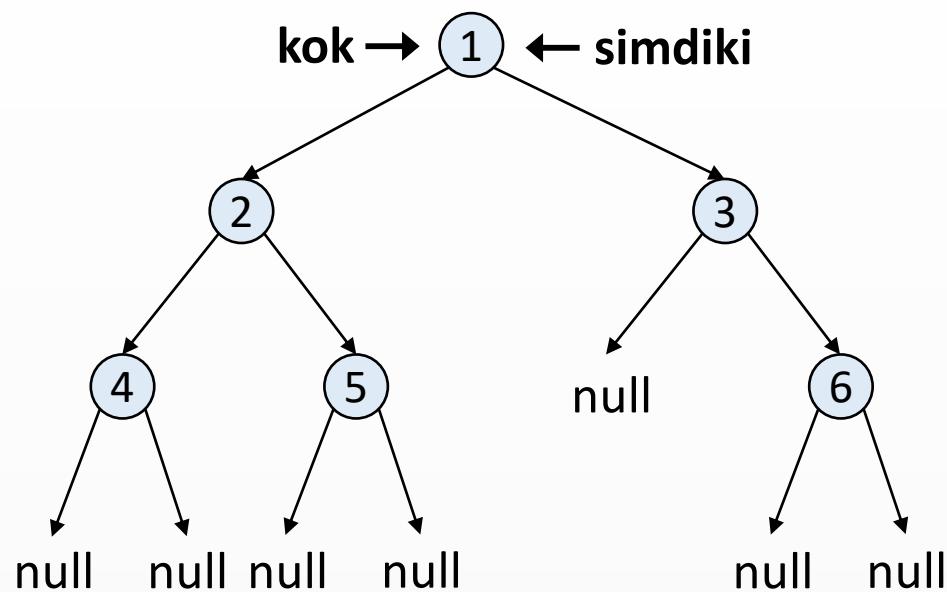
# Yığın ile Kök Sonda Dolaşımı





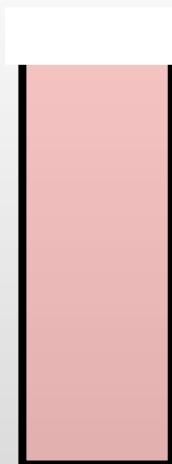
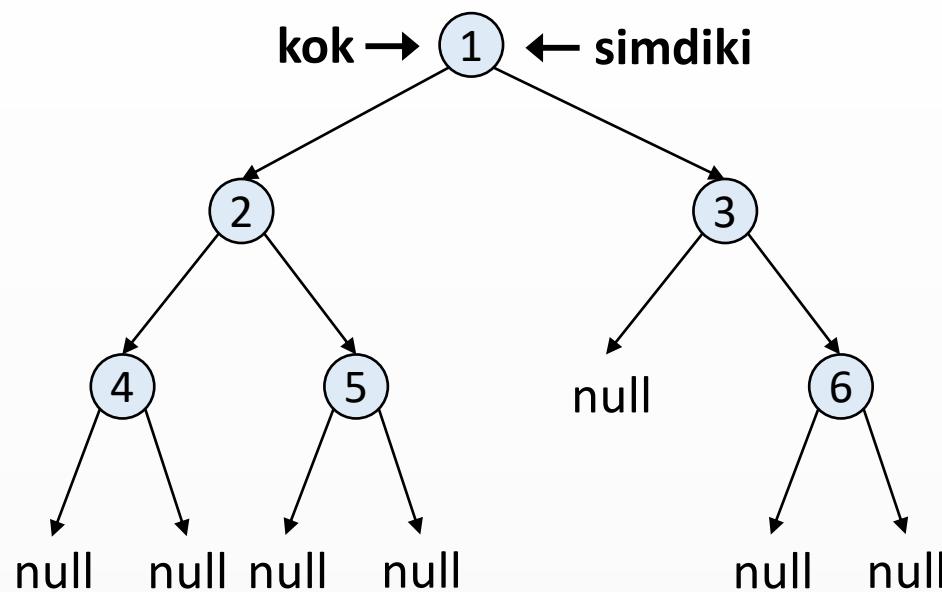
Çıktı:

```
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:

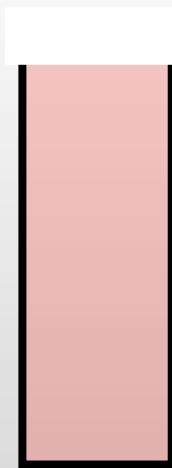
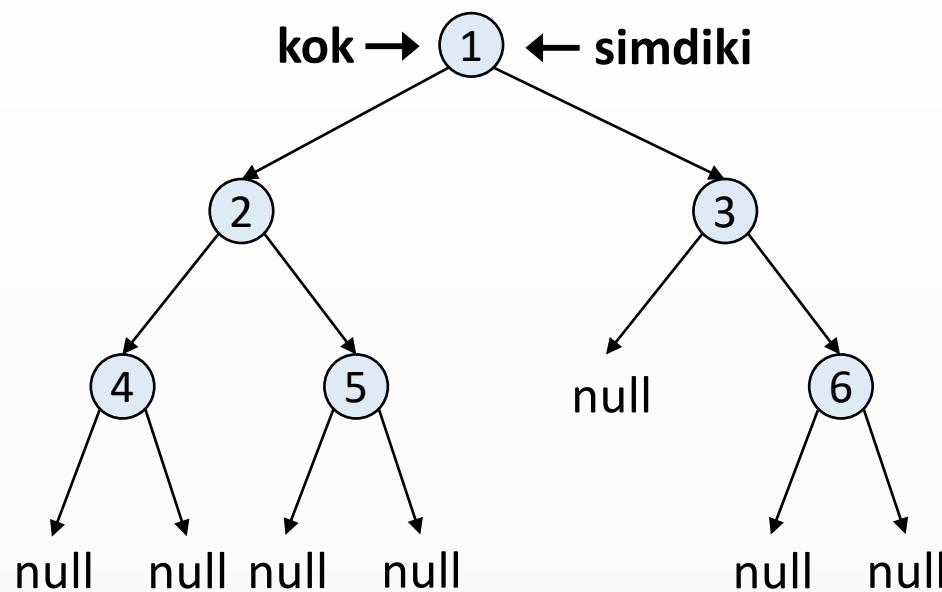
→ AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
**while**(simdiki != null || !yigit.isEmpty()) {  
    **if**(simdiki != null) {  
        yigit.push(simdiki);  
        simdiki = simdiki.sol;  
    }  
    **else** {  
        AgacDugumu gecici = yigit.peek().sag;  
       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

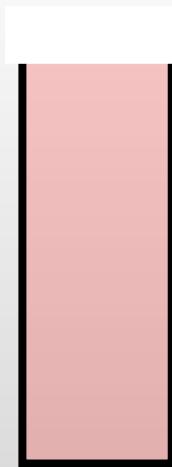
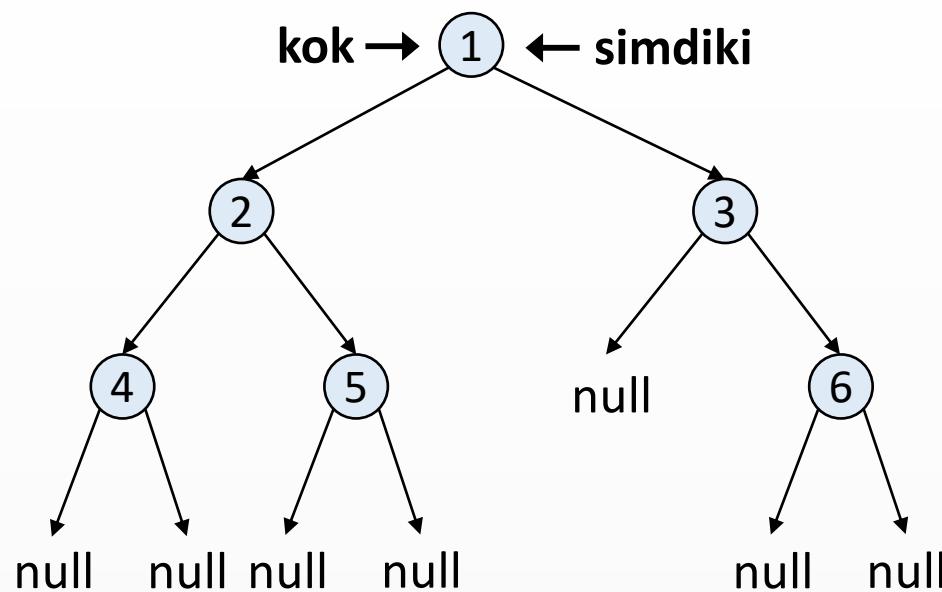
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
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        if(gecici == null) {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



Yığıt

## Çıktı:

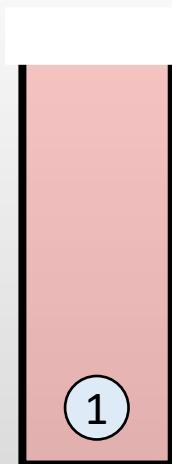
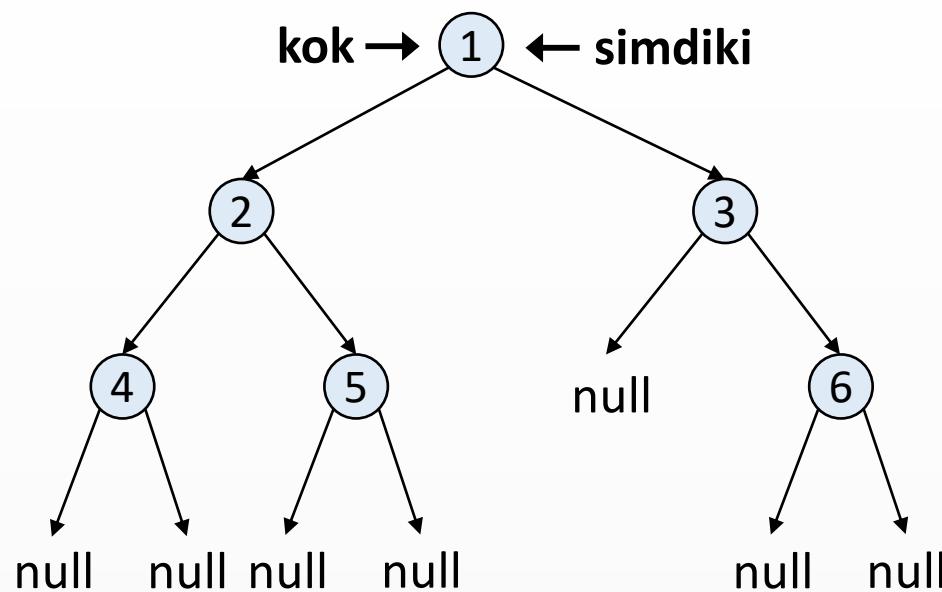
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    if(simdiki != null) {
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            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                  gecici == yigit.peek().sag) {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



Yığıt

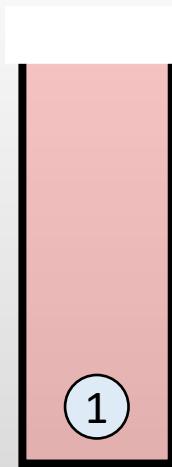
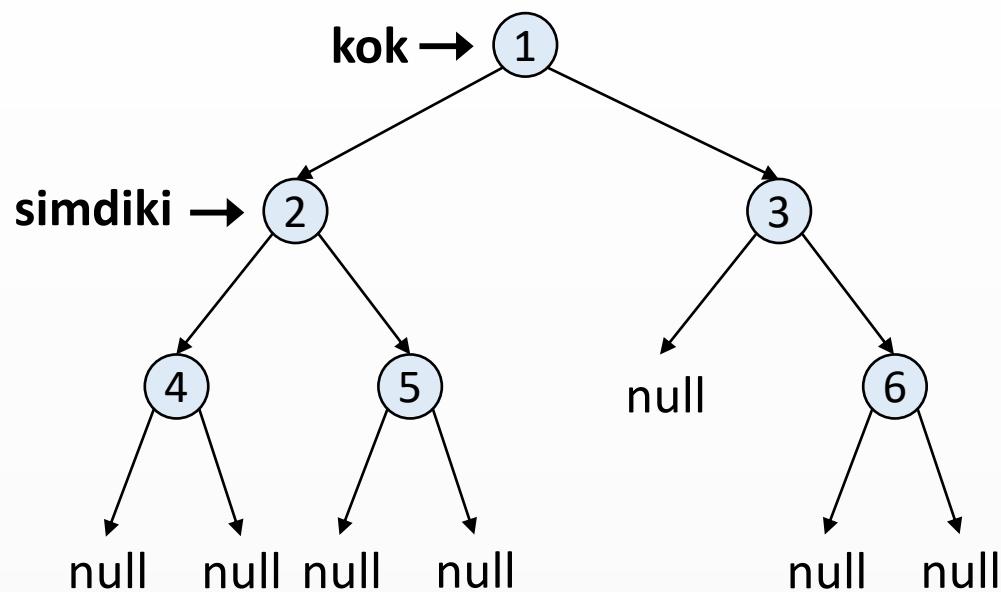
## Çıktı:

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



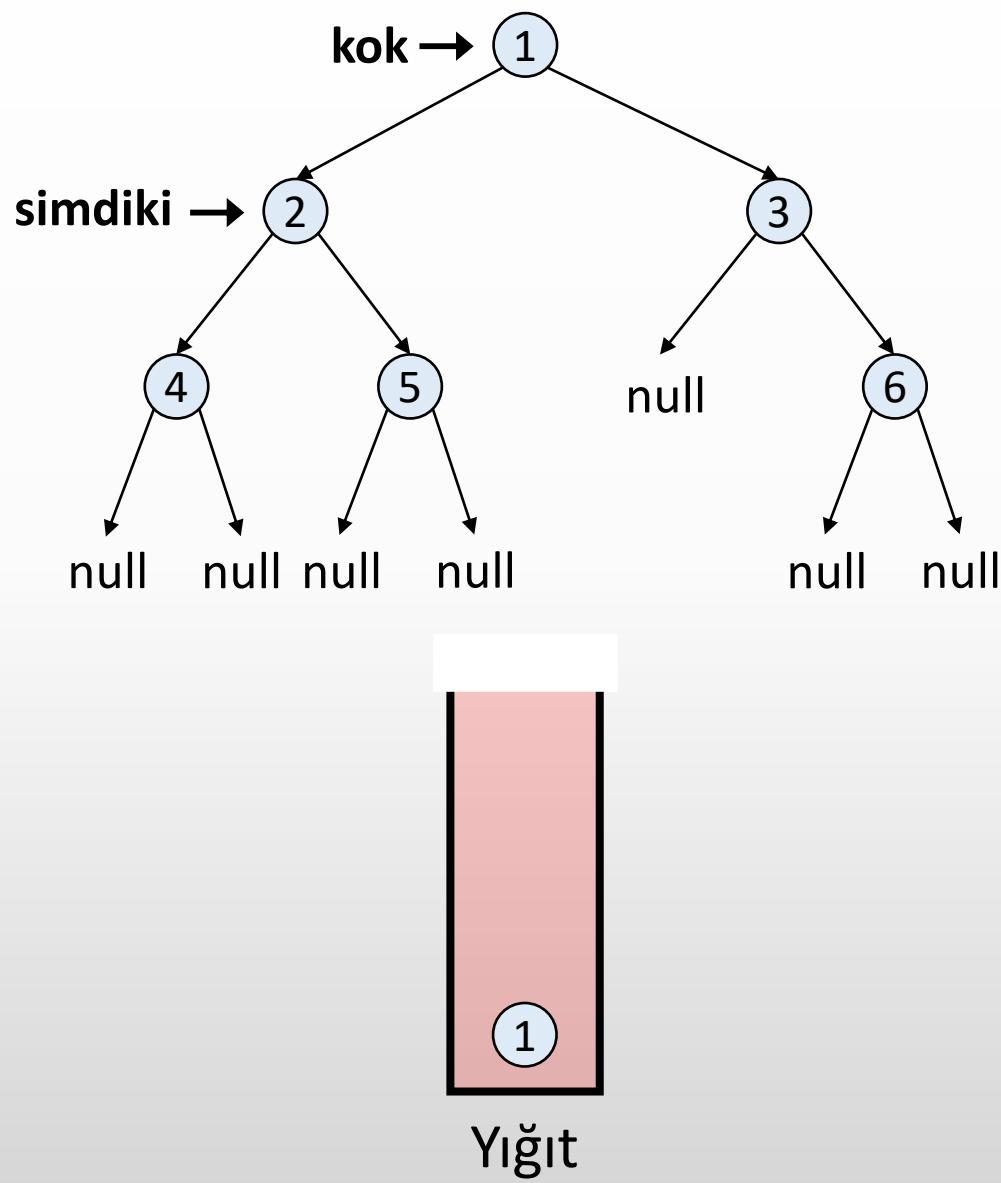
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                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
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        }
    }
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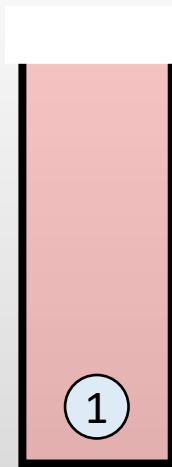
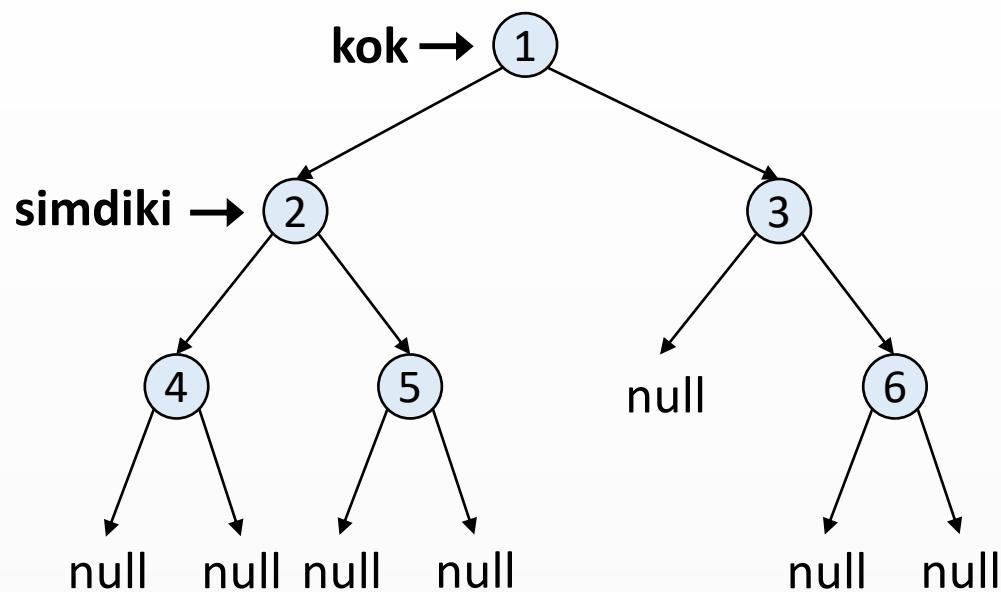
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        if(gecici == null) {  
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            System.out.print(gecici.veri + " ");  
        }  
        while(!yigit.isEmpty() &&  
              gecici == yigit.peek().sag) {  
            gecici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



Çıktı:

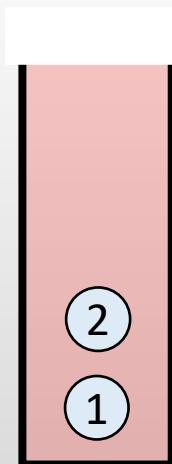
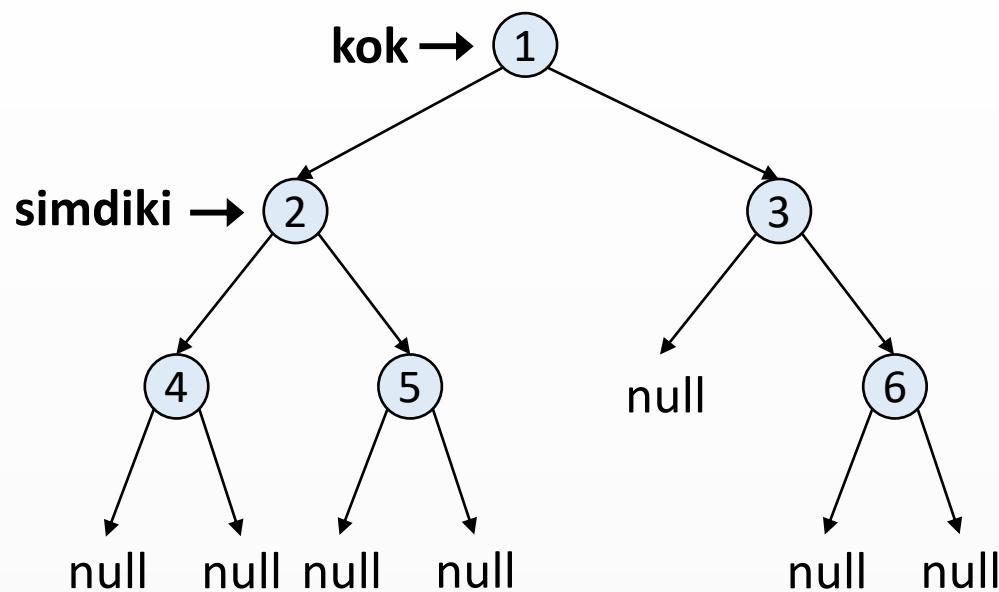
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
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        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
            gecici = yigit.pop();
            System.out.print(gecici.veri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



Yığıt

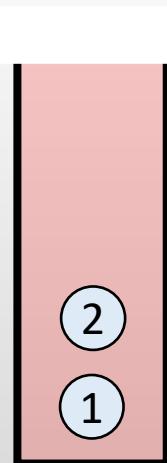
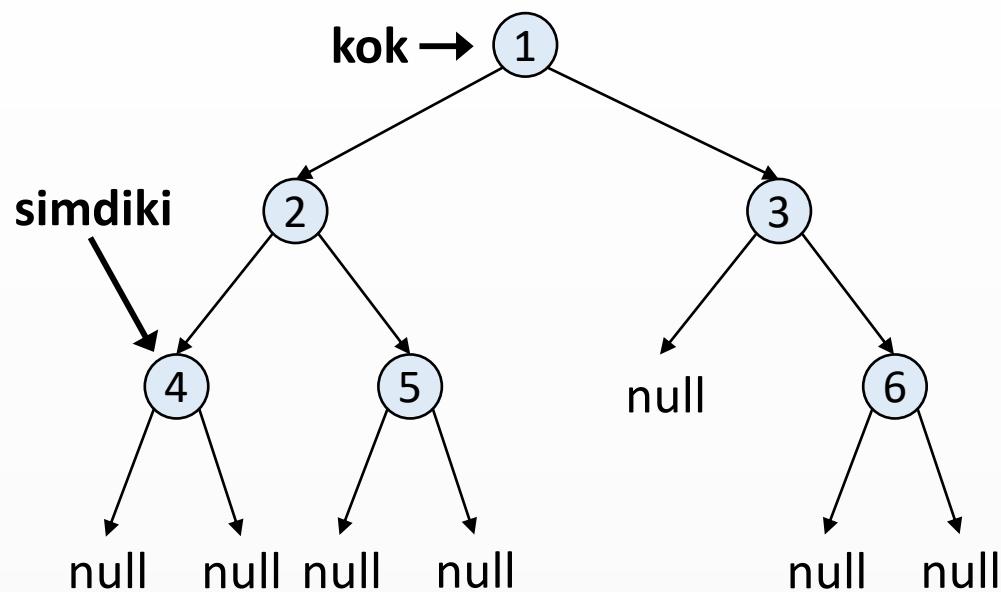
## Çıktı:

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



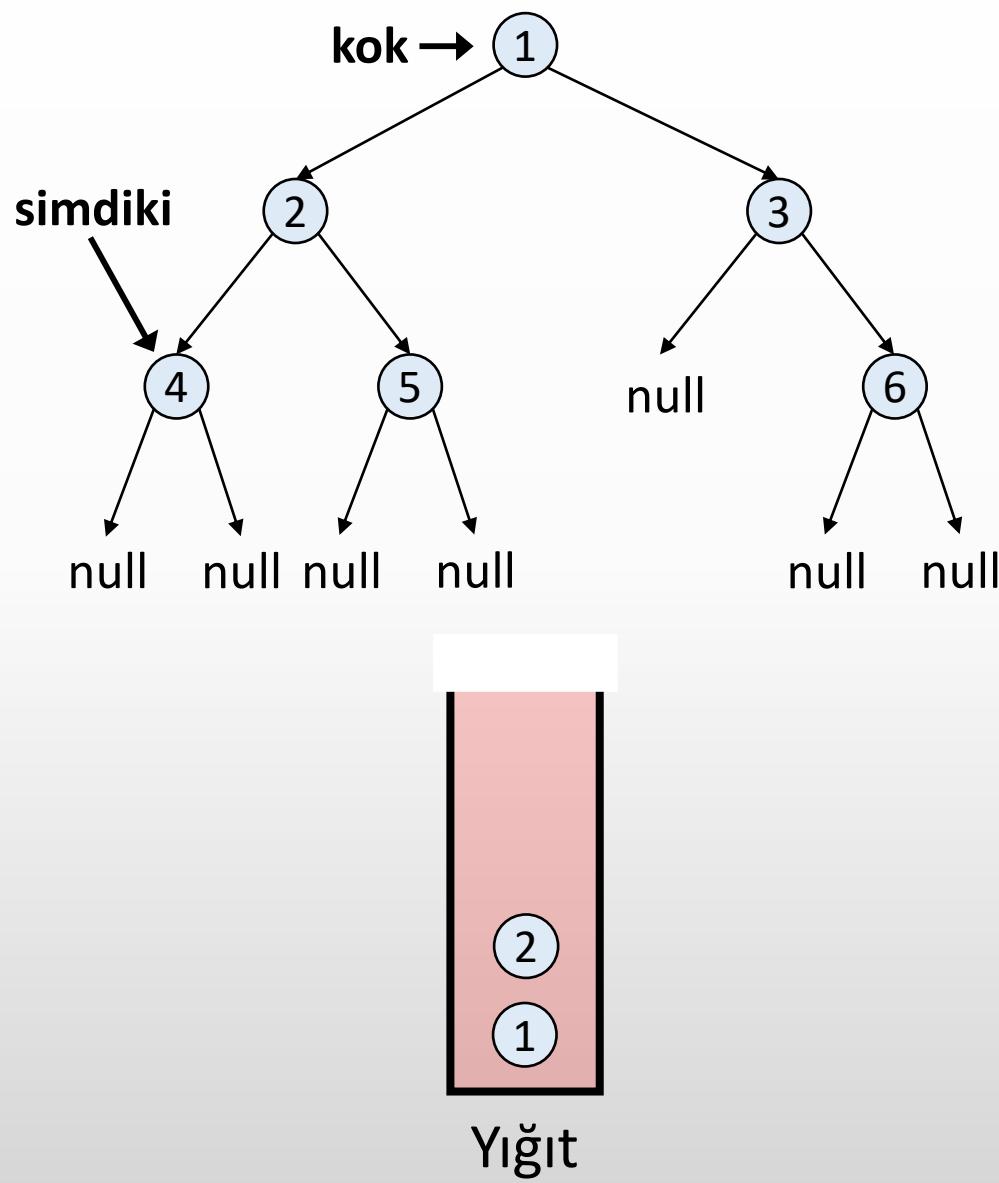
**Çıktı:**

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 + " ");  
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 **while**(!yigit.isEmpty() &&  
 gecici == yigit.peek().sag) {  
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 System.out.print(gecici.veri + " ");  
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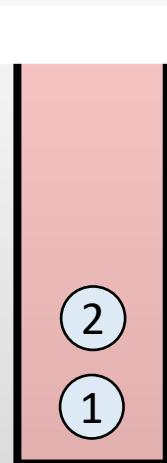
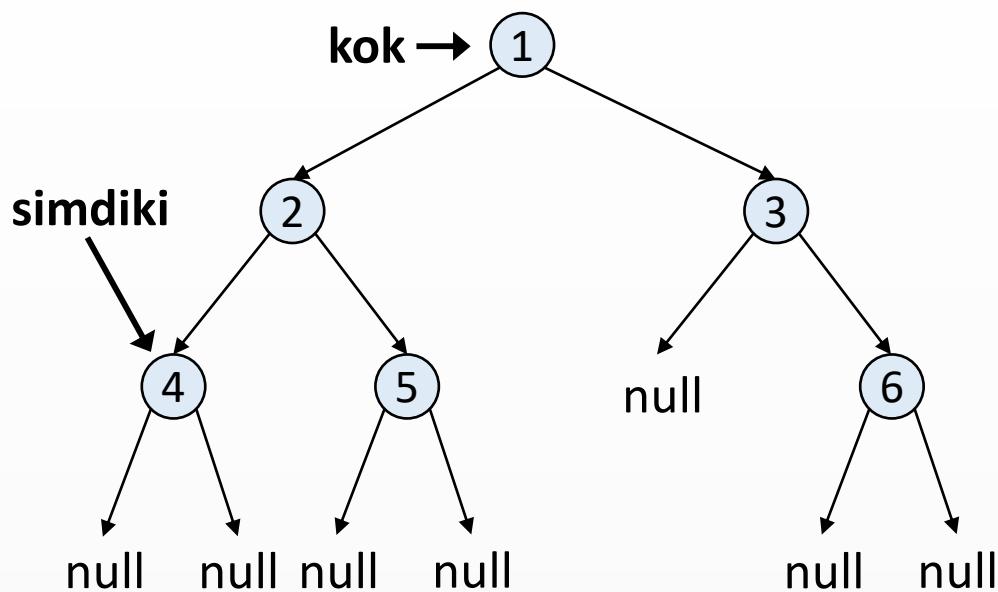
Çıktı:

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        }
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}
```



Çıktı:

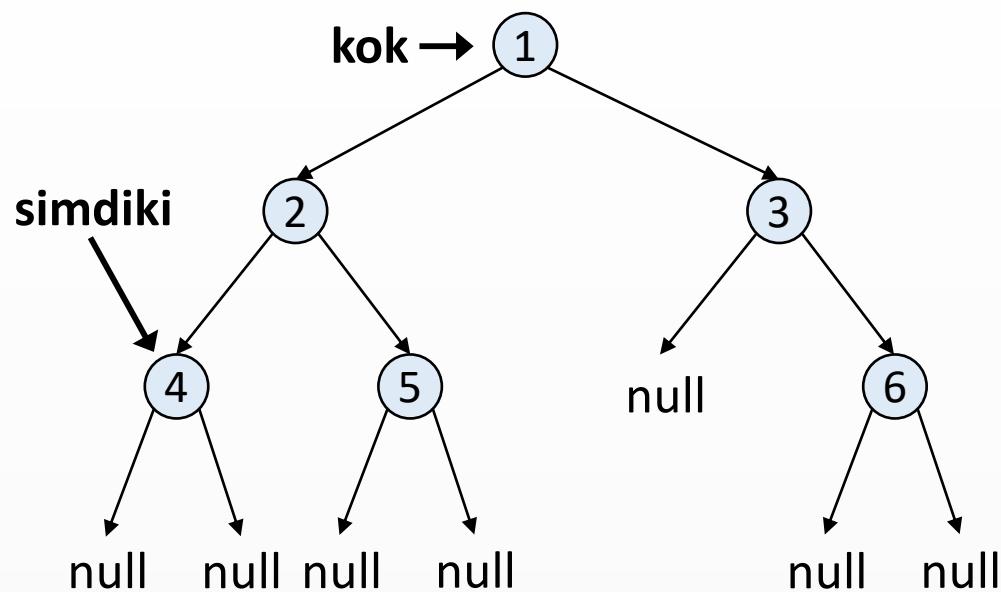
```
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        }
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Yığıt

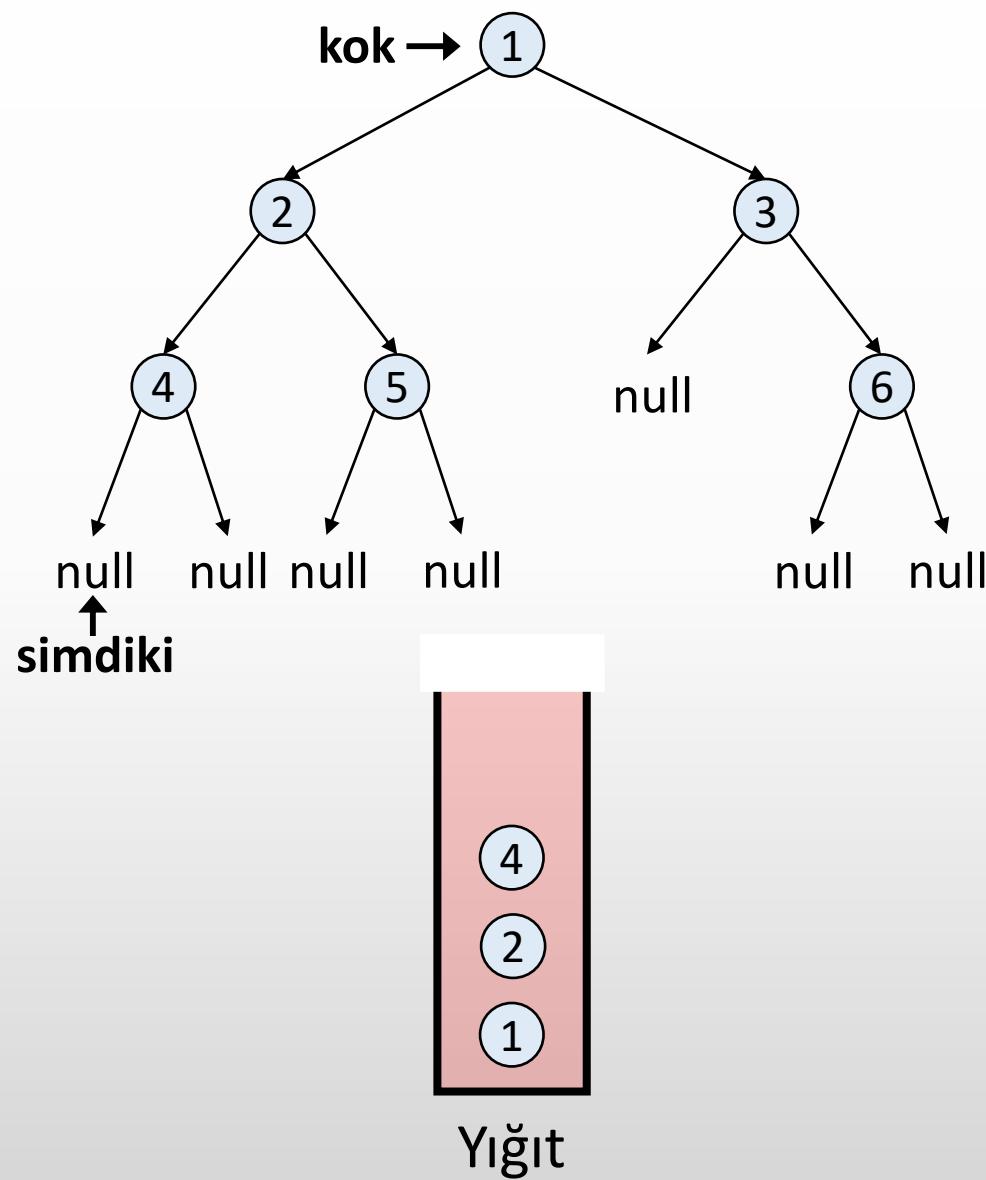
Çıktı:

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AgacDugumu simdiki = kok;  
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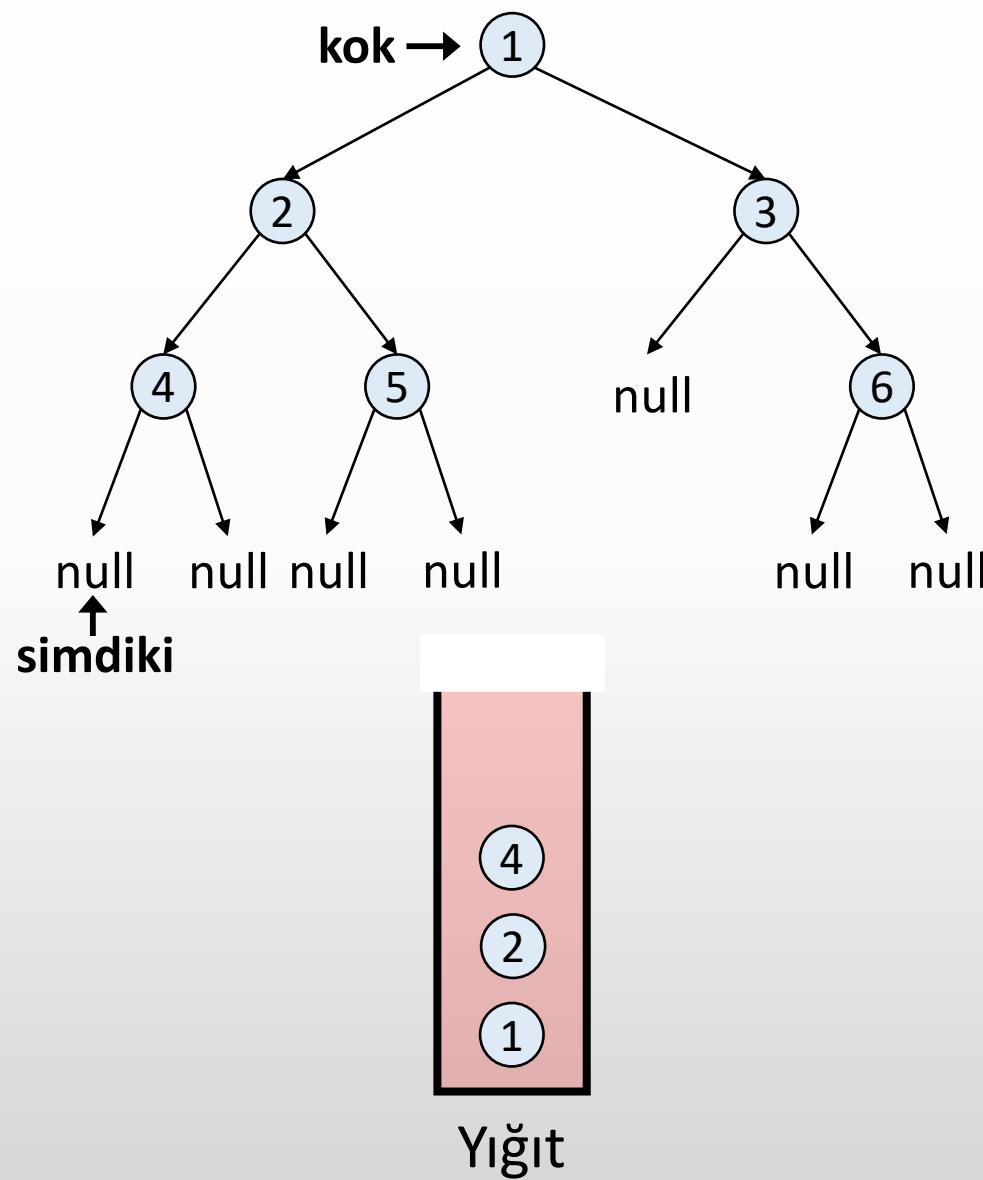
Çıktı:

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



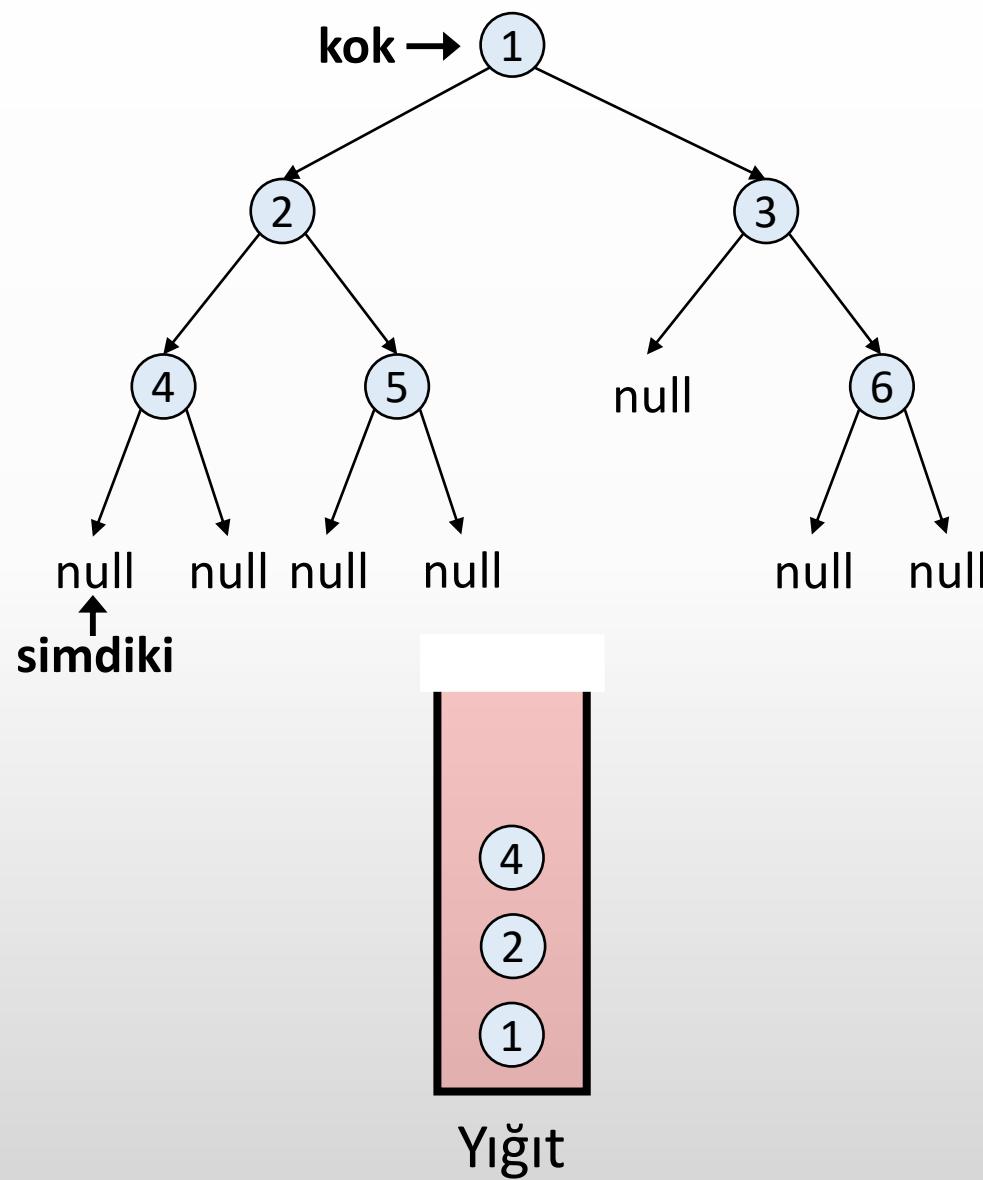
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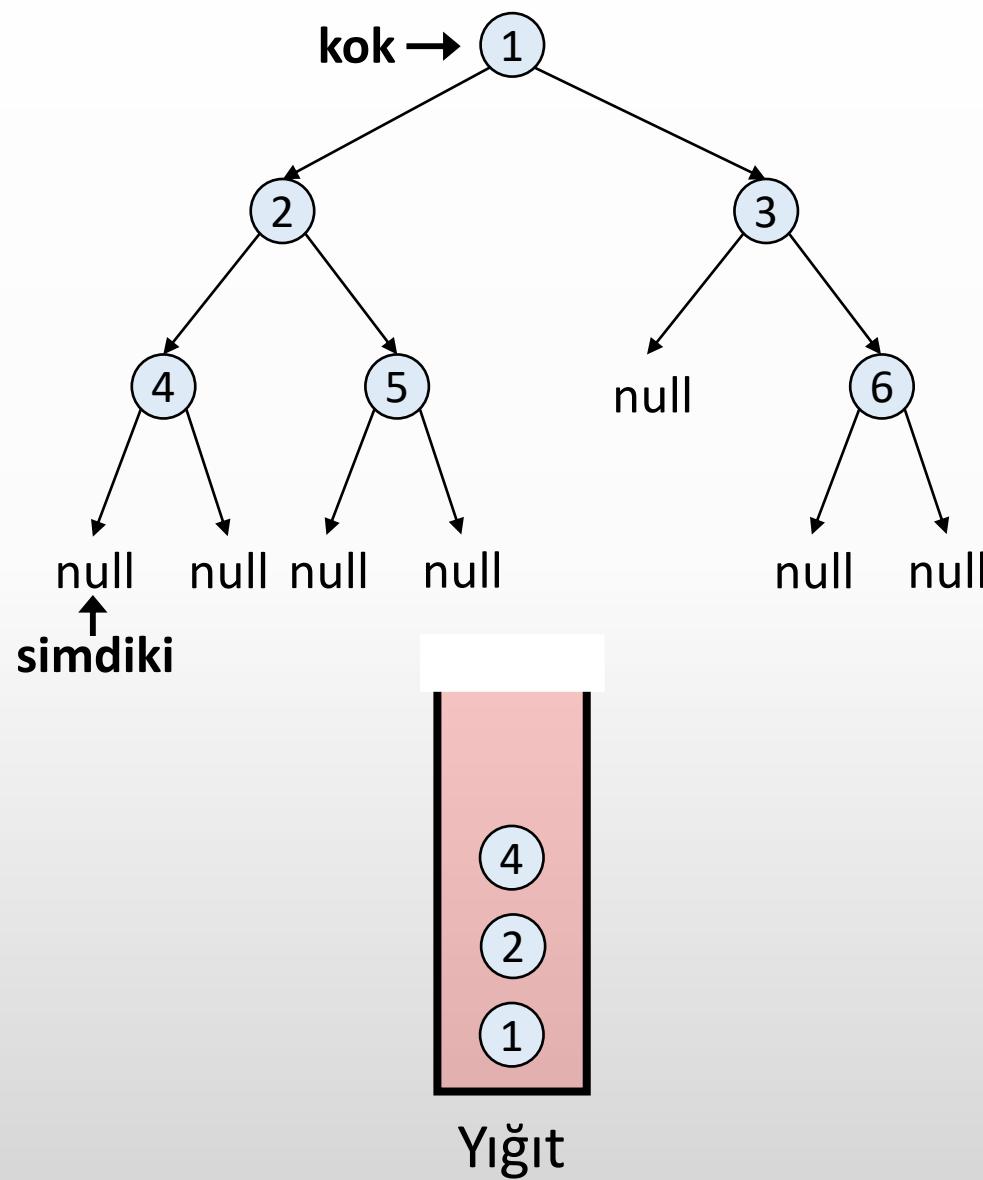
Çıktı:

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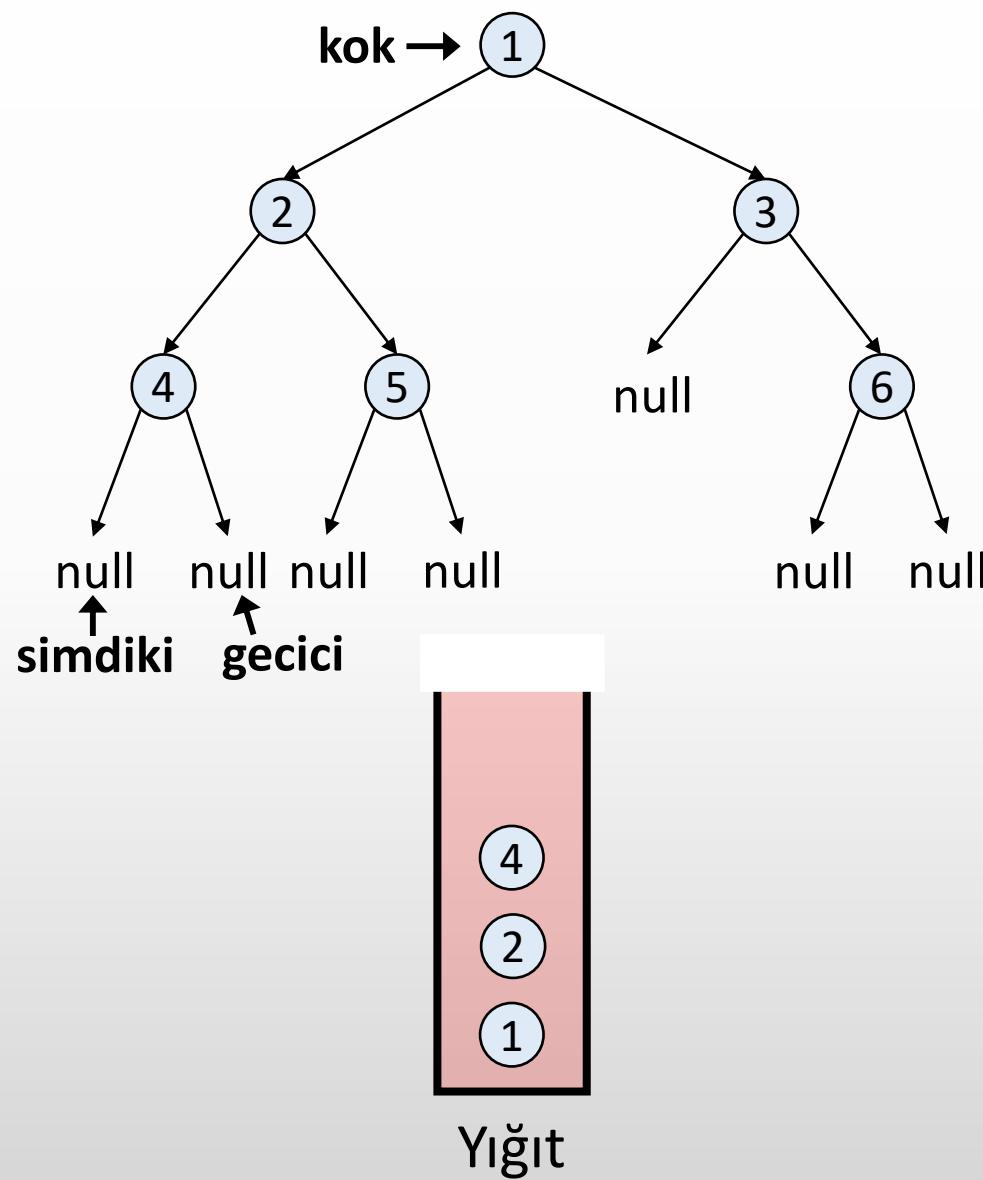
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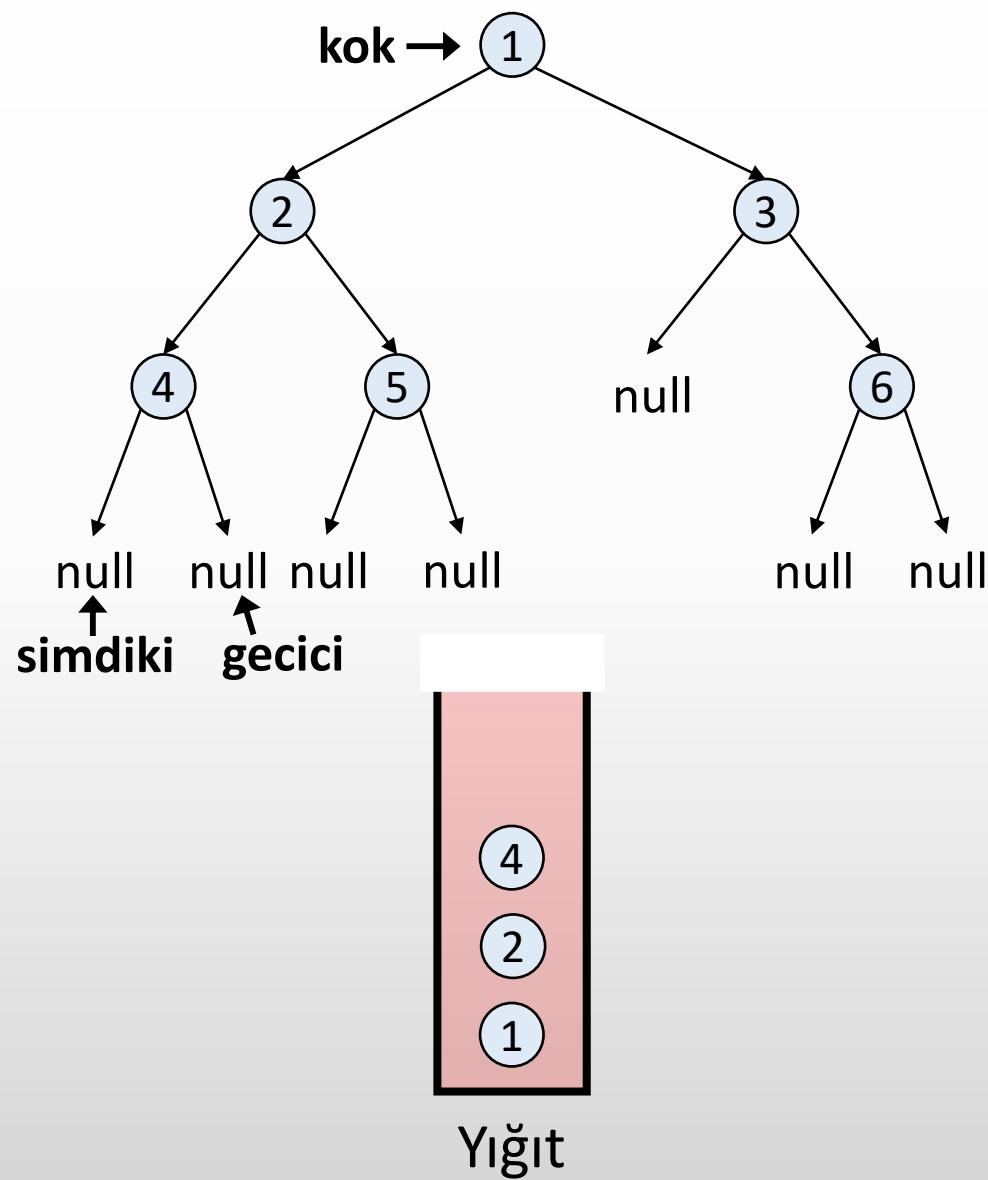
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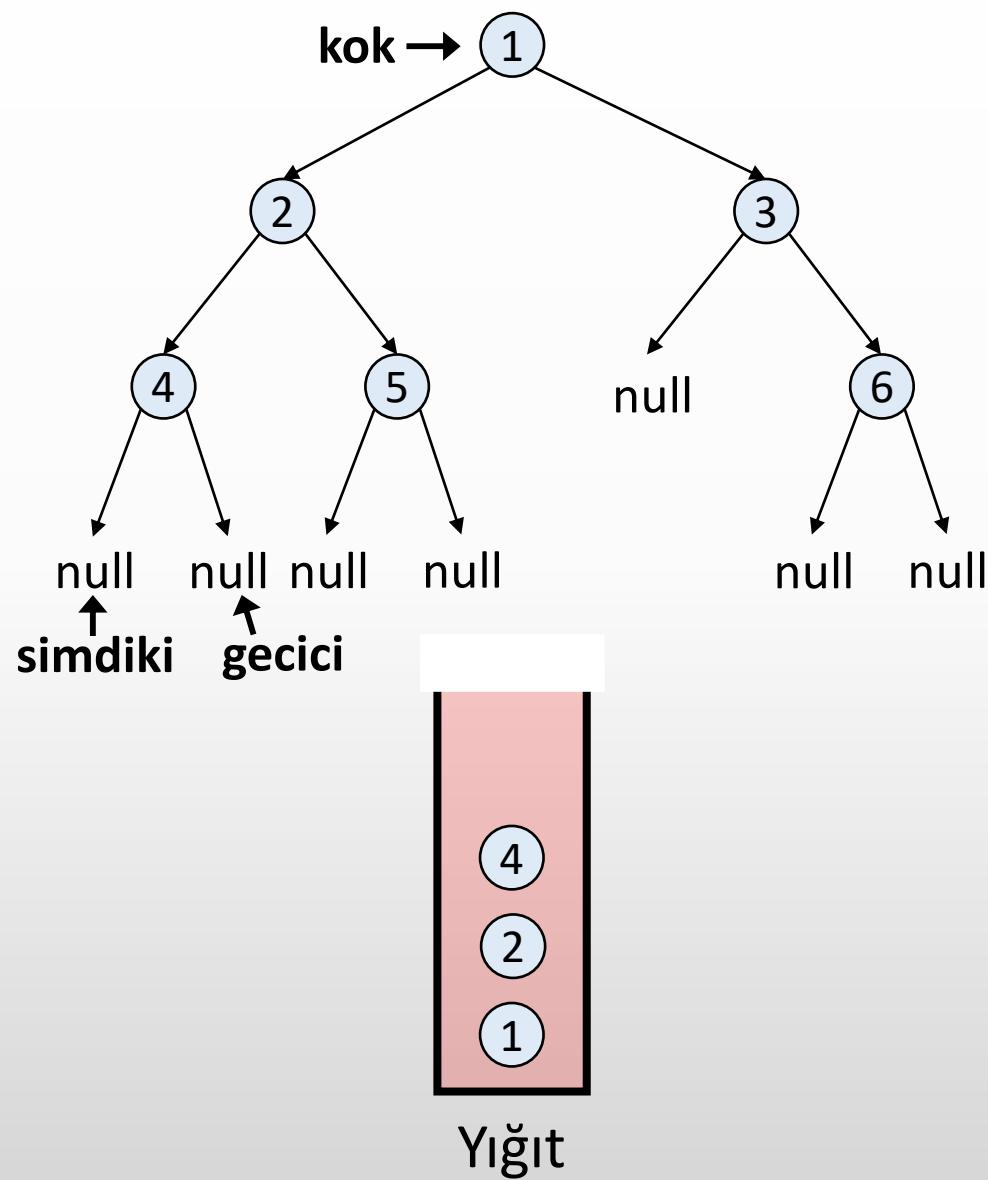
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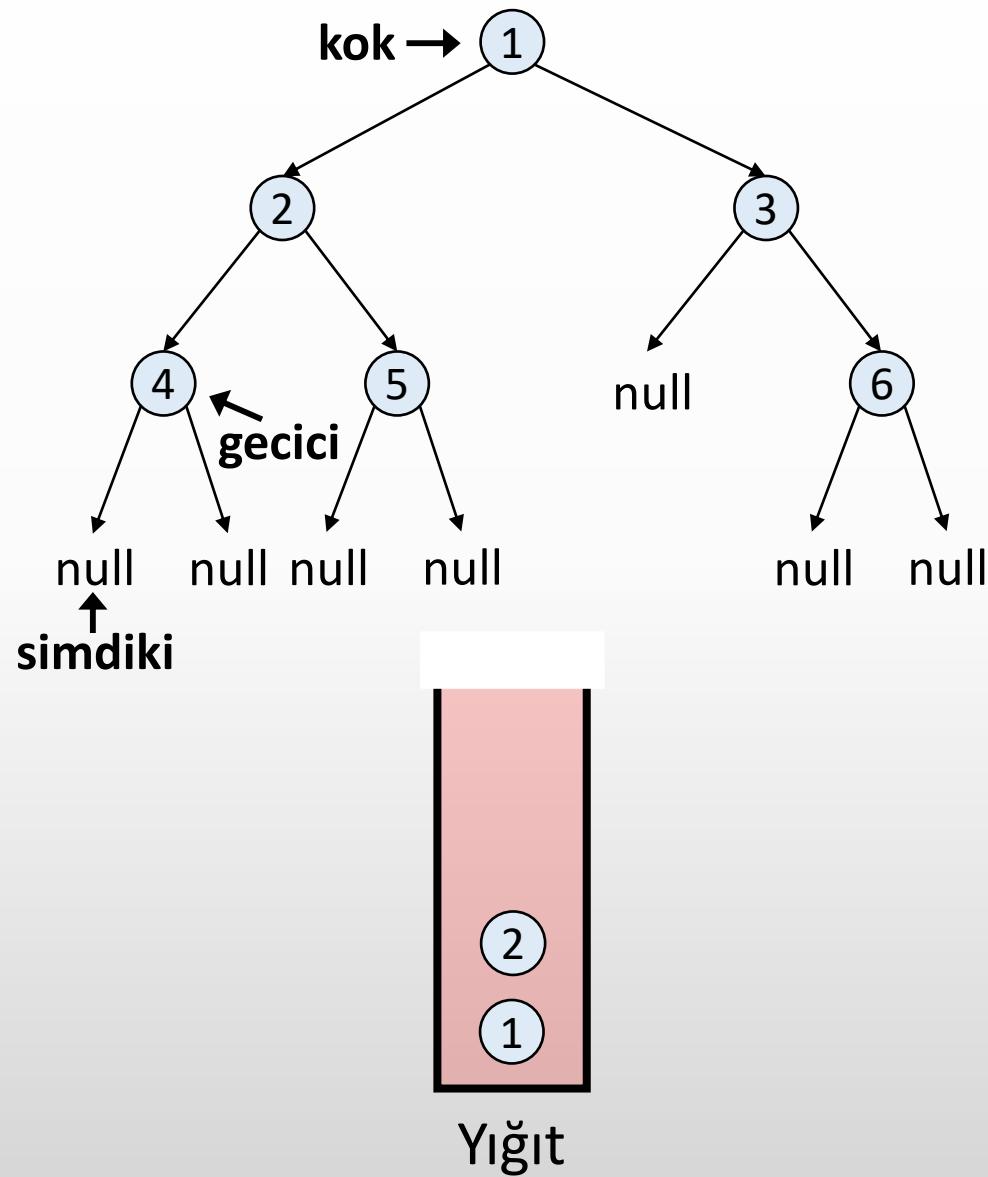
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        else {
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        }
    }
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```



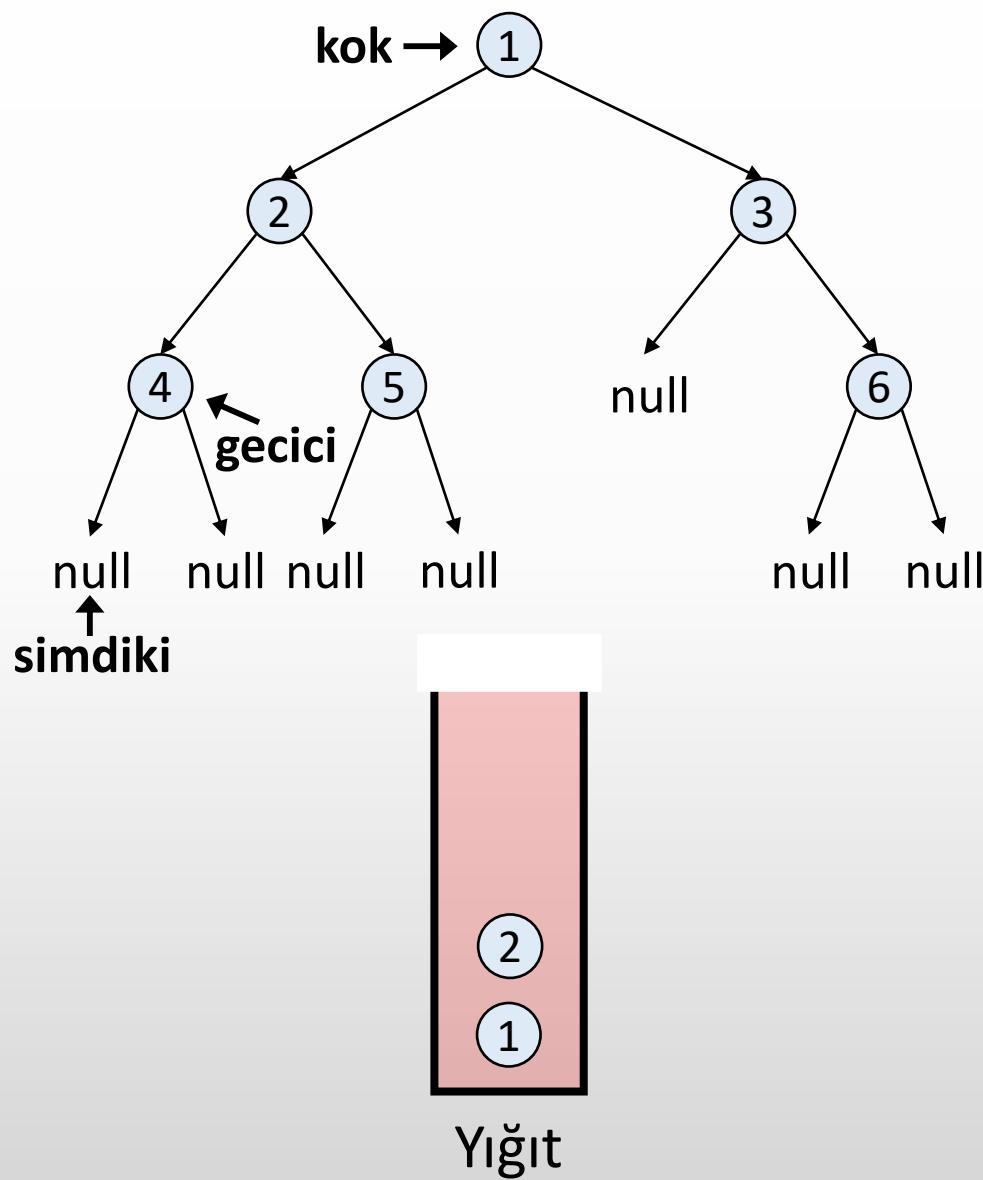
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        }
    }
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```



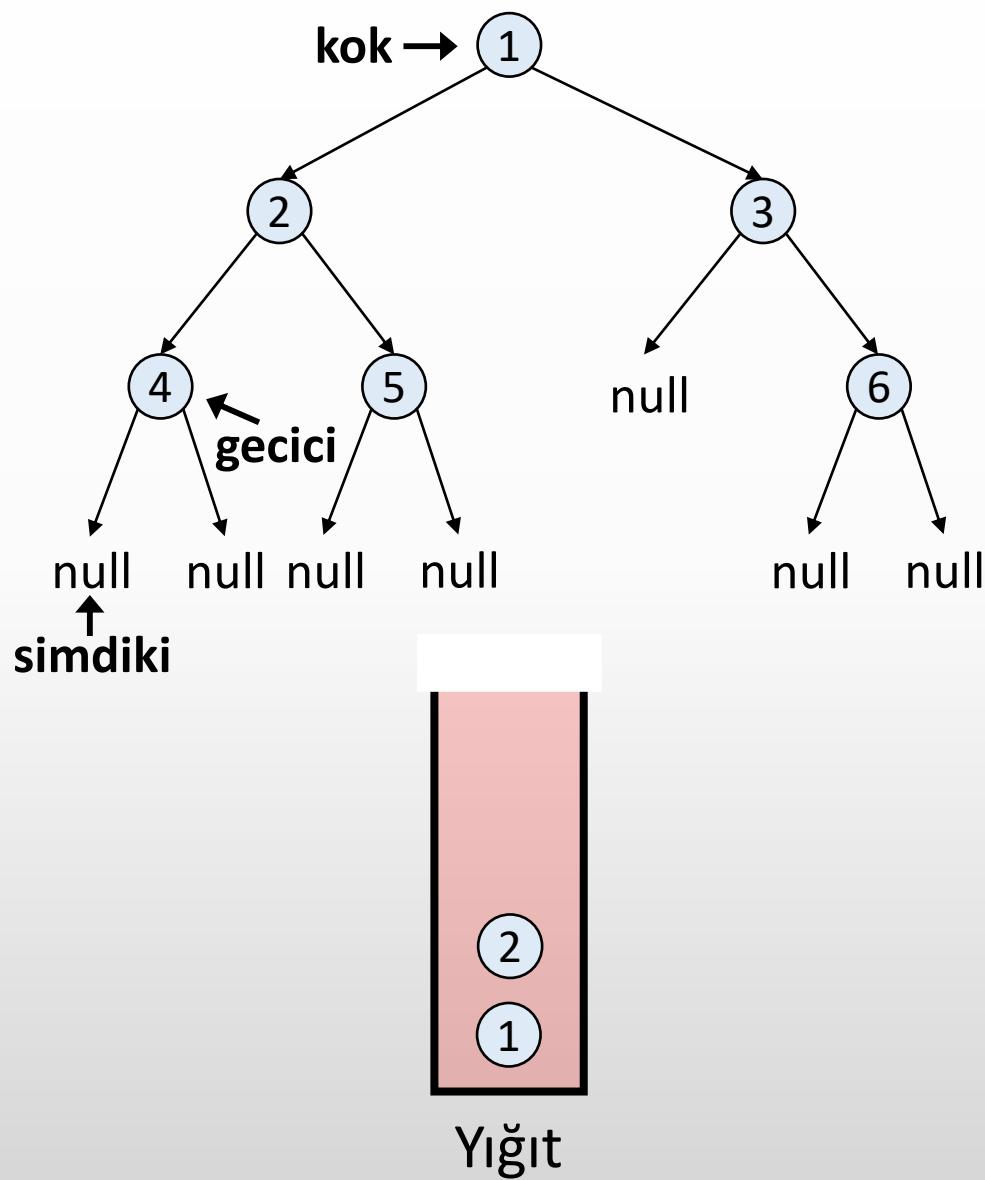
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            System.out.print(gecici.veri + " ");
            while(!yigit.isEmpty() &&
                  gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
       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



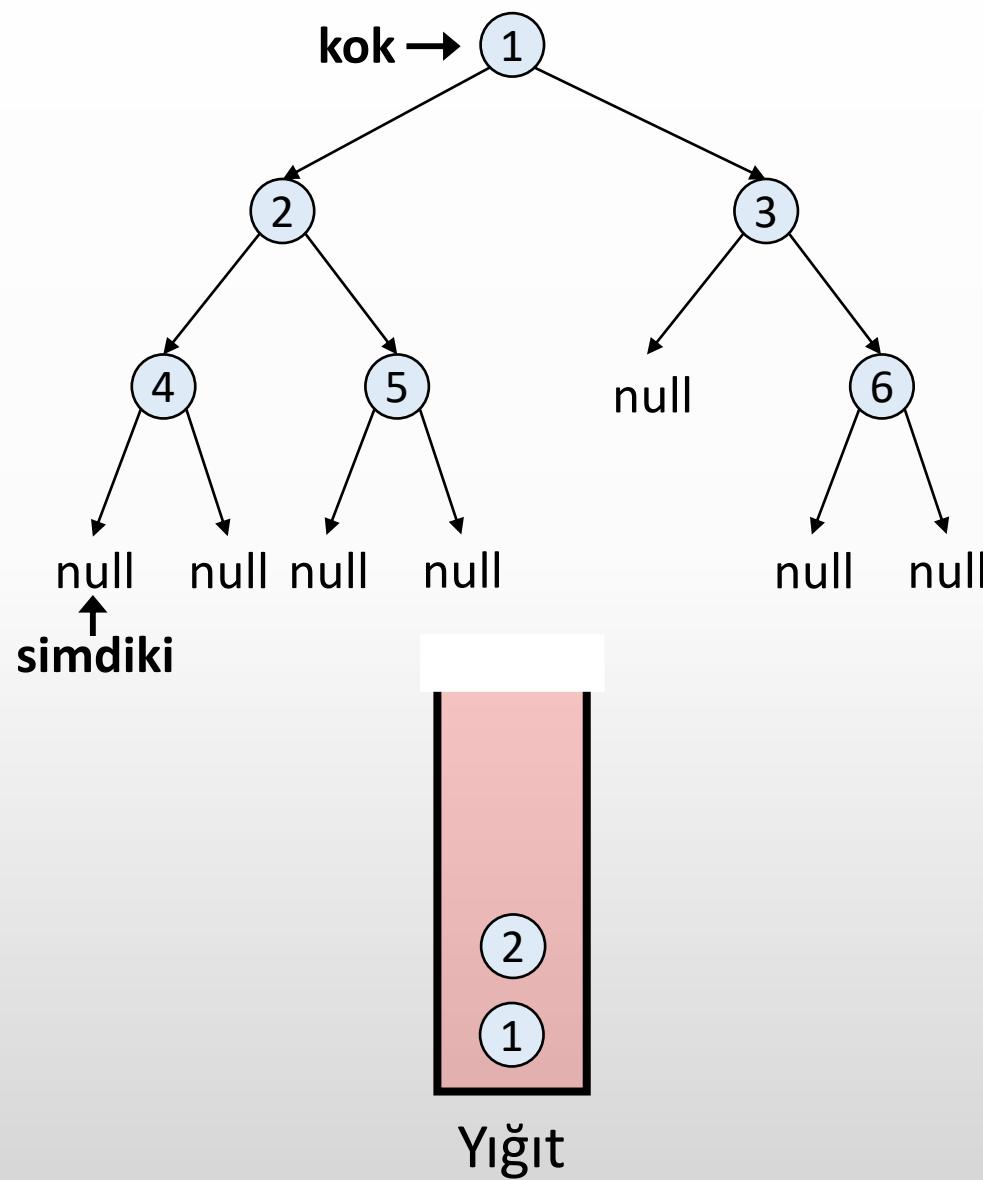
Çıktı: 4

```
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 + " ");
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                  gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
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        }
        else {
            simdiki = gecici;
        }
    }
}
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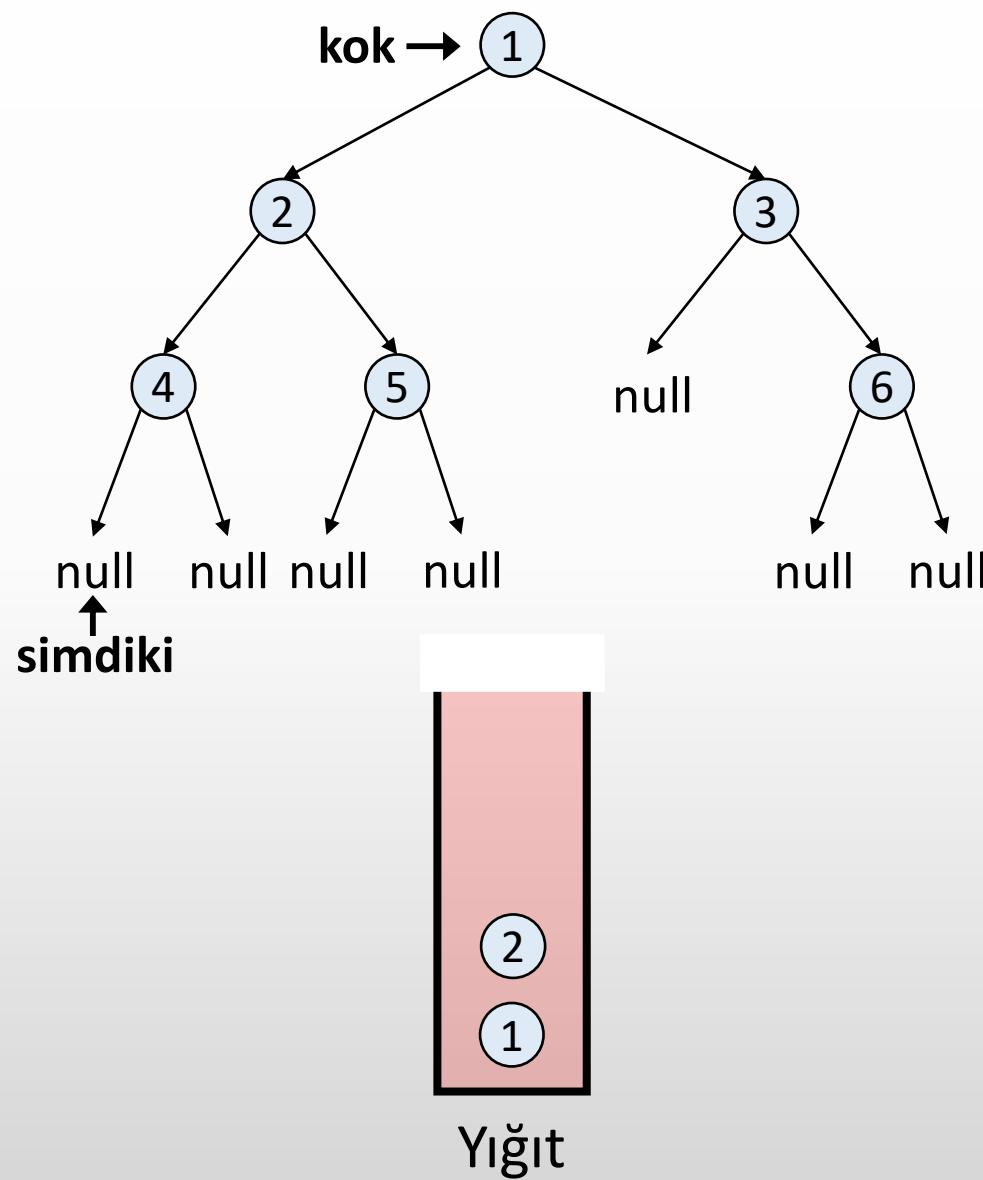
Çıktı: 4

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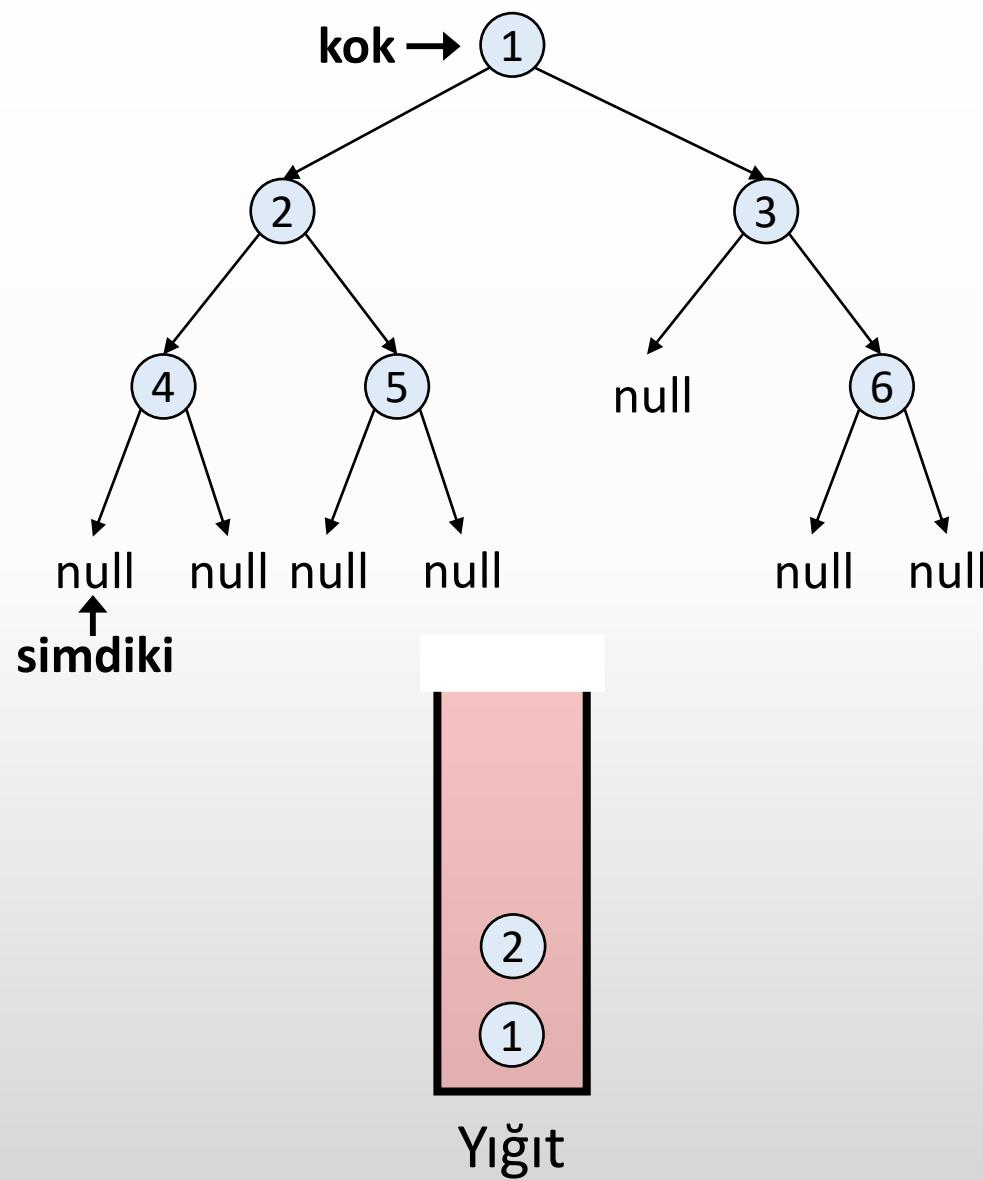
Çıktı: 4

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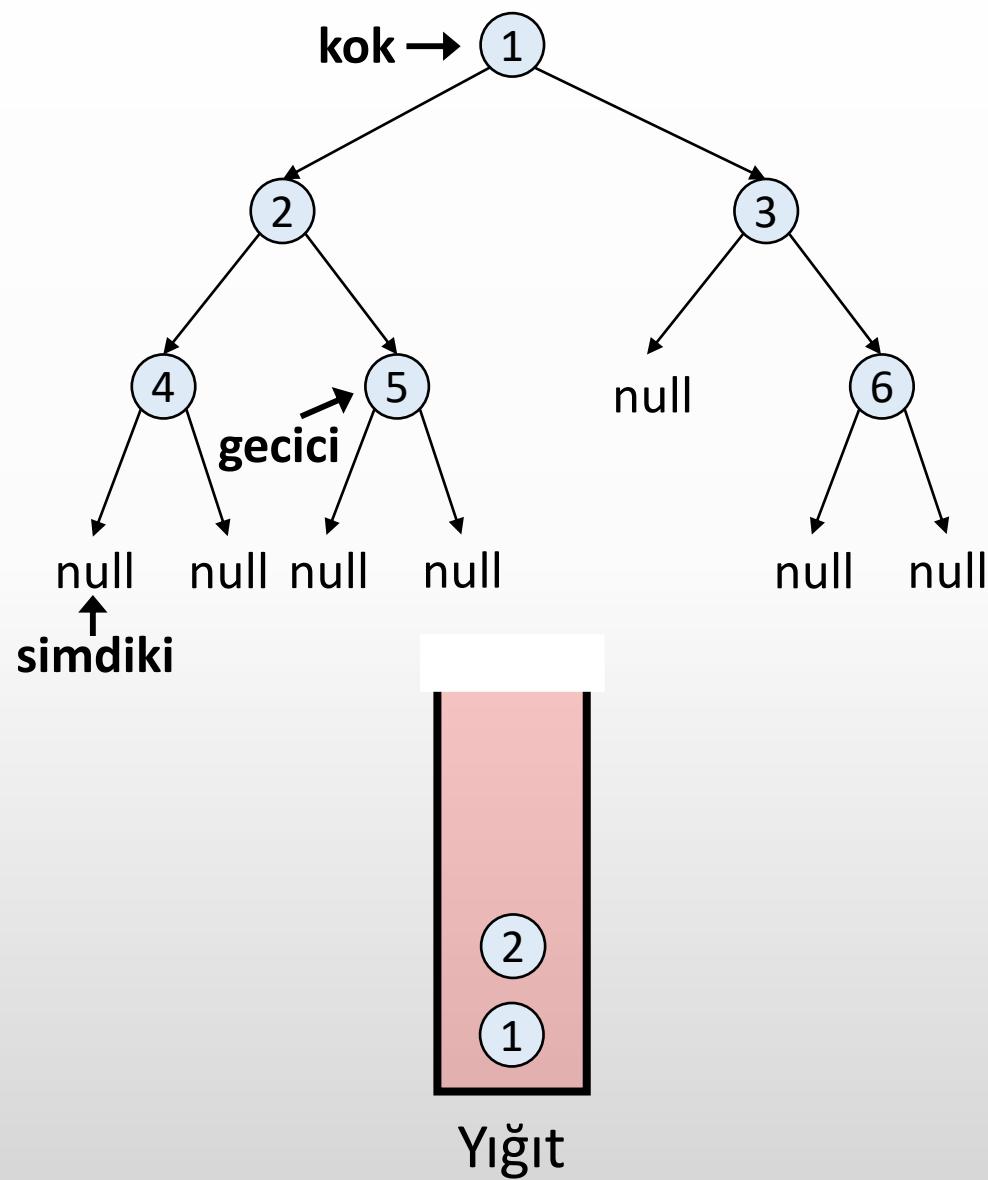
Çıktı: 4

```
AgacDugumu simdiki = kok;
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while(simdiki != null || !yigit.isEmpty()) {
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        }
        else {
            simdiki = gecici;
        }
    }
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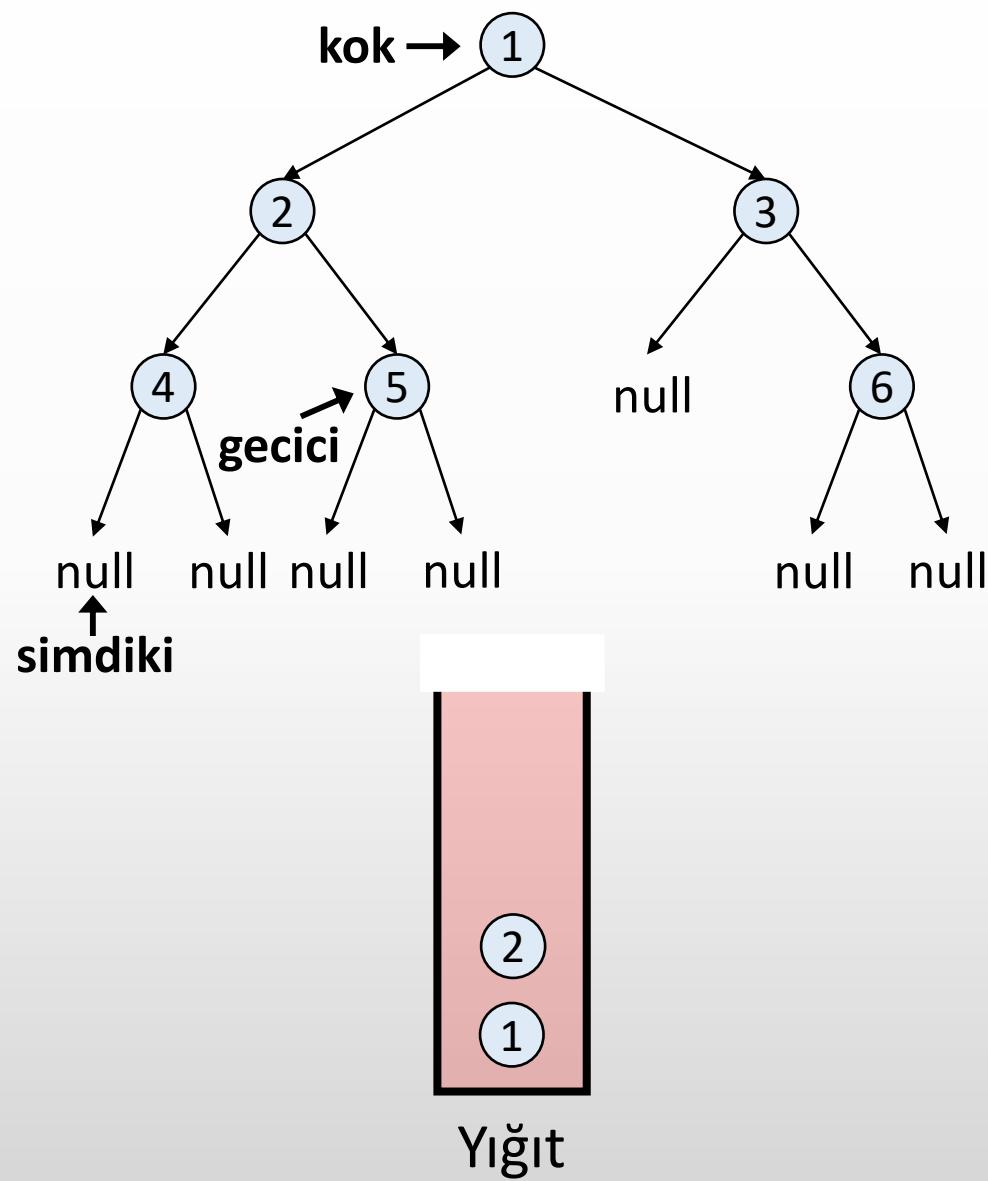
Çıktı: 4

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



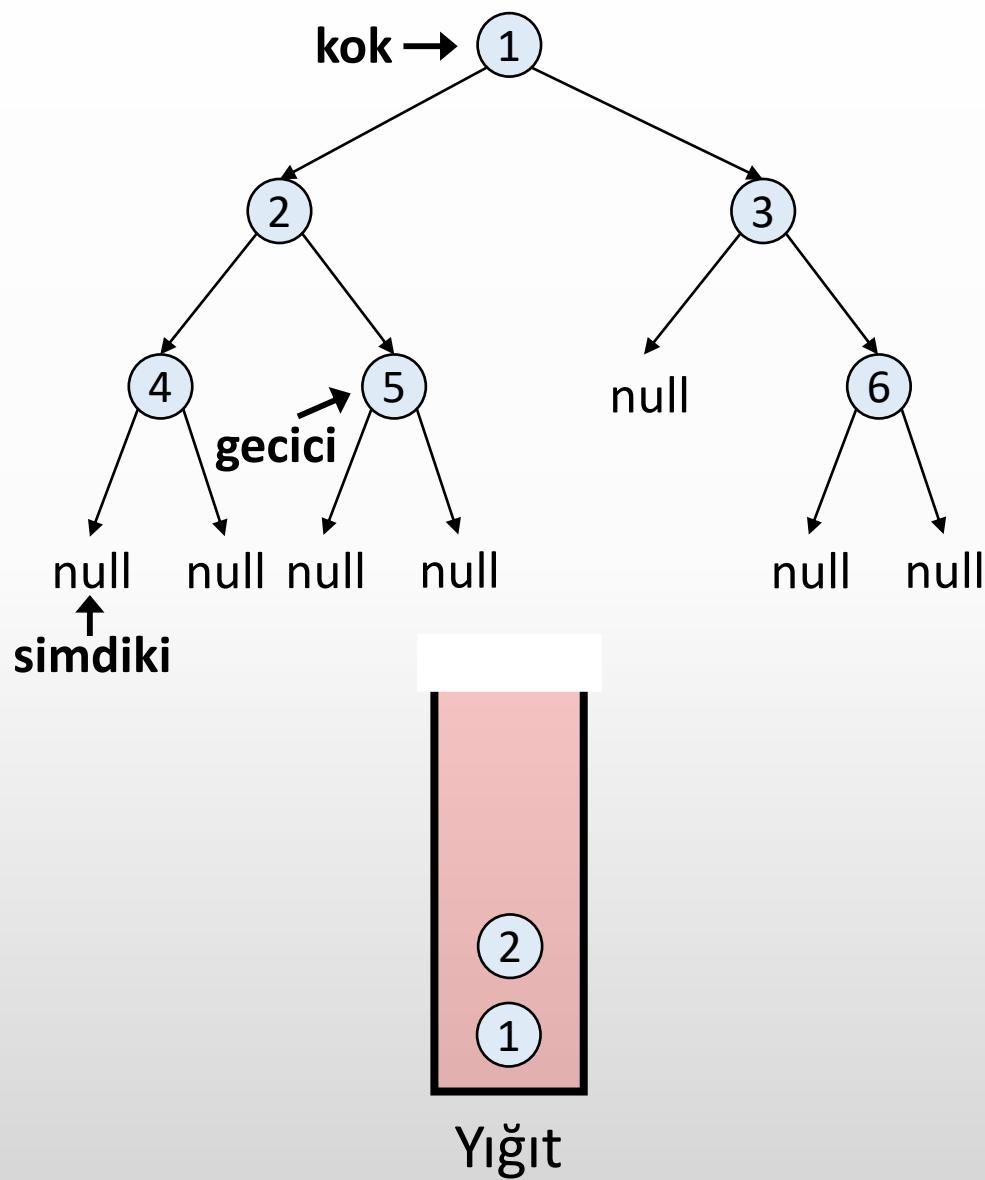
Çıktı: 4

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



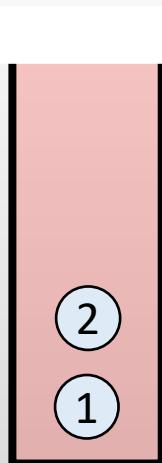
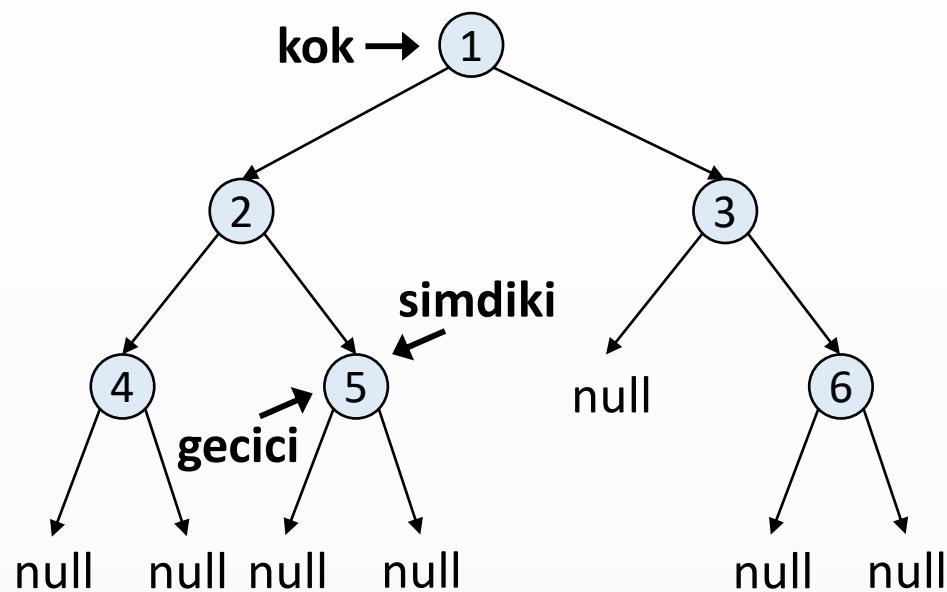
Çıktı: 4

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



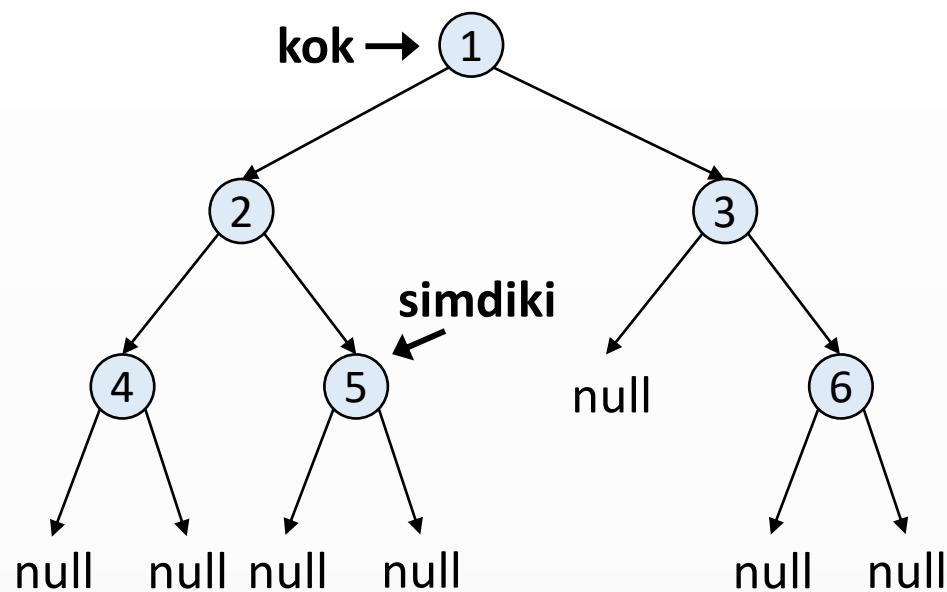
Çıktı: 4

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



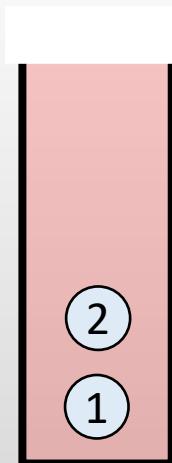
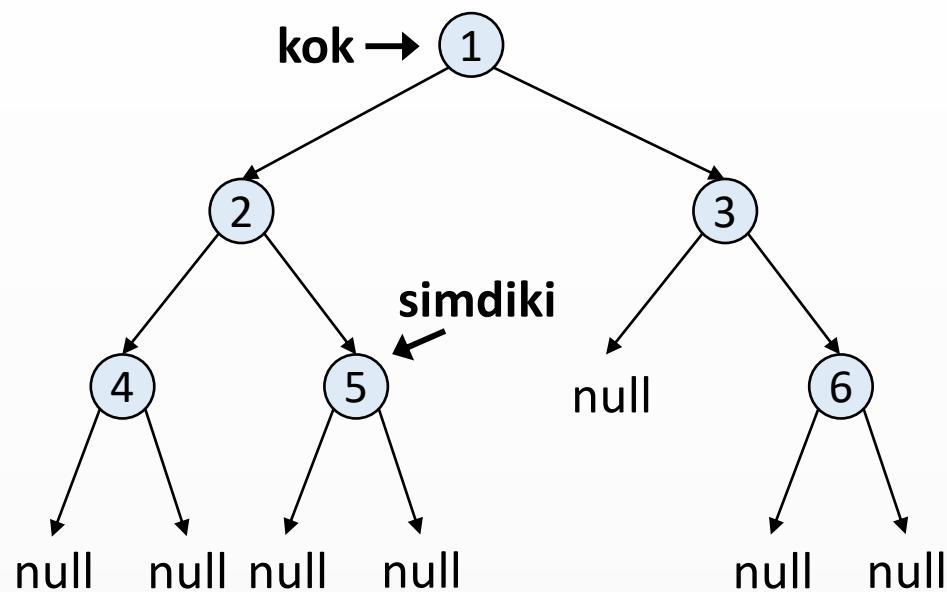
Çıktı: 4

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



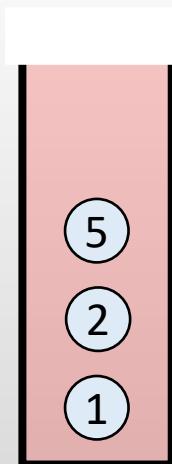
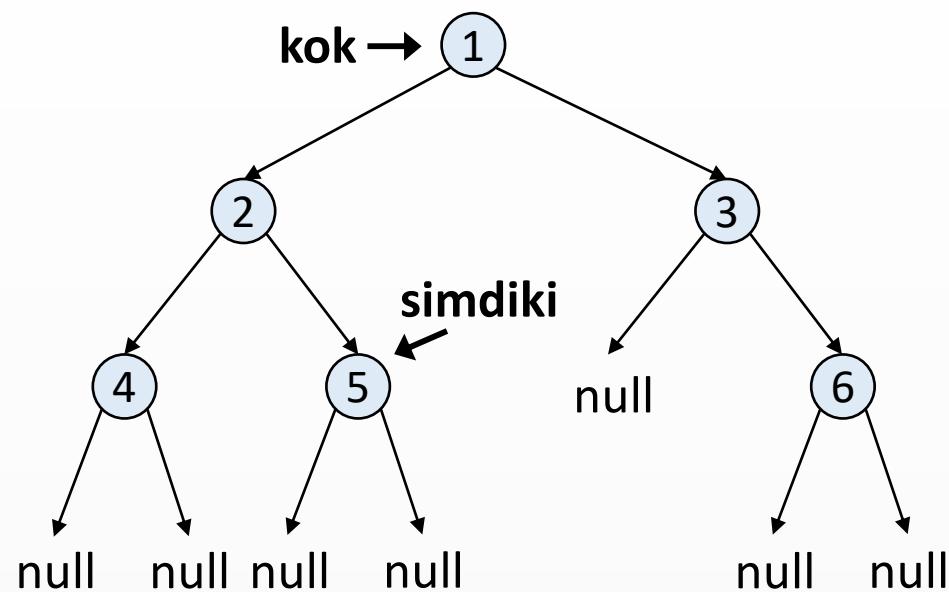
Çıktı: 4

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



**Çıktı: 4**

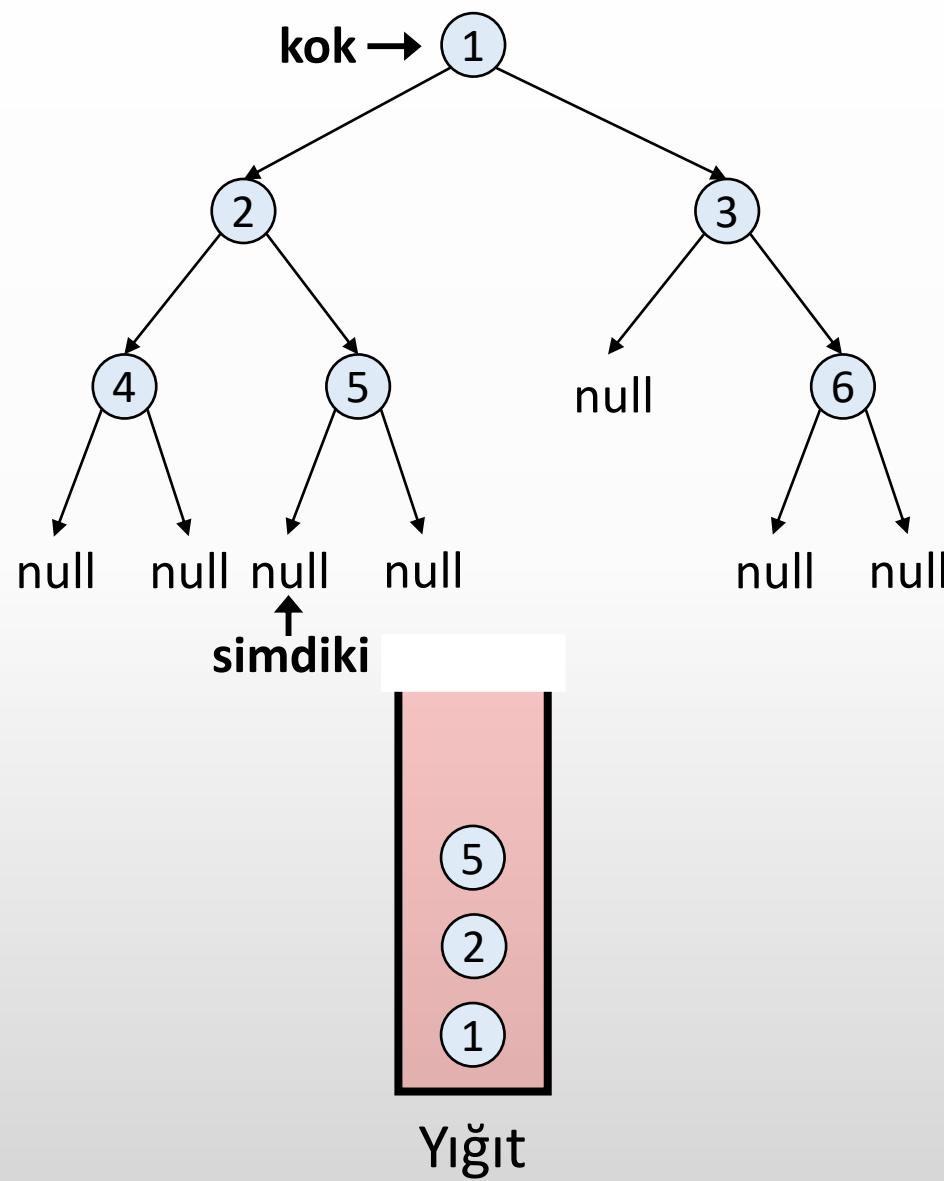
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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        AgacDugumu gecici = yigit.peek().sag;
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      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



Yığıt

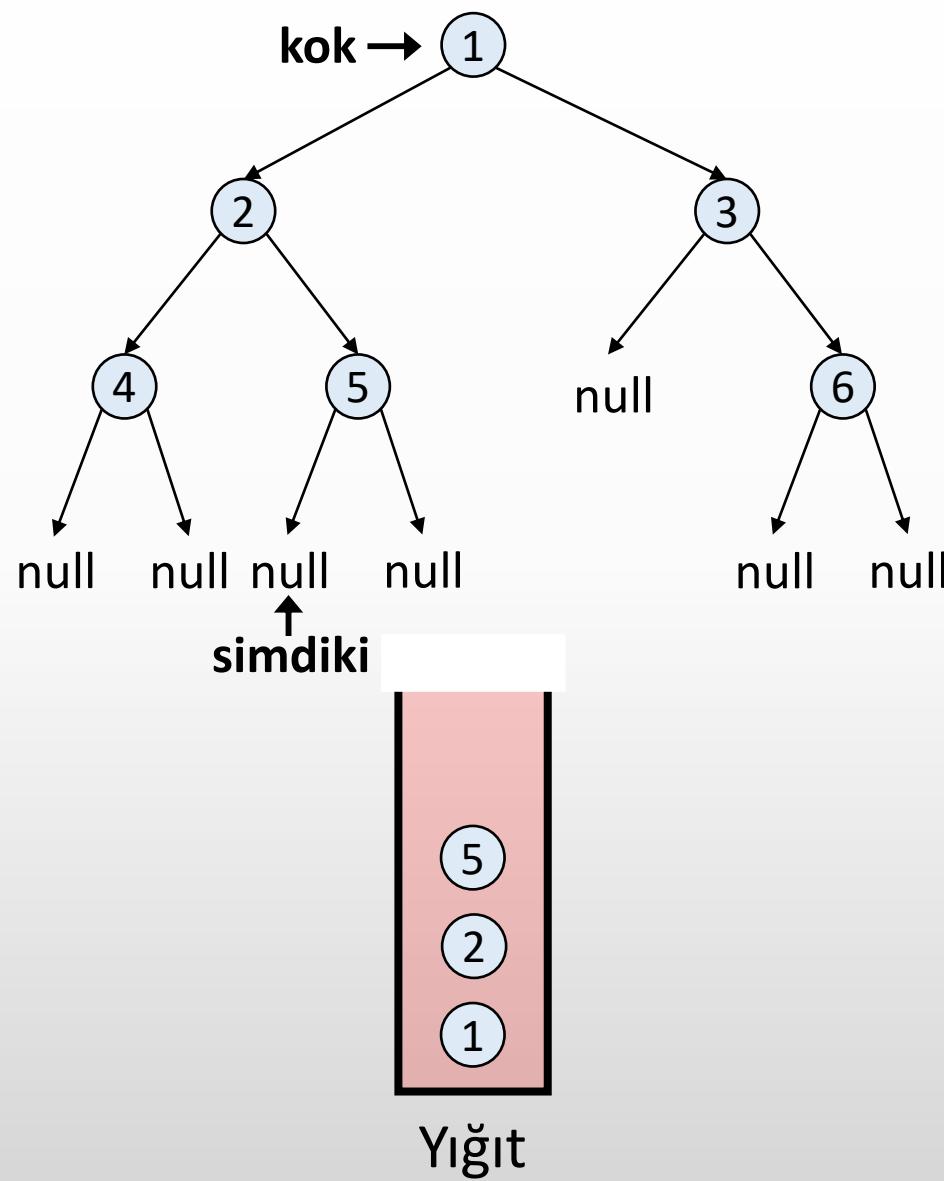
Çıktı: 4

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



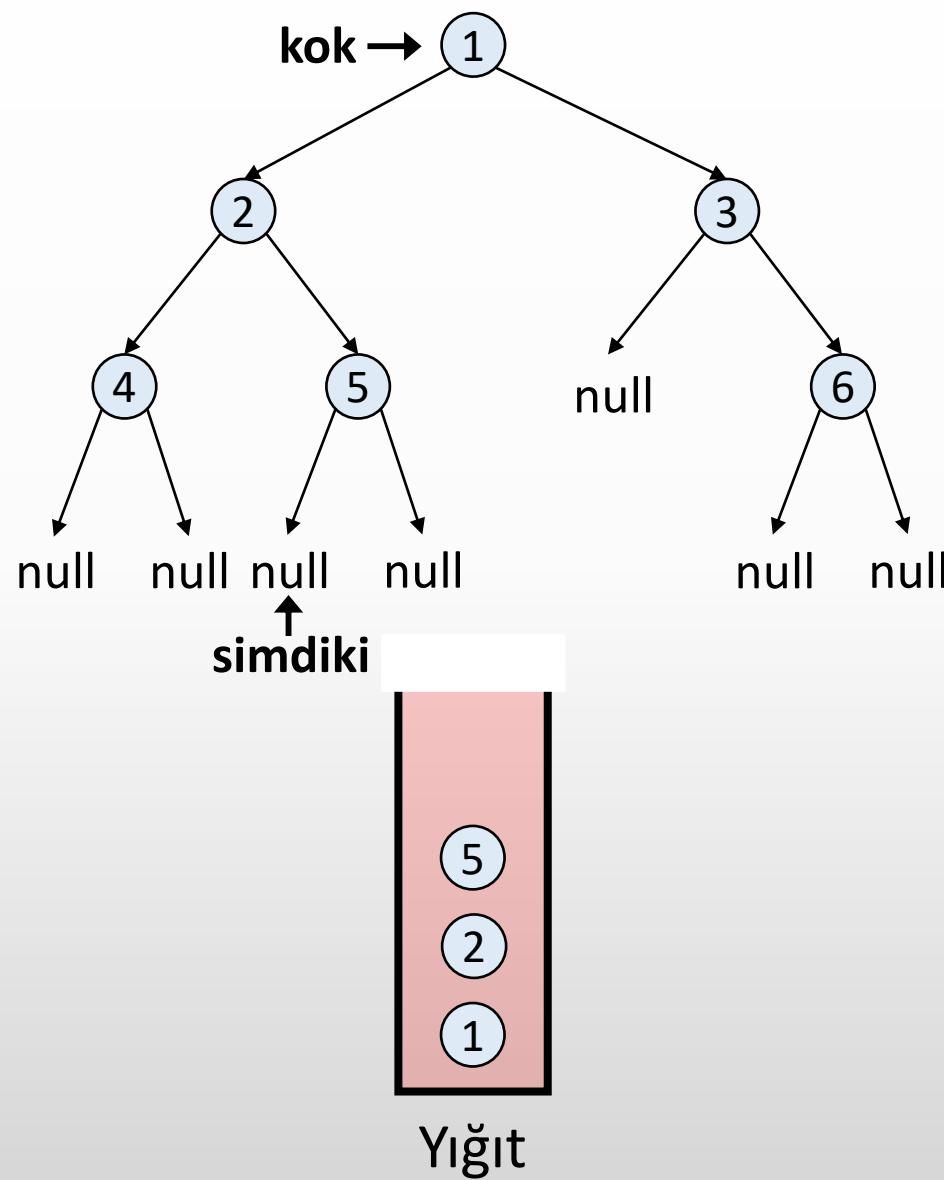
Çıktı: 4

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



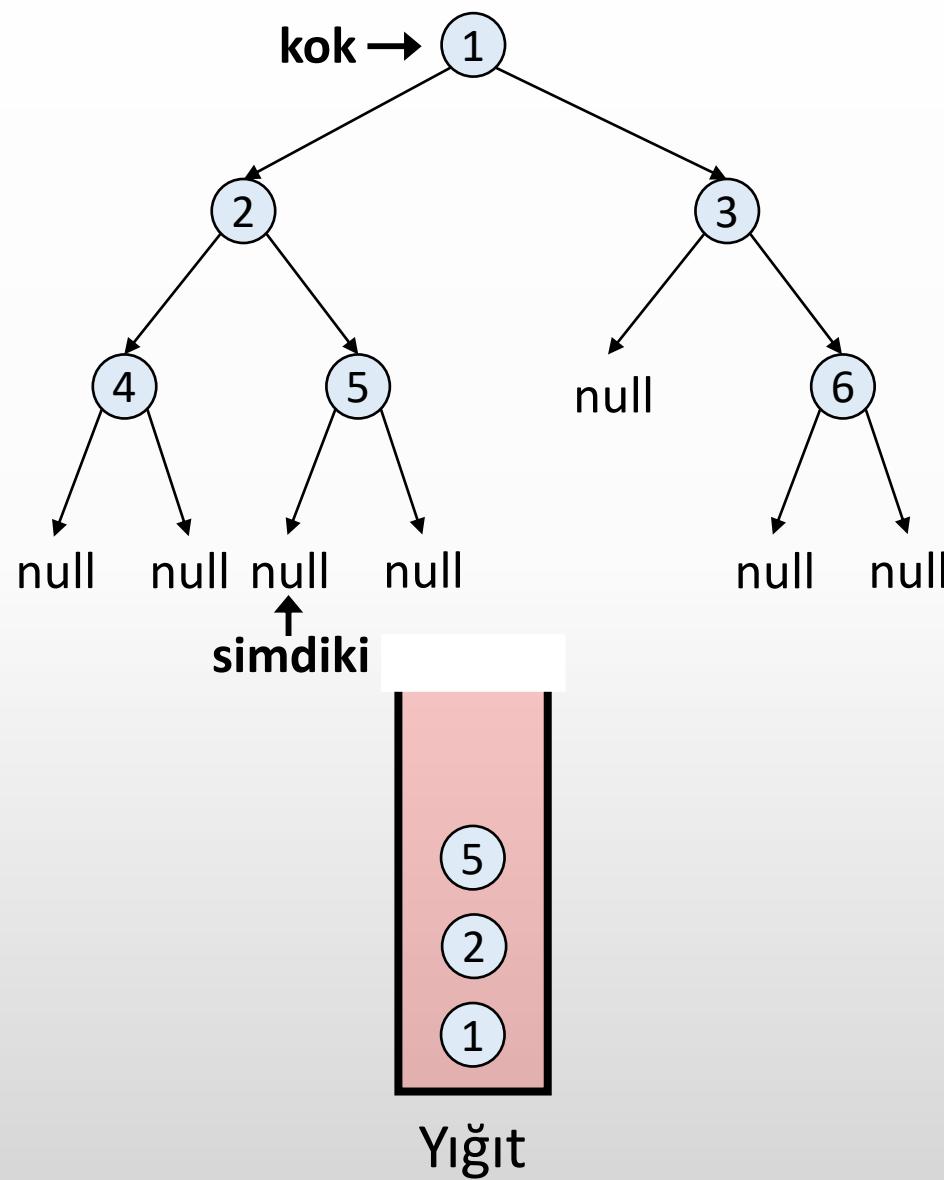
Çıktı: 4

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AgacDugumu simdiki = kok;  
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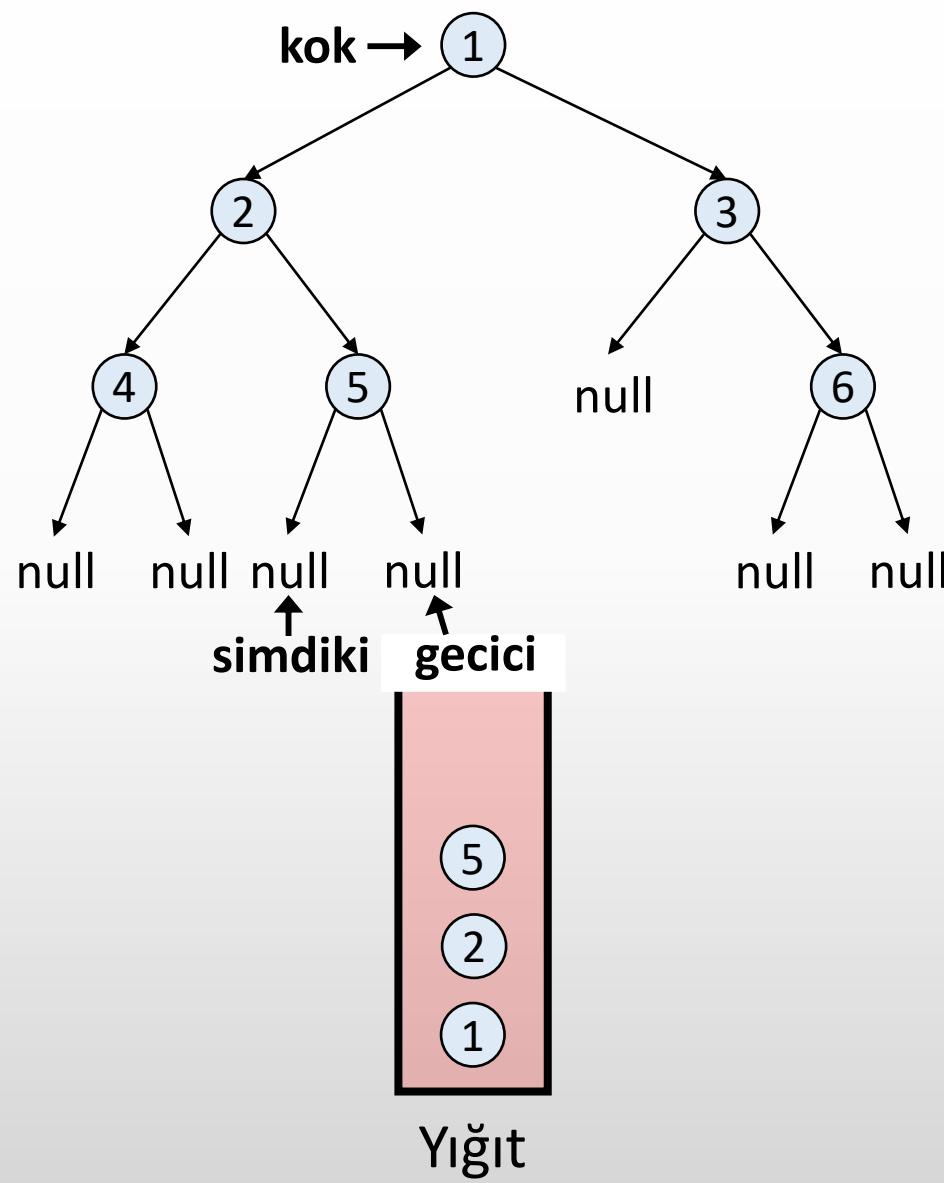
Çıktı: 4

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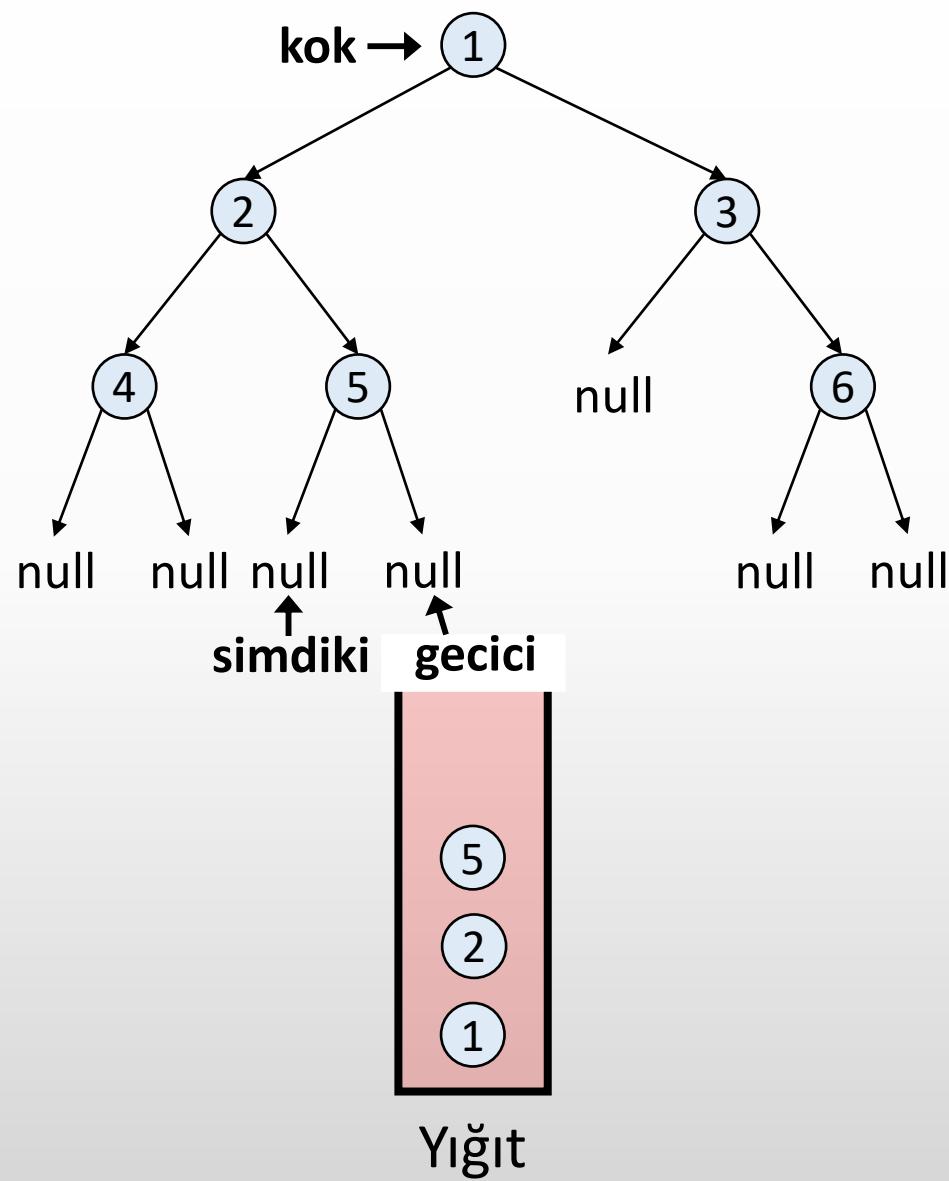
Çıktı: 4

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AgacDugumu simdiki = kok;
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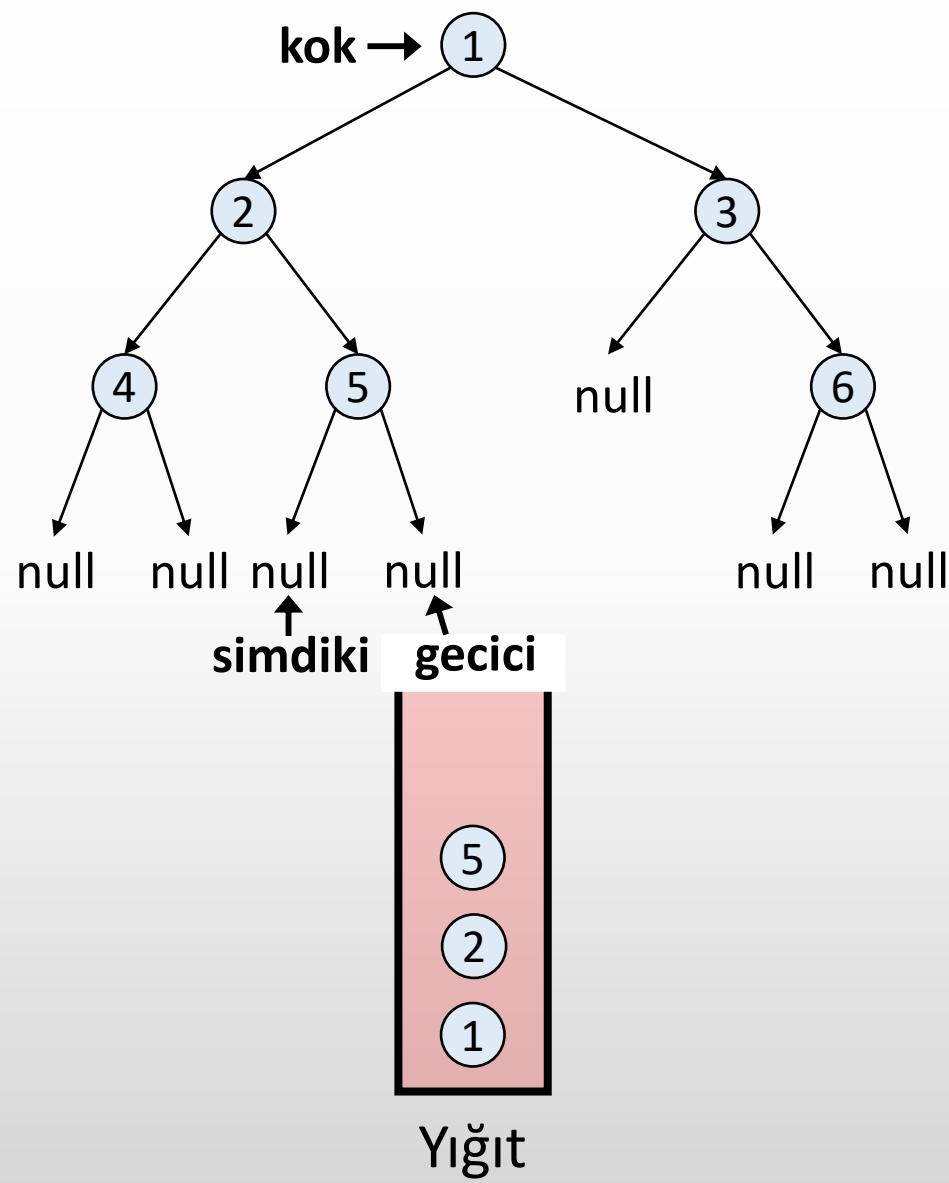
Çıktı: 4

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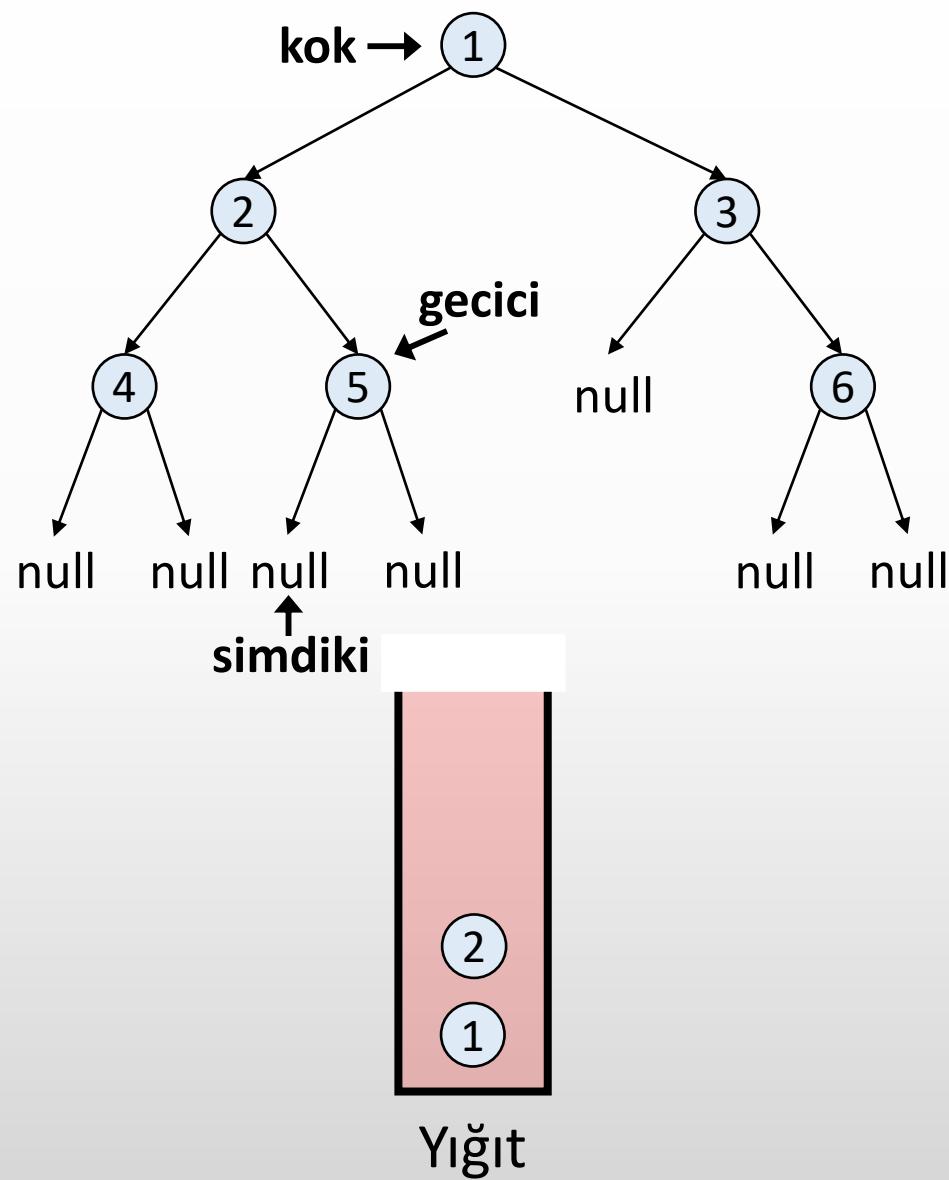
Çıktı: 4

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        else {
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    }
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```



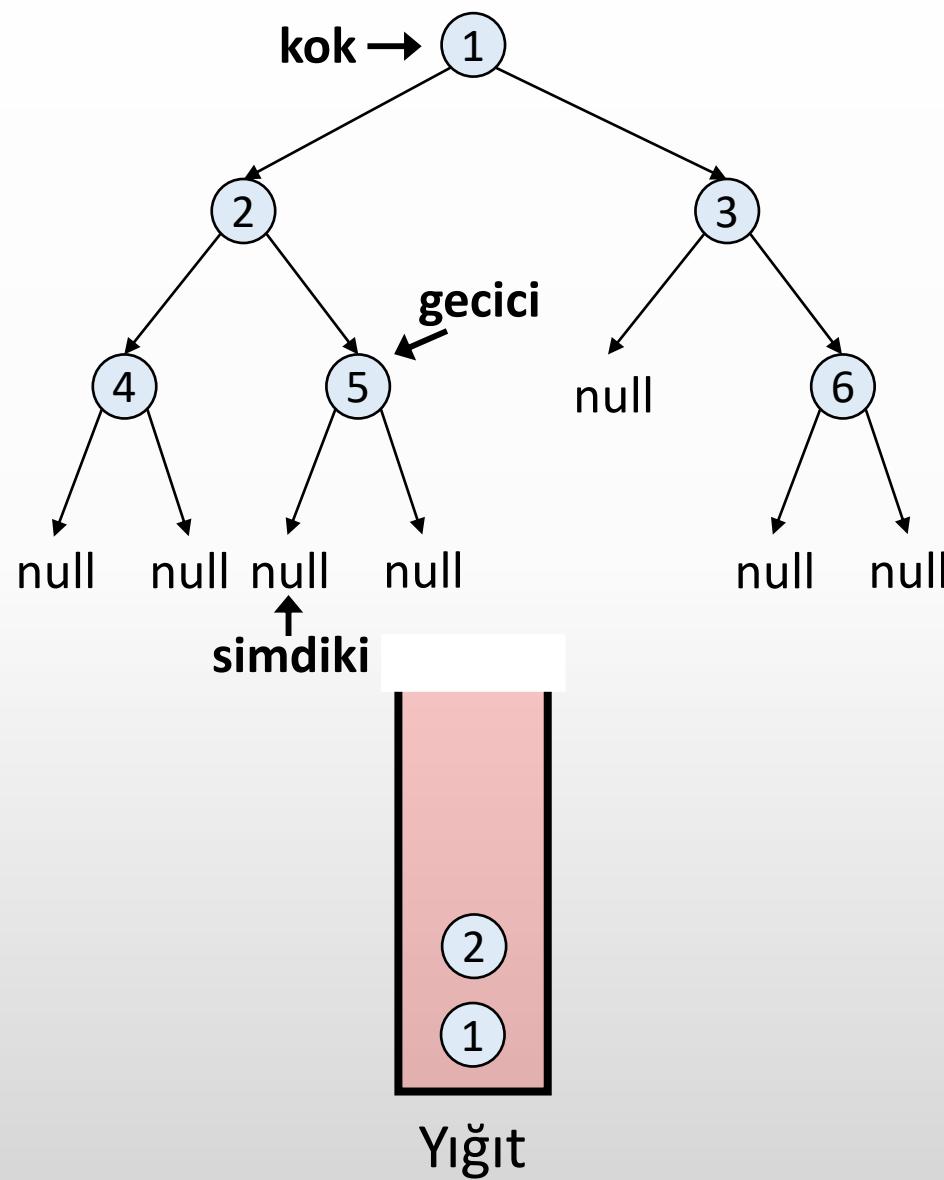
Çıktı: 4

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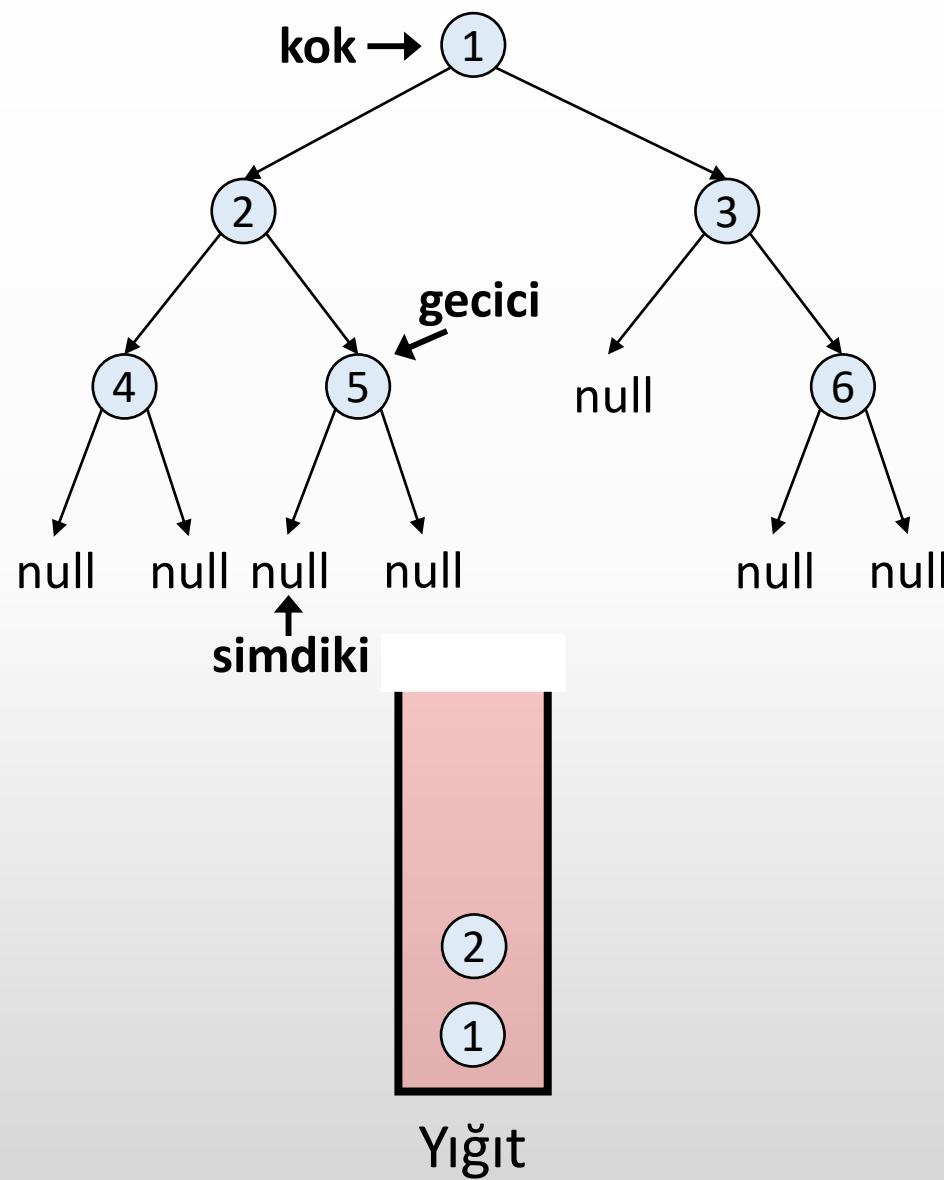
Çıktı: 4

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AgacDugumu simdiki = kok;
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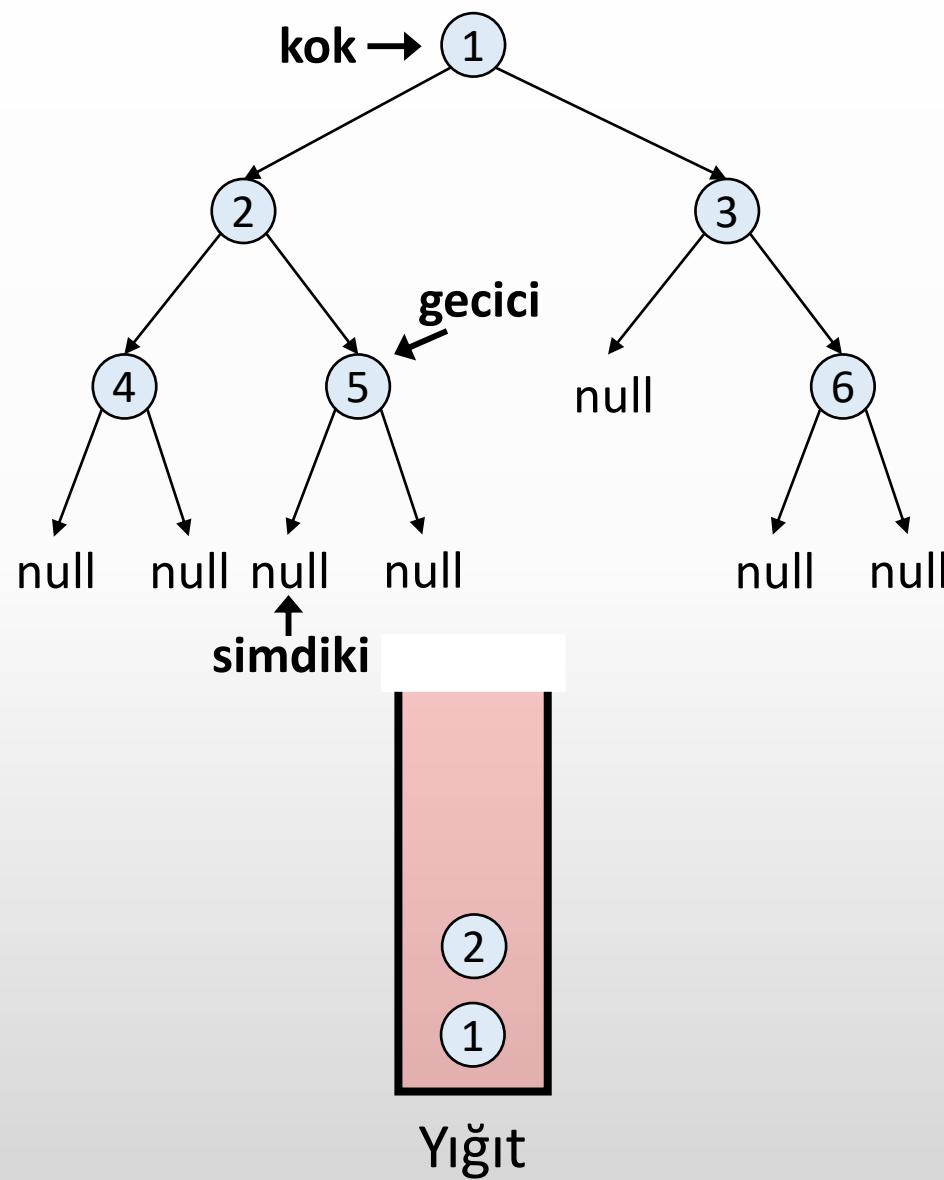
Çıktı: 4 5

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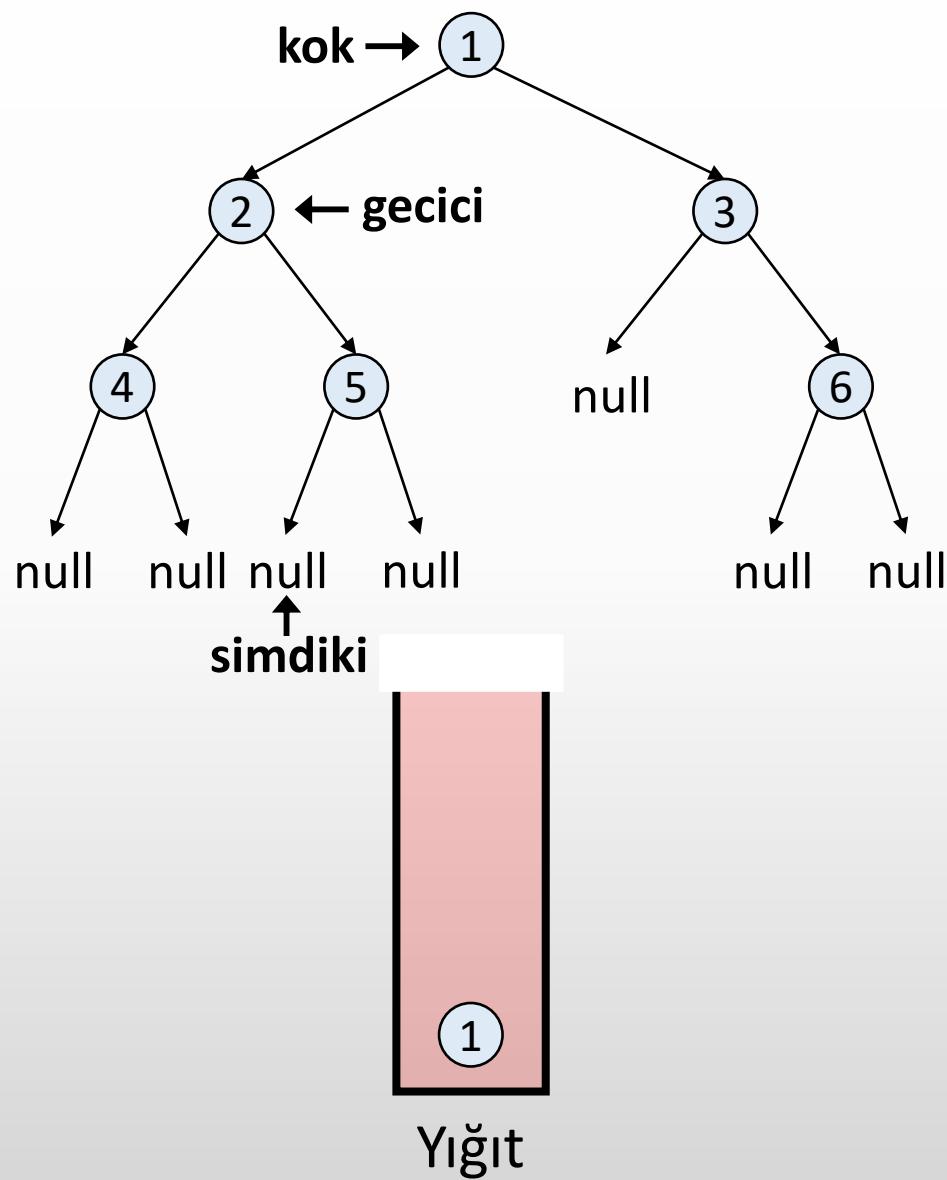
Çıktı: 4 5

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



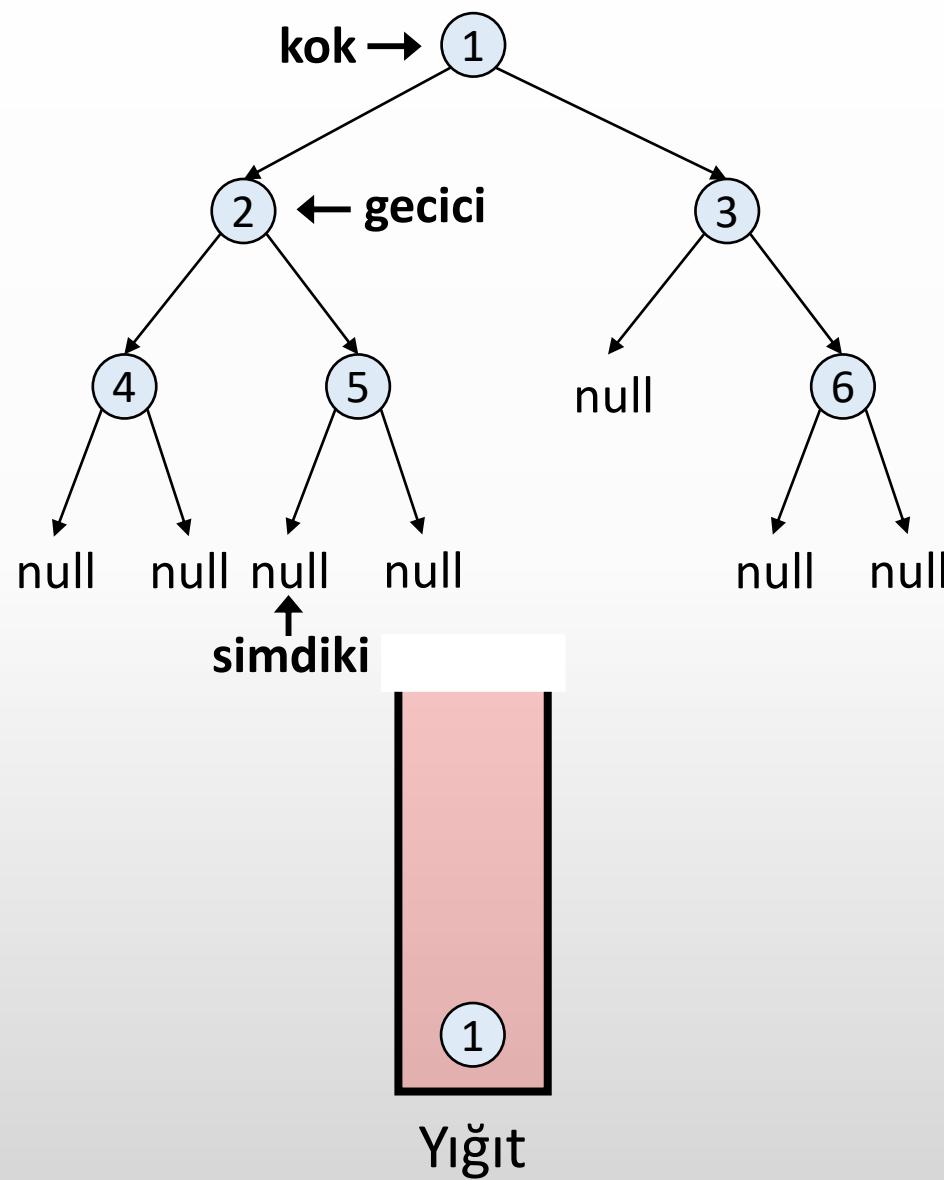
Çıktı: 4 5

```
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 + " ");
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                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        }
        else {
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        }
    }
}
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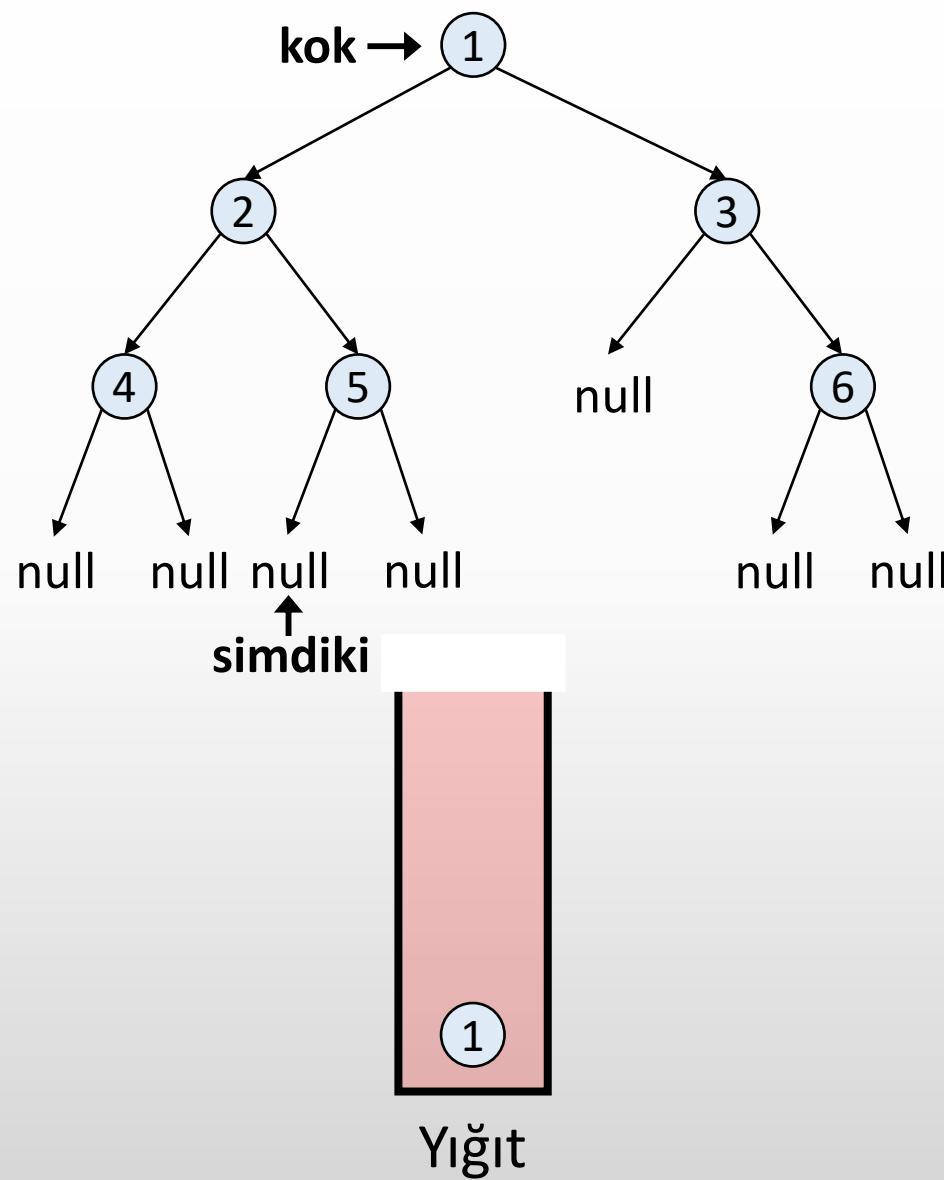
Çıktı: 4 5

```
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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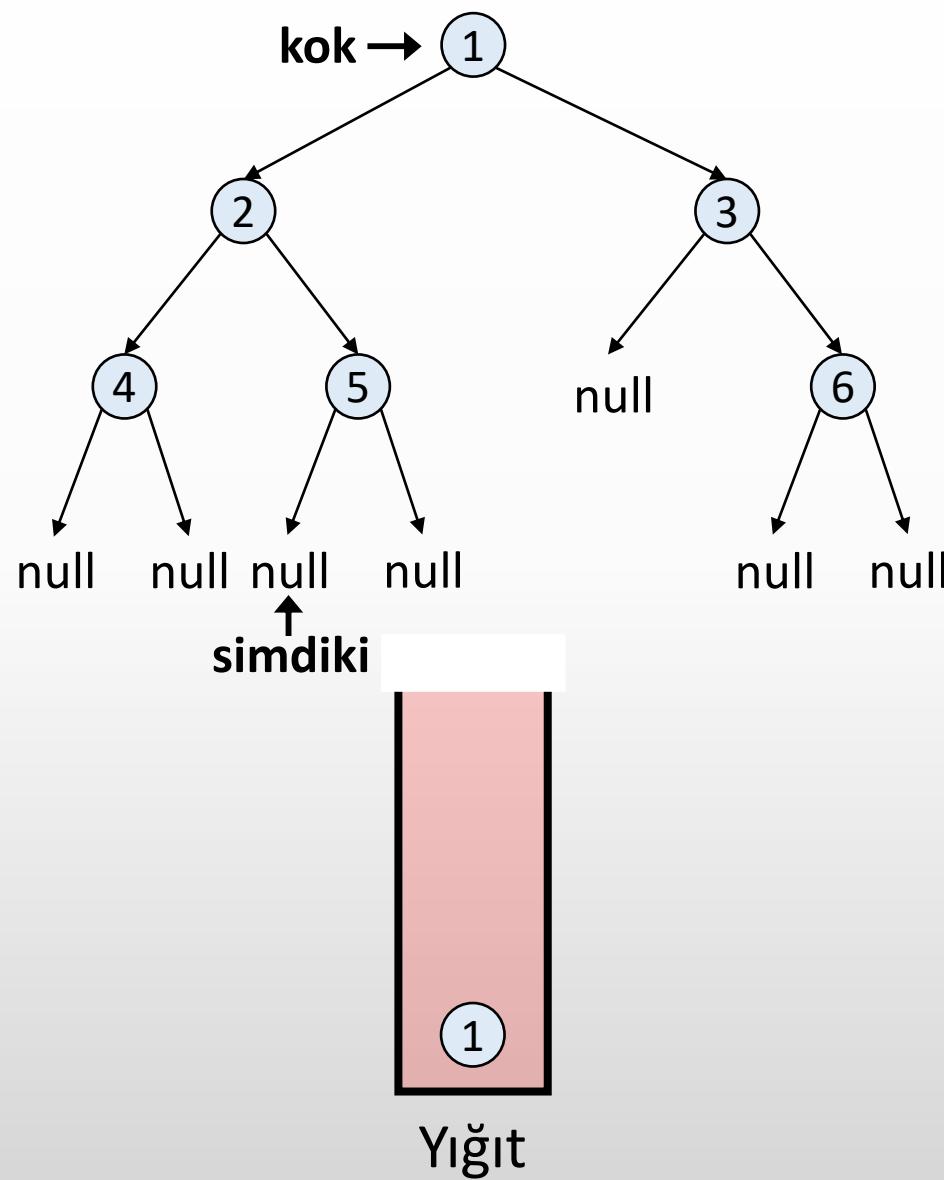
Çıktı: 4 5 2

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



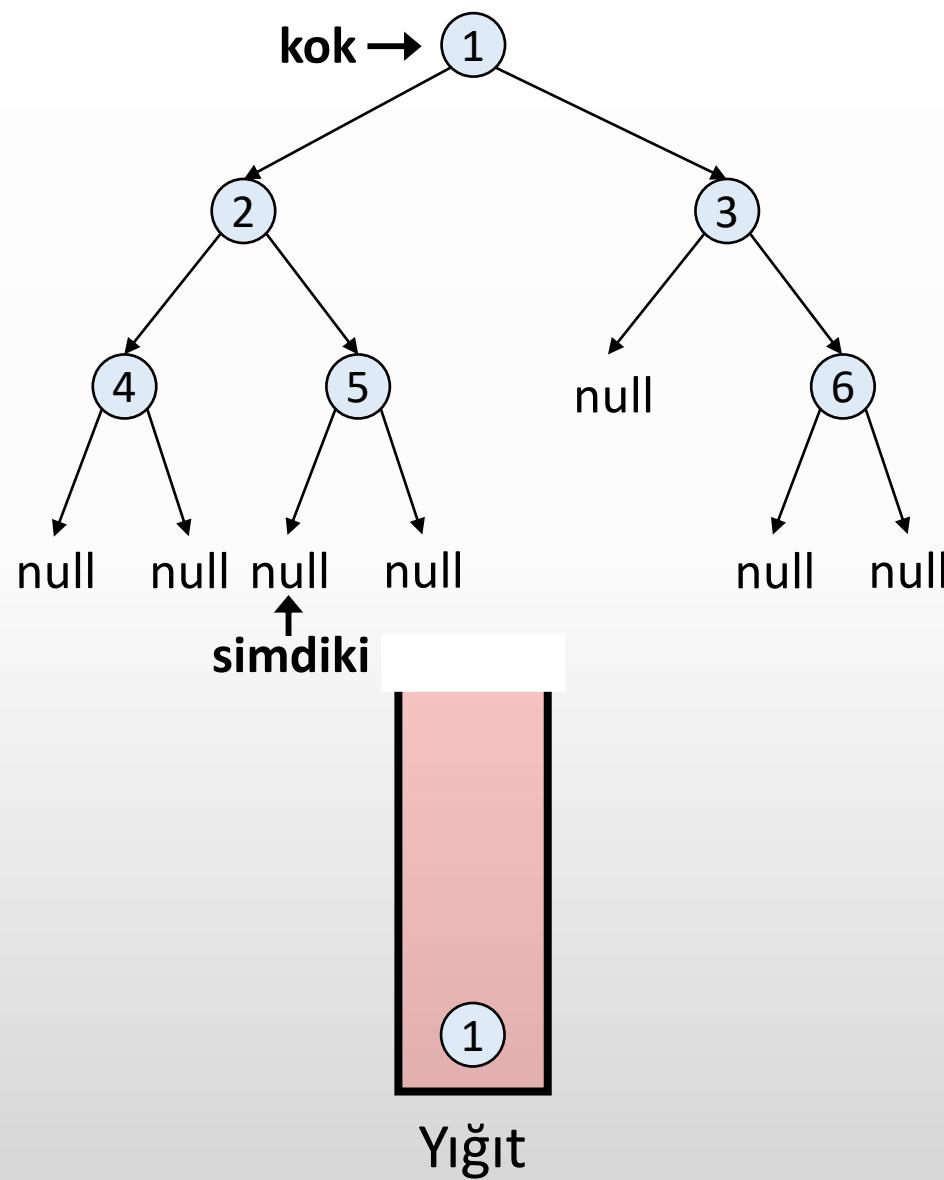
Çıktı: 4 5 2

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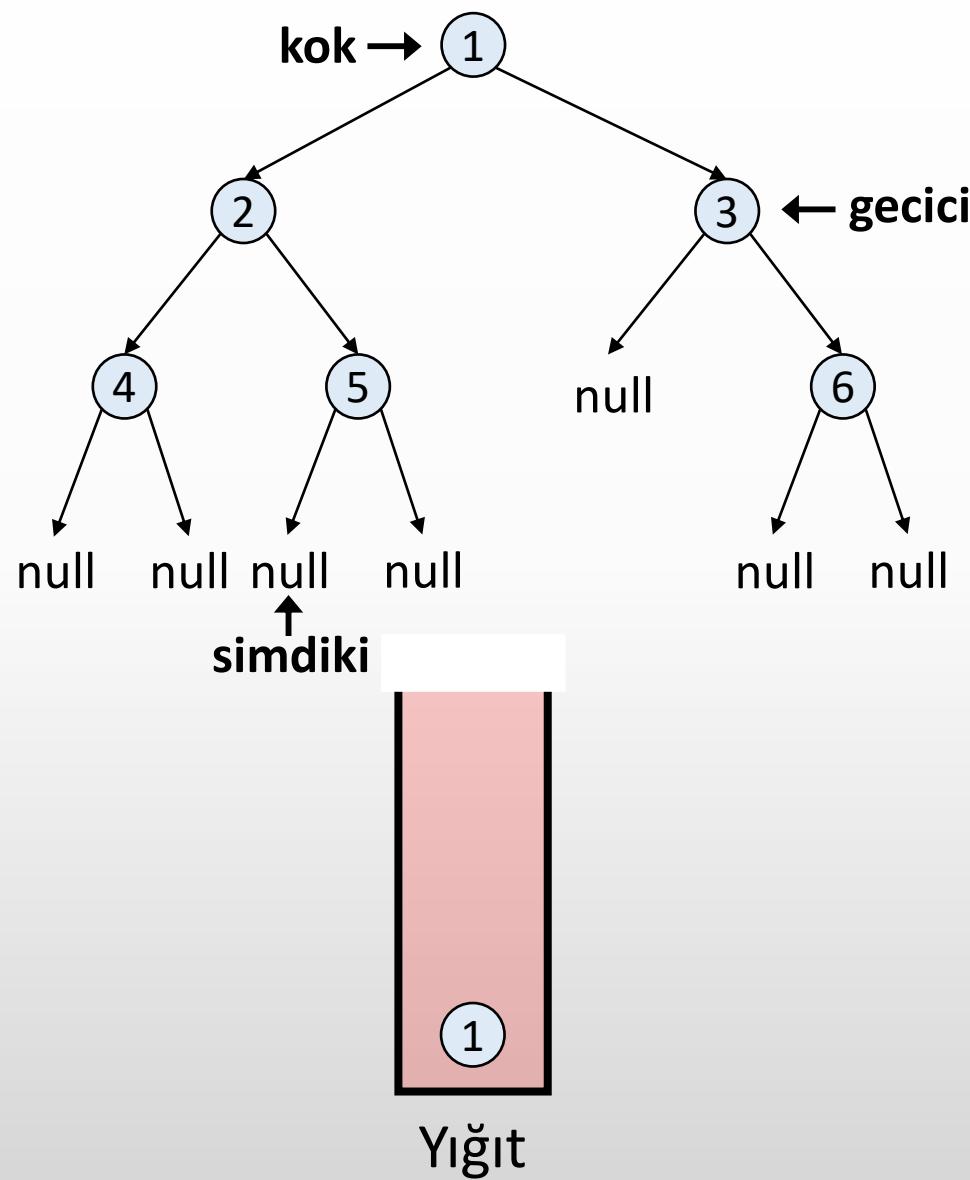
Çıktı: 4 5 2

AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
while(simdiki != null || !yigit.isEmpty()) {  
 if(simdiki != null) {  
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 gecici = yigit.pop();  
 System.out.print(gecici.veri + " ");  
 }  
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 else {  
 simdiki = gecici;  
 }  
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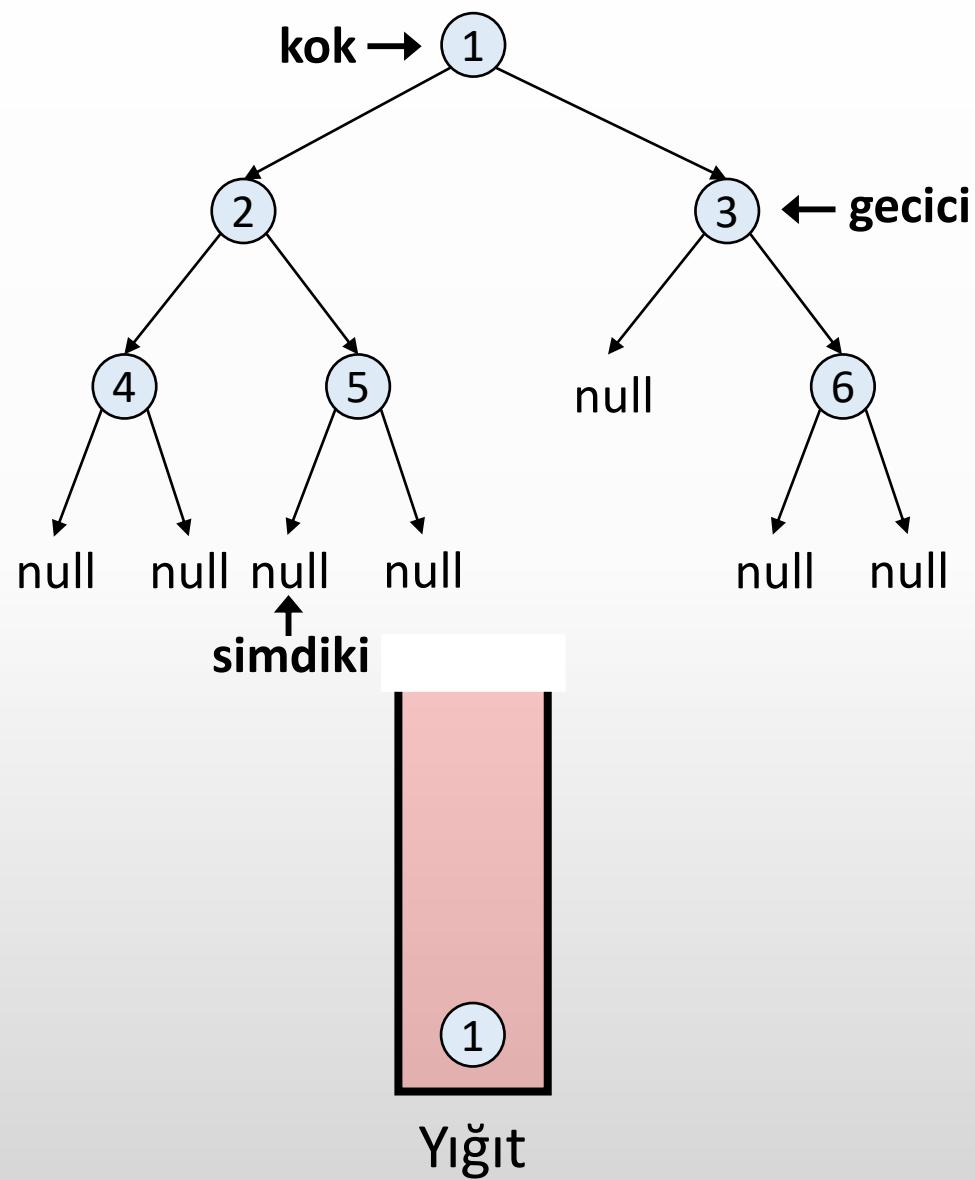
**Çıktı: 4 5 2**

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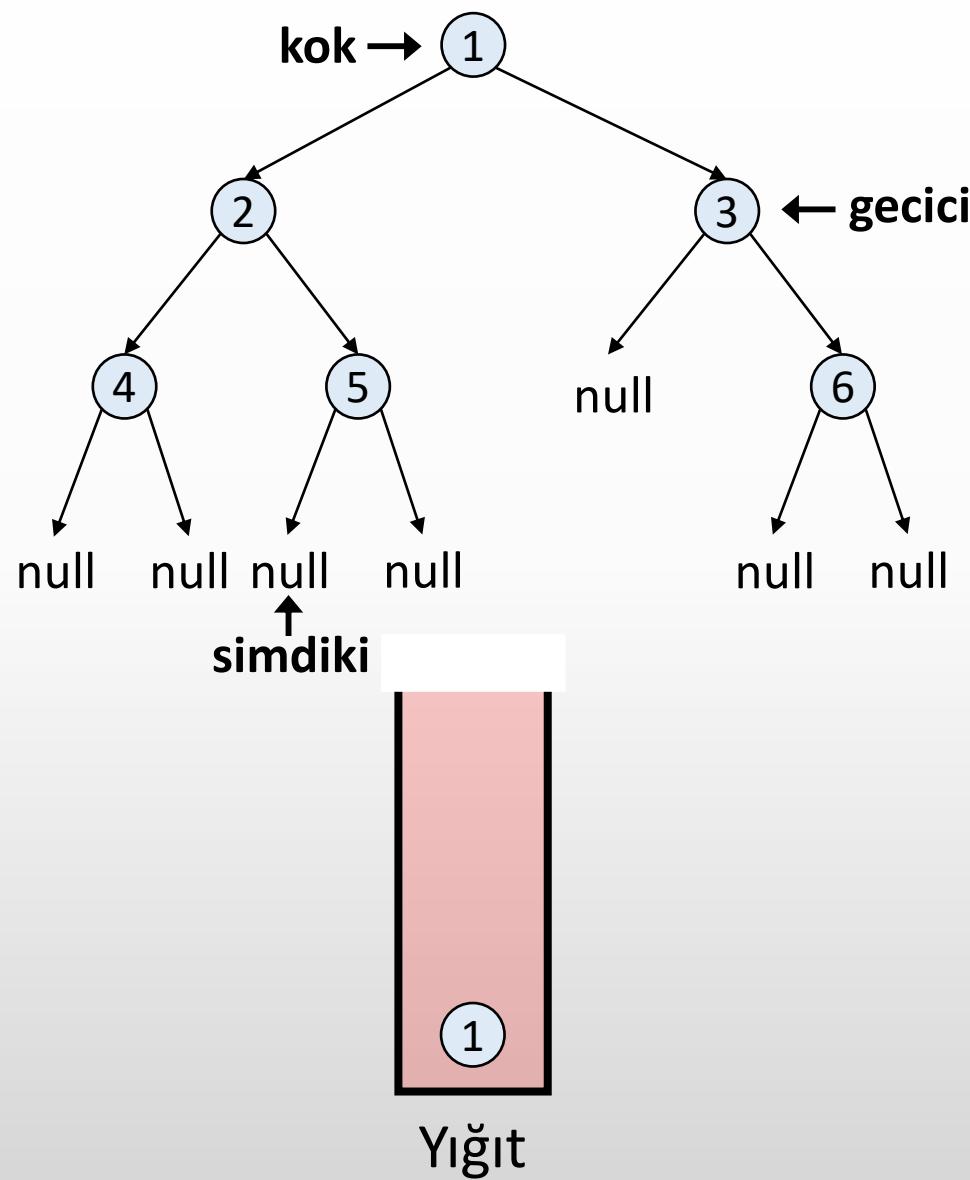
**Çıktı: 4 5 2**

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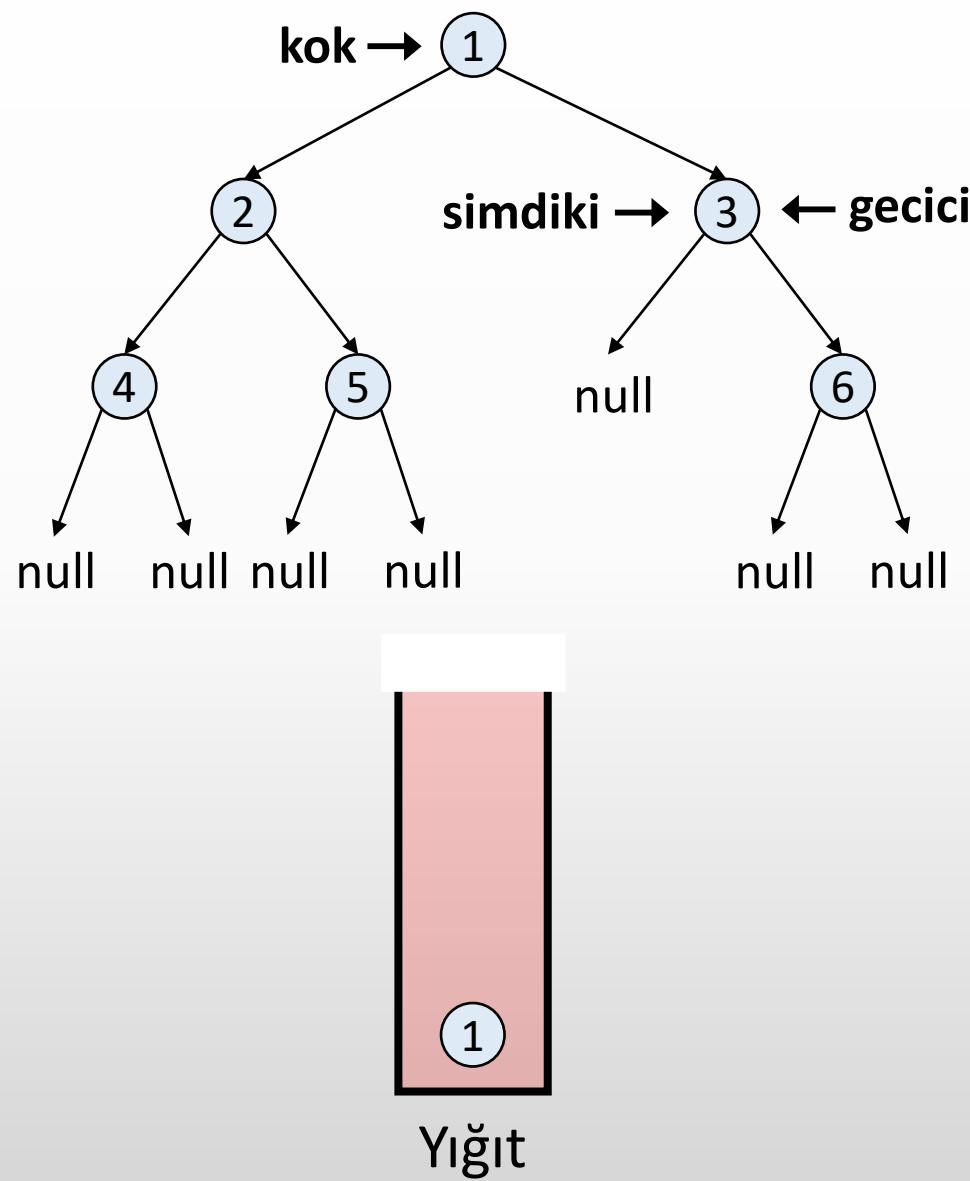
Çıktı: 4 5 2

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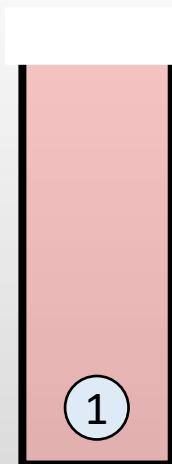
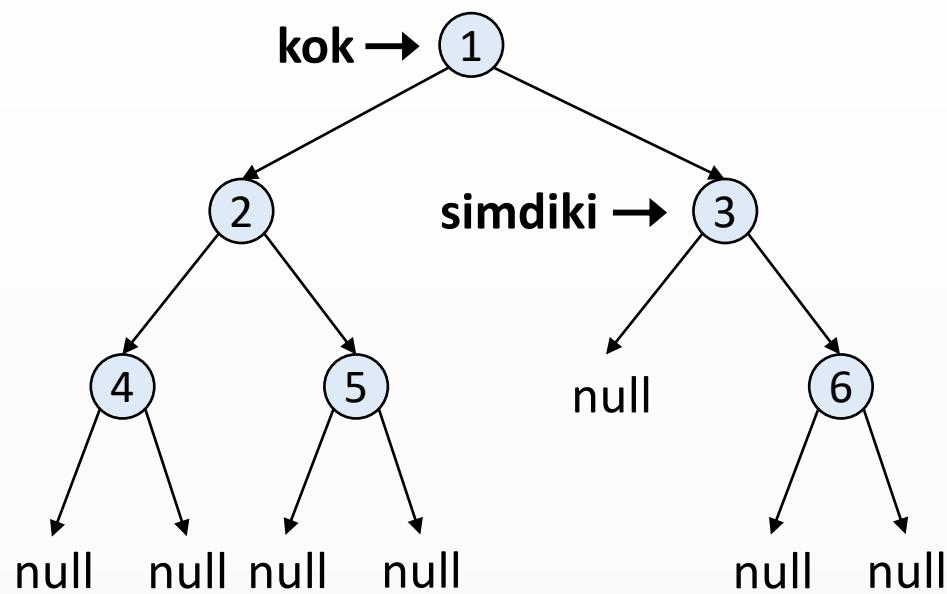
**Çıktı: 4 5 2**

```
AgacDugumu simdiki = kok;
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                  gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        } else {
            simdiki = gecici;
        }
    }
}
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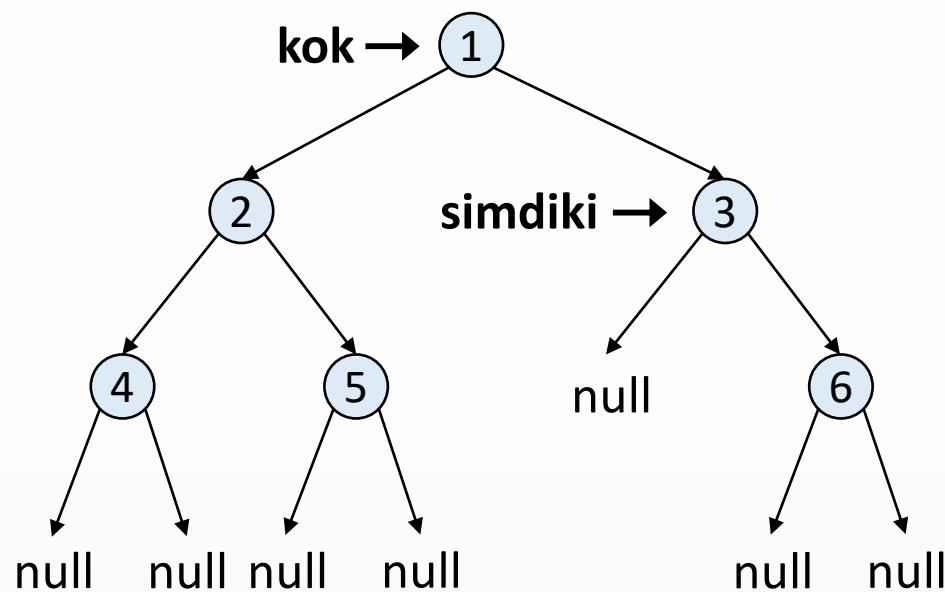
**Çıktı: 4 5 2**

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AgacDugumu simdiki = kok;
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            }
        }
        else {
            simdiki = gecici;
        }
    }
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**Çıktı: 4 5 2**

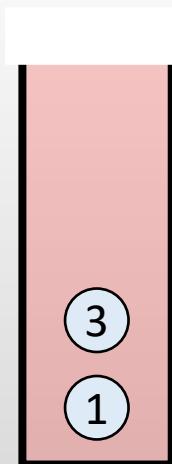
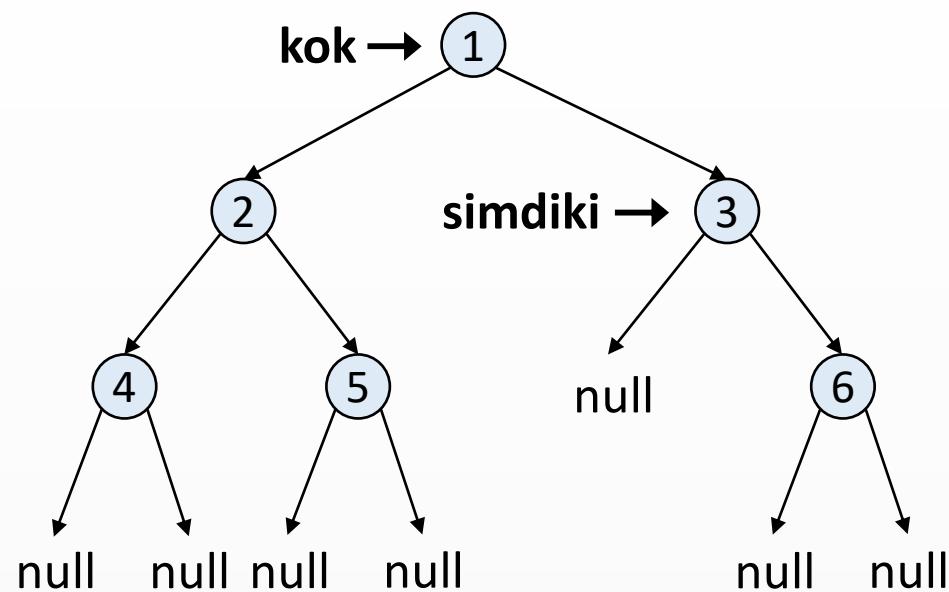
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AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
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    if(simdiki != null) {
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        if(gecici == null) {
            gecici =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



Yığıt

Çıktı: 4 5 2

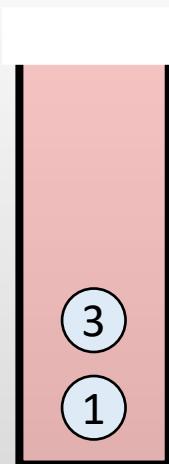
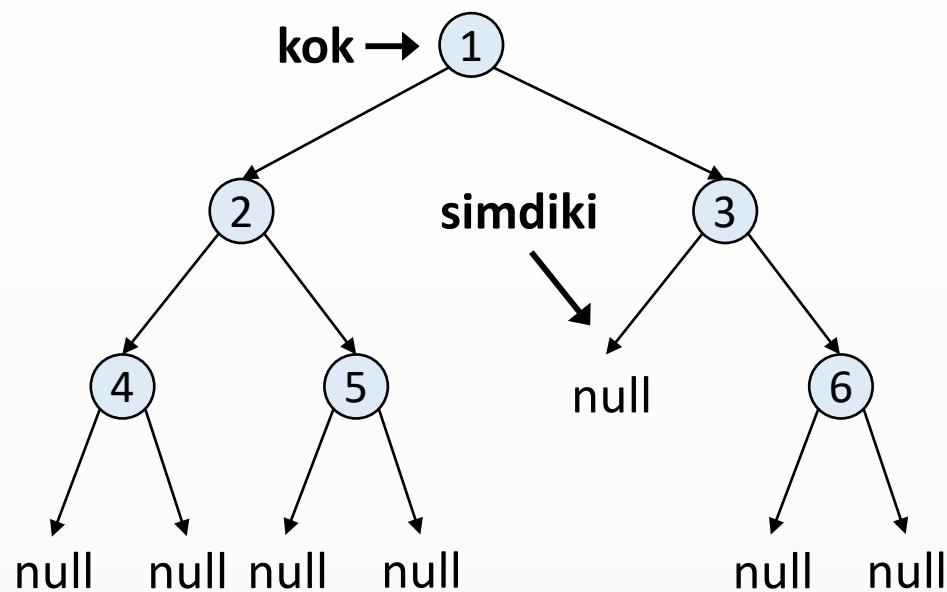
```
AgacDugumu simdiki = kok;
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while(simdiki != null || !yigit.isEmpty()) {
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            gecici = yigit.pop();
            System.out.print(gecici.veri + " ");
        }
    }
    else {
        simdiki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



Yığıt

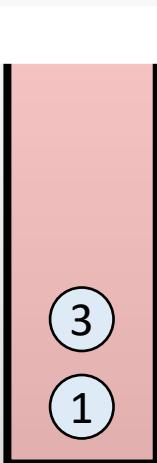
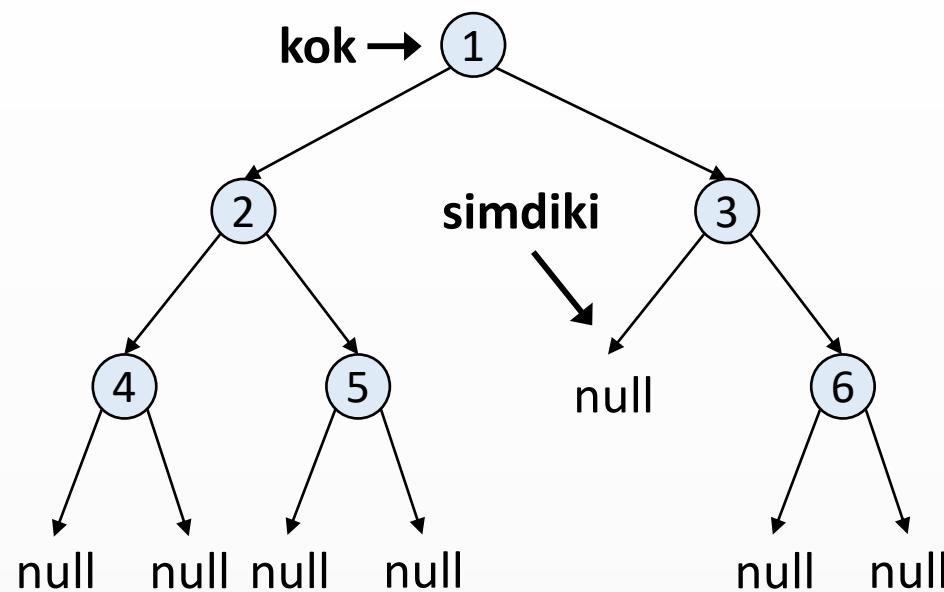
Çıktı: 4 5 2

```
AgacDugumu simdiki = kok;
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while(simdiki != null || !yigit.isEmpty()) {
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**Çıktı: 4 5 2**

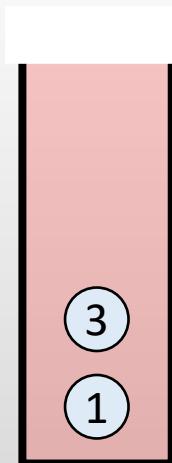
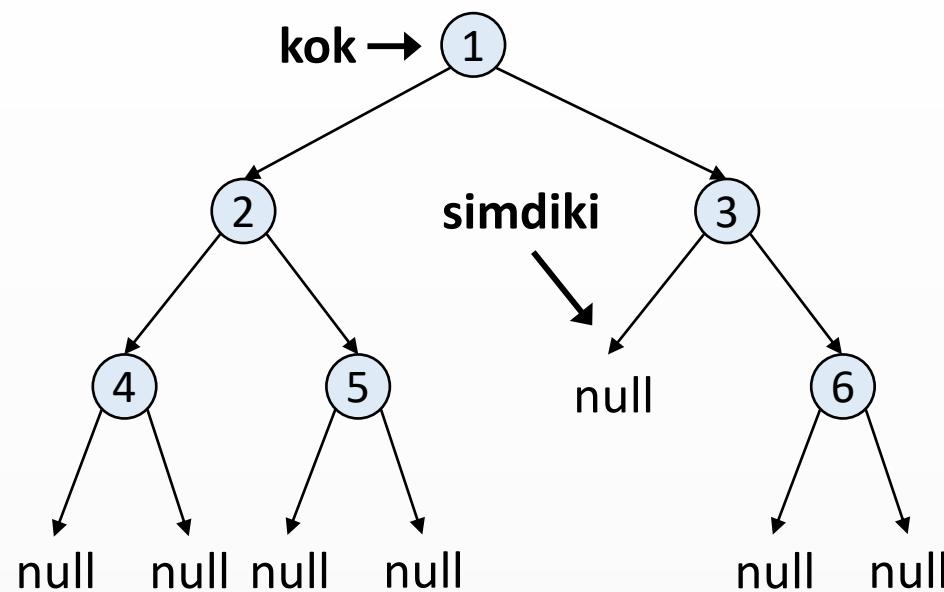
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AgacDugumu simdiki = kok;
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Yığıt

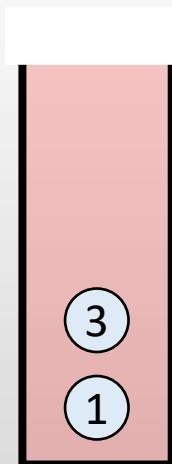
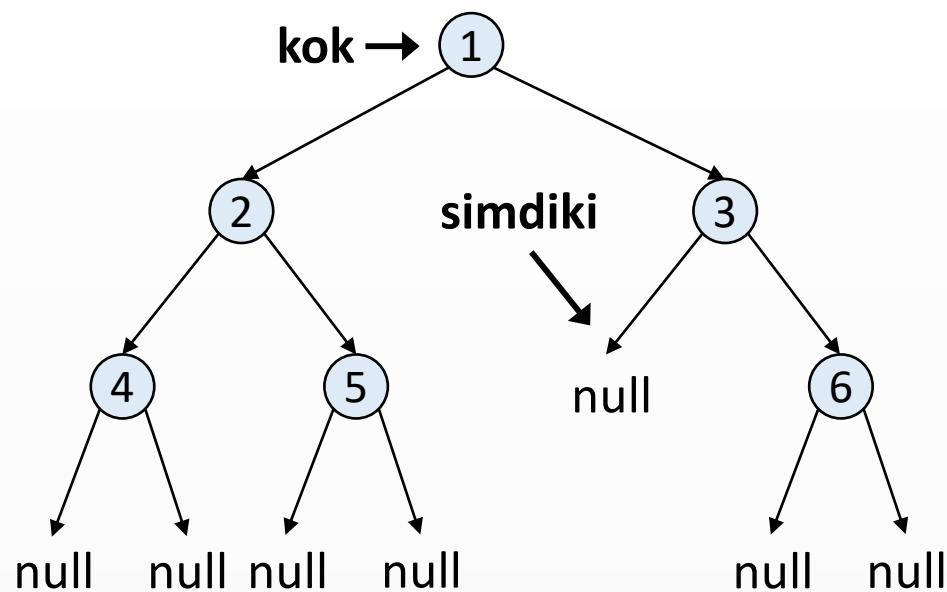
Çıktı: 4 5 2

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AgacDugumu simdiki = kok;  
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**Çıktı: 4 5 2**

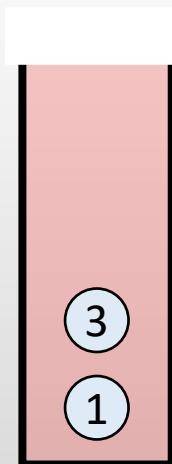
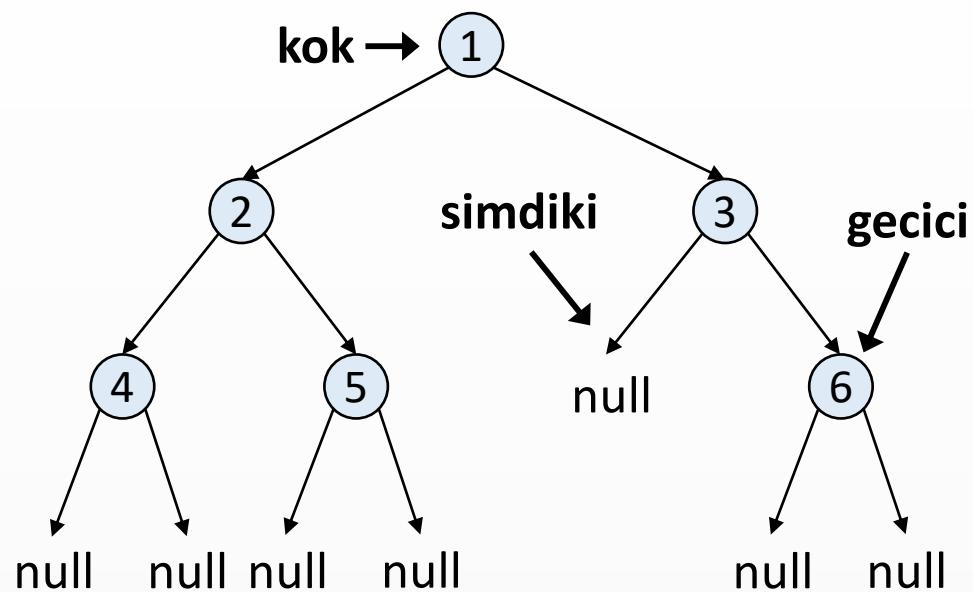
AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
**while(simdiki != null || !yigit.isEmpty()) {**  
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        simdiki = simdiki.sol;  
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        **}  
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Yığıt

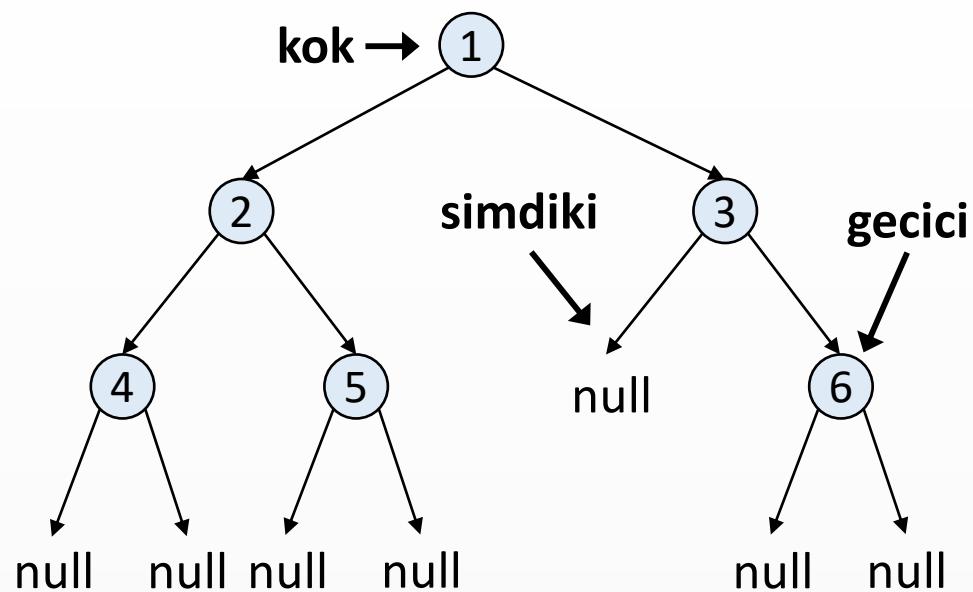
Çıktı: 4 5 2

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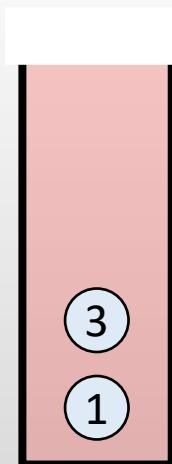
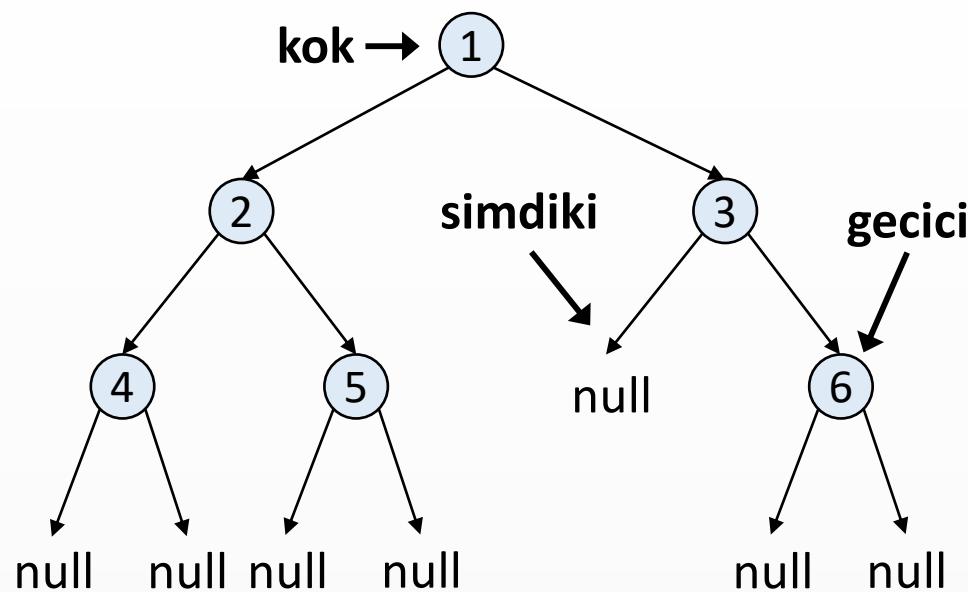
**Çıktı: 4 5 2**

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Çıktı: 4 5 2

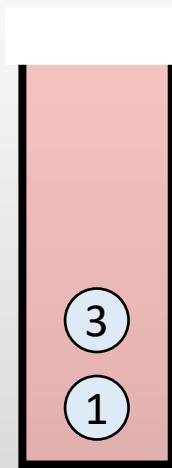
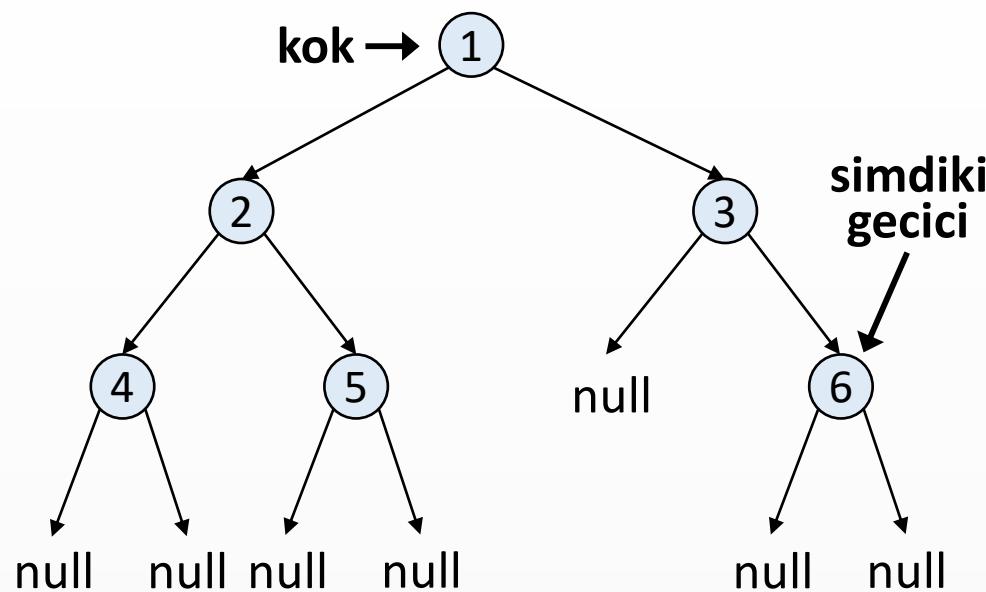
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Yığıt

Çıktı: 4 5 2

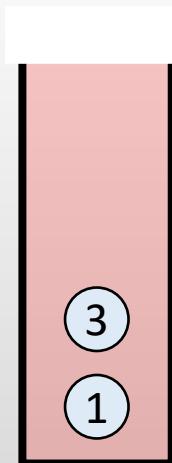
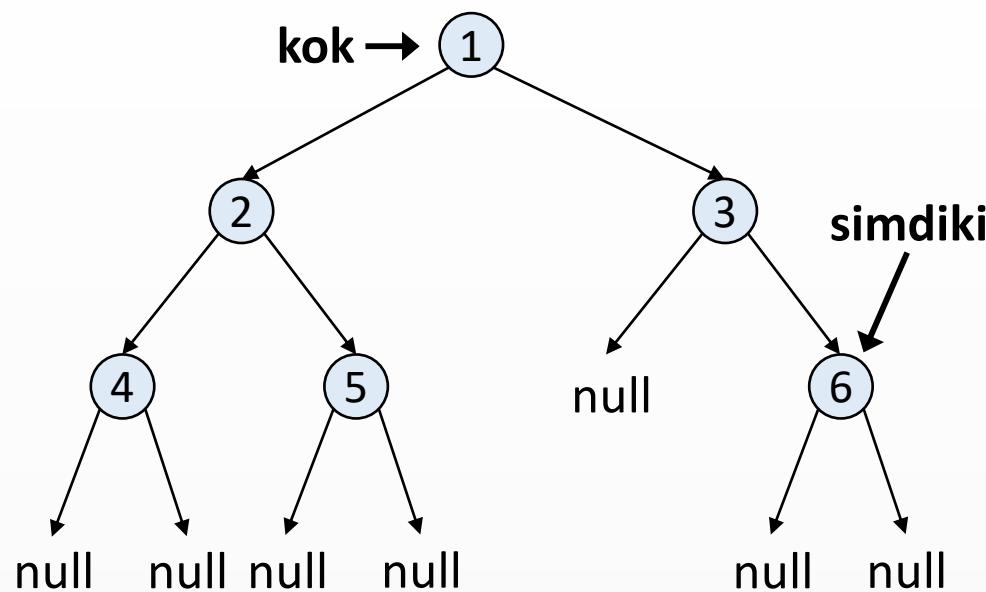
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            while(!yigit.isEmpty() &&
                  gecici == yigit.peek().sag) {
                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
            }
        } else {
            simdiki = gecici;
        }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



Yığıt

Çıktı: 4 5 2

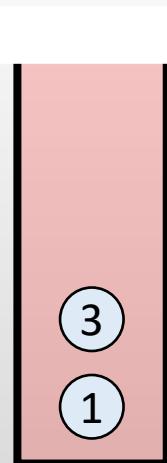
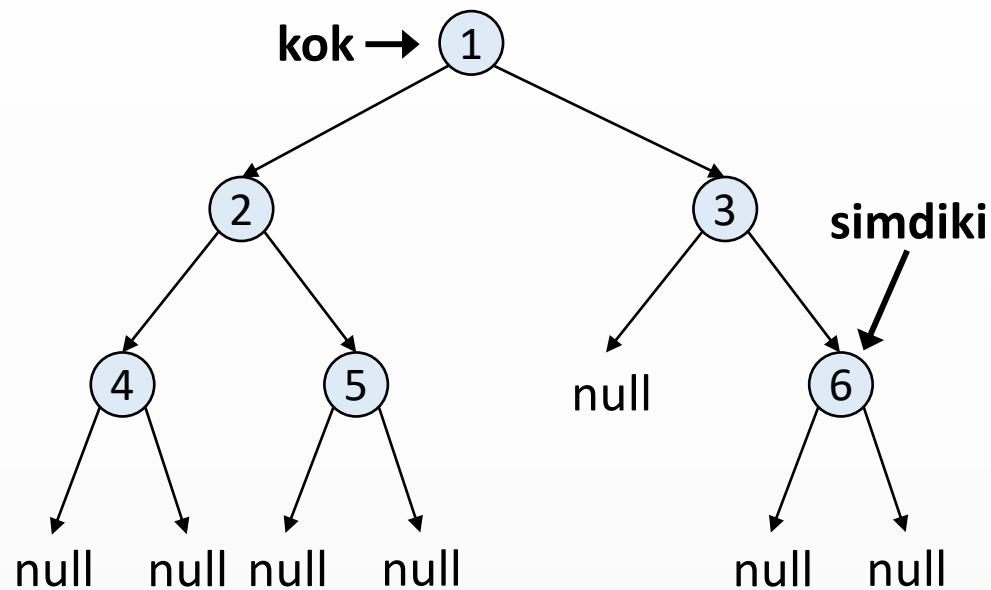
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    } else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
          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



Yığıt

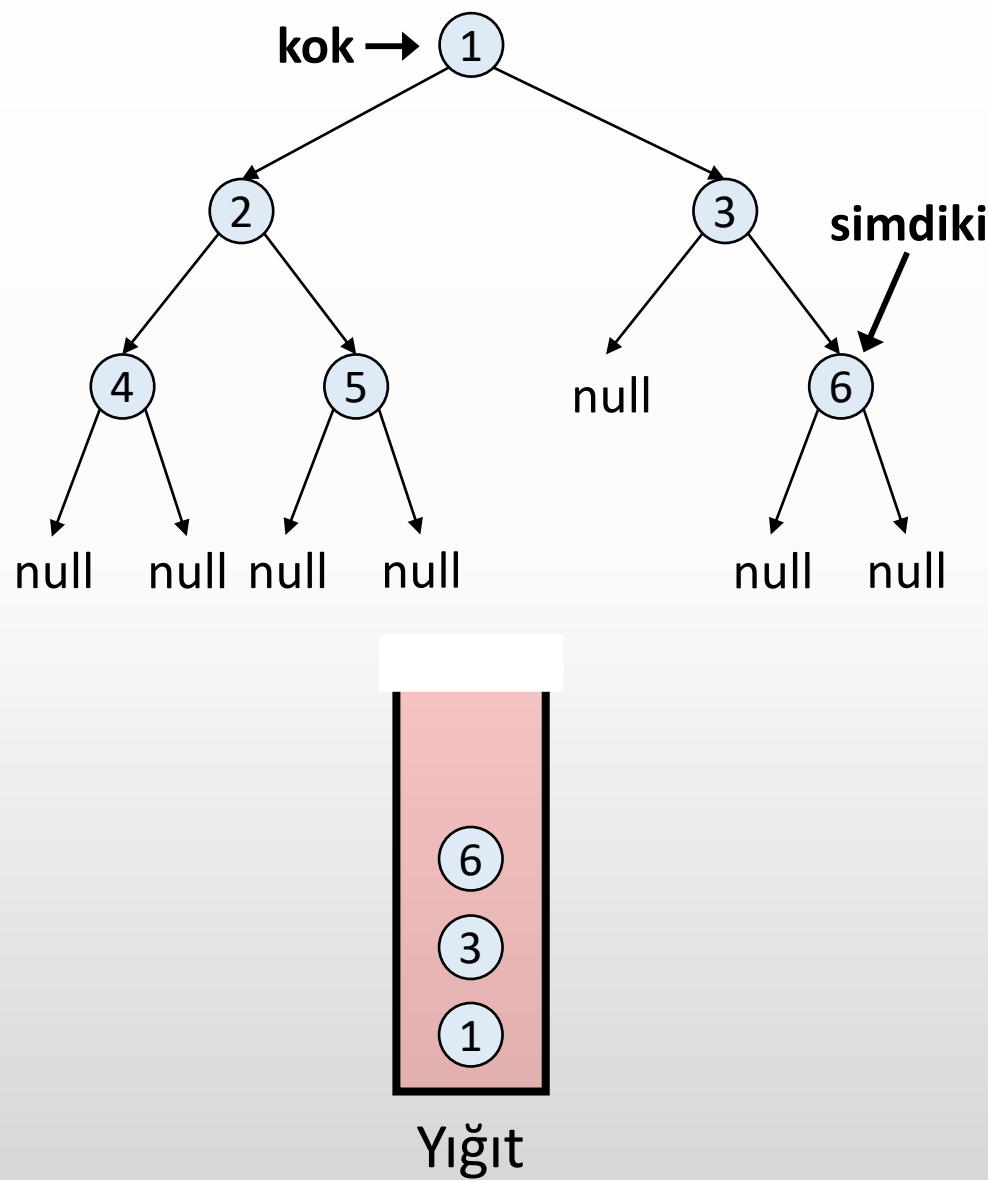
Çıktı: 4 5 2

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



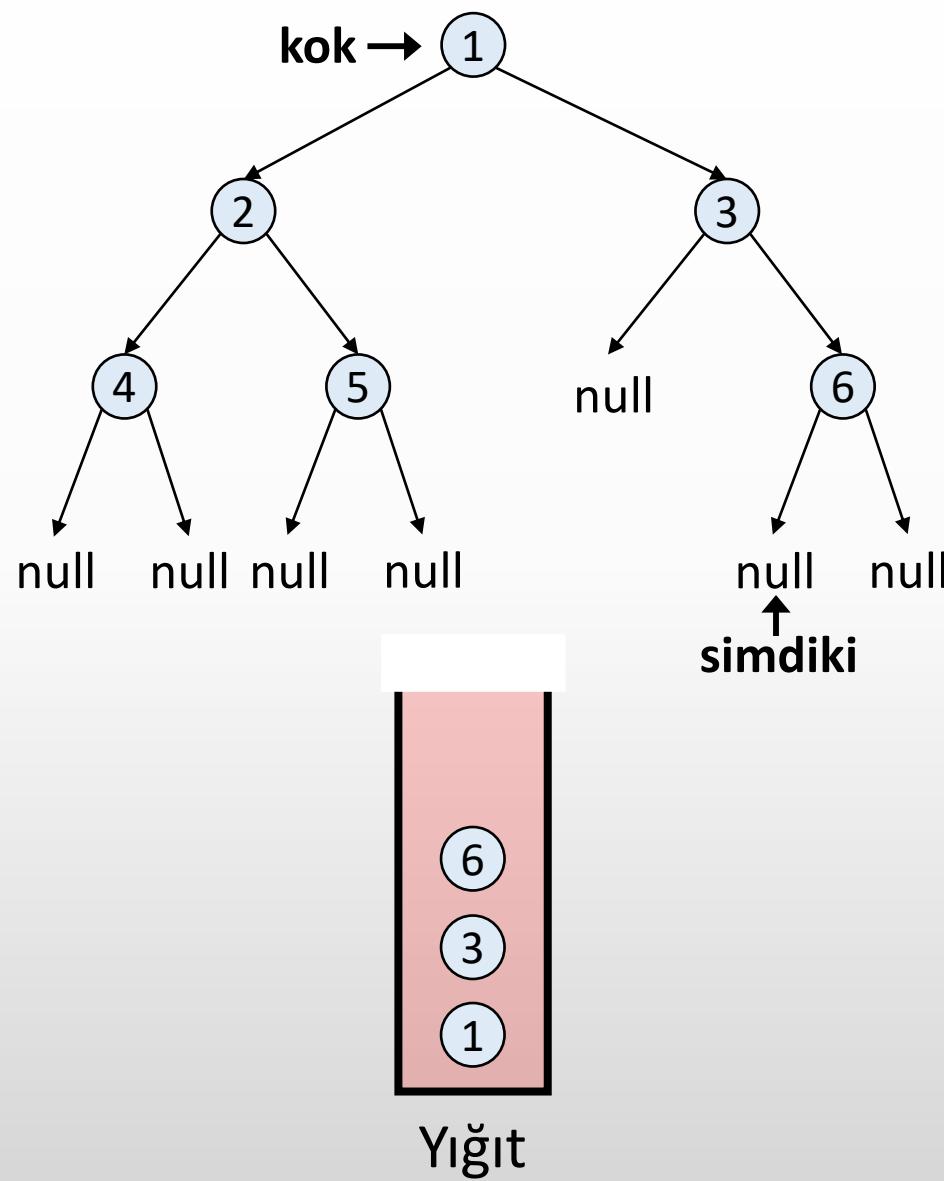
**Çıktı: 4 5 2**

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



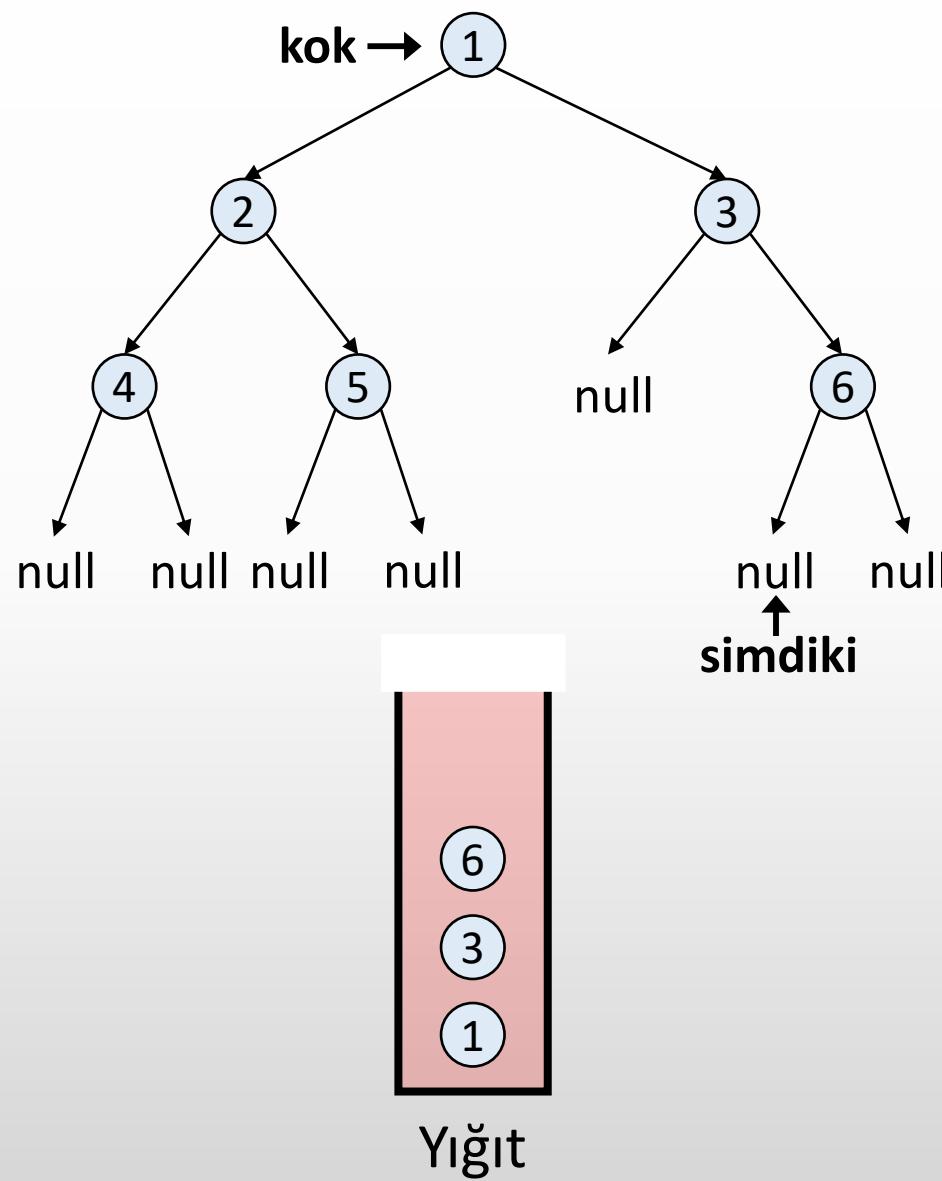
**Çıktı: 4 5 2**

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



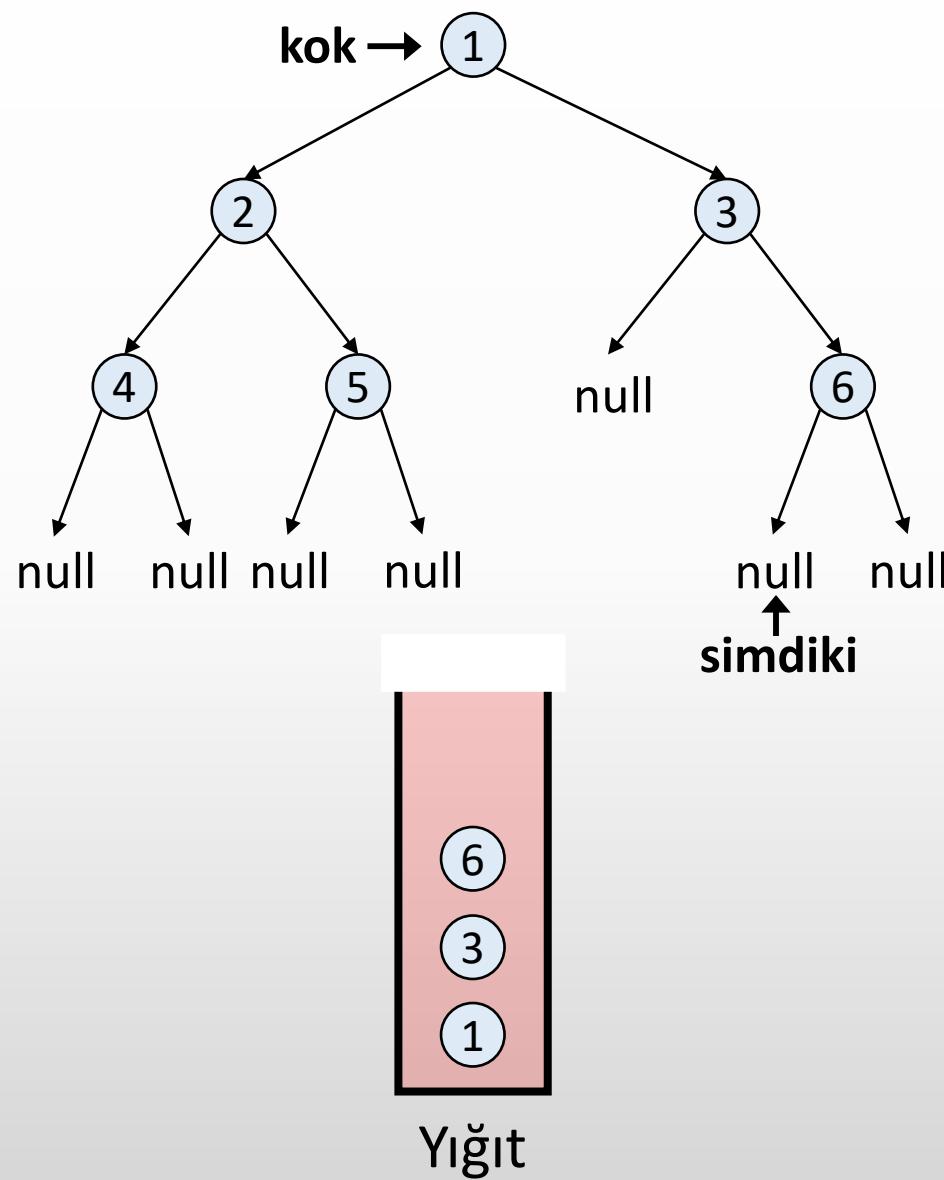
Çıktı: 4 5 2

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



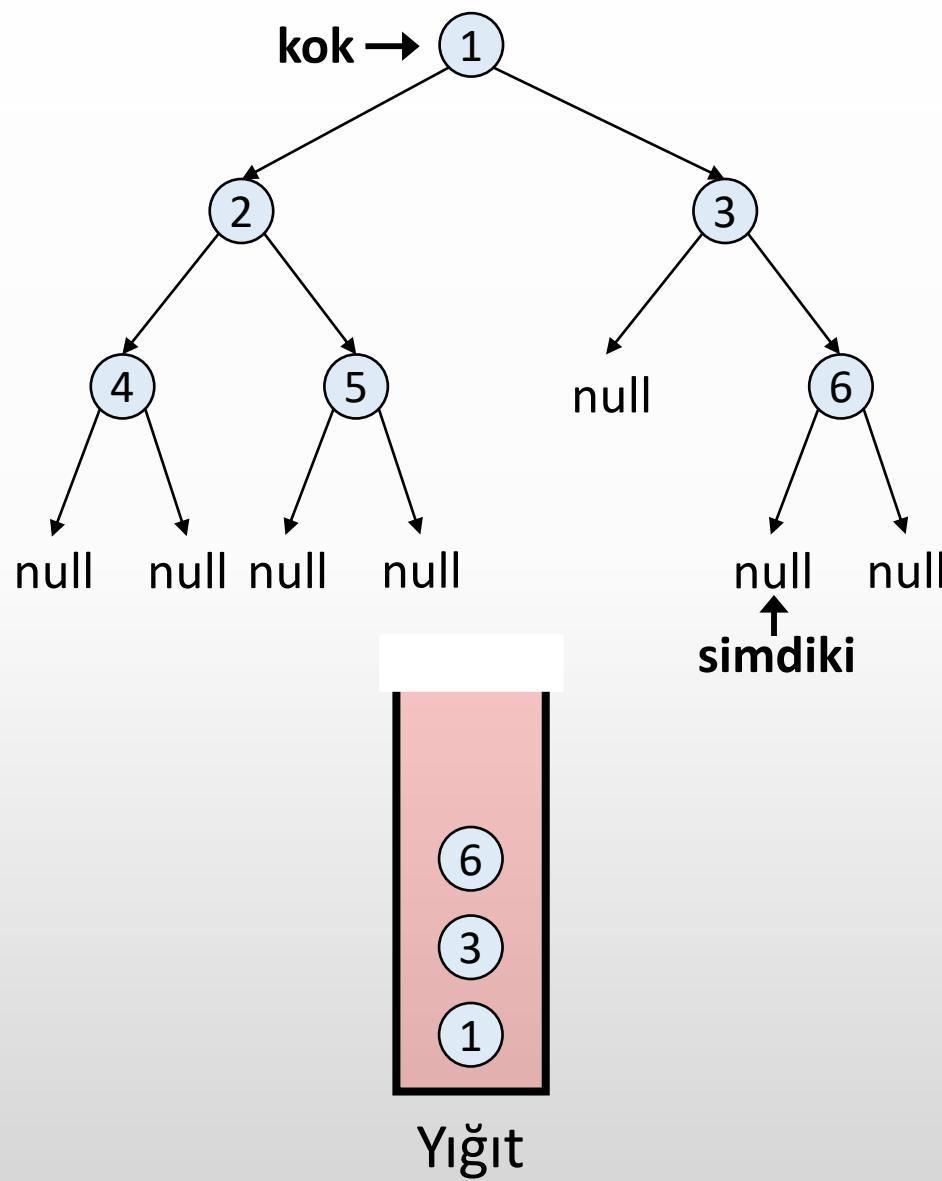
Çıktı: 4 5 2

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



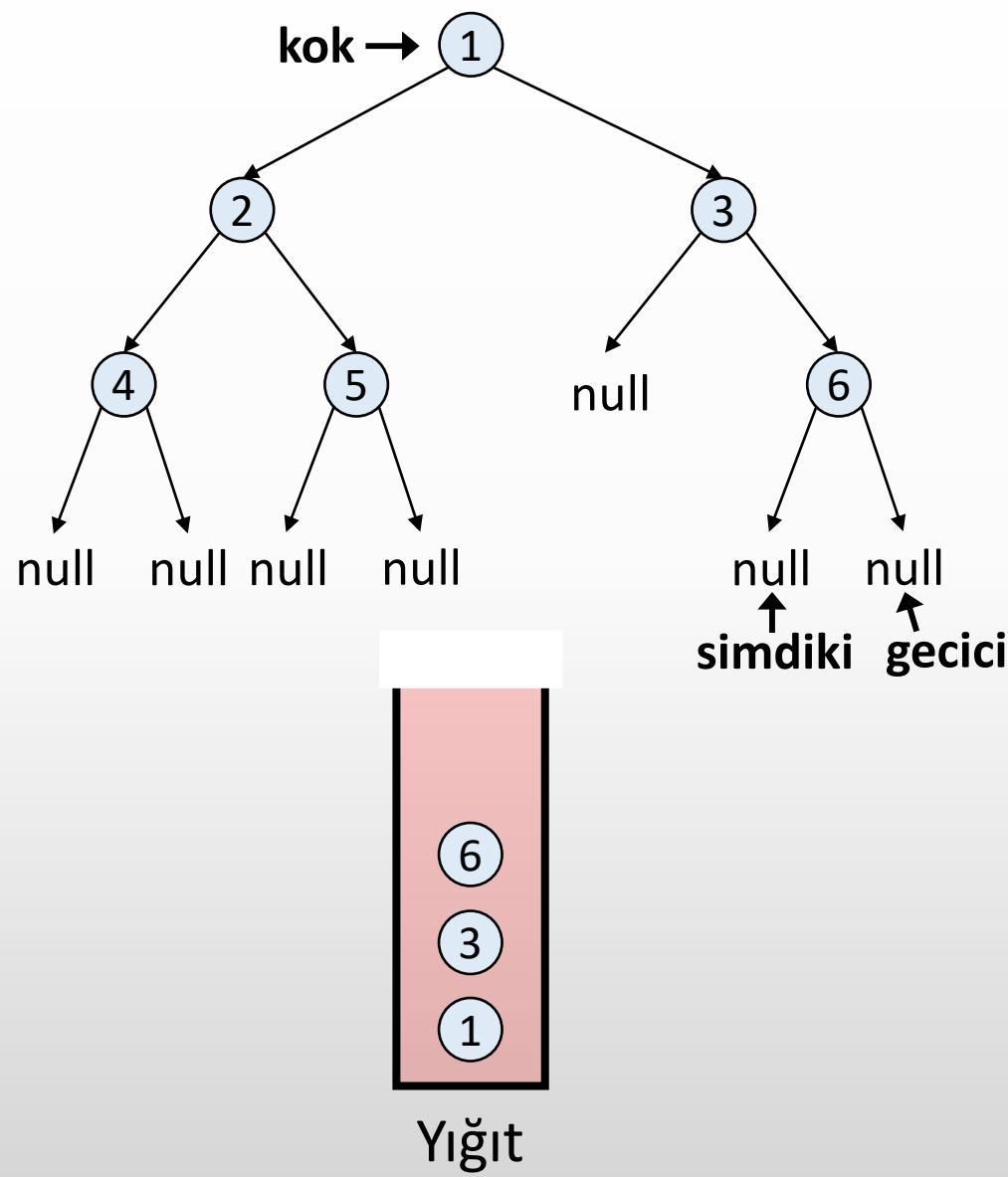
Çıktı: 4 5 2

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



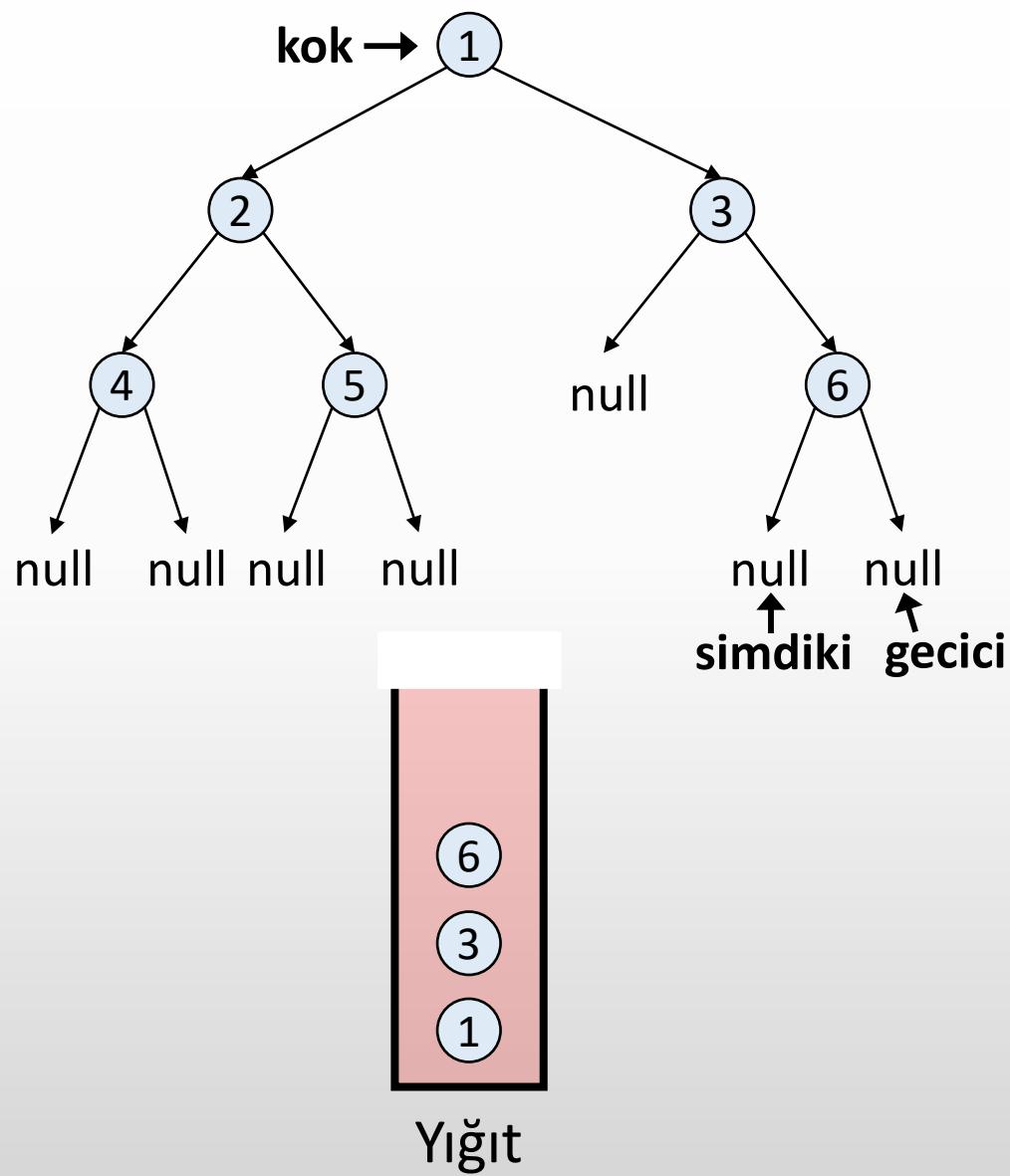
Çıktı: 4 5 2

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



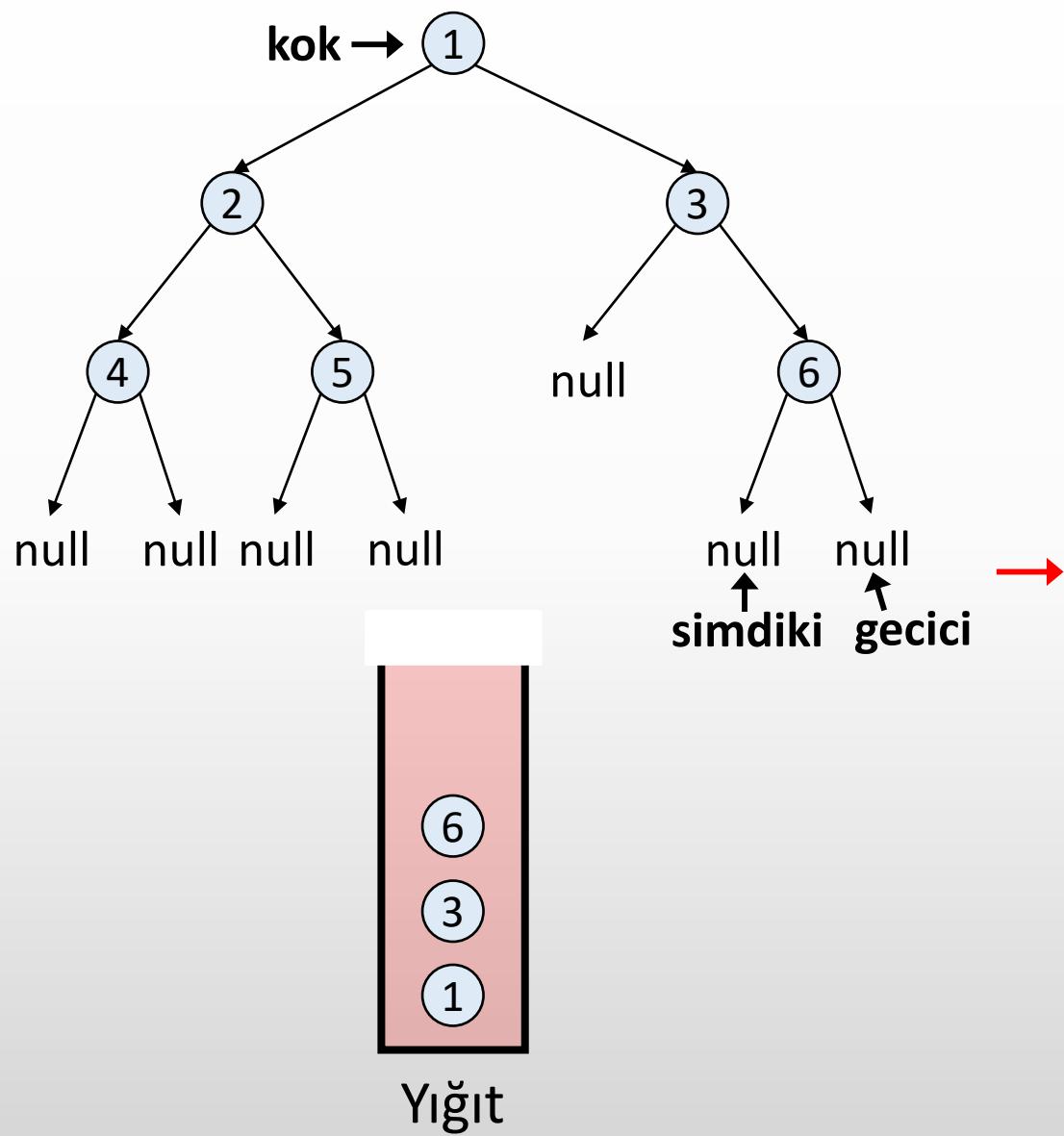
Çıktı: 4 5 2

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



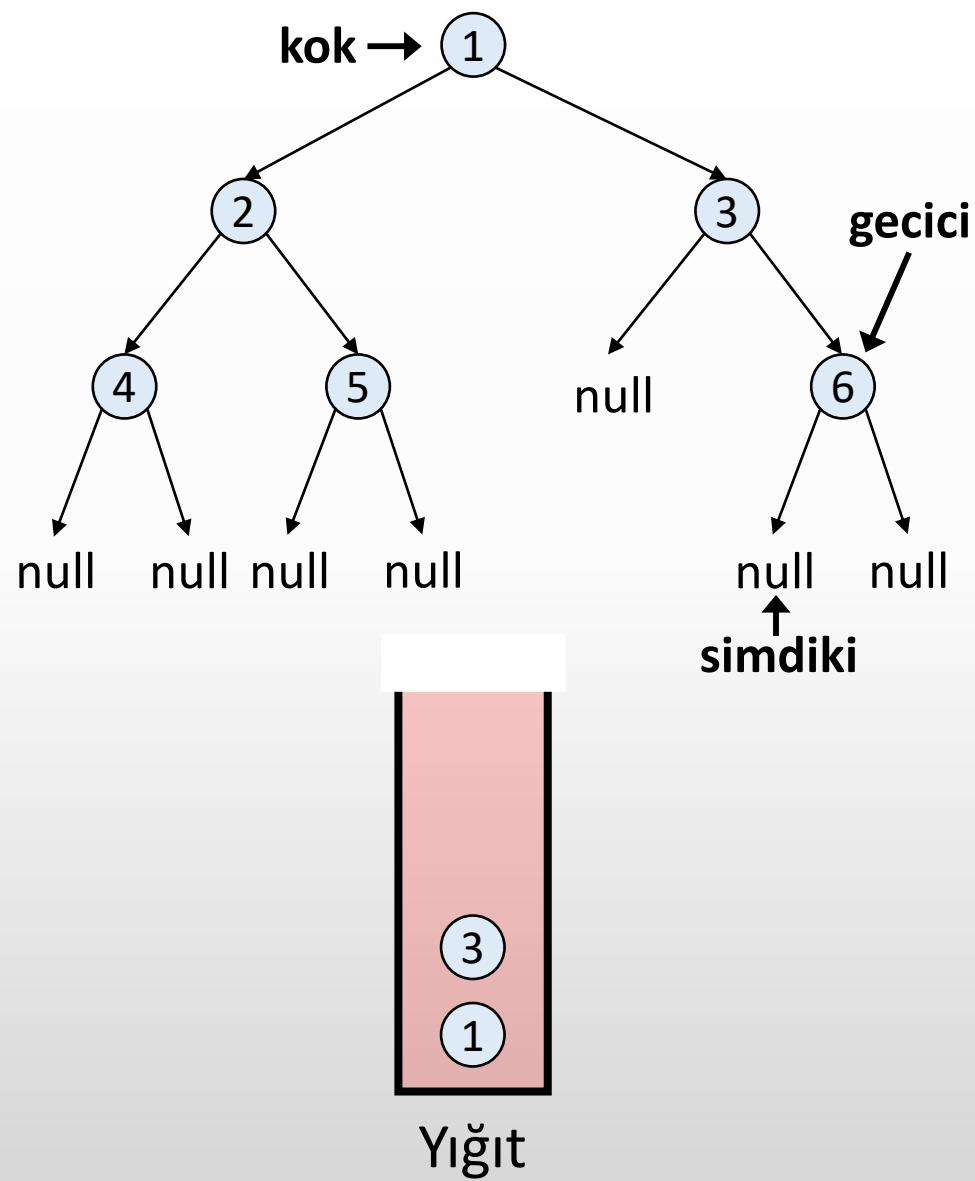
Çıktı: 4 5 2

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



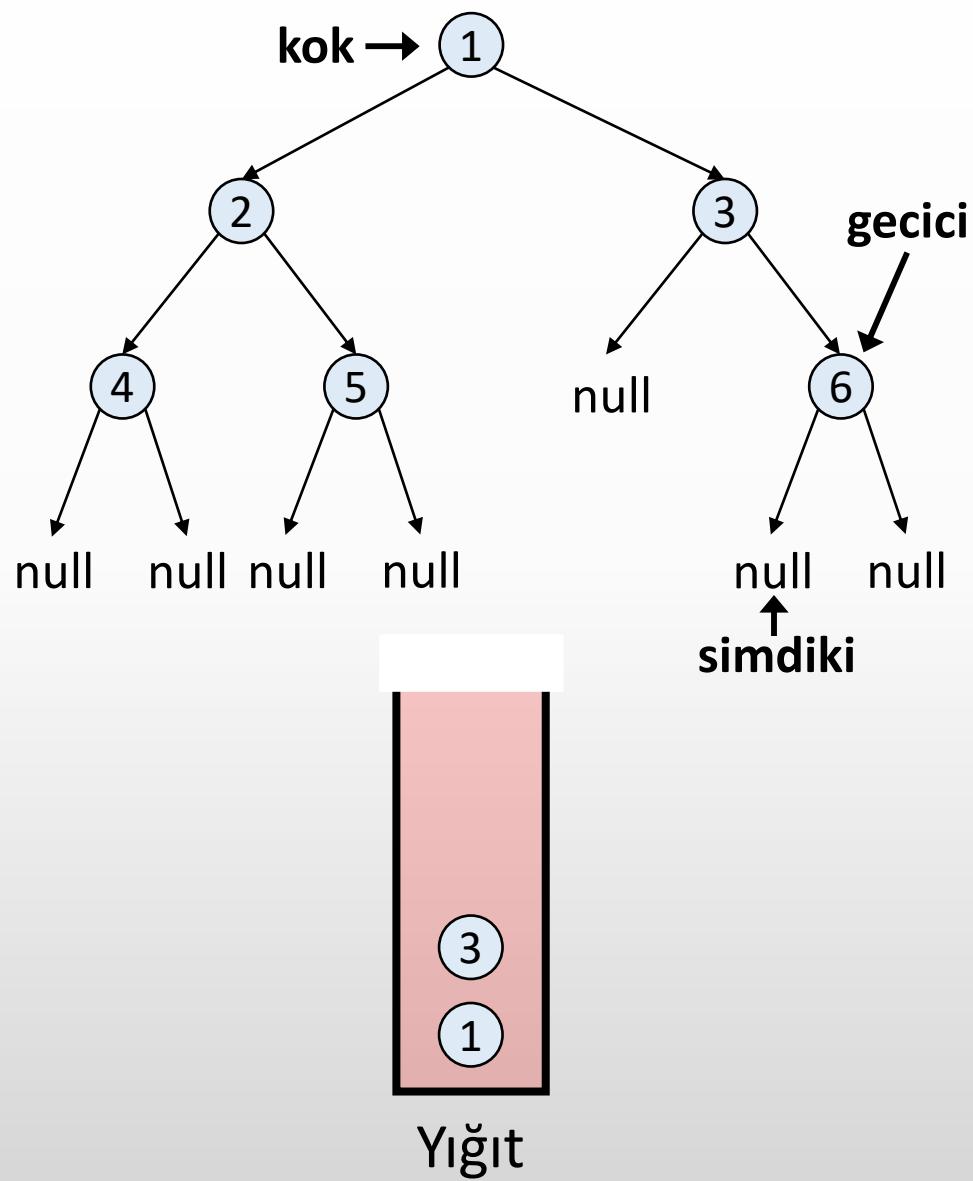
Çıktı: 4 5 2

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



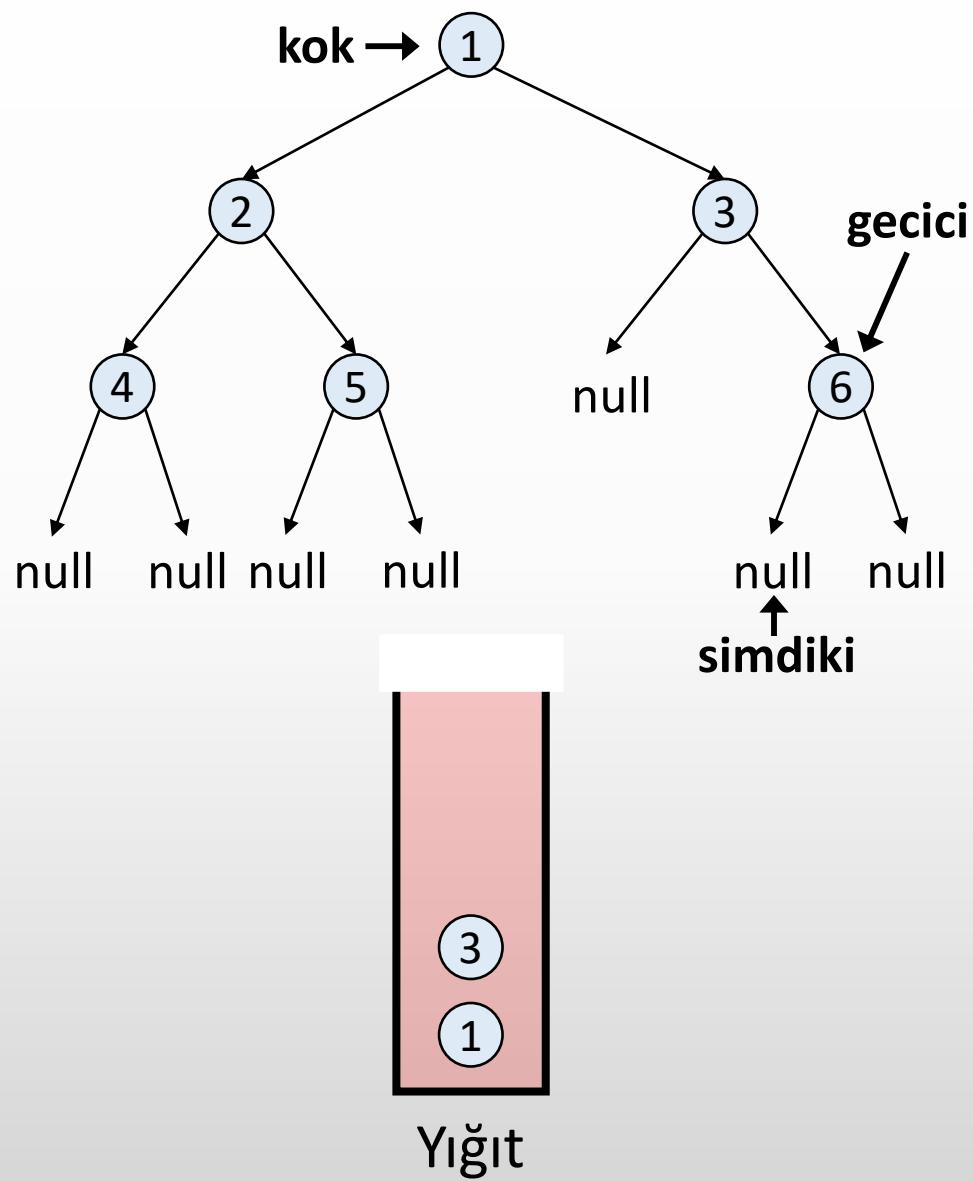
Çıktı: 4 5 2

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



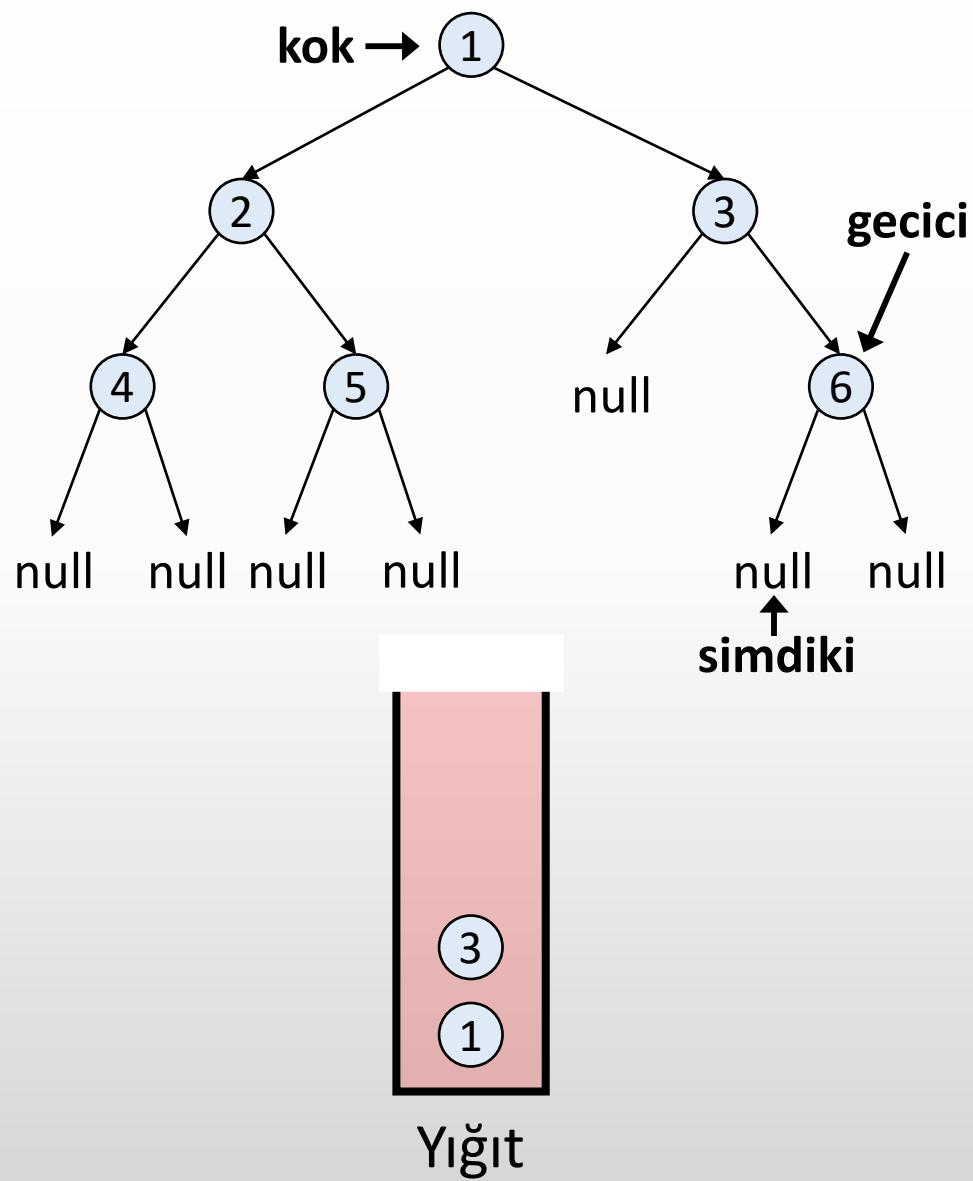
Çıktı: 4 5 2 6

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



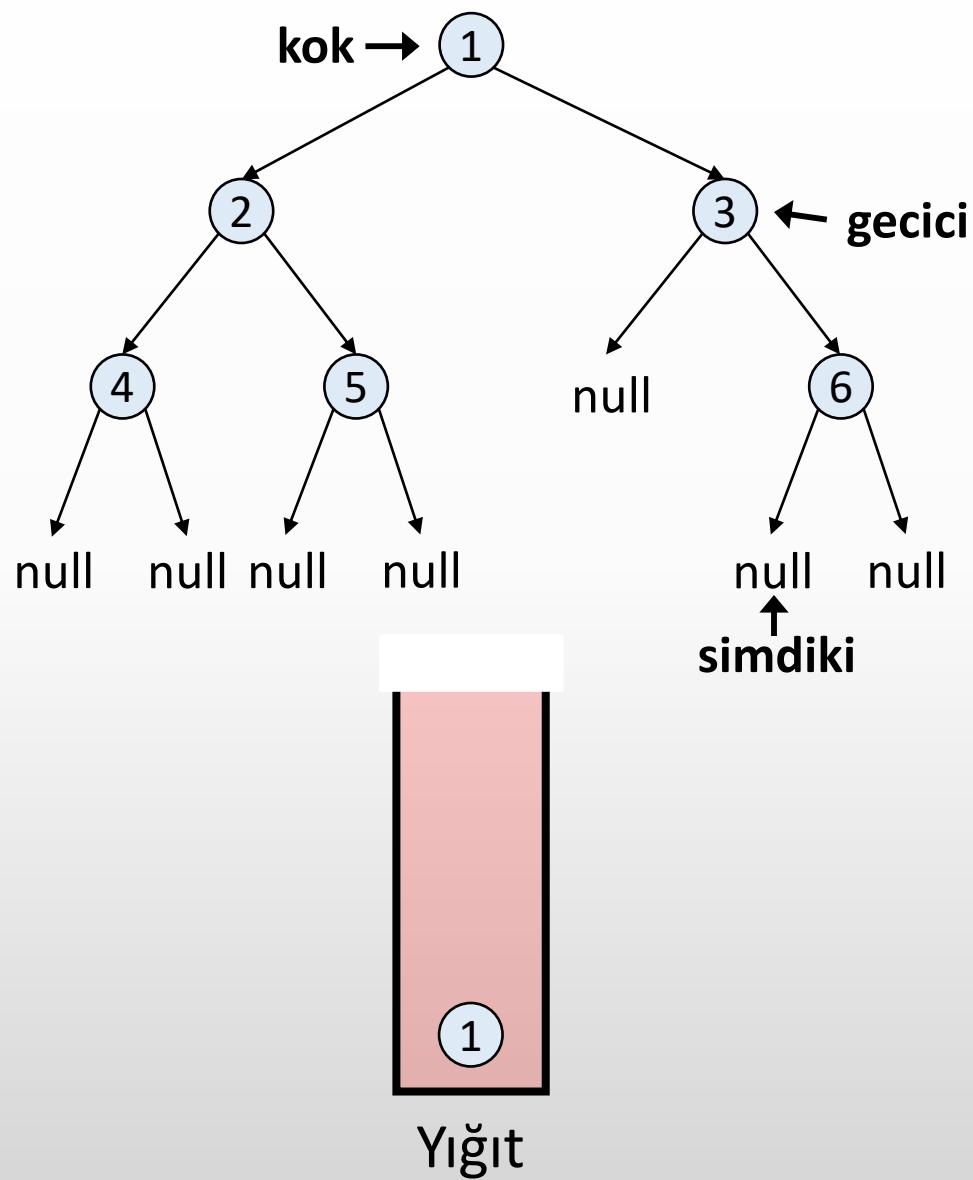
Çıktı: 4 5 2 6

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



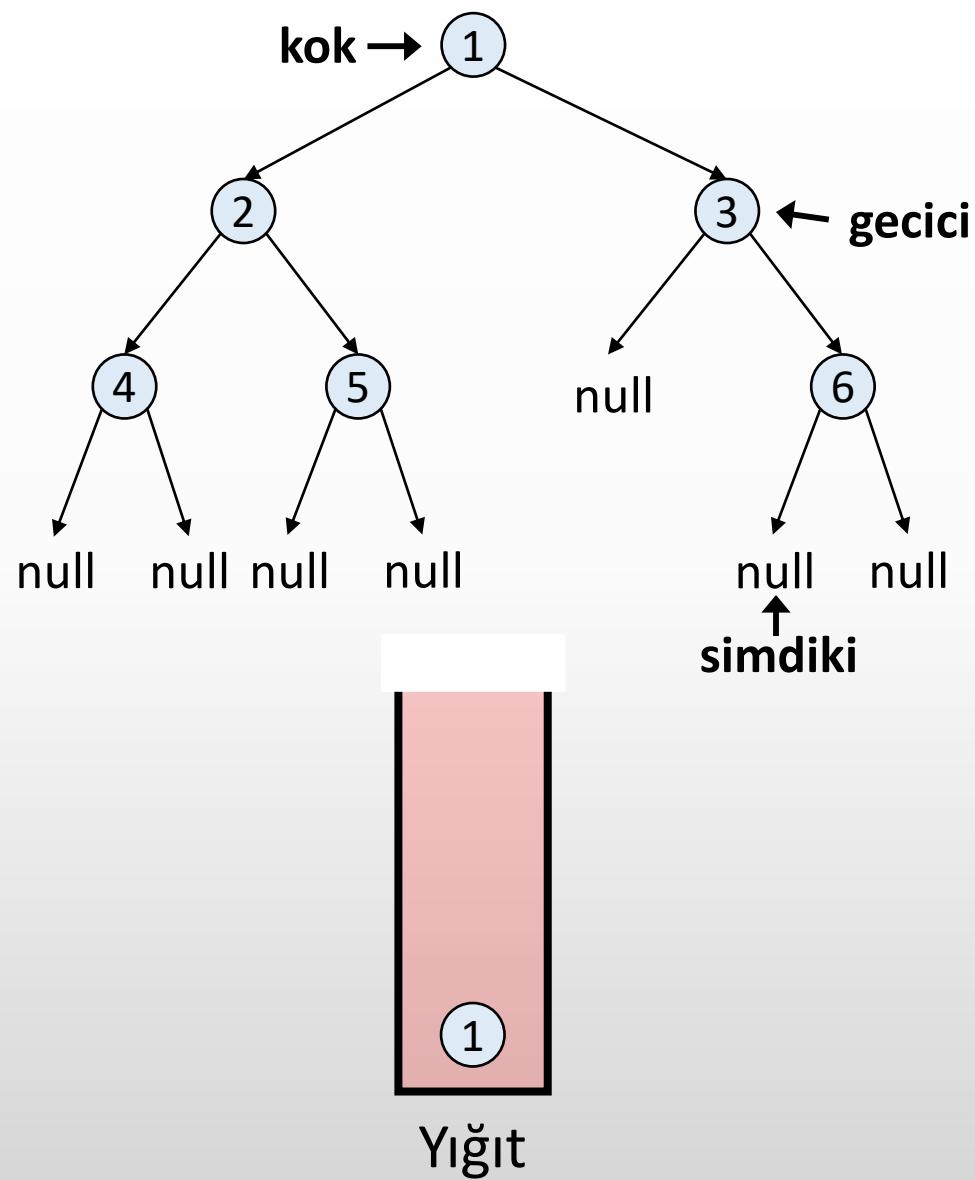
Çıktı: 4 5 2 6

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



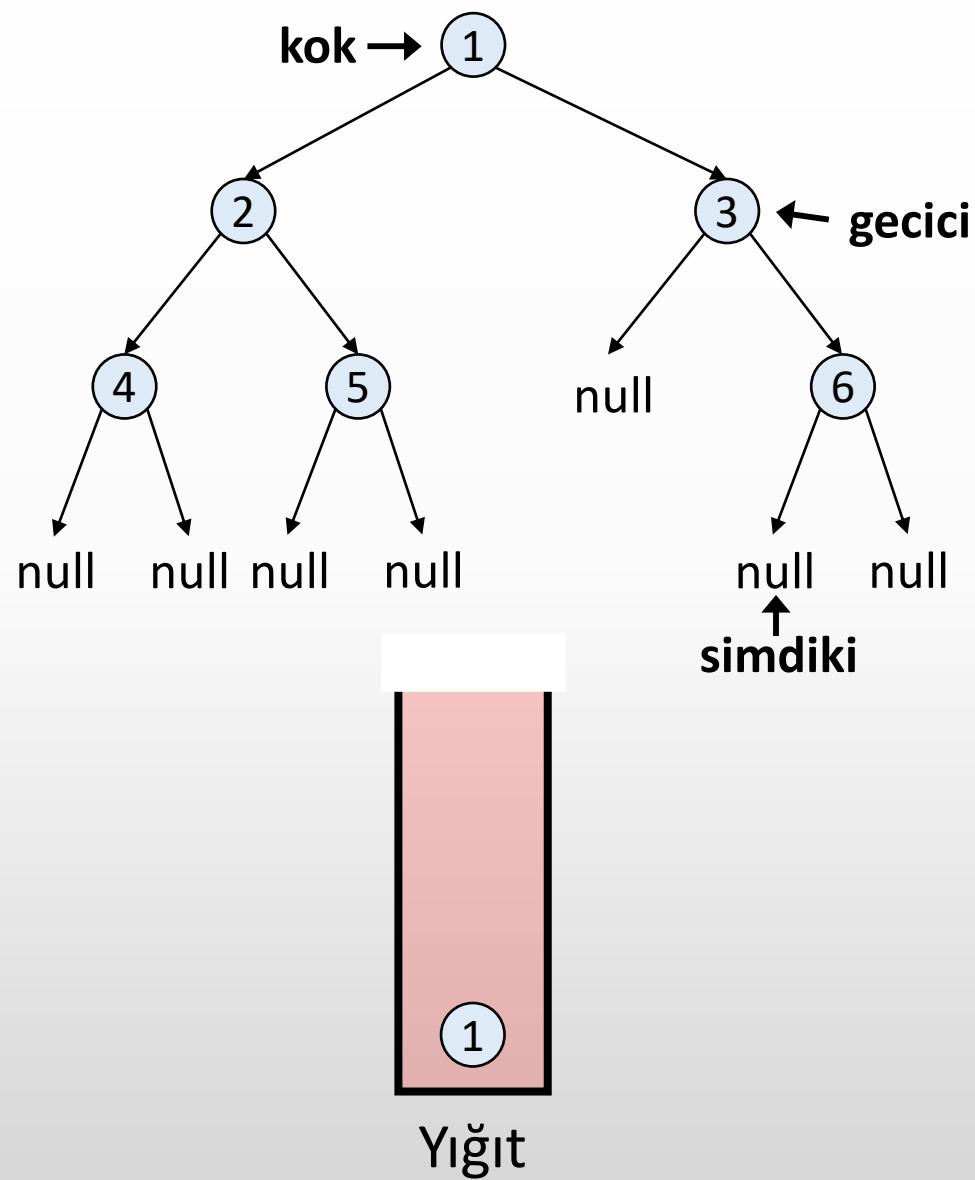
Çıktı: 4 5 2 6

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



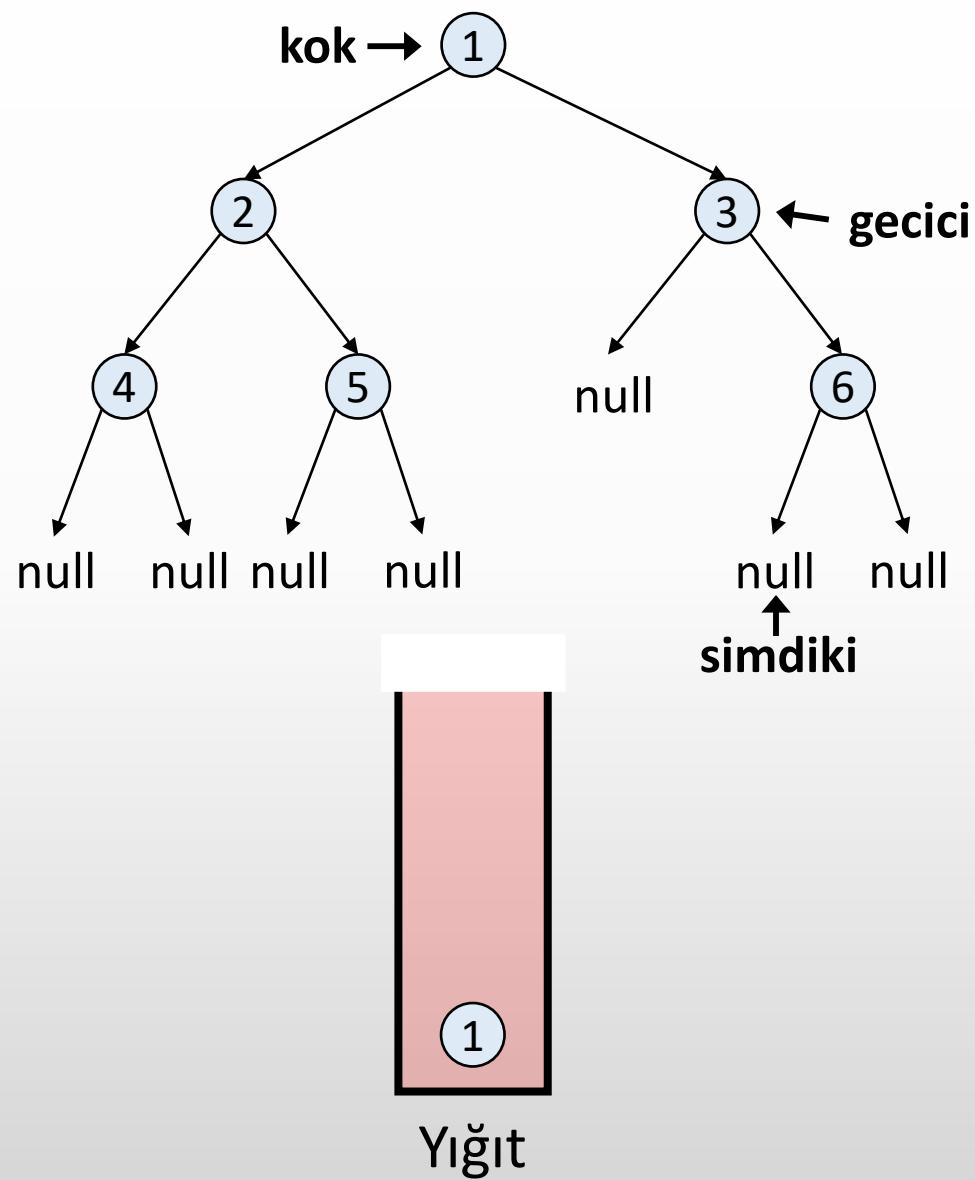
Çıktı: 4 5 2 6 3

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



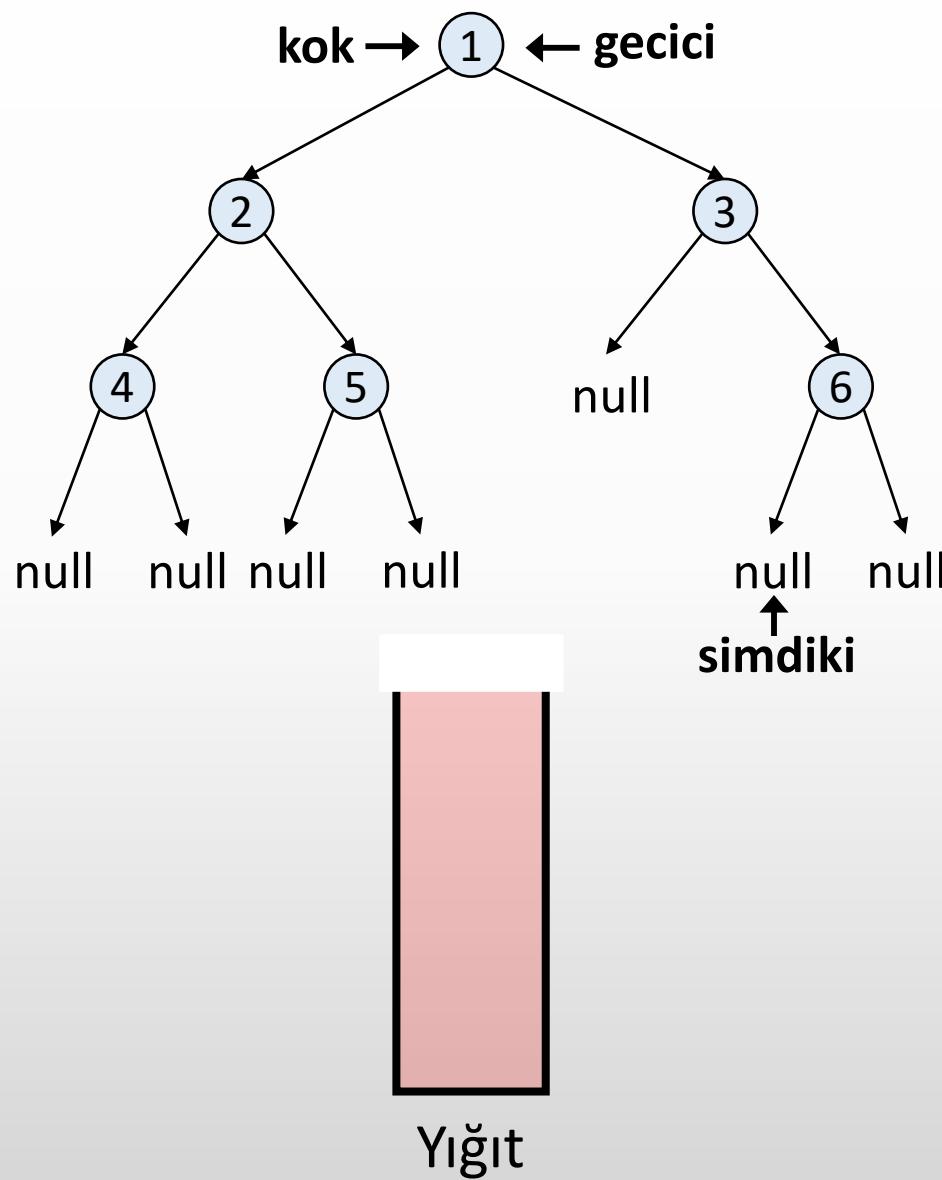
Çıktı: 4 5 2 6 3

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



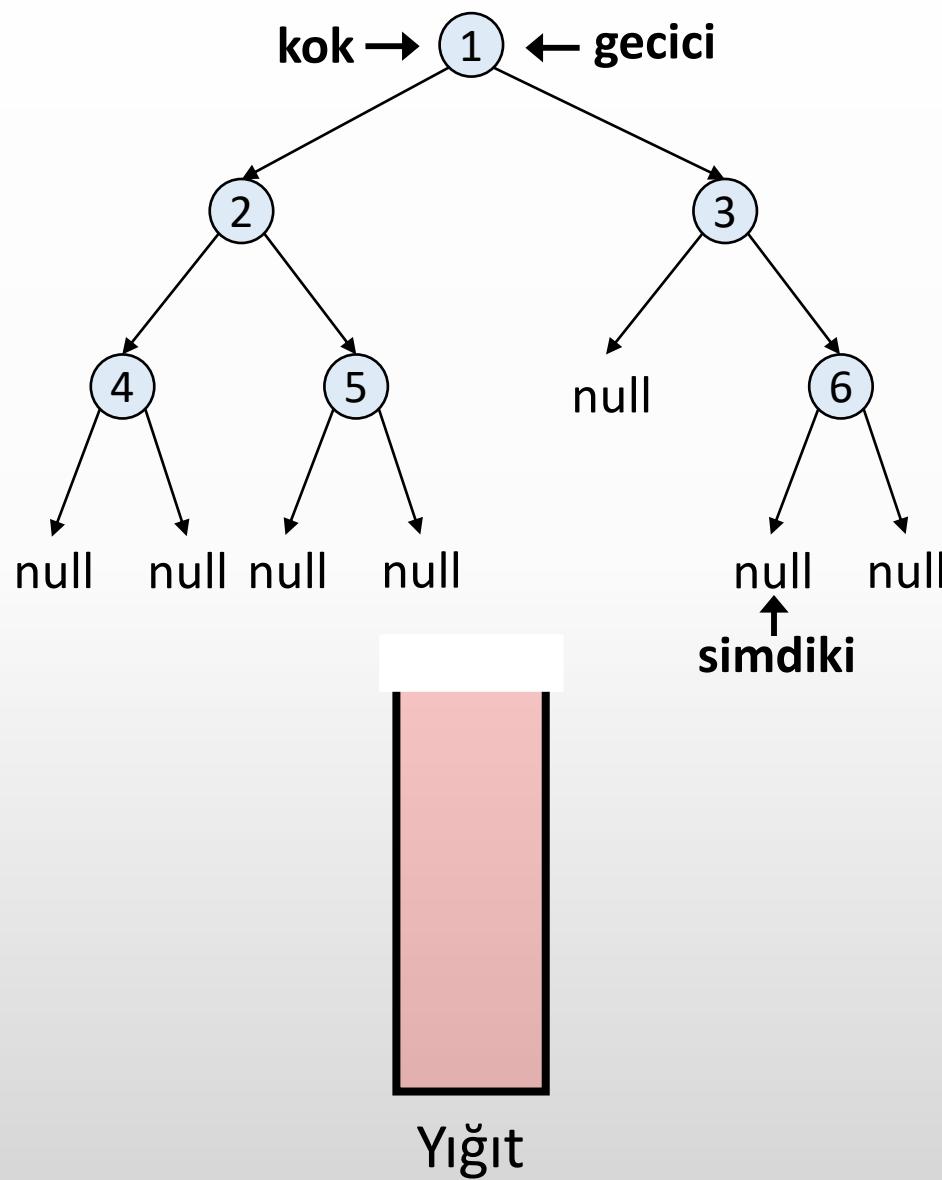
Çıktı: 4 5 2 6 3

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



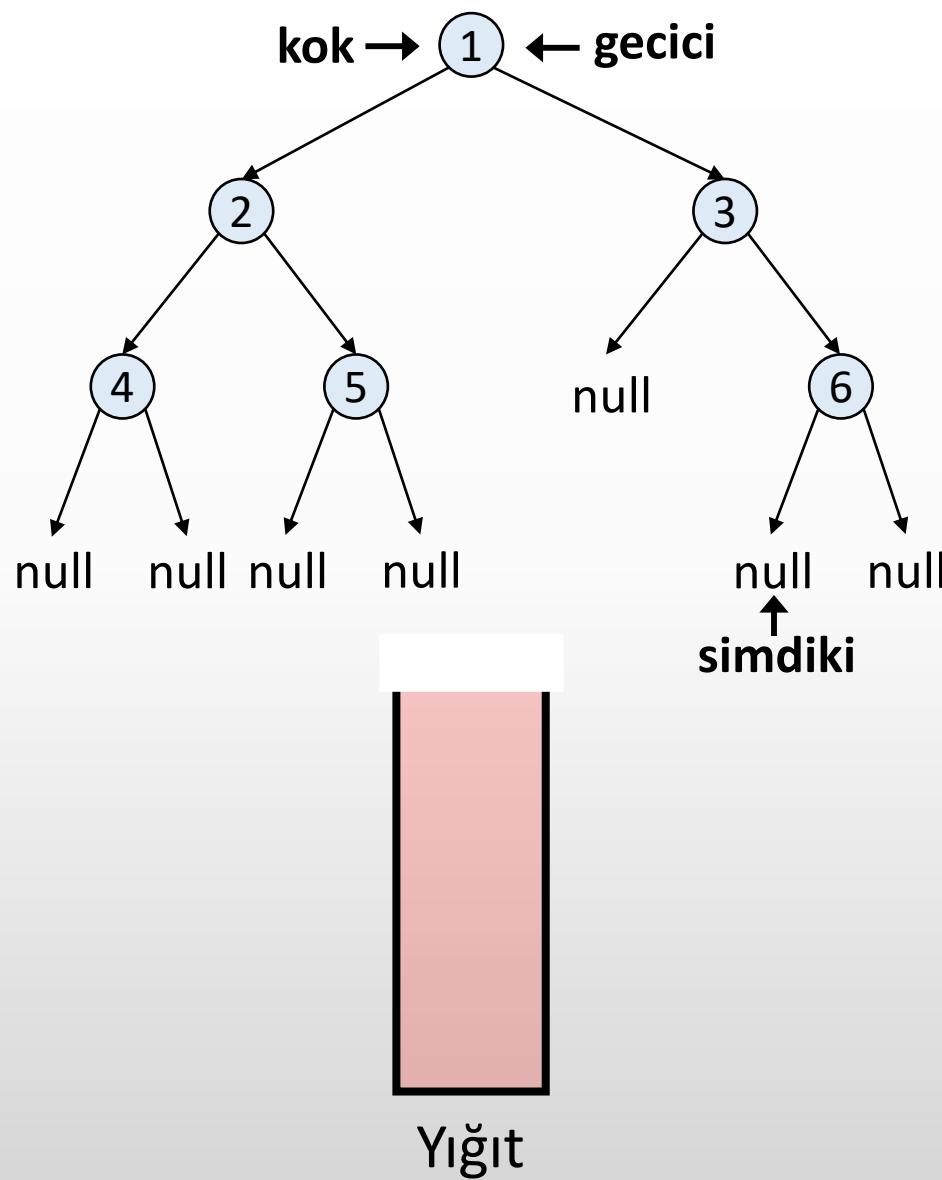
Çıktı: 4 5 2 6 3

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



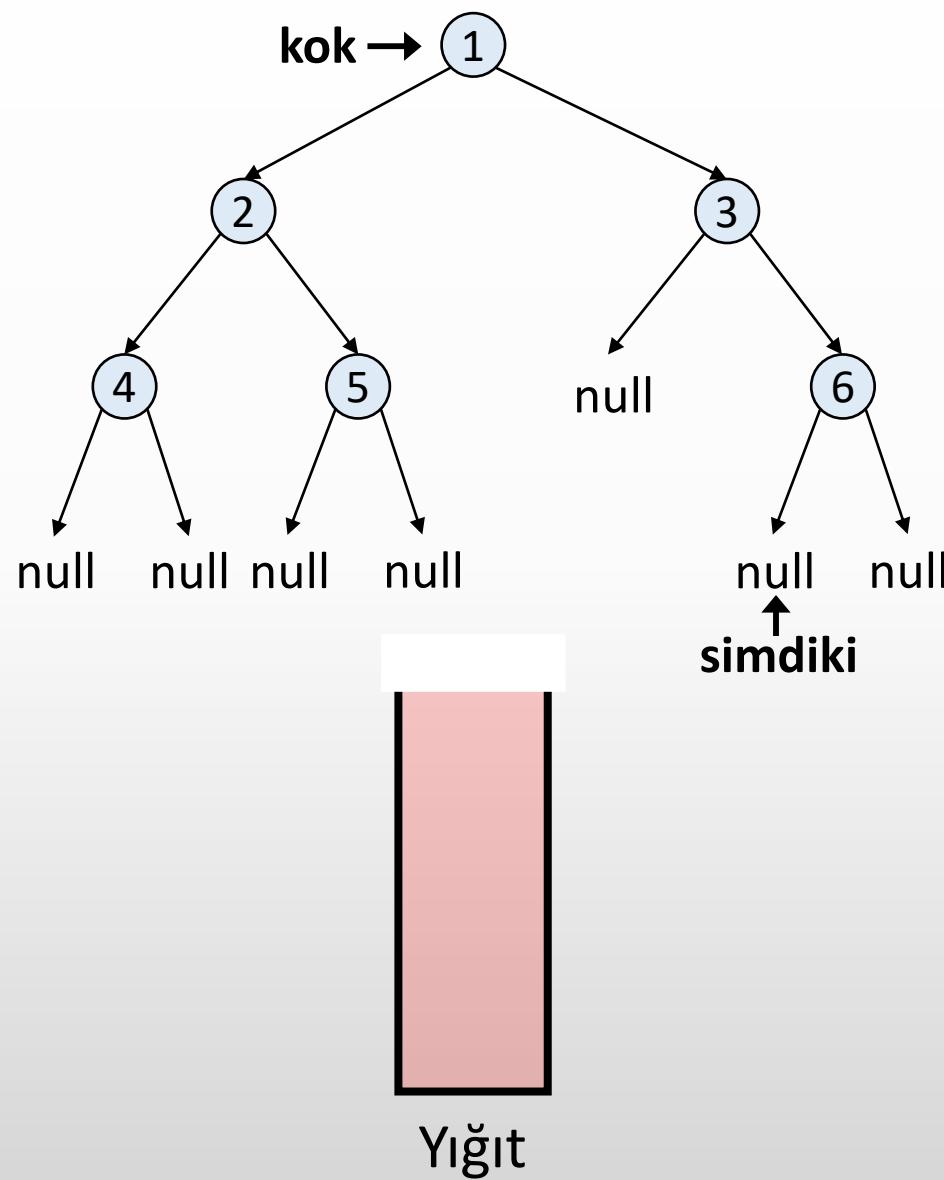
Çıktı: 4 5 2 6 3 1

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



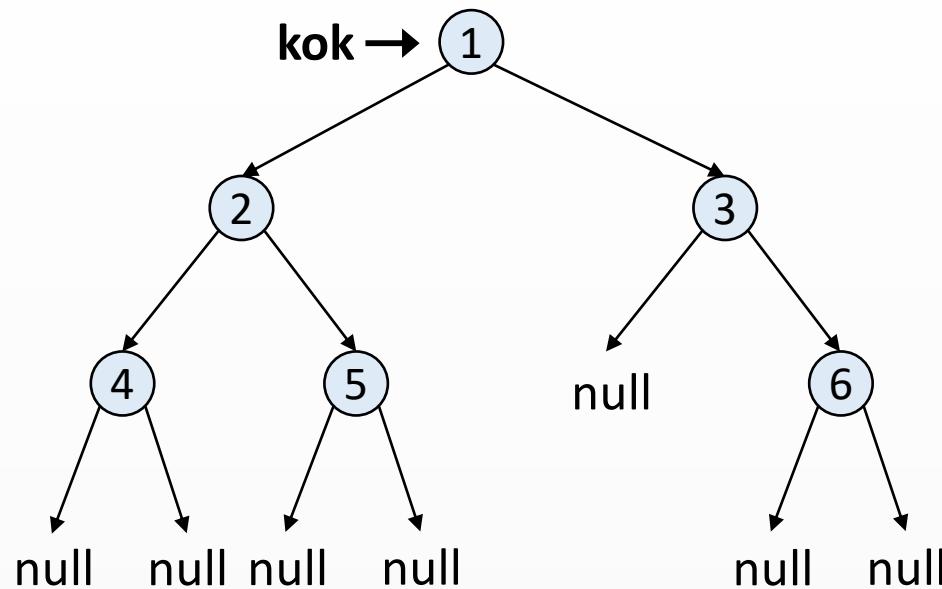
Çıktı: 4 5 2 6 3 1

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



Çıktı: 4 5 2 6 3 1

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



Çıktı: 4 5 2 6 3 1



```

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

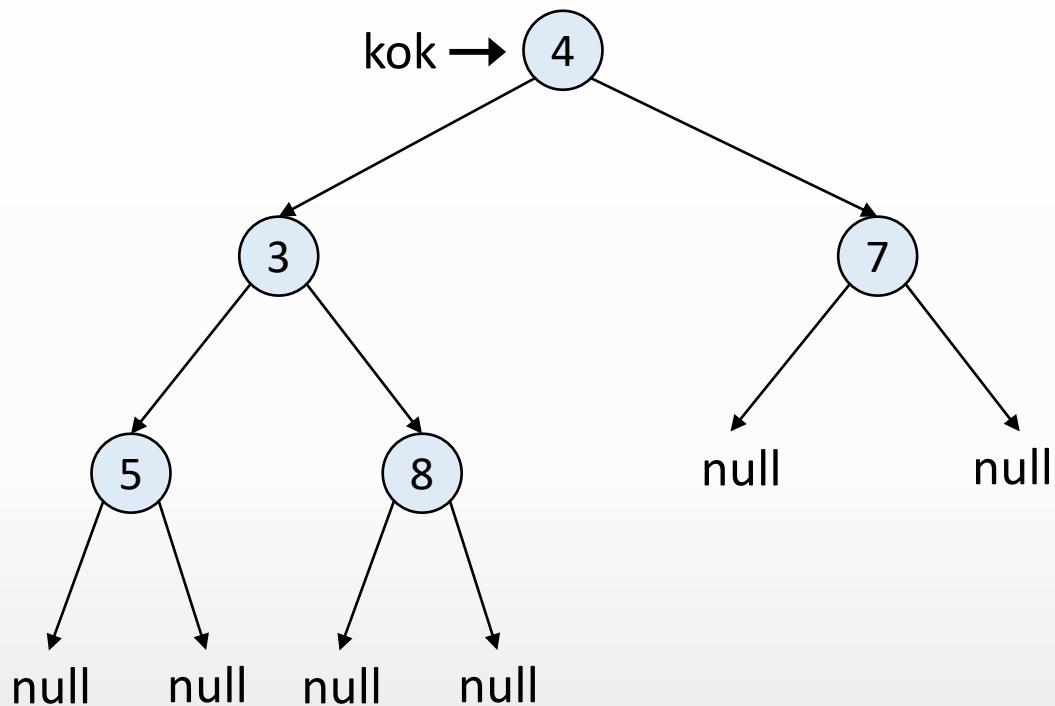
```

# İkili Ağaçta En Büyük Değeri Bulma

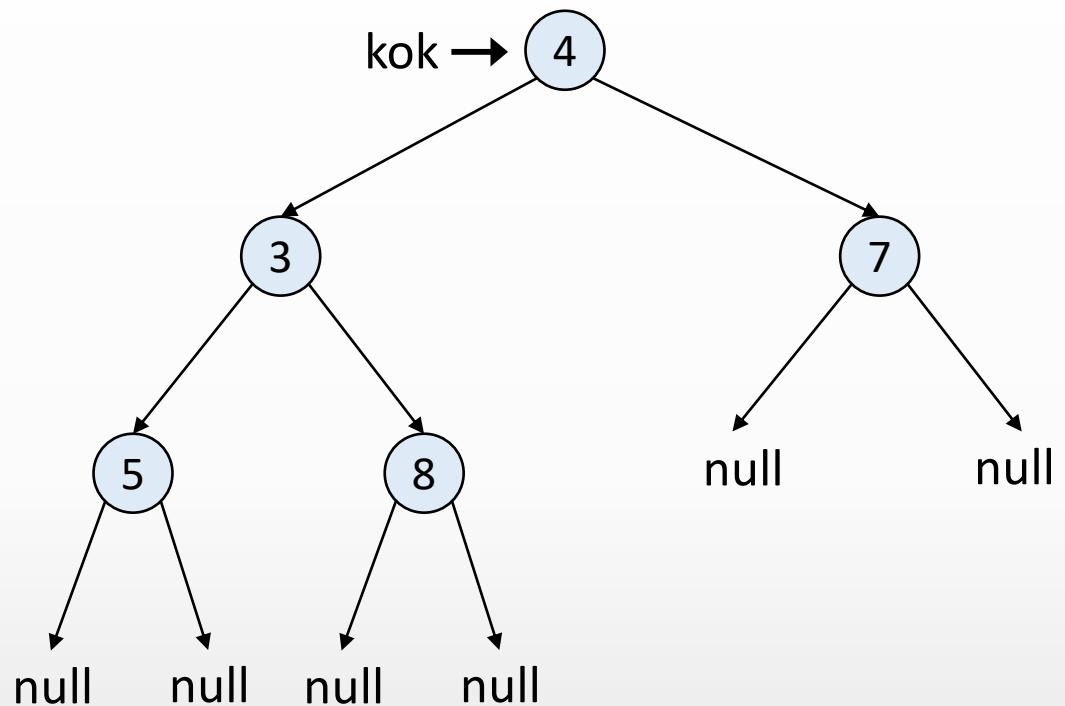




metot çağrımı	satır no	kok	sonuc	sol	sag
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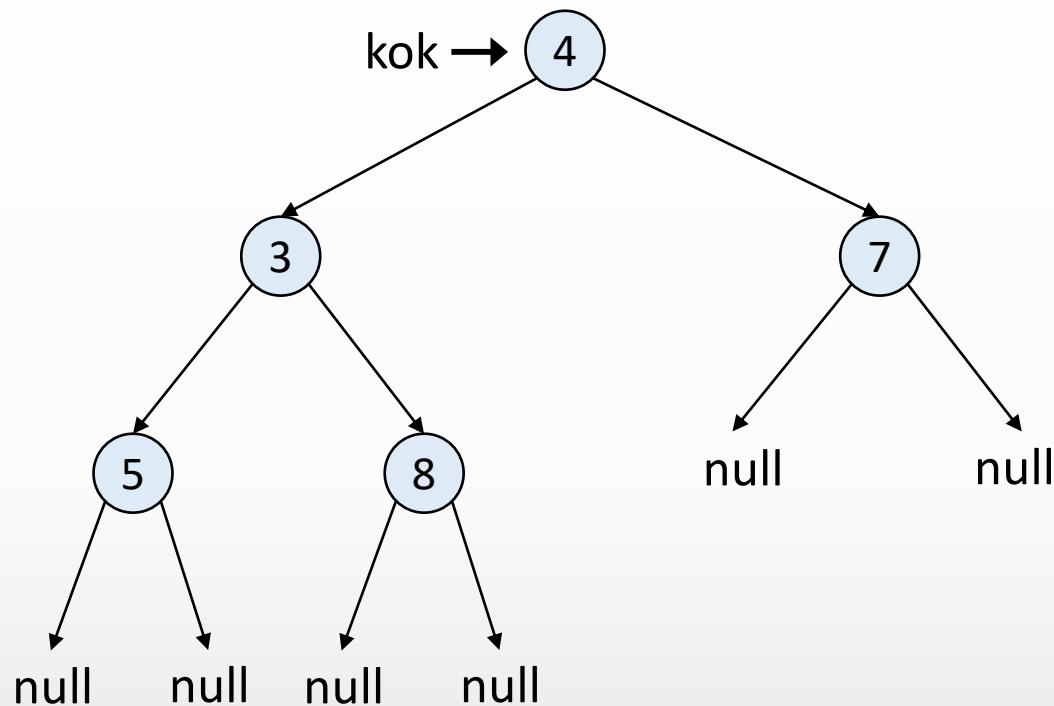
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

→

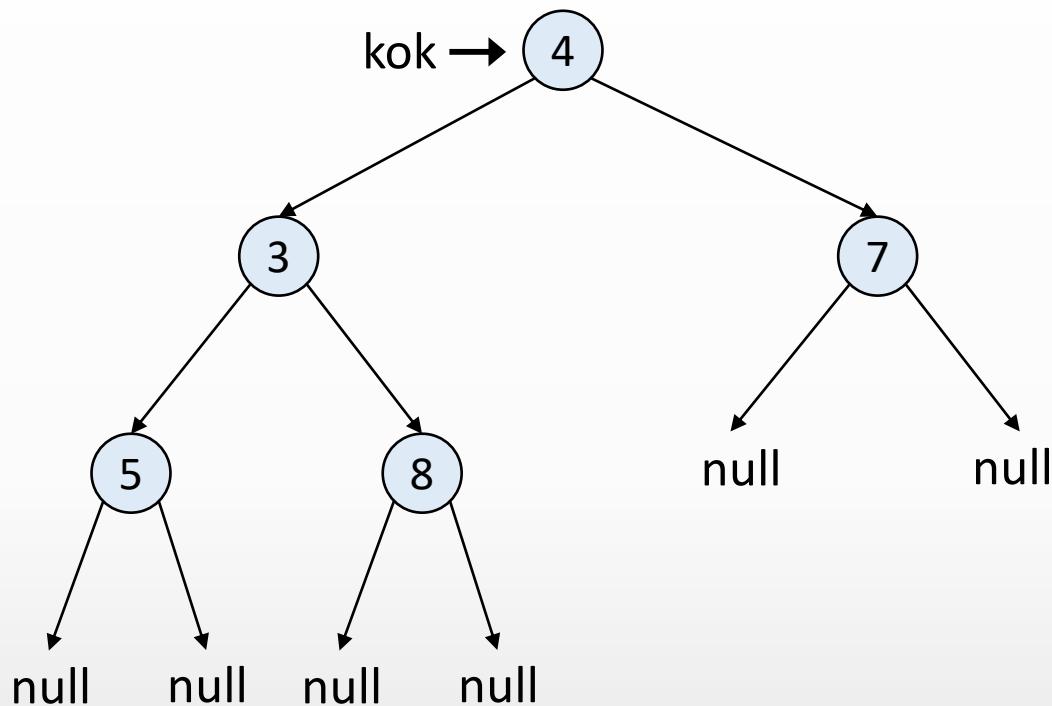
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

→

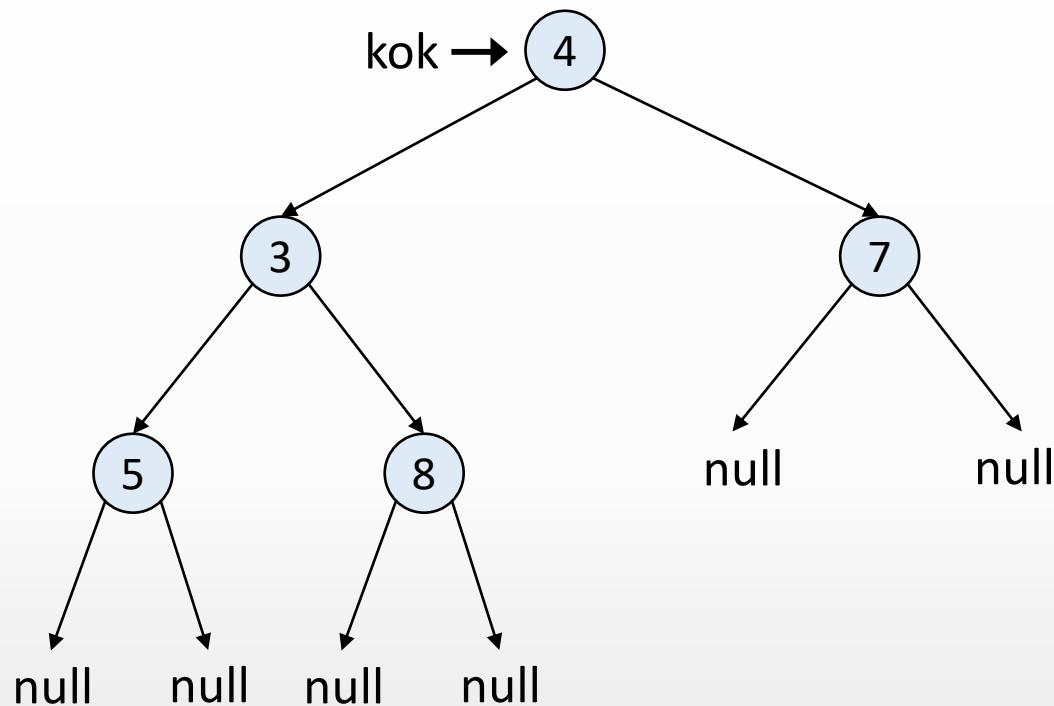
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4	4		



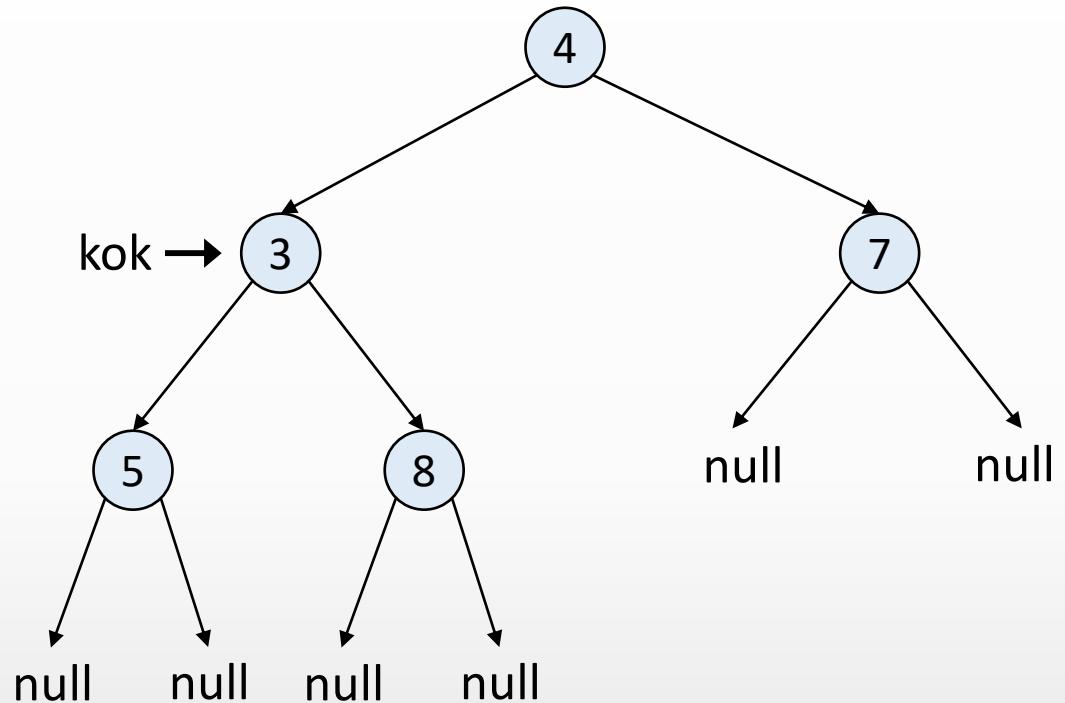
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



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

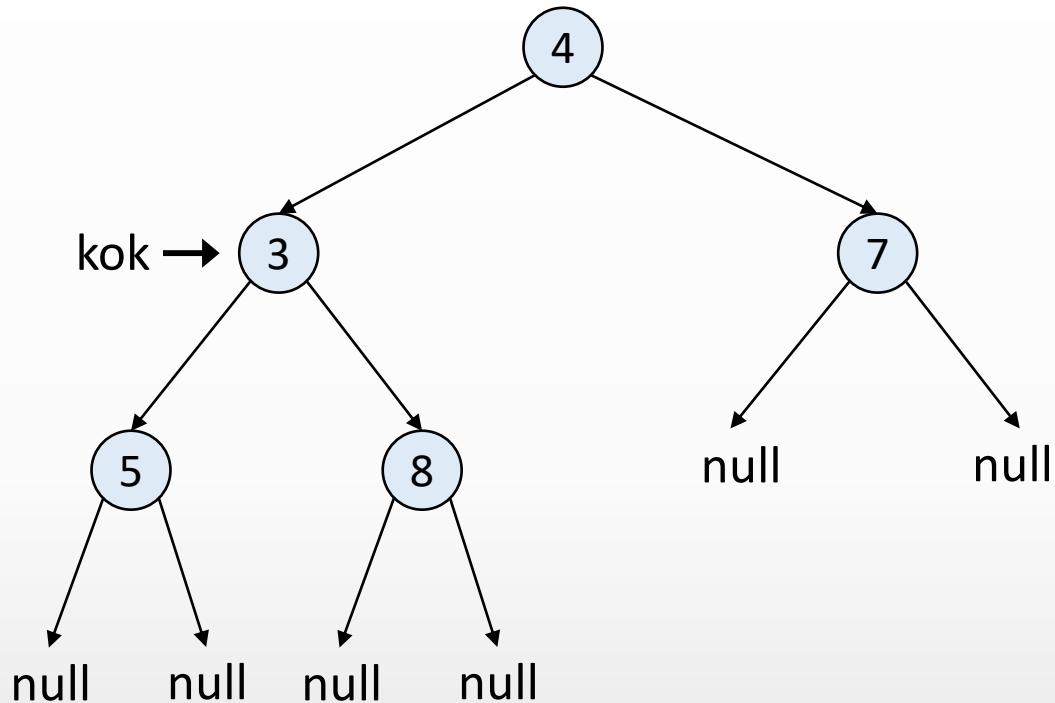


```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



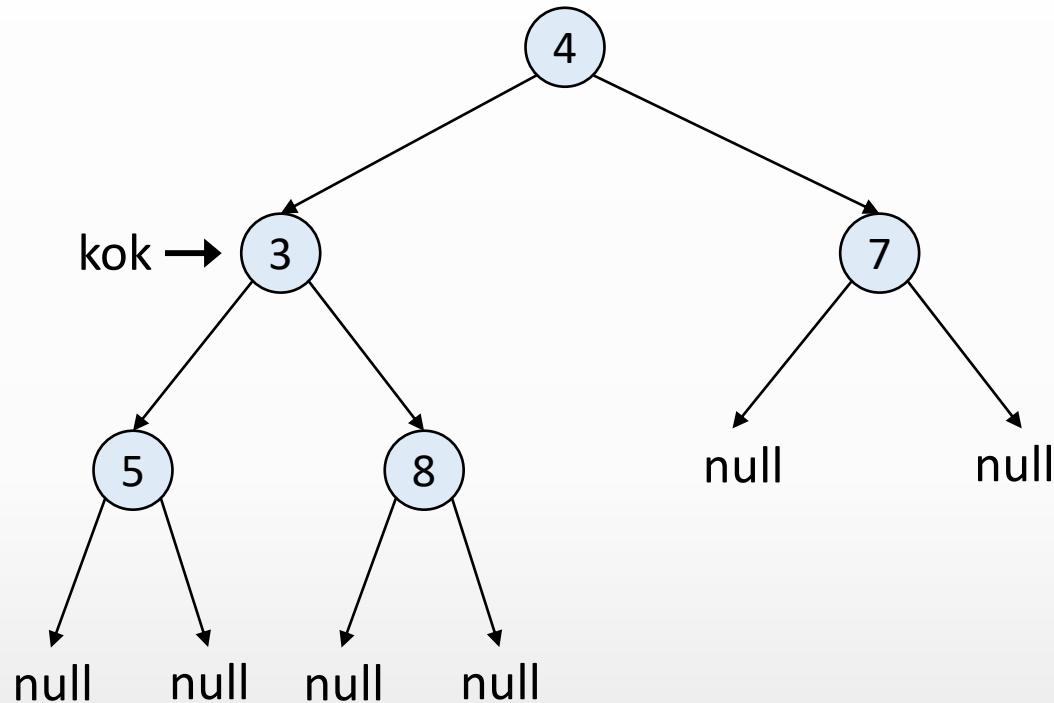
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			

```
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 }
```



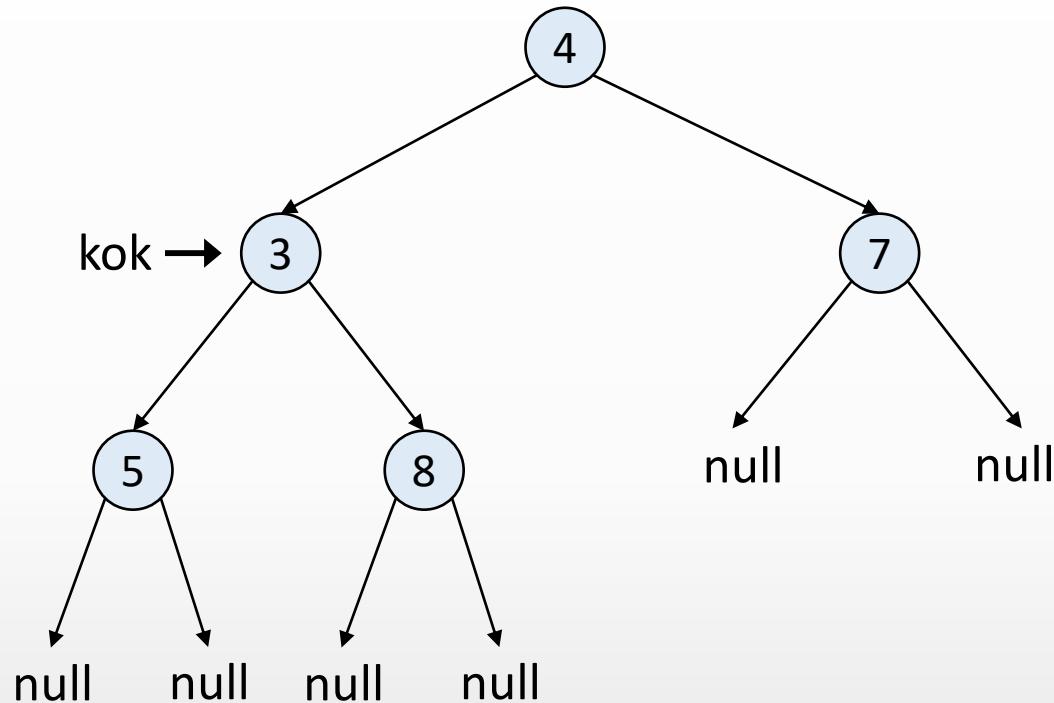
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			

```
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		

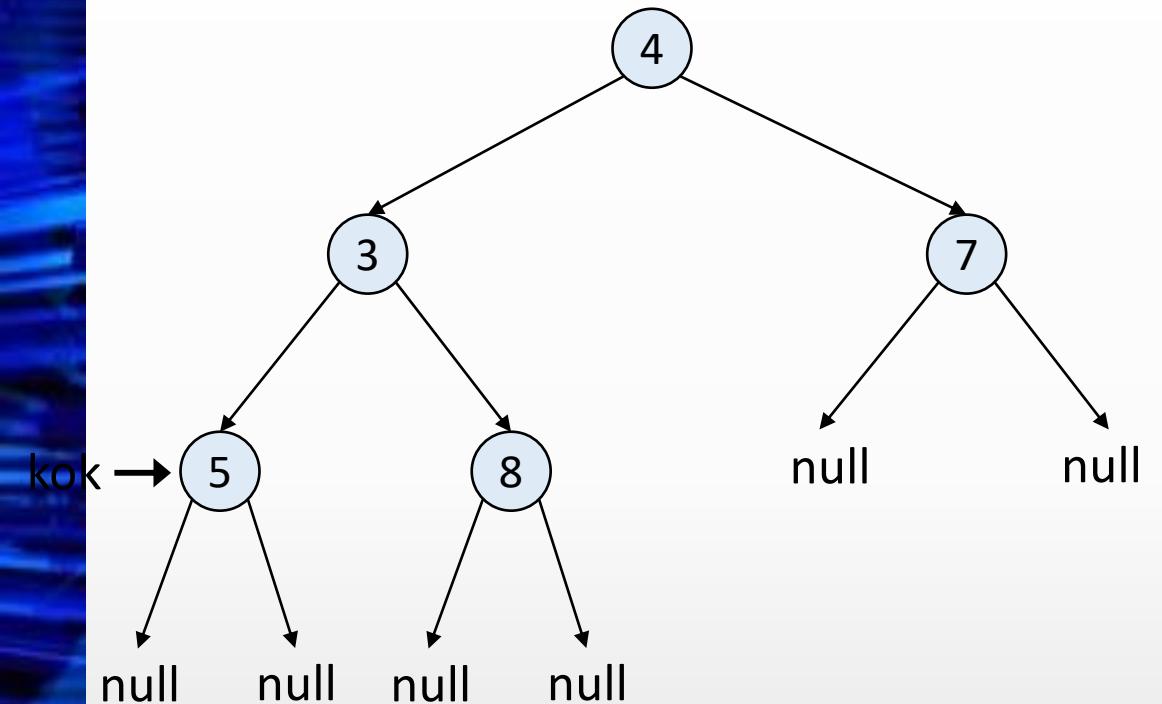
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



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

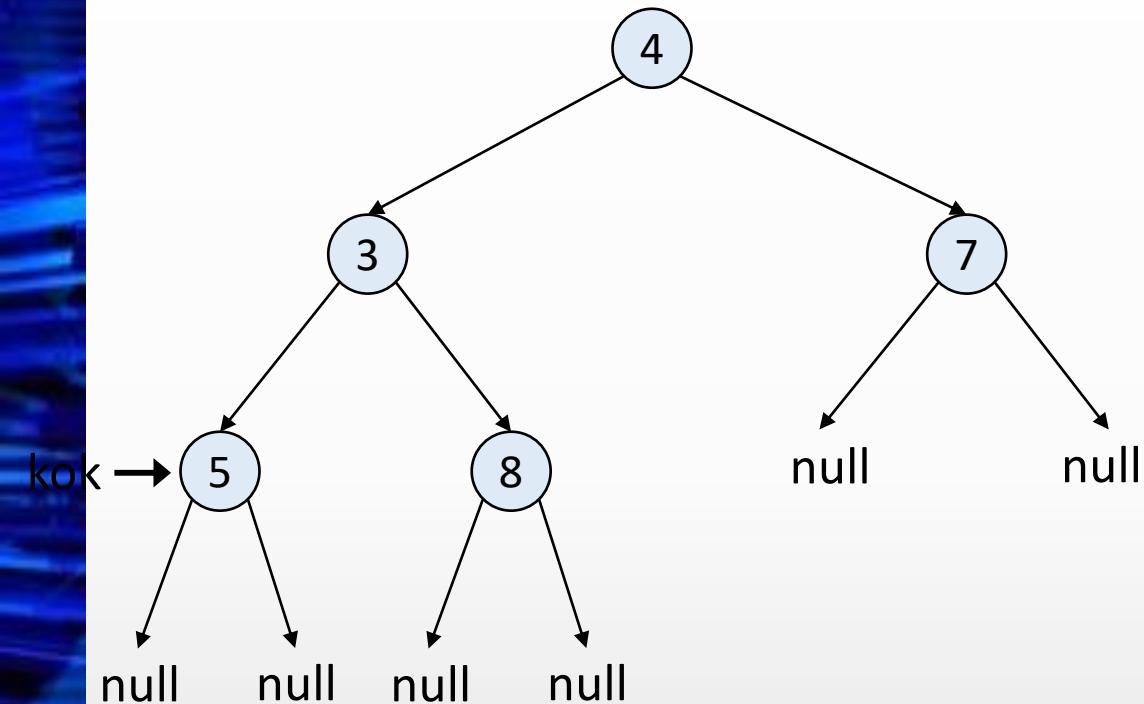


```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



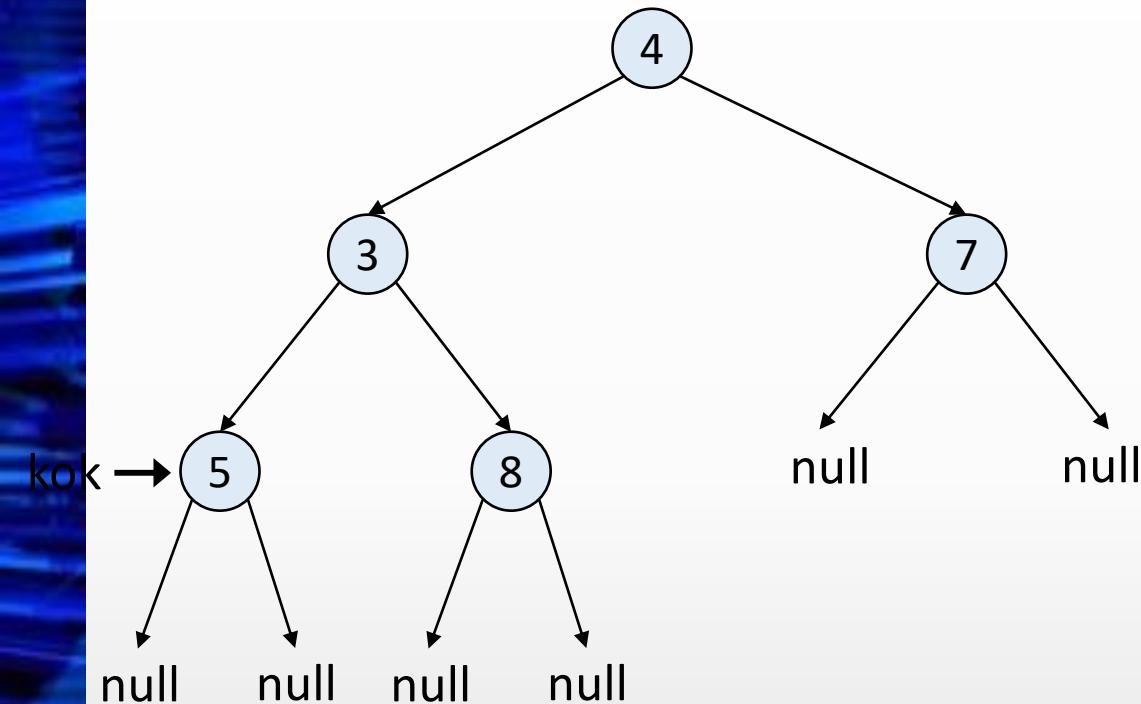
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			

```
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 }
```



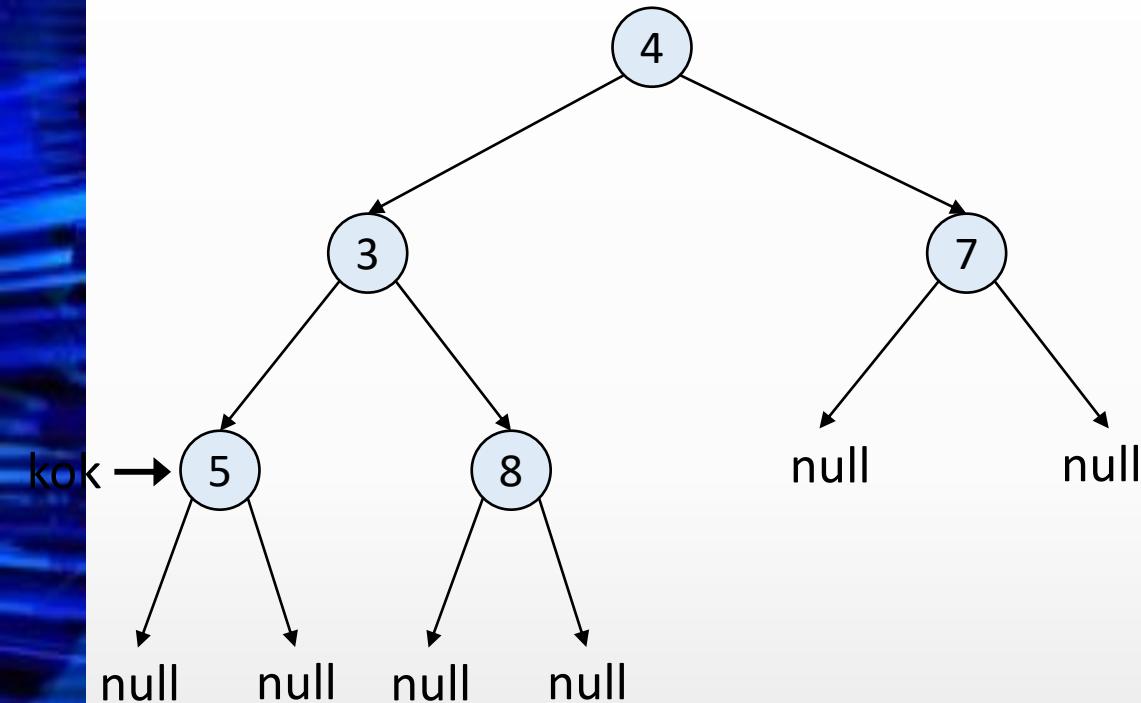
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			

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



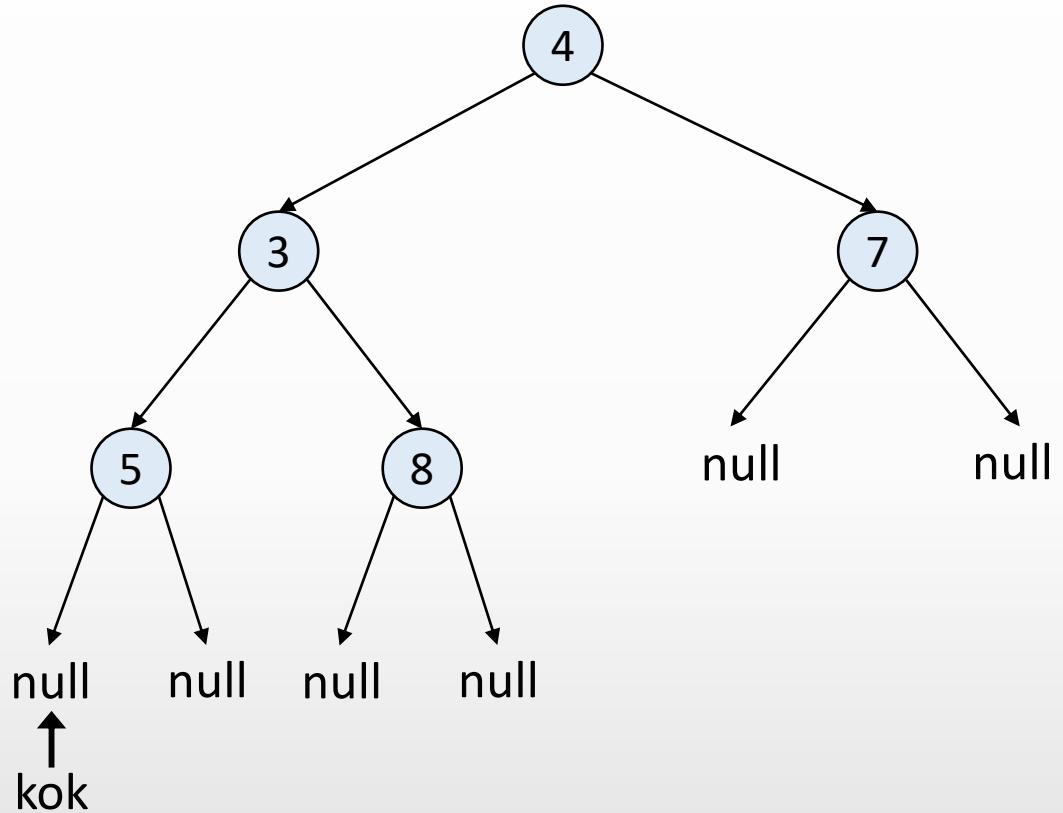
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5	5		

```
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 }
```



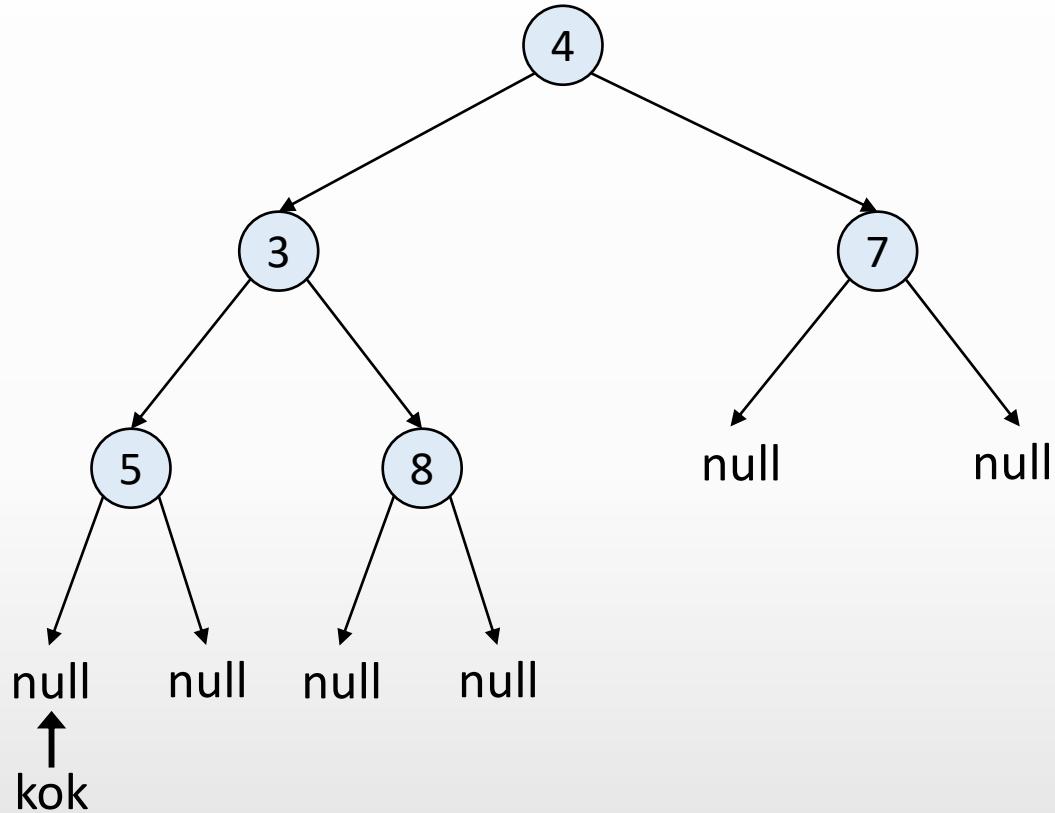
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

```
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 }
```



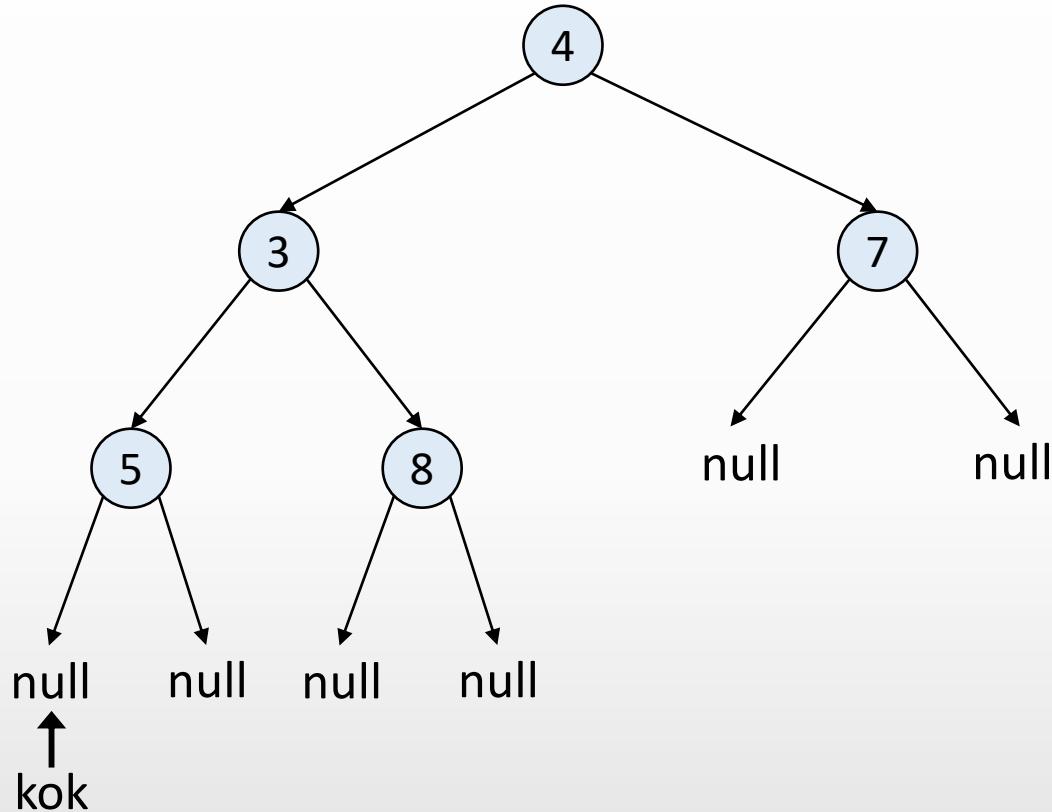
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			

```
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			

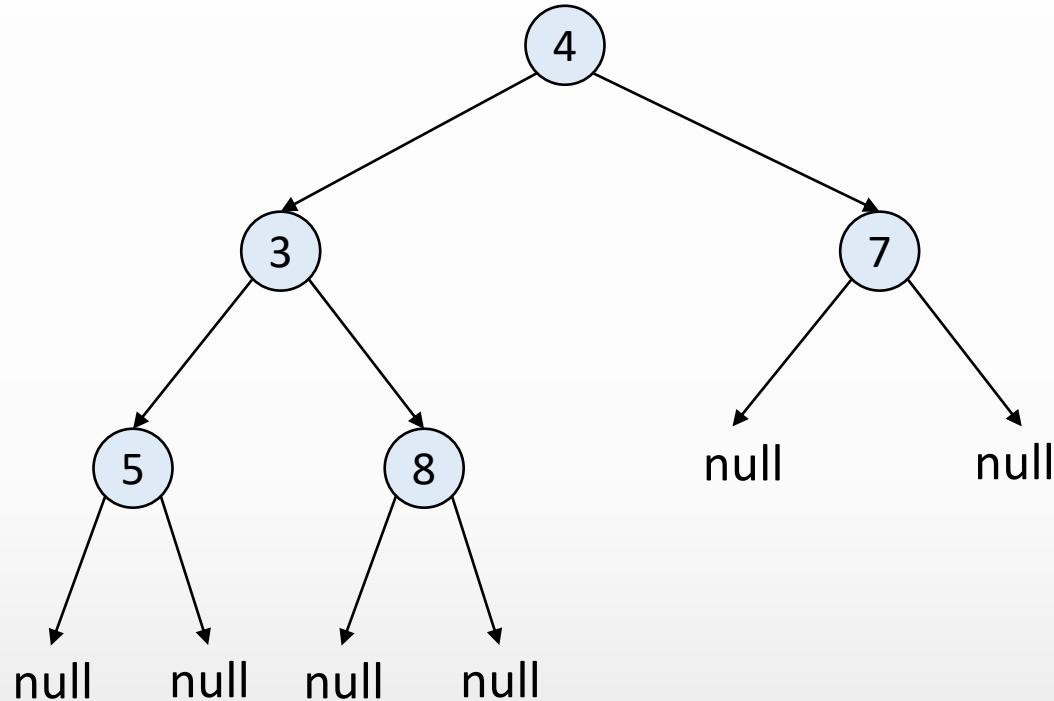
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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

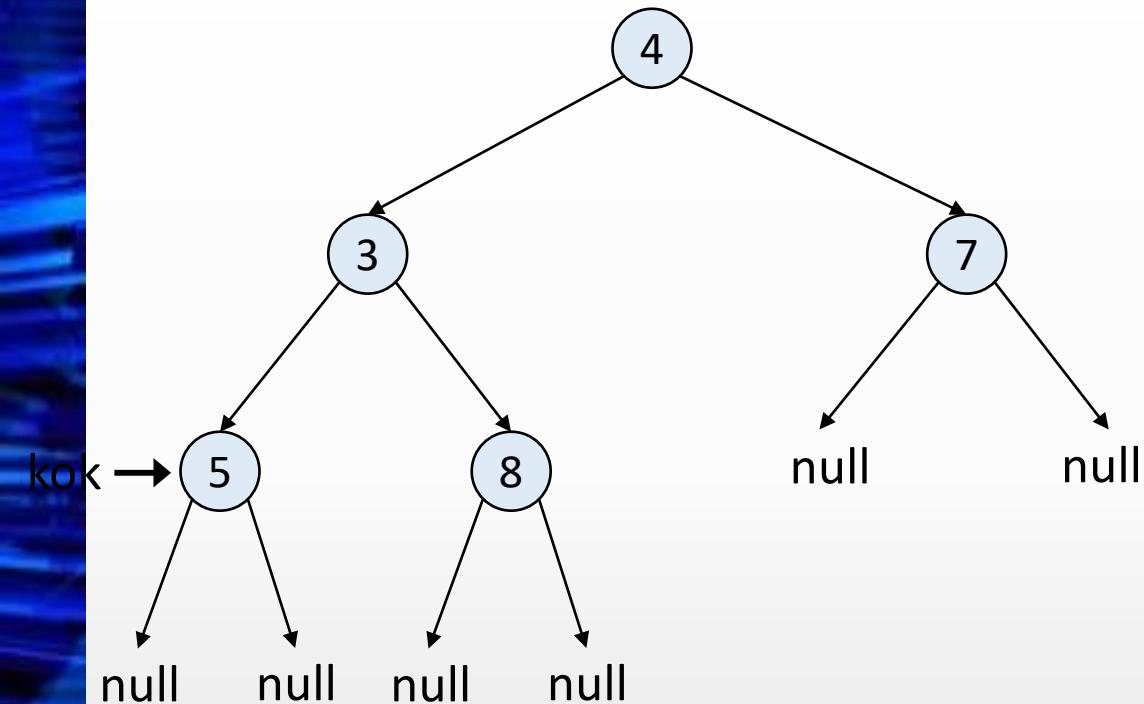
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

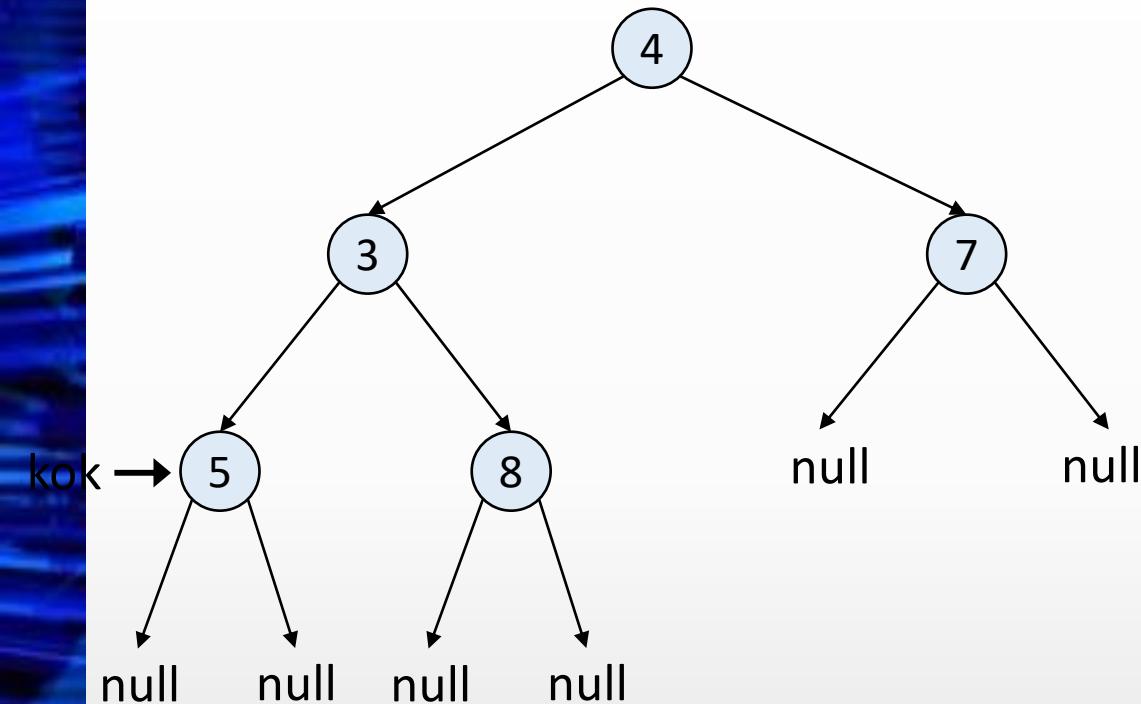
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

```
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	

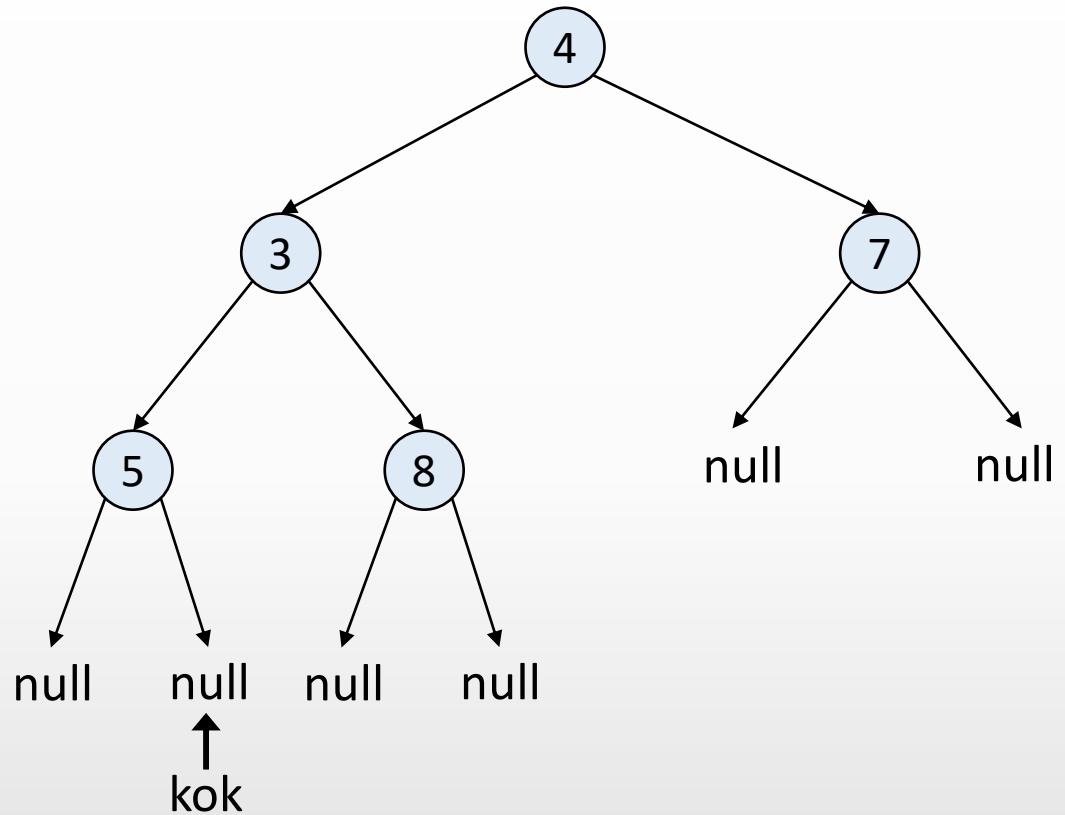
```
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2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag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

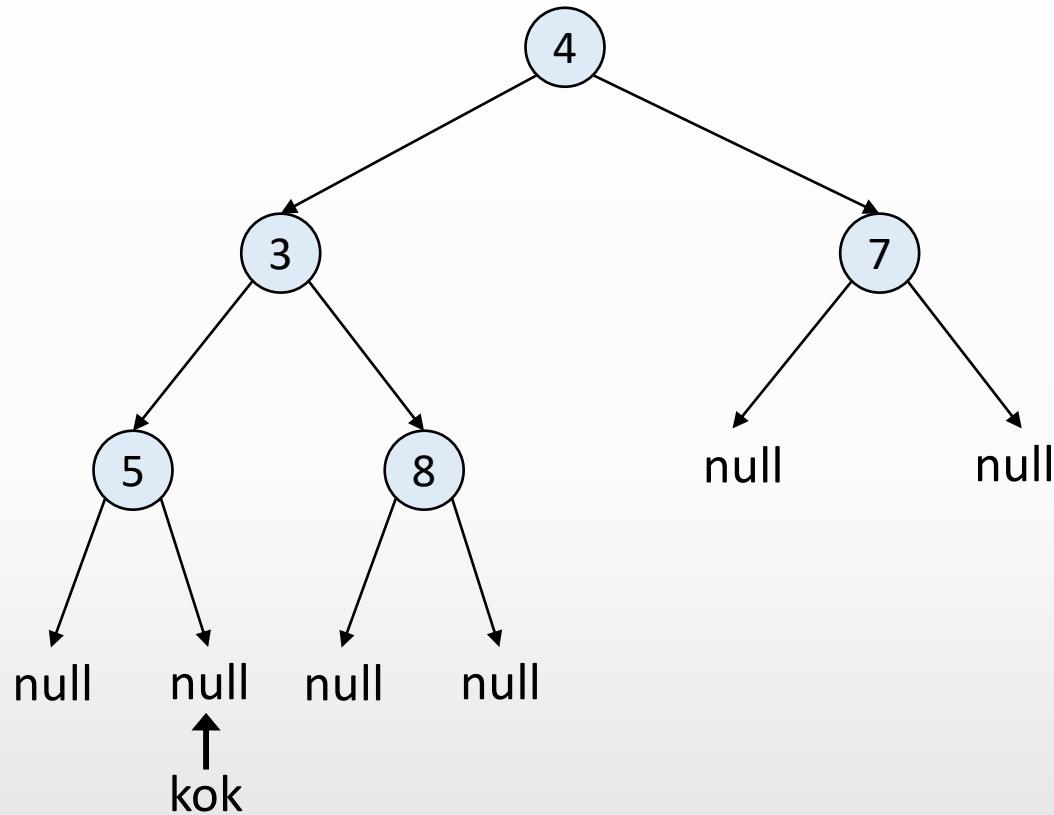
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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

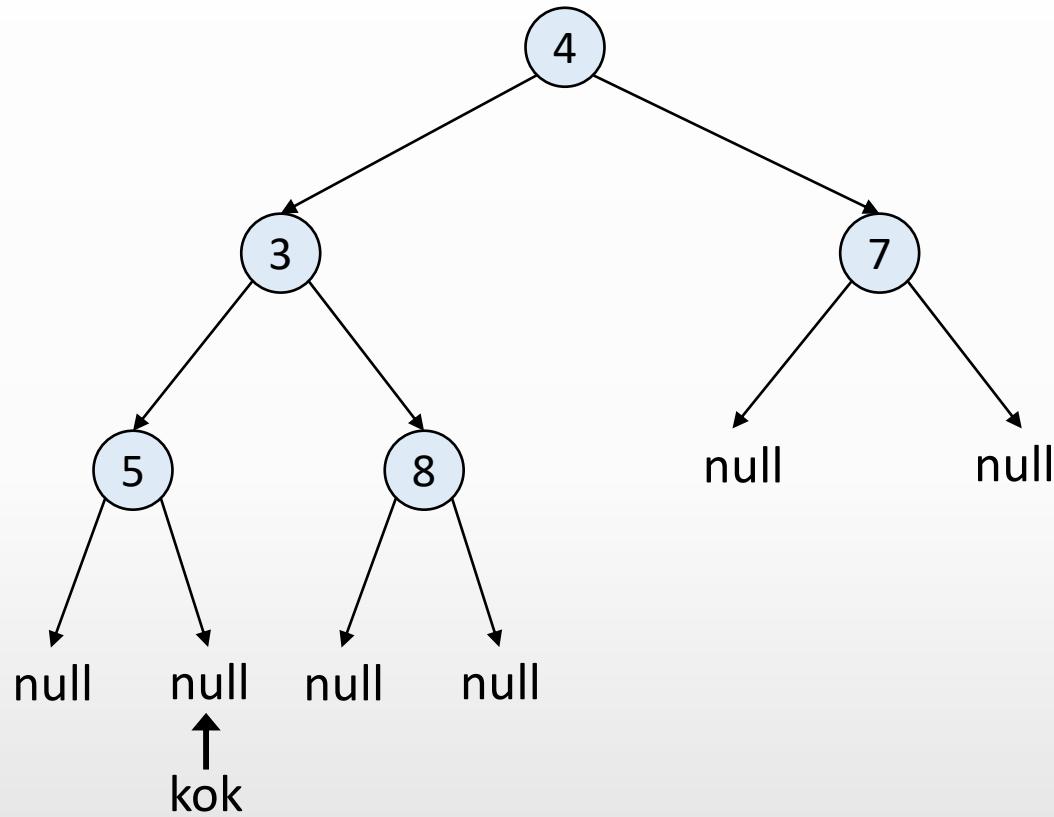
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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

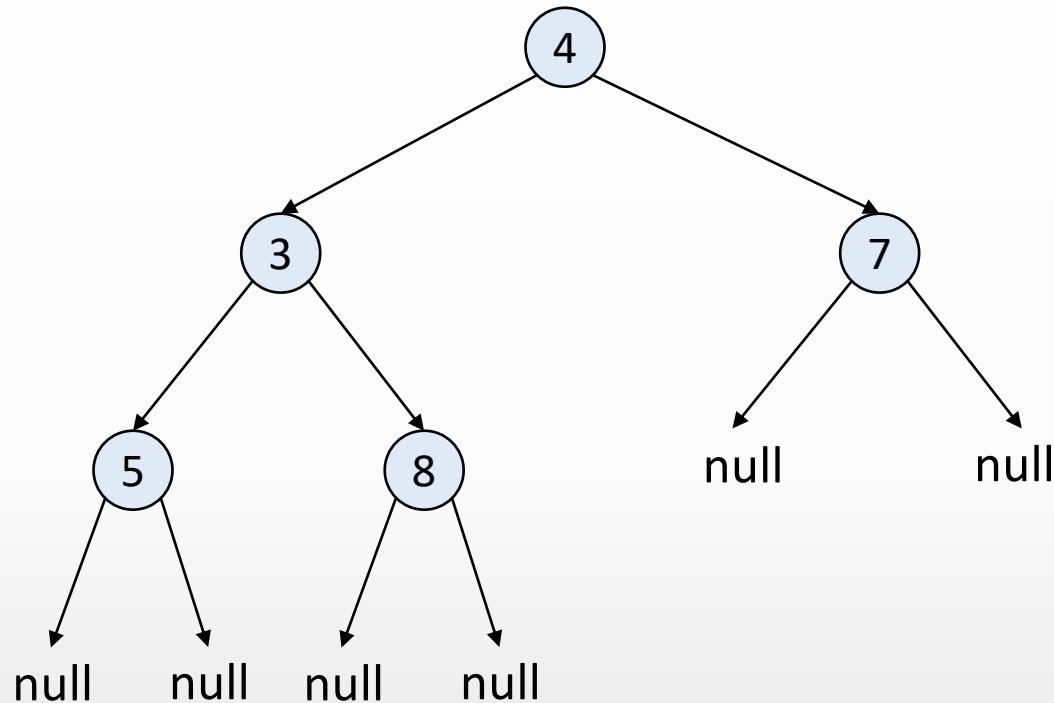
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag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

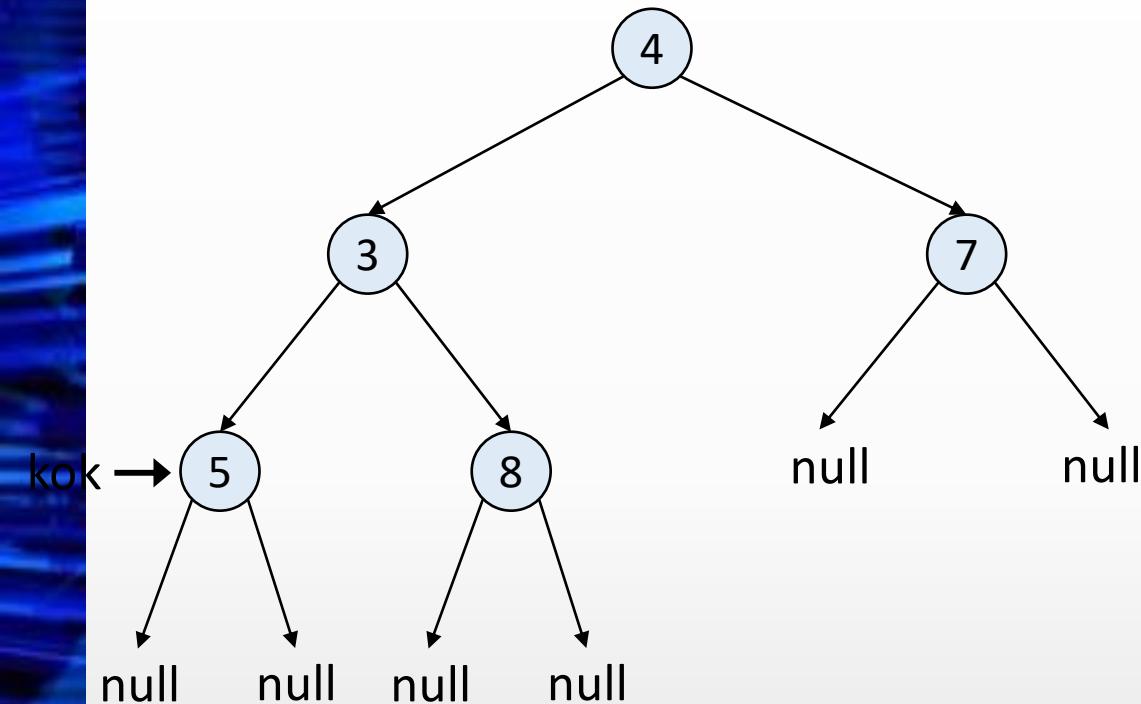
```
1 public int enBuyukBul(AgacDugumu kok) {  
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6     int sol = enBuyukBul(kok.sol);  
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```



IMV = -2147483648

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

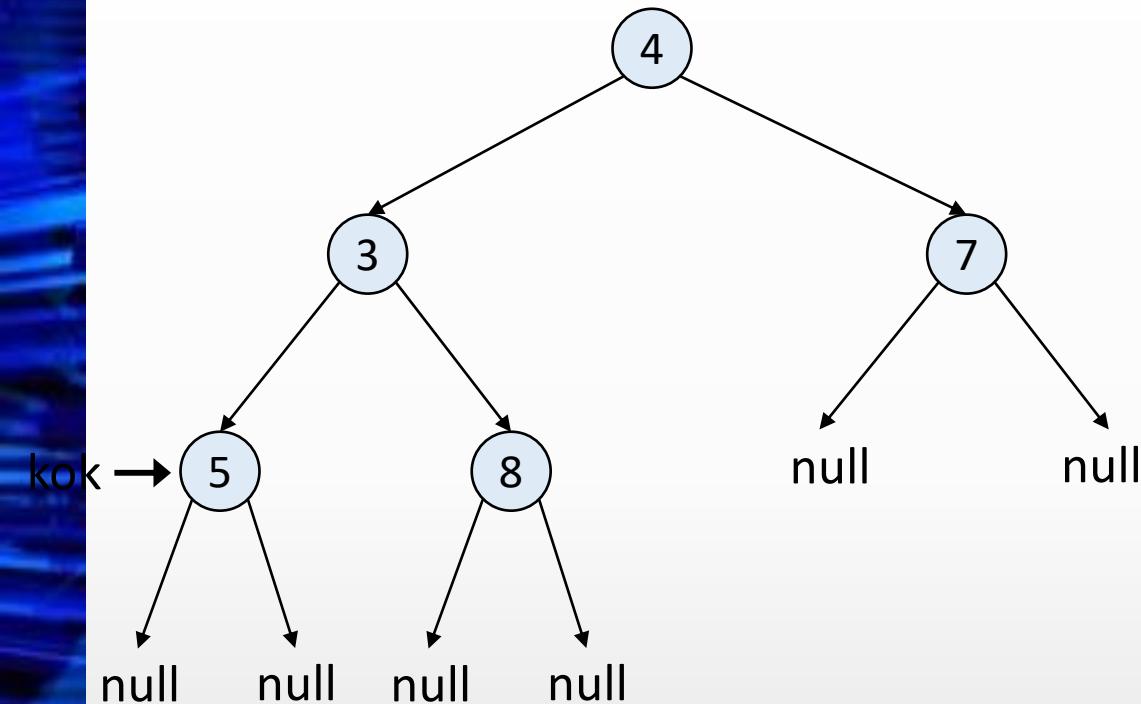
```
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11        sonuc = sag;  
12    return sonuc;  
13 }
```



IMV = -2147483648

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

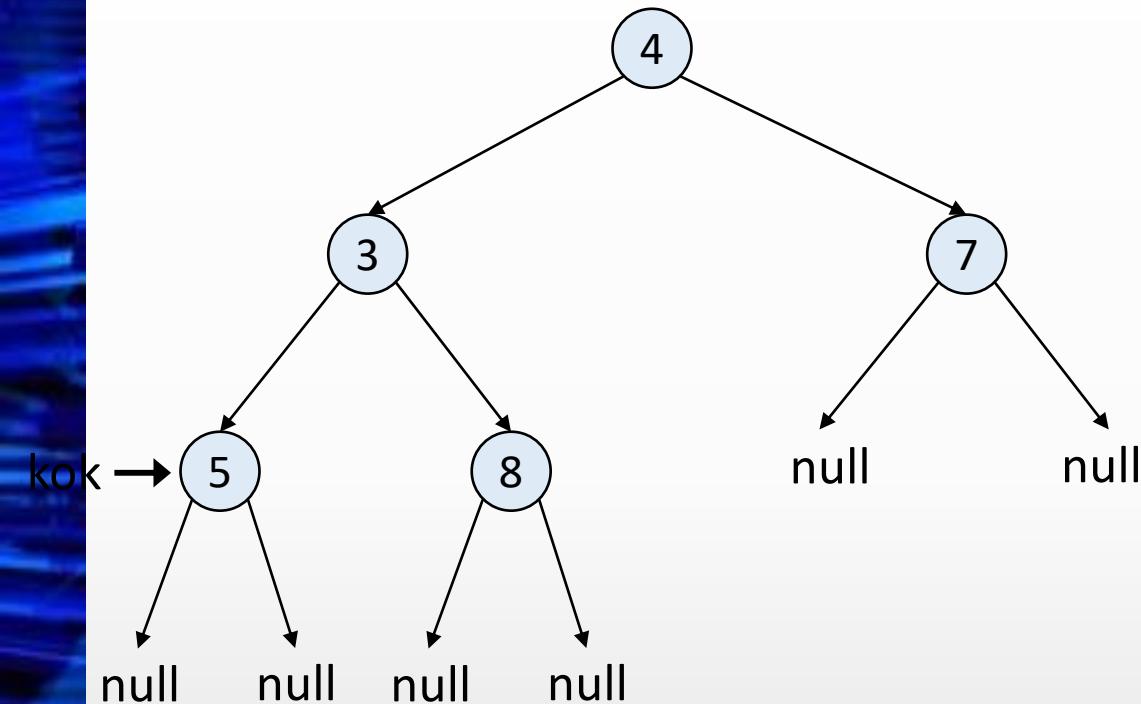
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



IMV = -2147483648

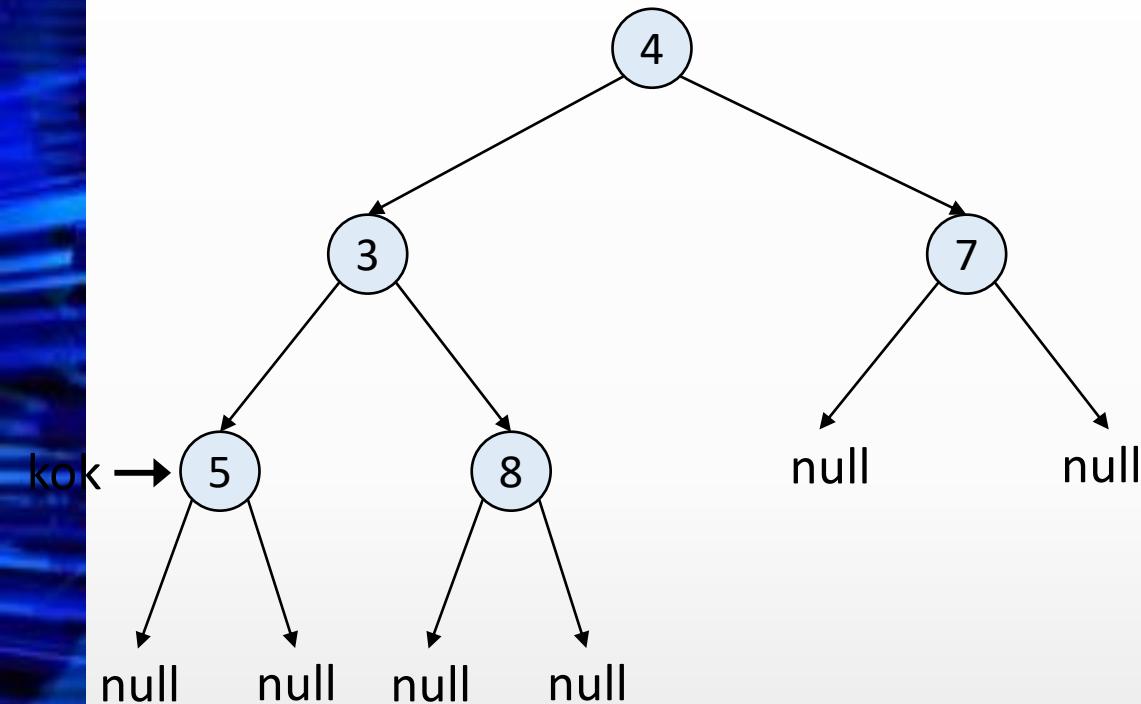
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	IMV

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

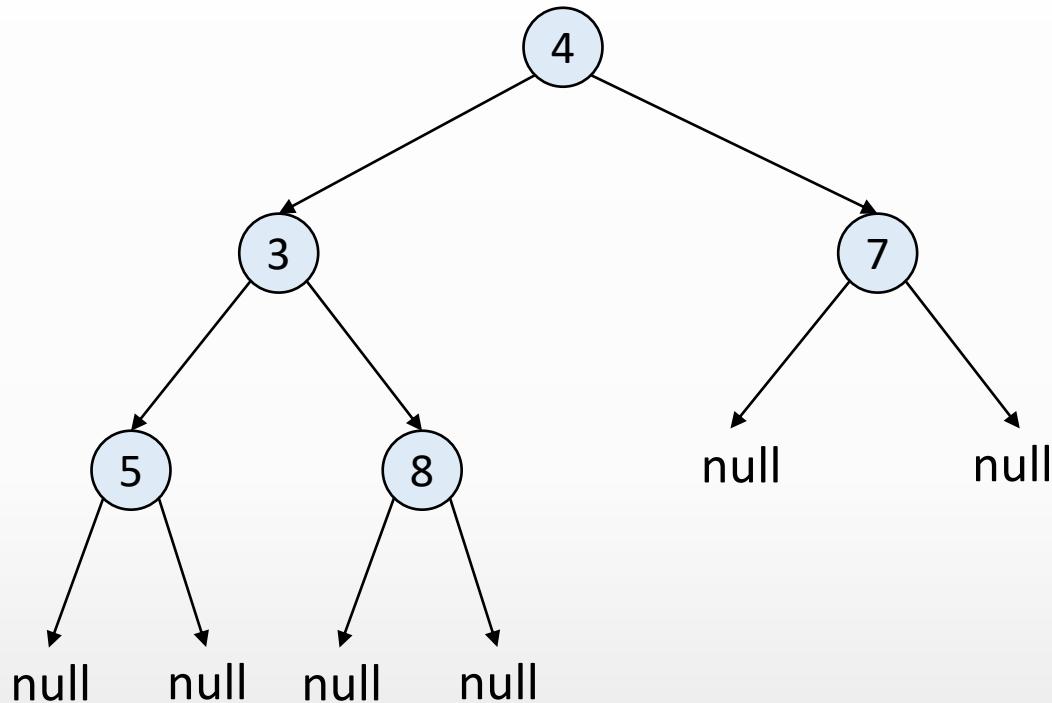
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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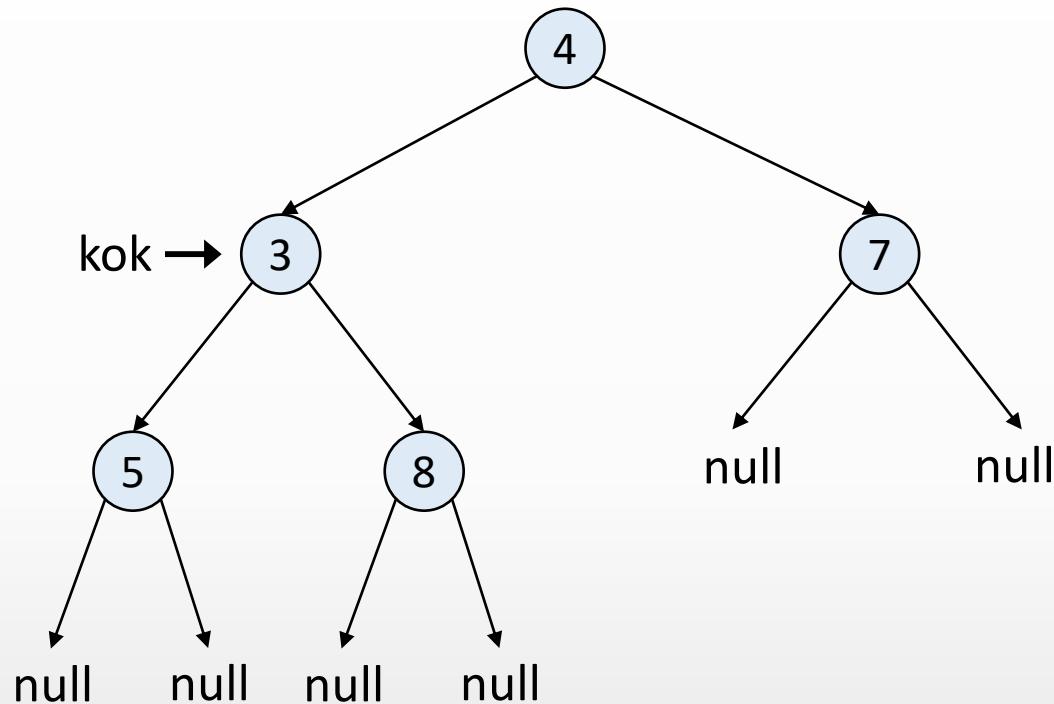
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metot çağrımı	satır no	kok	sonuc	sol	sag
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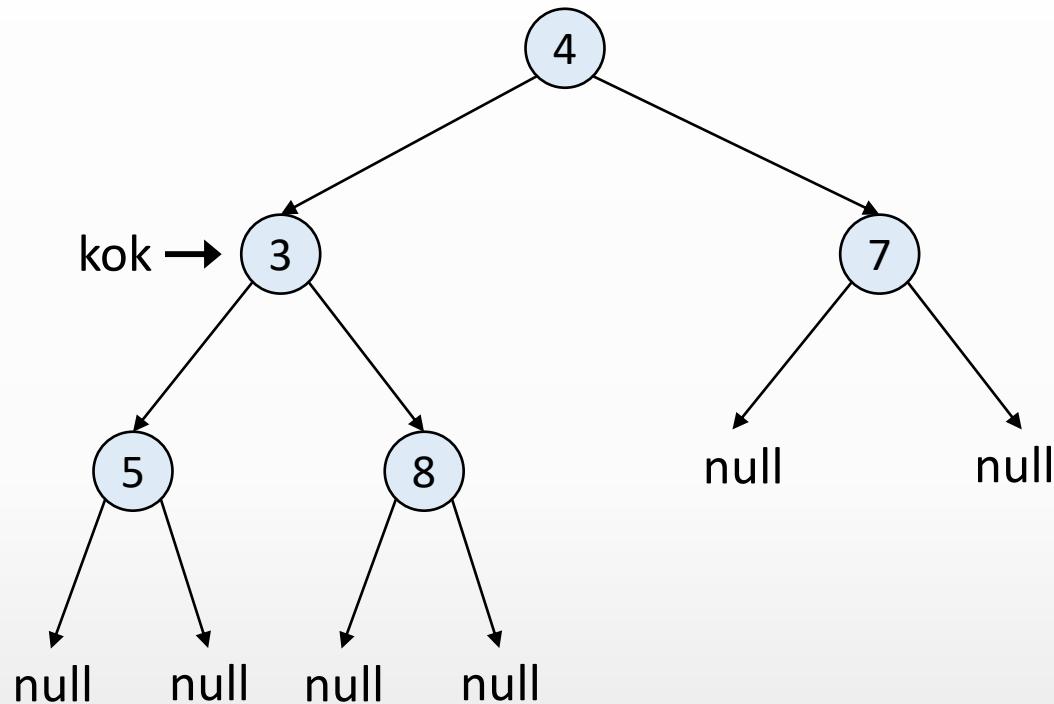
IMV = -2147483648



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



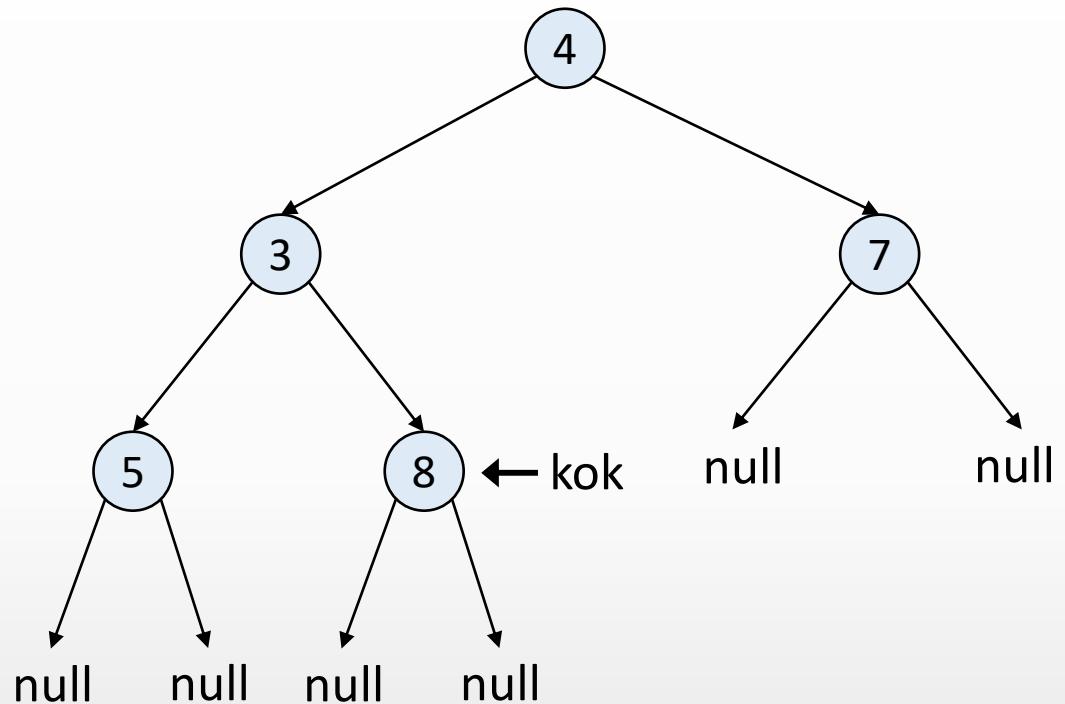
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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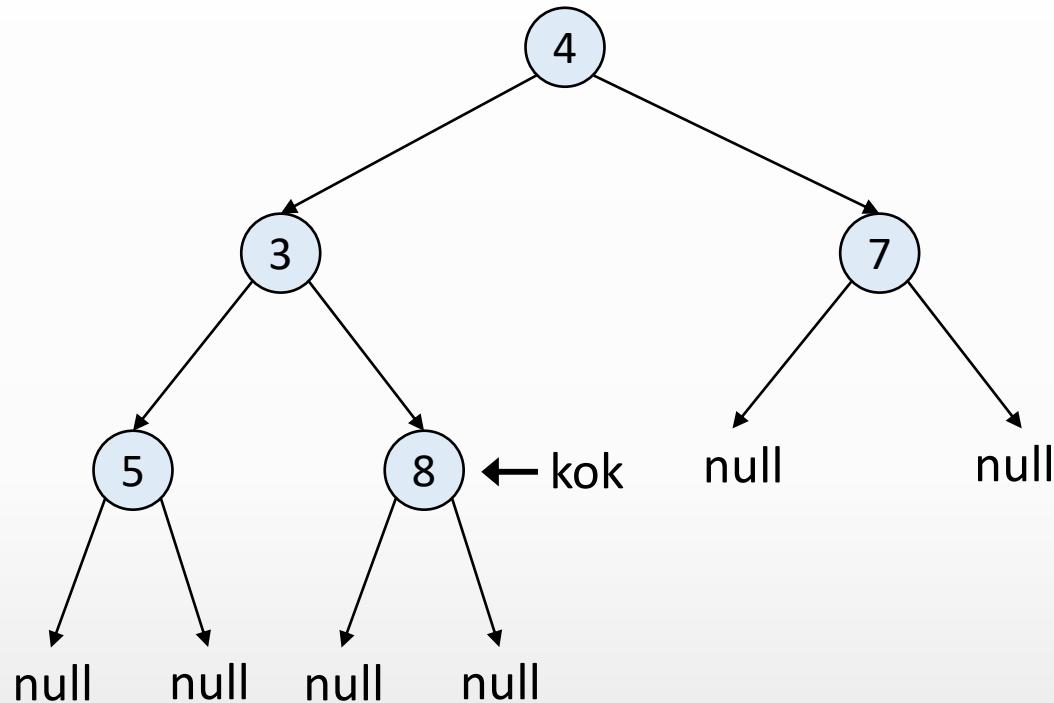
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul		8			

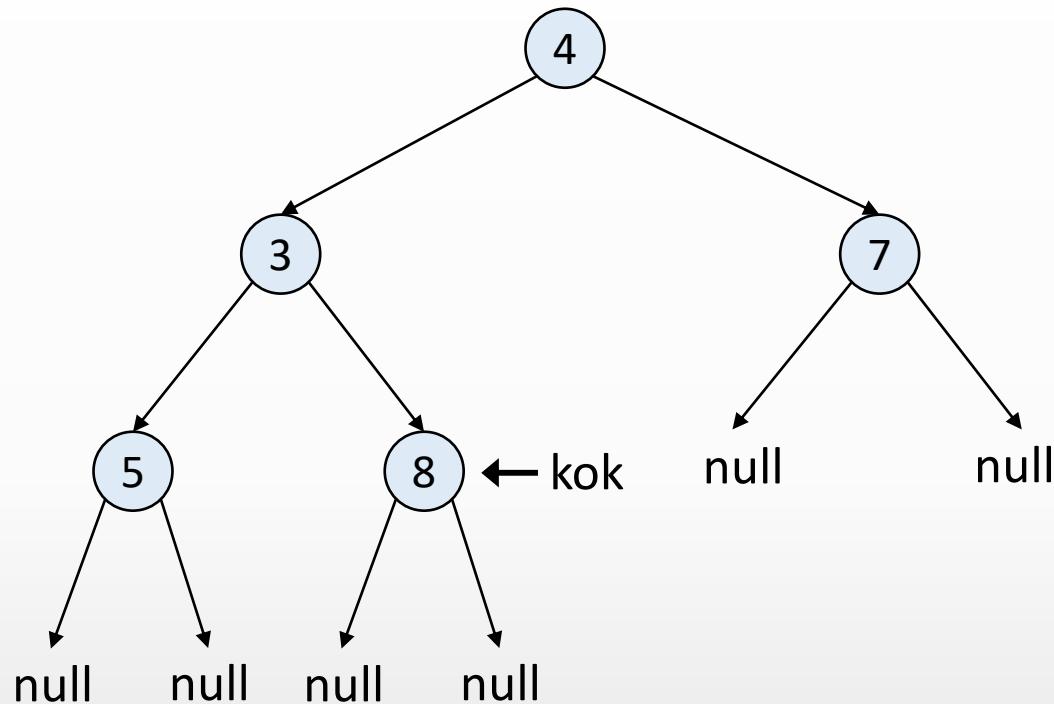
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul		8			

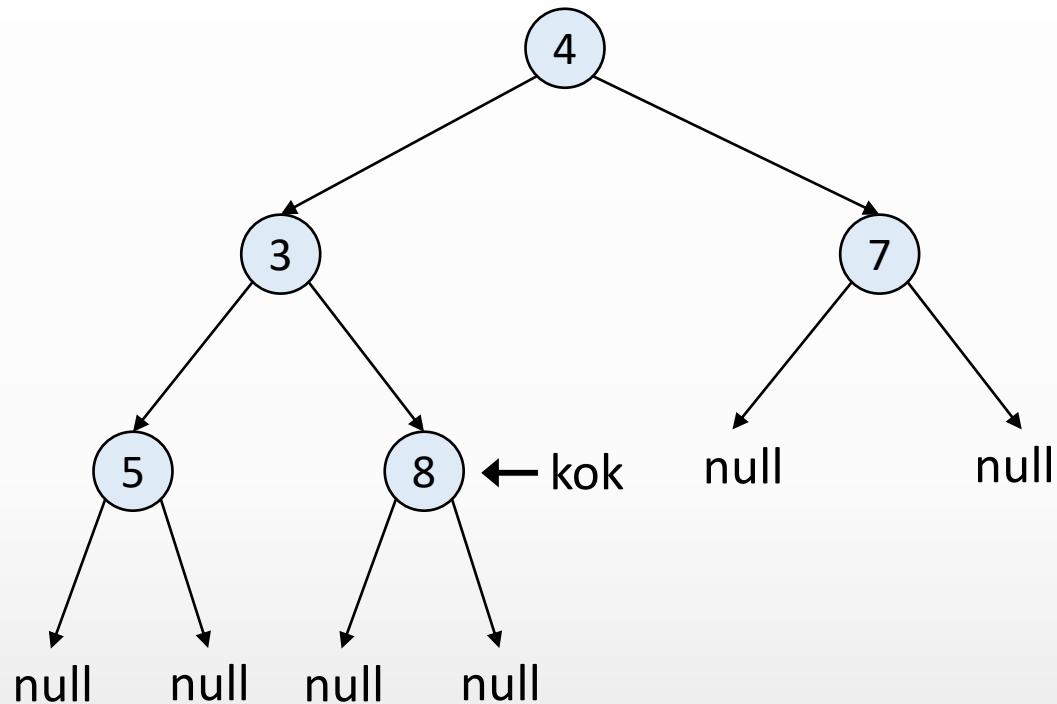
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul		8	8		

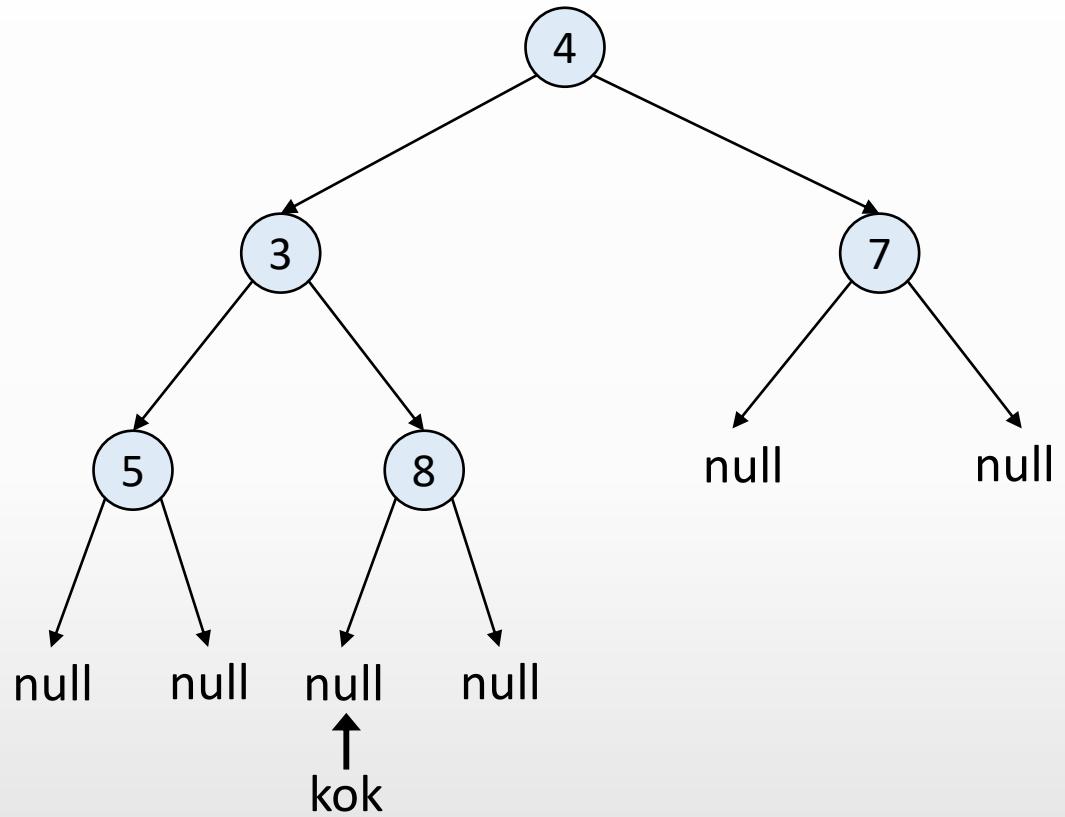
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	6	8	8		

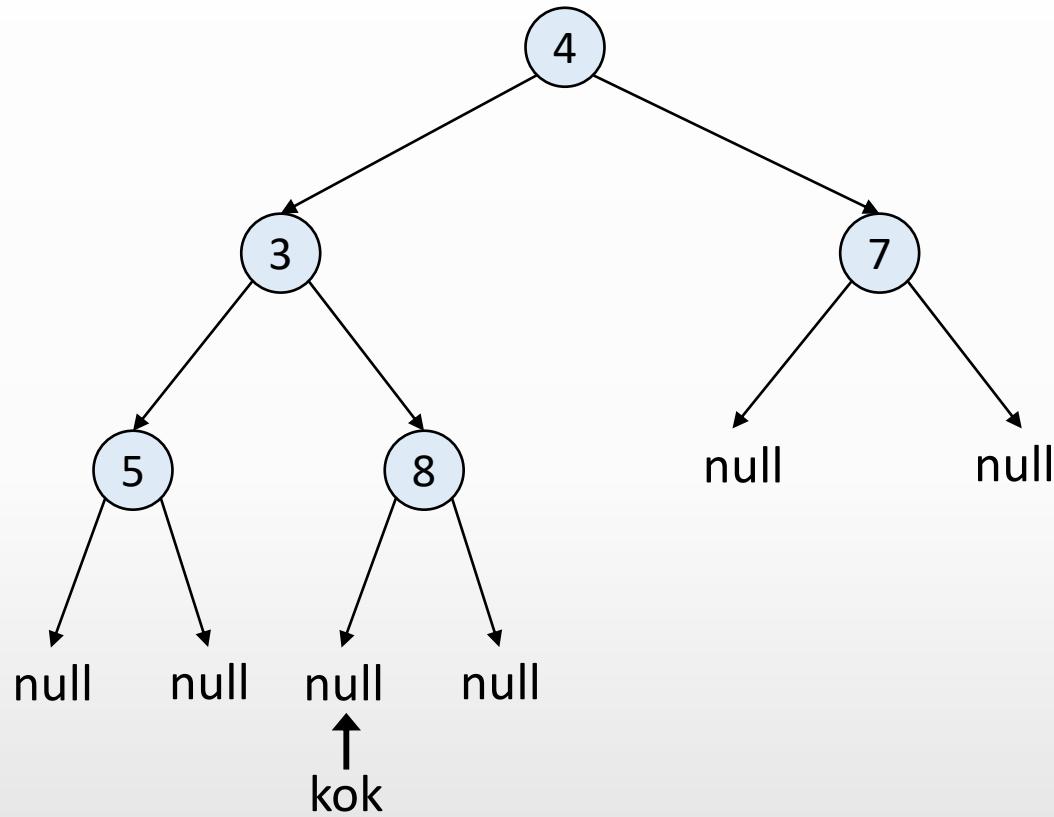
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	6	8	8		
enBuyukBul		null			

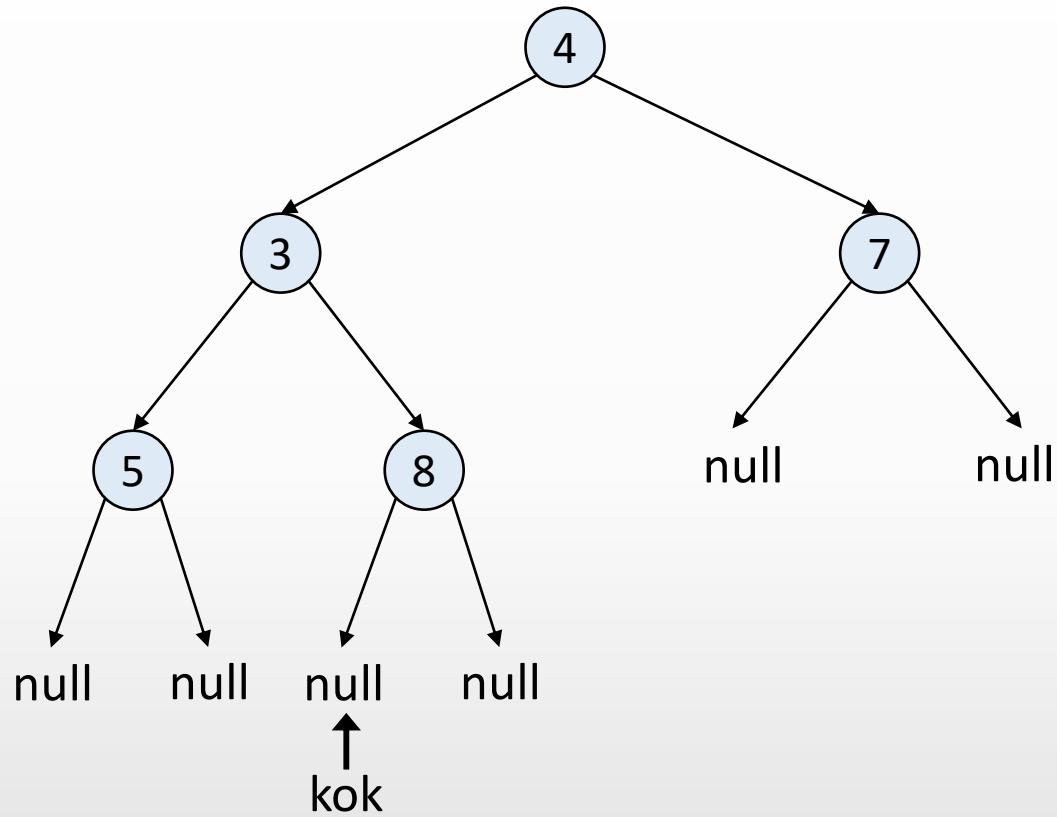
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metot çağrımı	satır no	kok	sonuc	sol	sag
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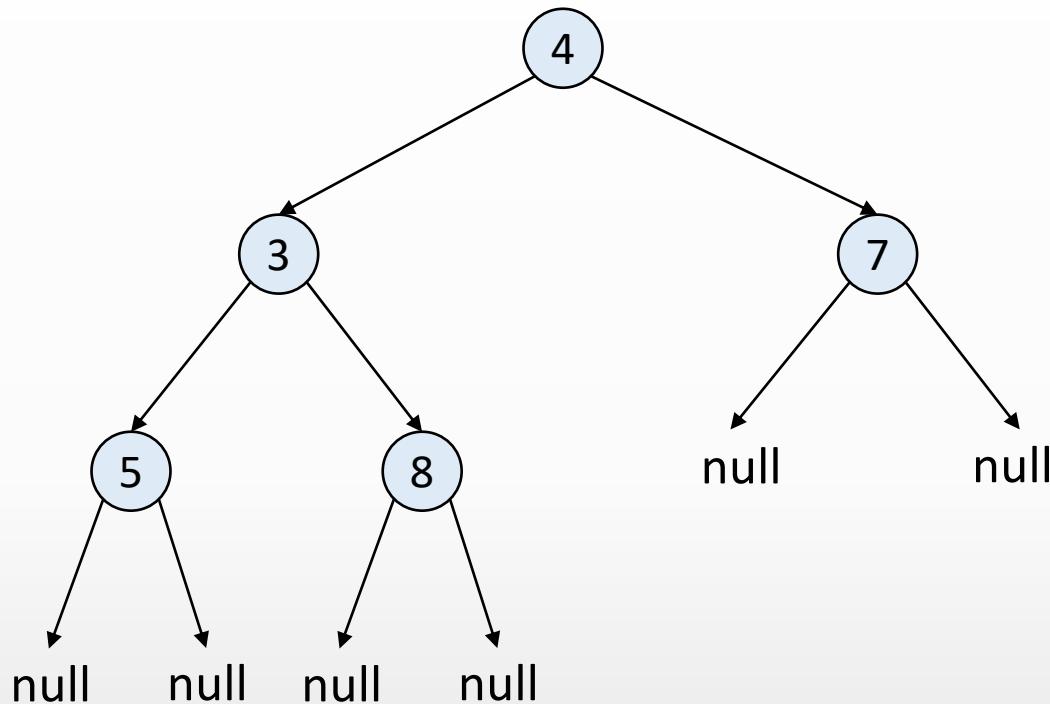
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metot çağrımı	satır no	kok	sonuc	sol	sag
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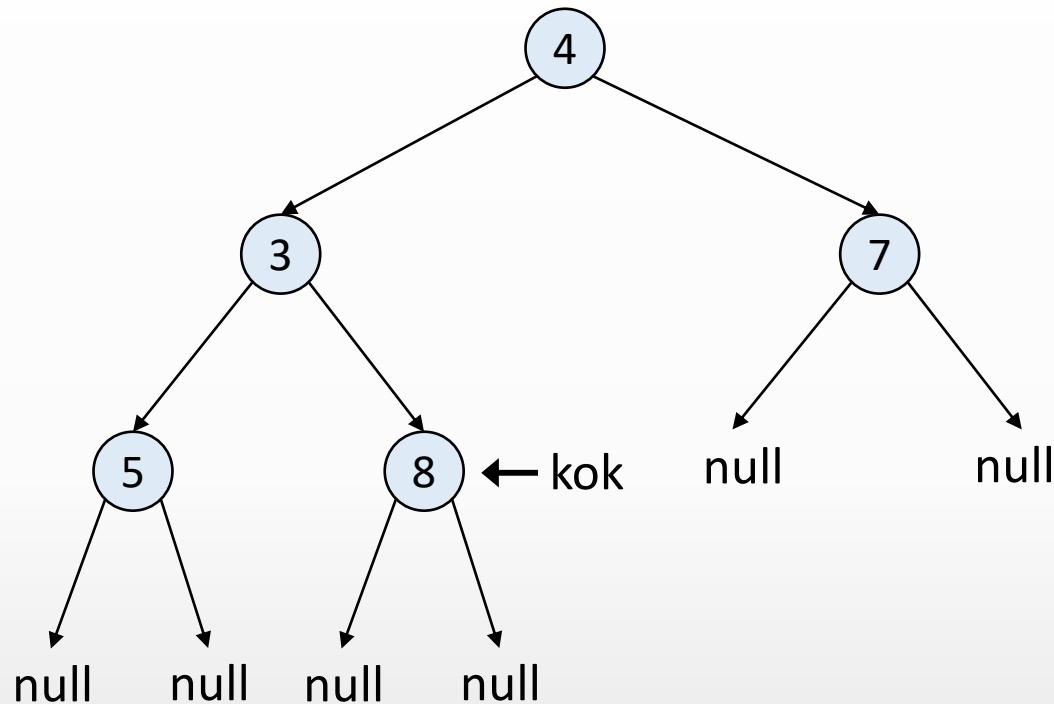
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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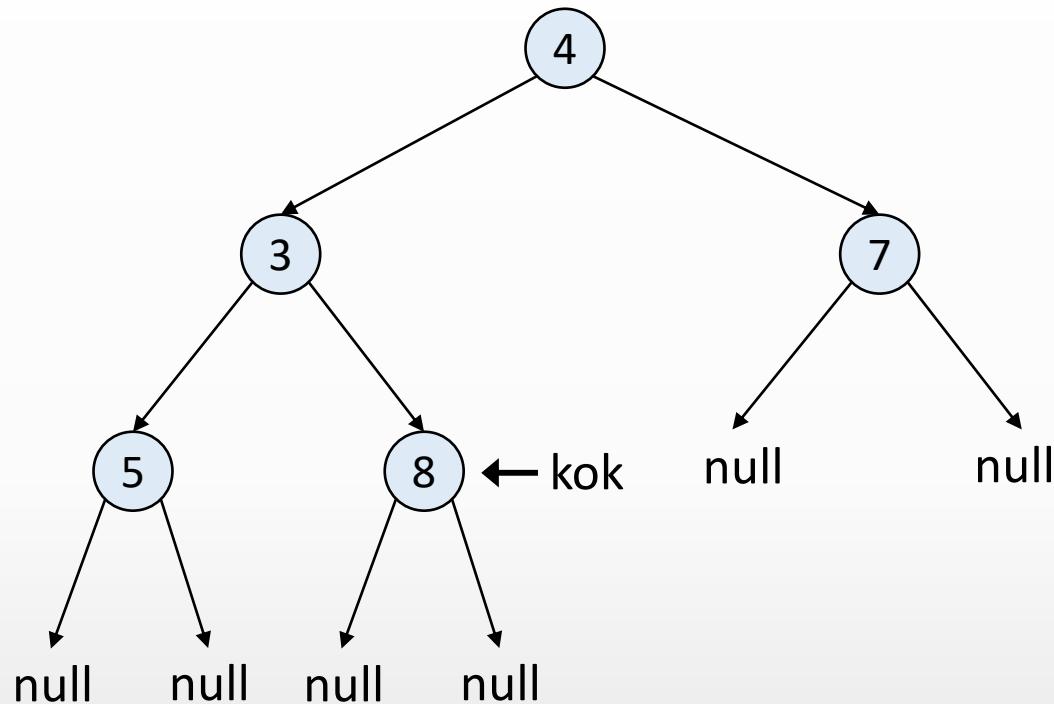
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	6	8	8	IMV	

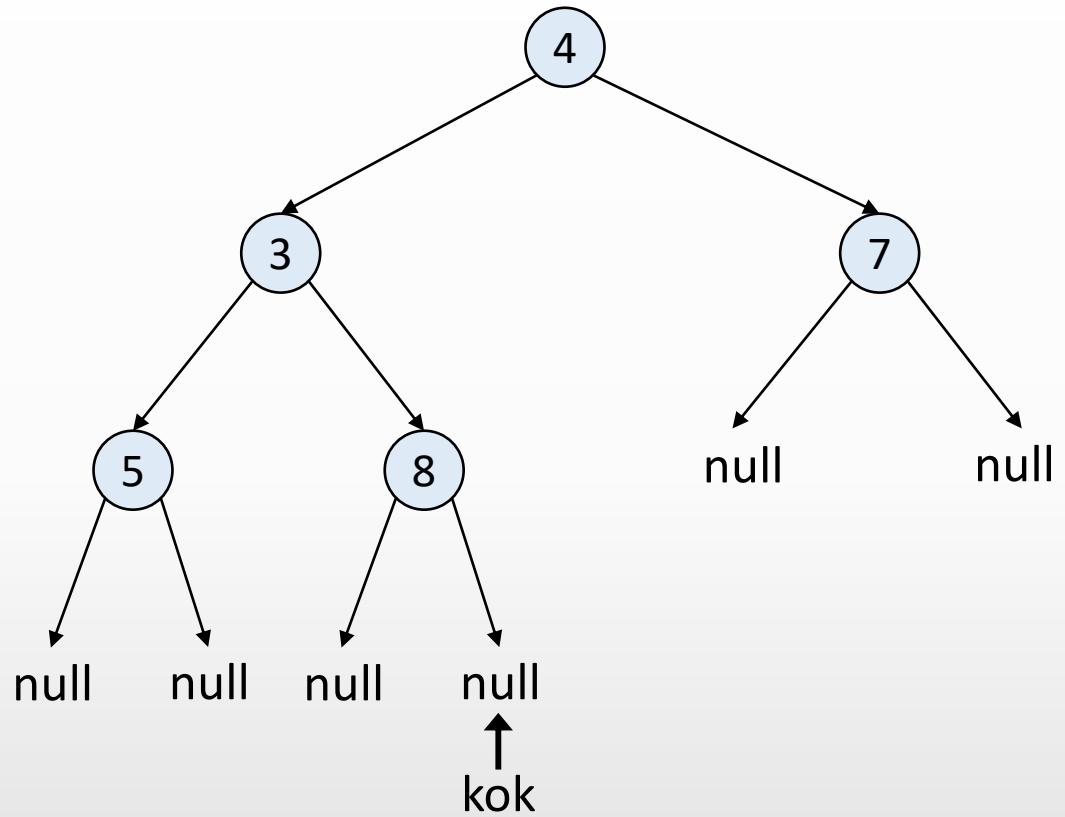
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metot çağrımı	satır no	kok	sonuc	sol	sag
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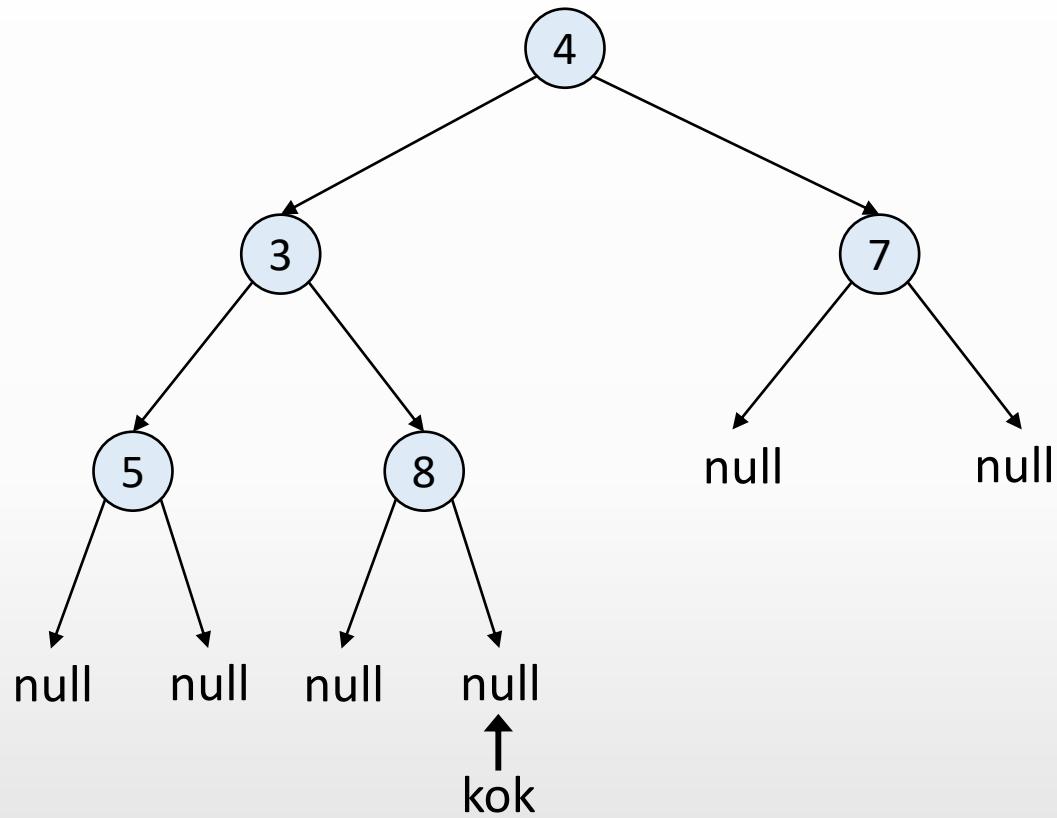
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metot çağrımı	satır no	kok	sonuc	sol	sag
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enBuyukBul	7	8	8	IMV	
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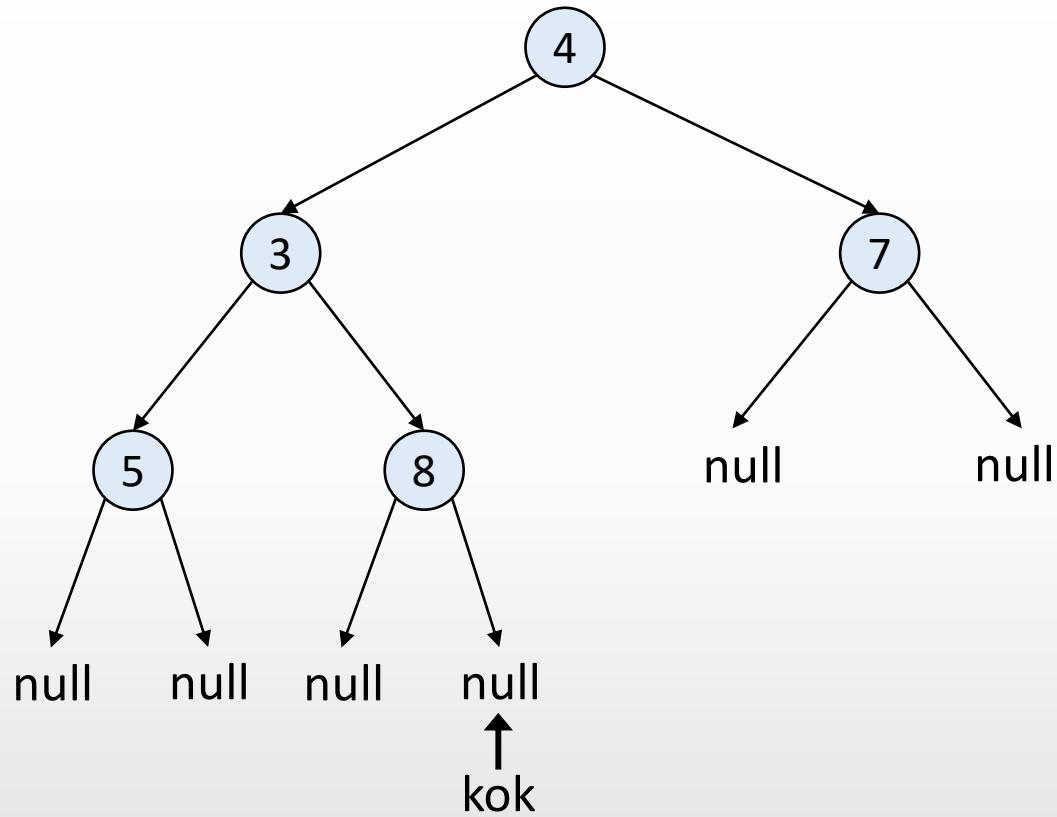
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metot çağrımı	satır no	kok	sonuc	sol	sag
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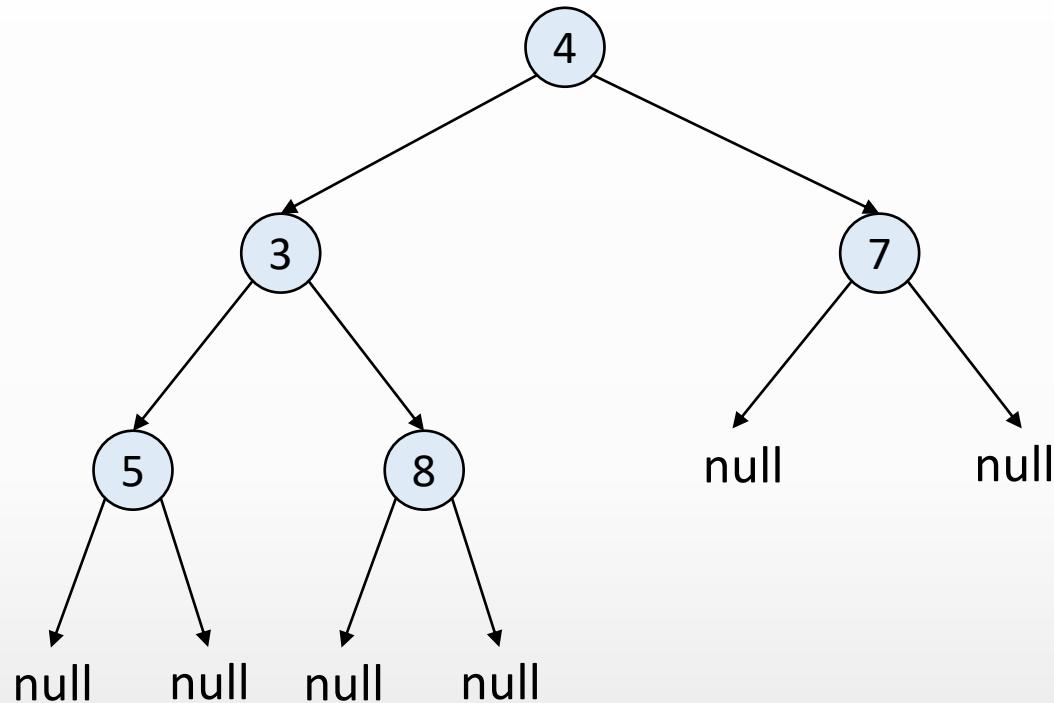
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metot çağrımı	satır no	kok	sonuc	sol	sag
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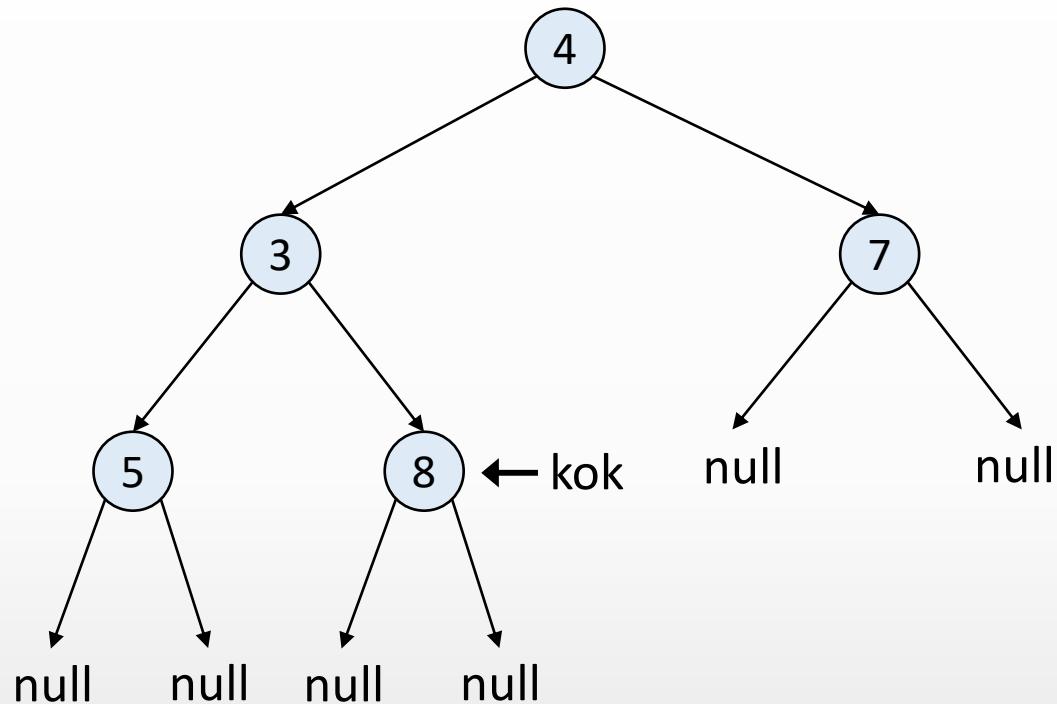
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metot çağrımı	satır no	kok	sonuc	sol	sag
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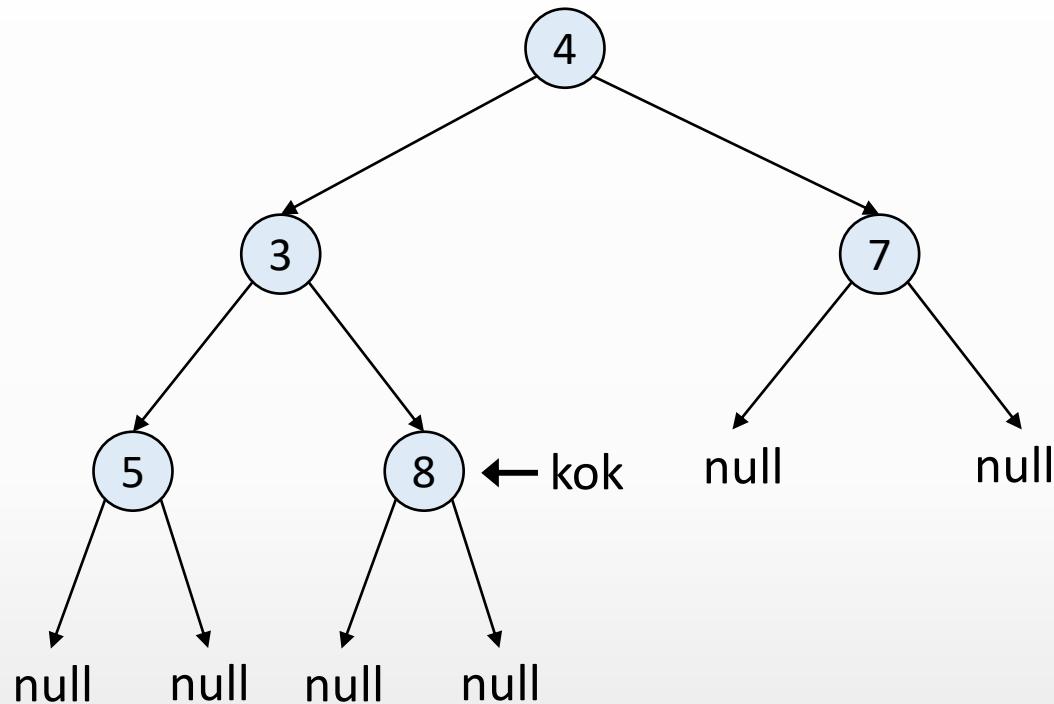


IMV = -2147483648



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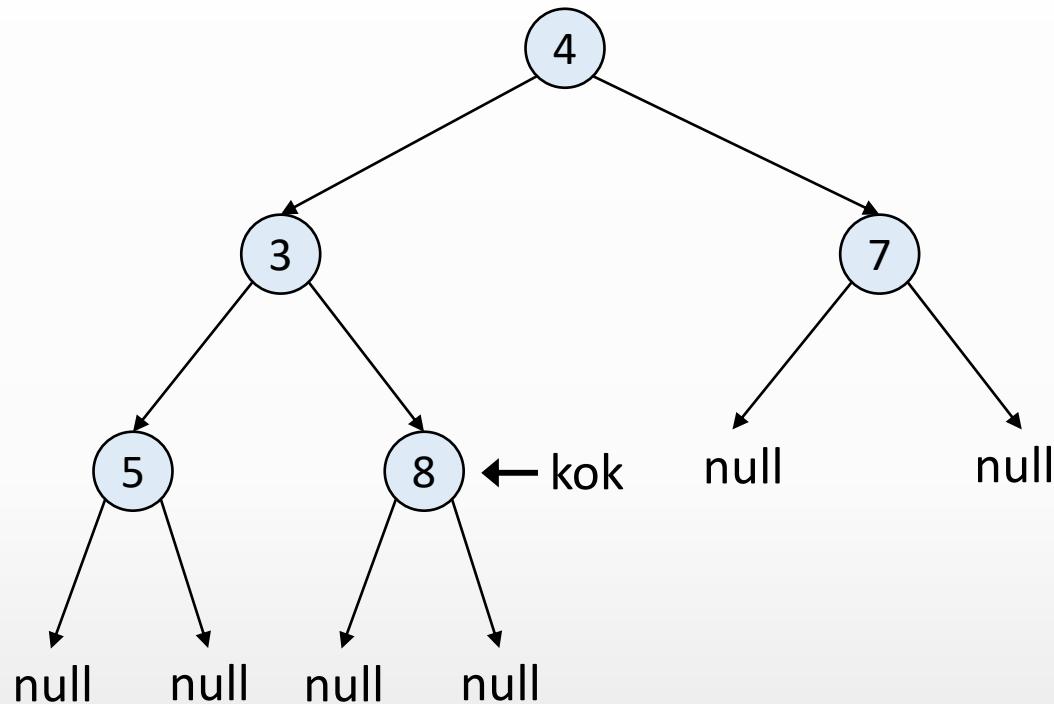
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metot çağrımı	satır no	kok	sonuc	sol	sag
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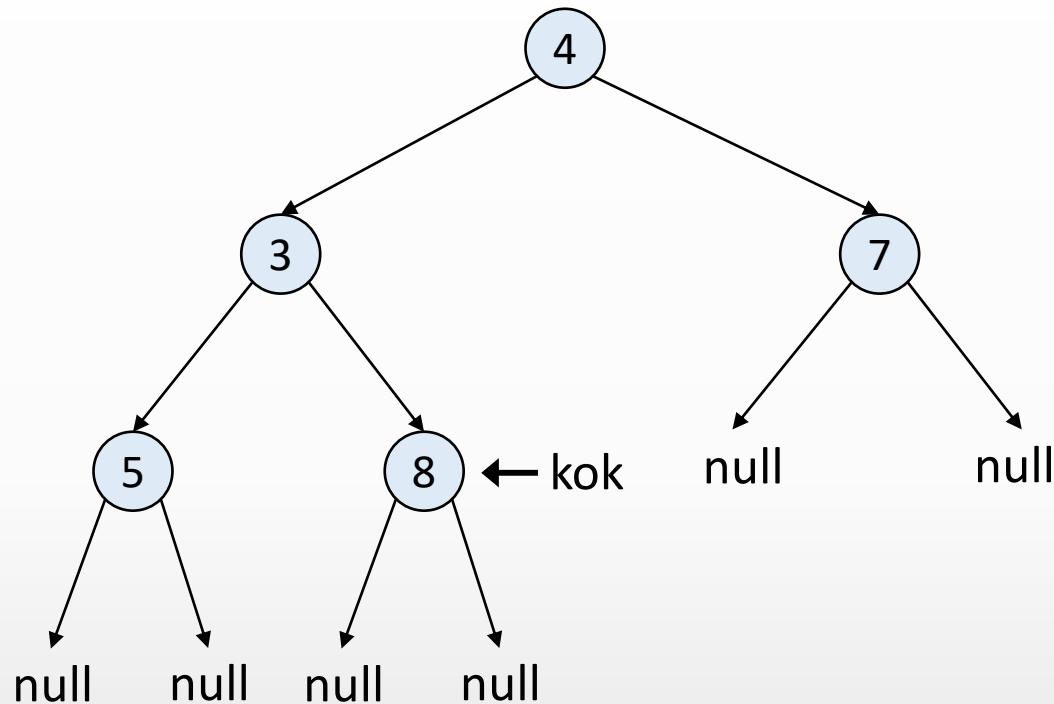
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metot çağrımı	satır no	kok	sonuc	sol	sag
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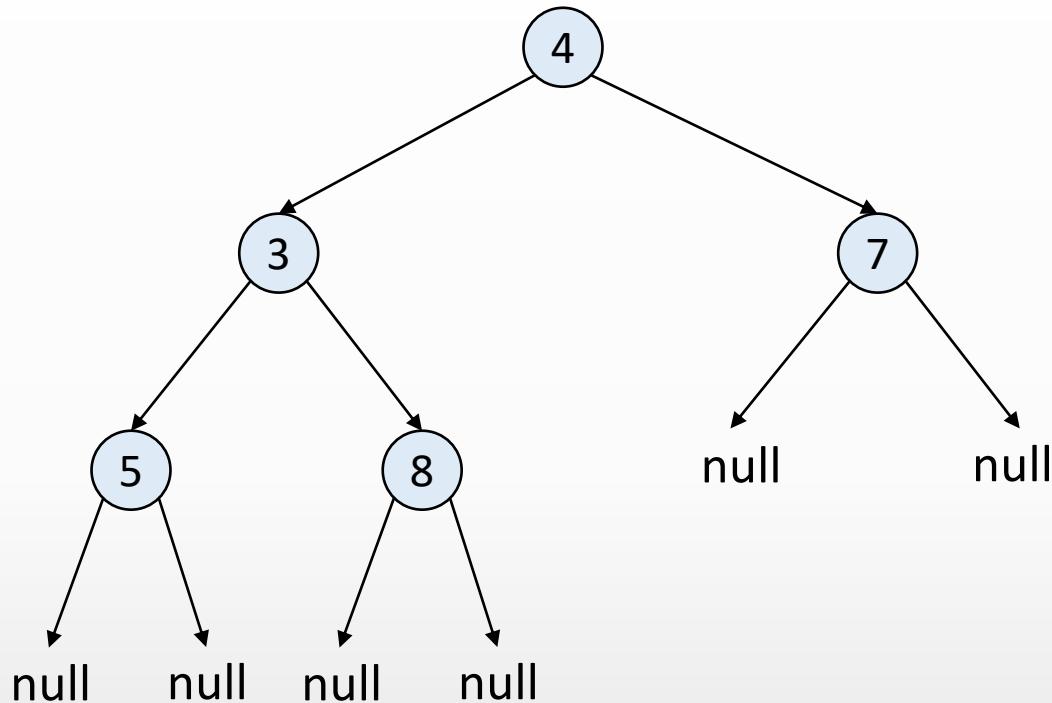
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	7	8	8	IMV	IMV



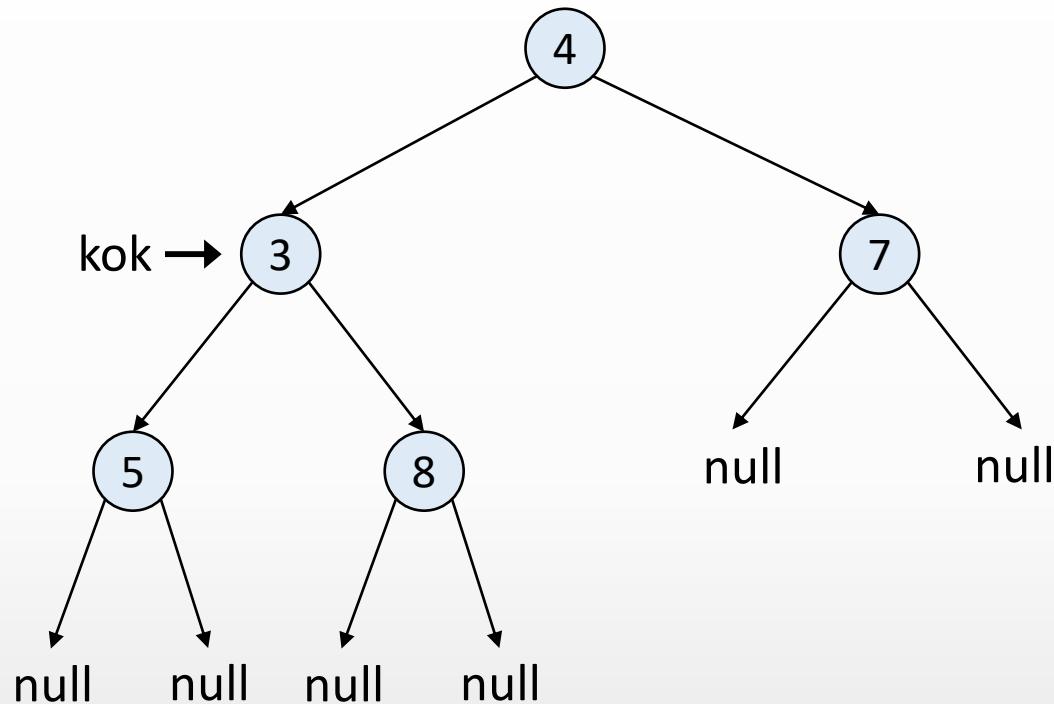
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metot çağrımı	satır no	kok	sonuc	sol	sag
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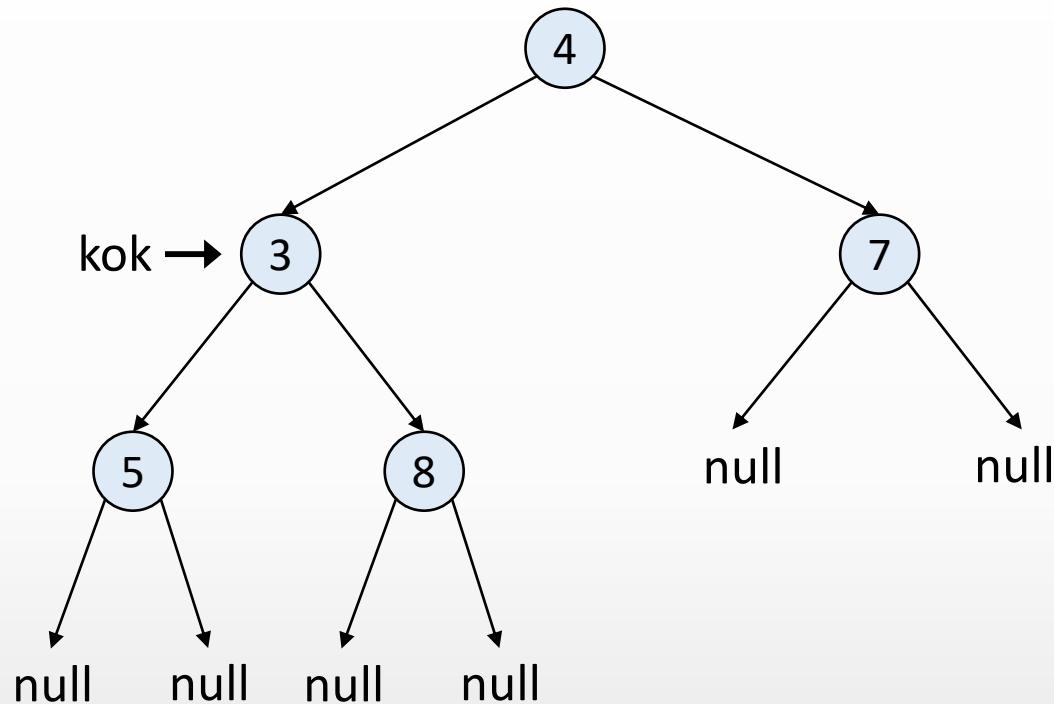


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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	8

→

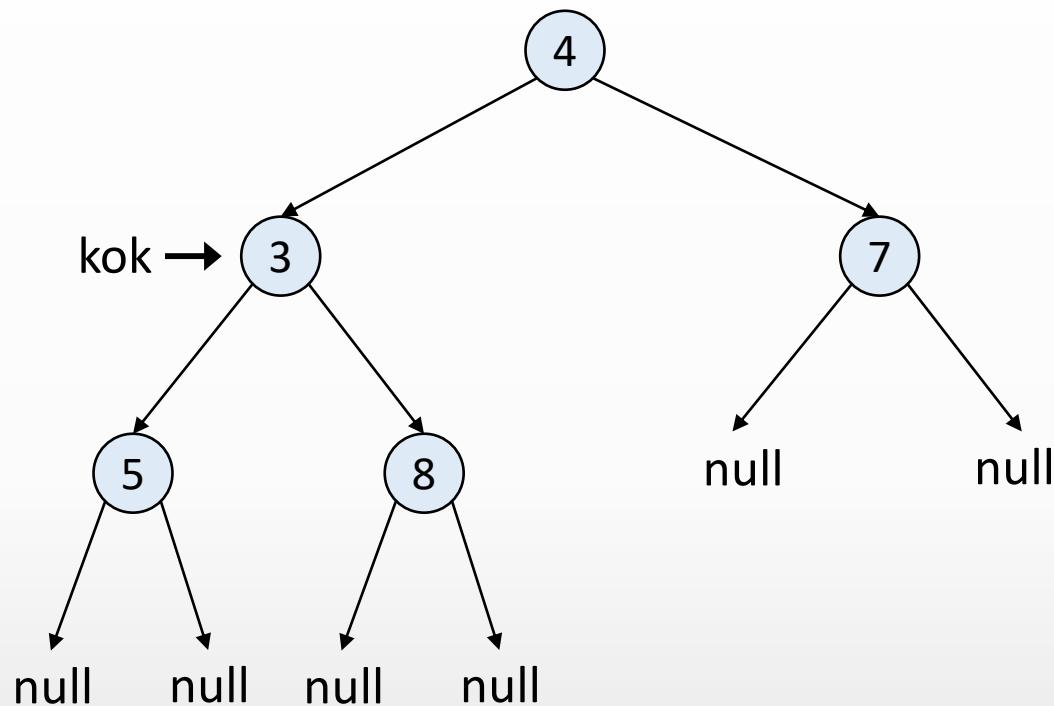
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
5     int sonuc = kok.veri;  
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7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)  
11        sonuc = sag;  
12    return sonuc;  
13 }
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IMV = -2147483648

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

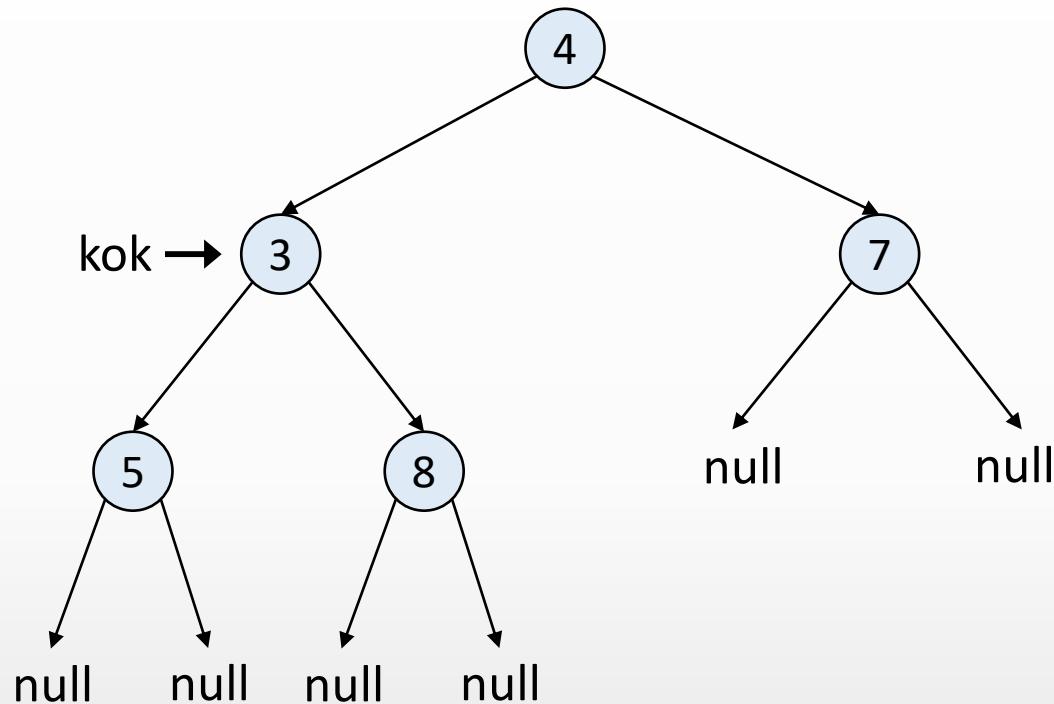
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10    if(sag > sonuc)  
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	5	5	8

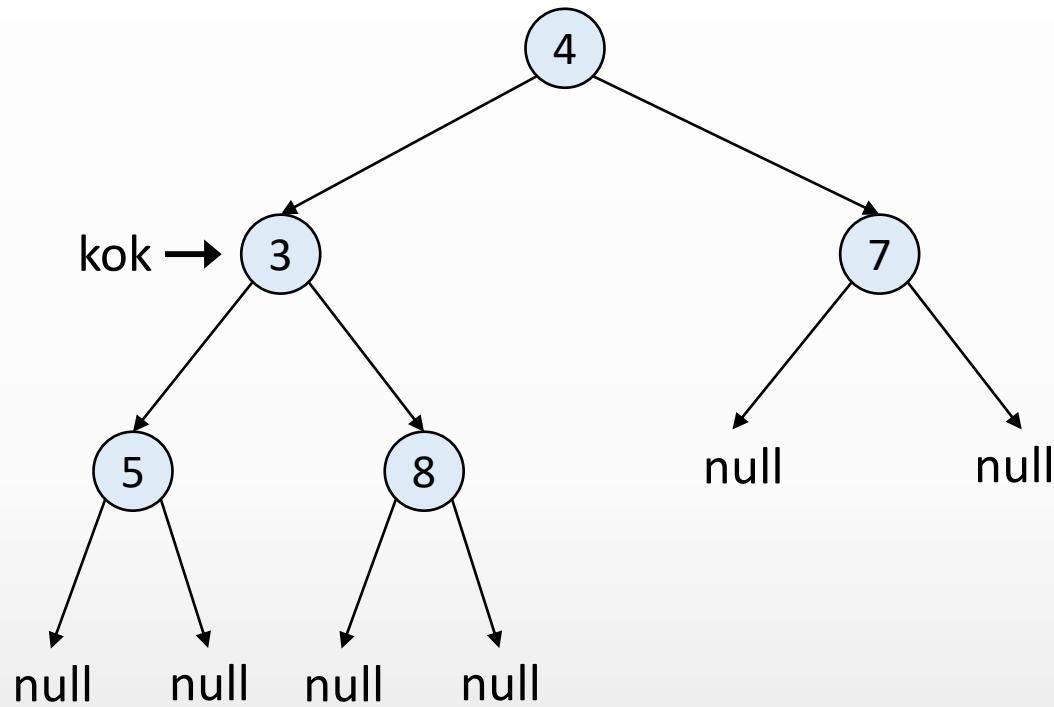
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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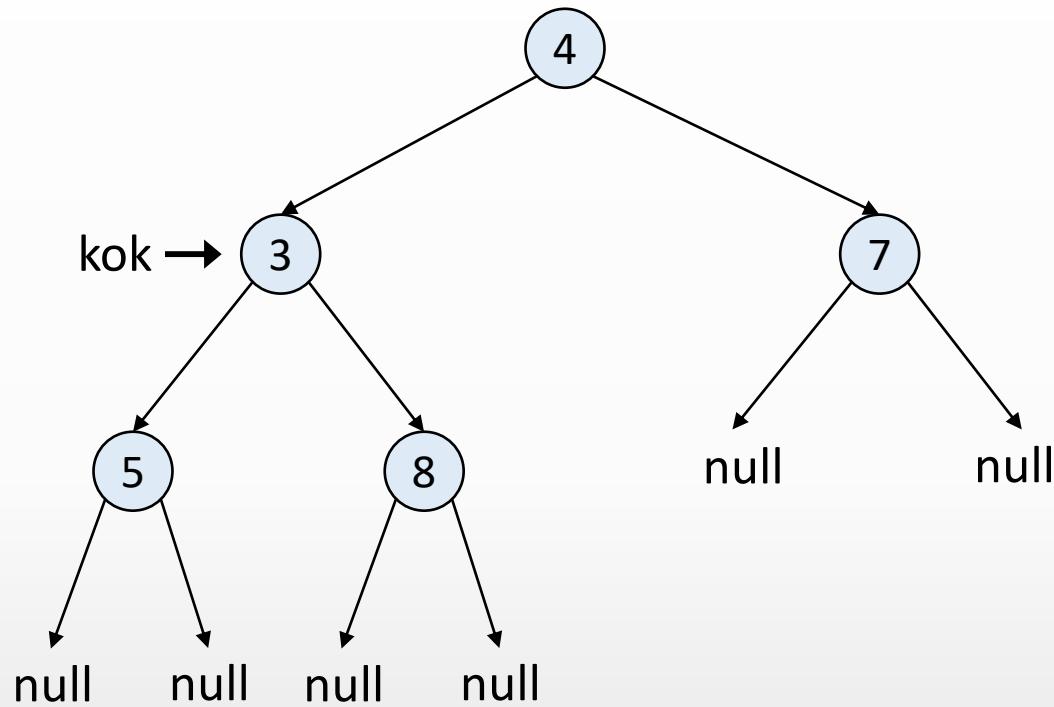
IMV = -2147483648



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



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11        sonuc = sag;  
12    return sonuc;  
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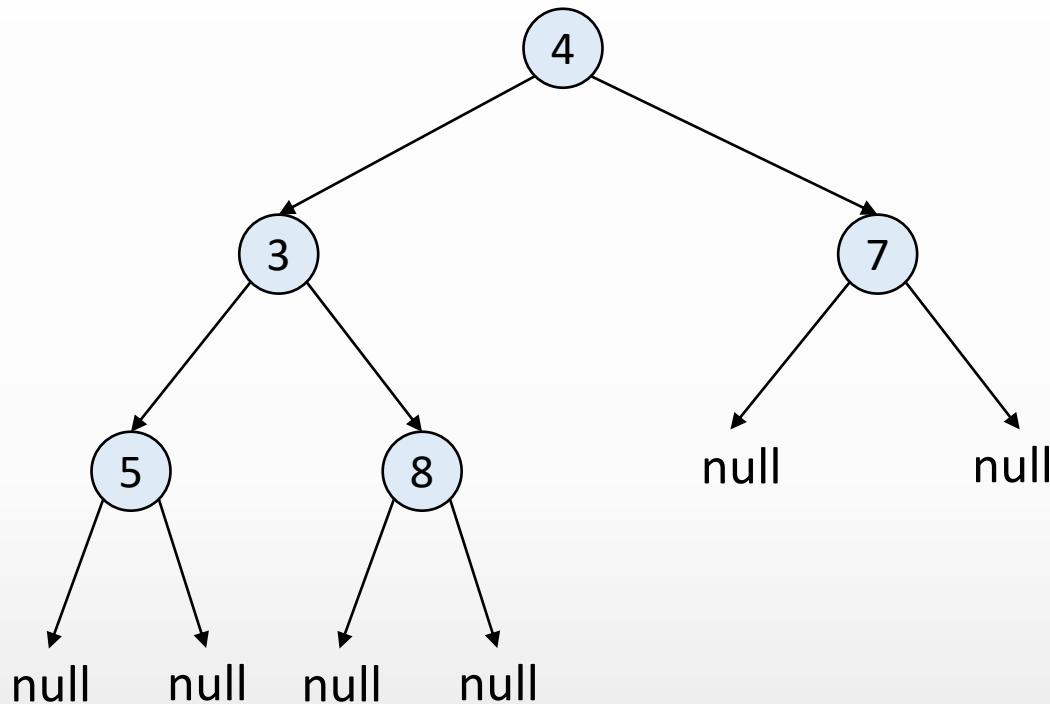
IMV = -2147483648



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



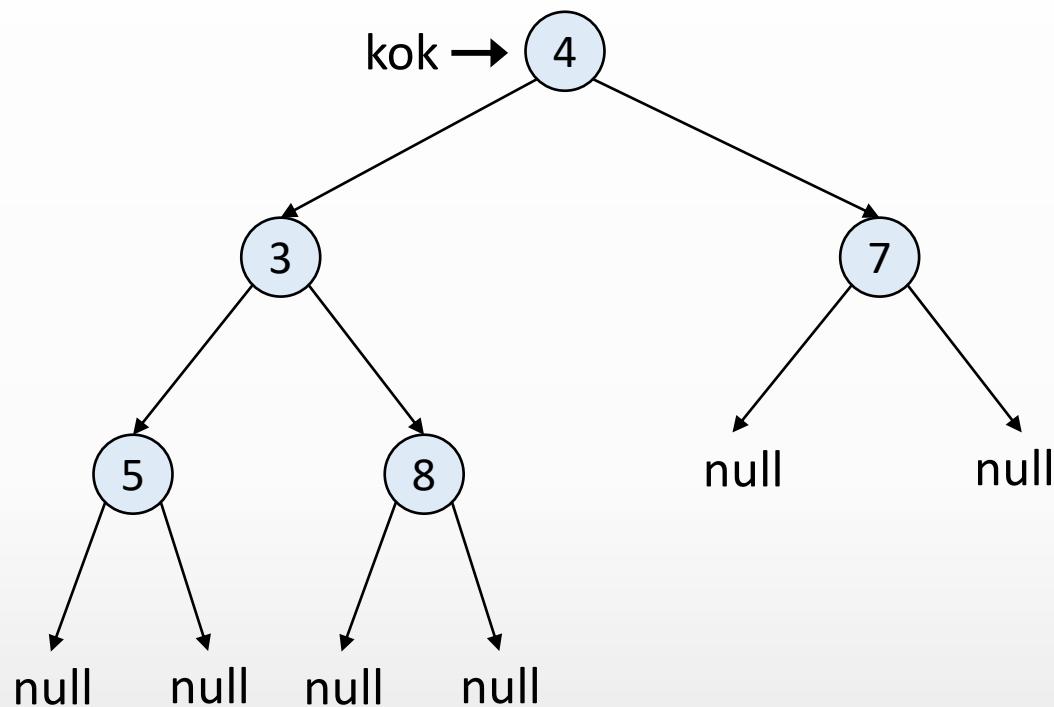
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		

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

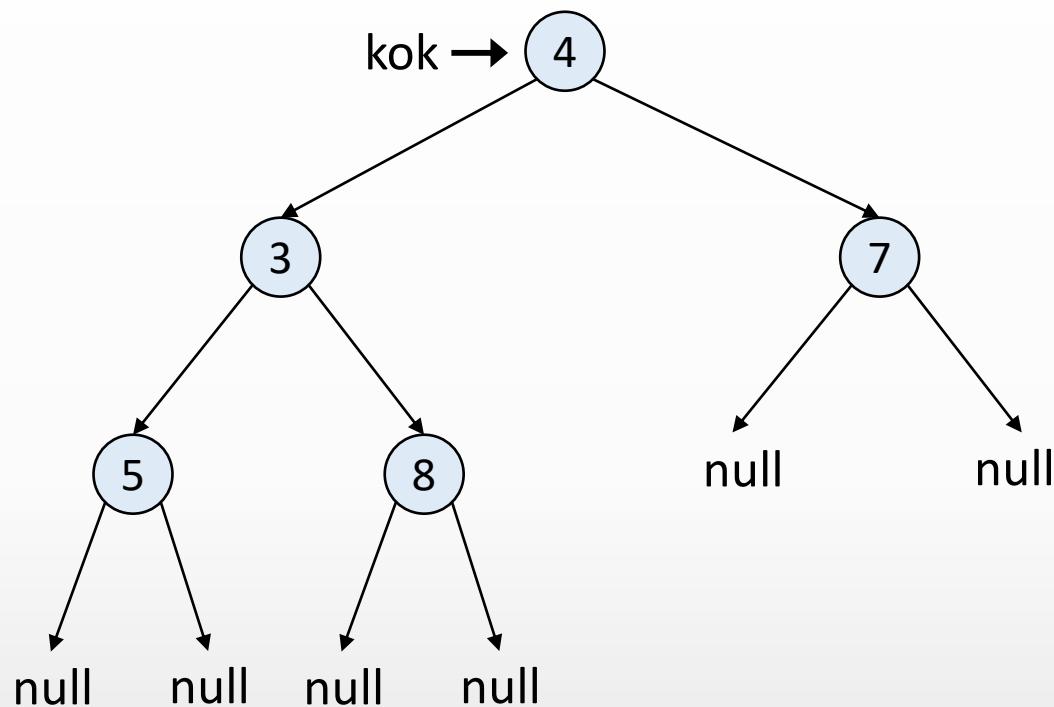


IMV = -2147483648

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

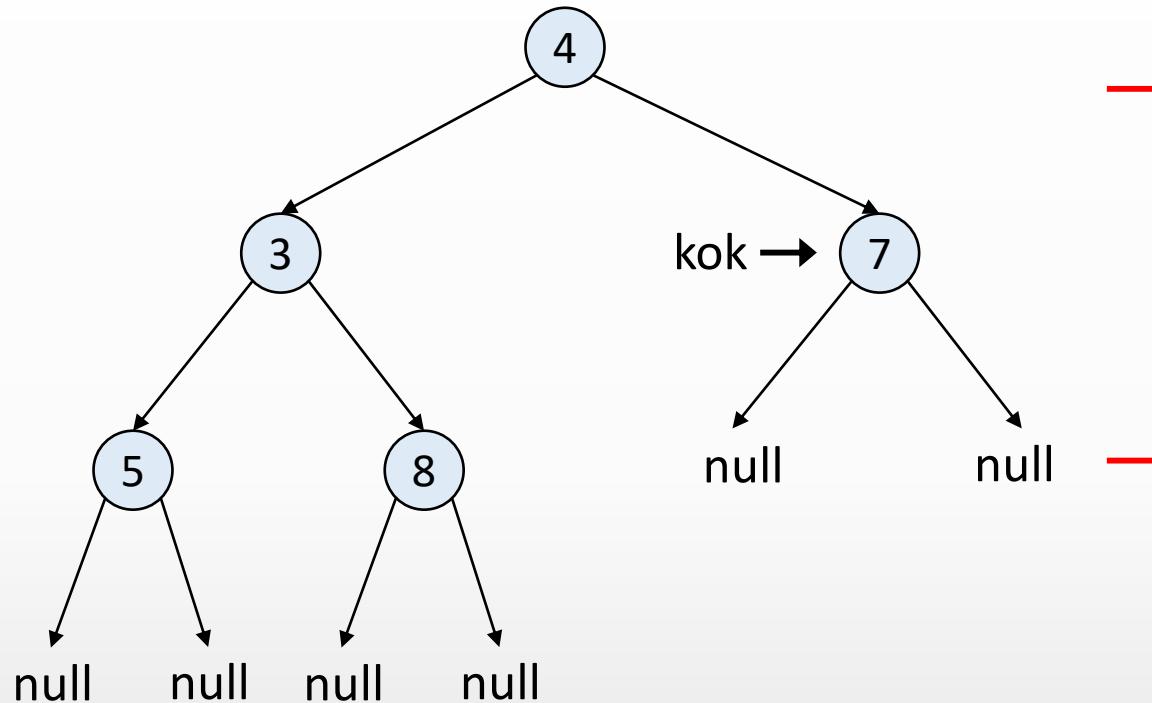


IMV = -2147483648

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

→

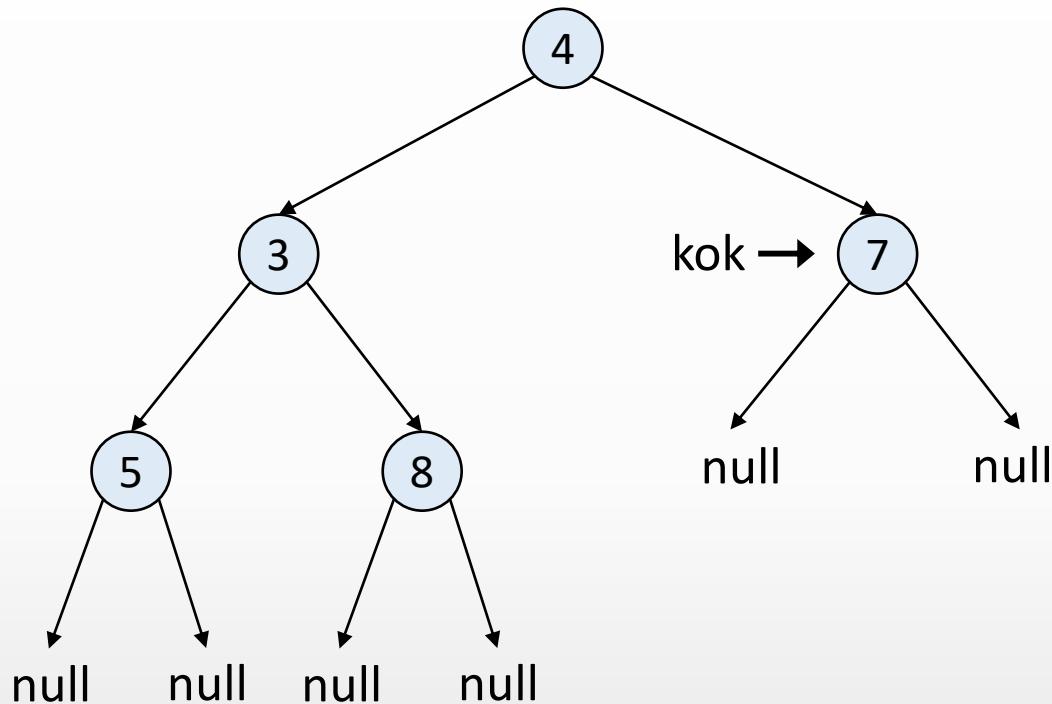
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IMV = -2147483648

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

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

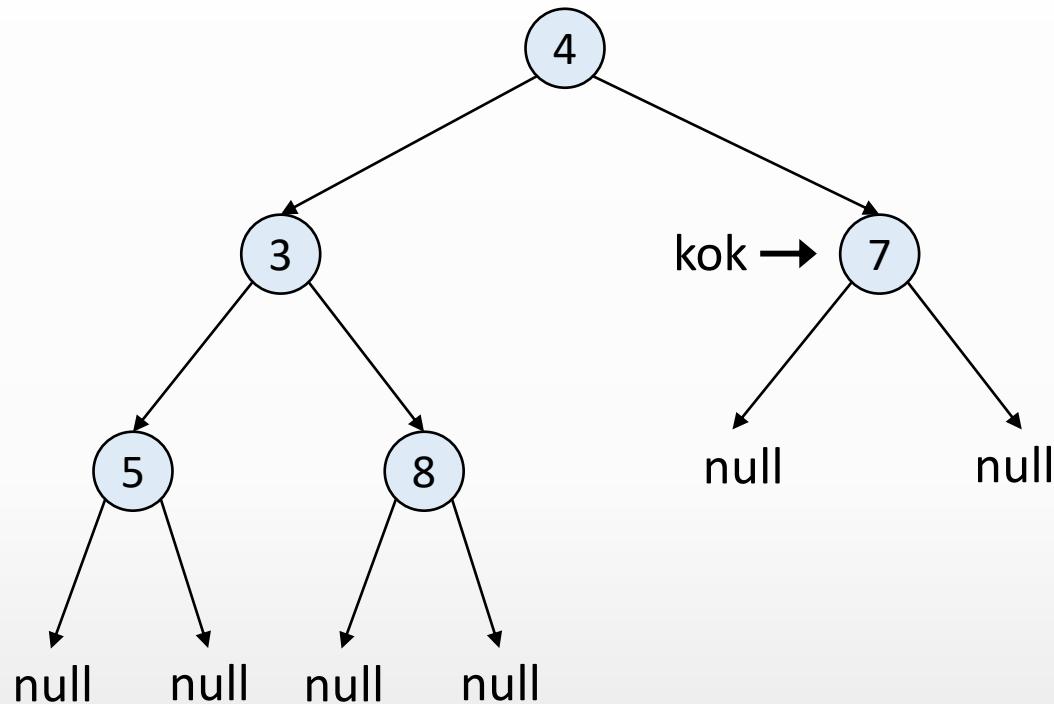


metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul		7			



```
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 }
```

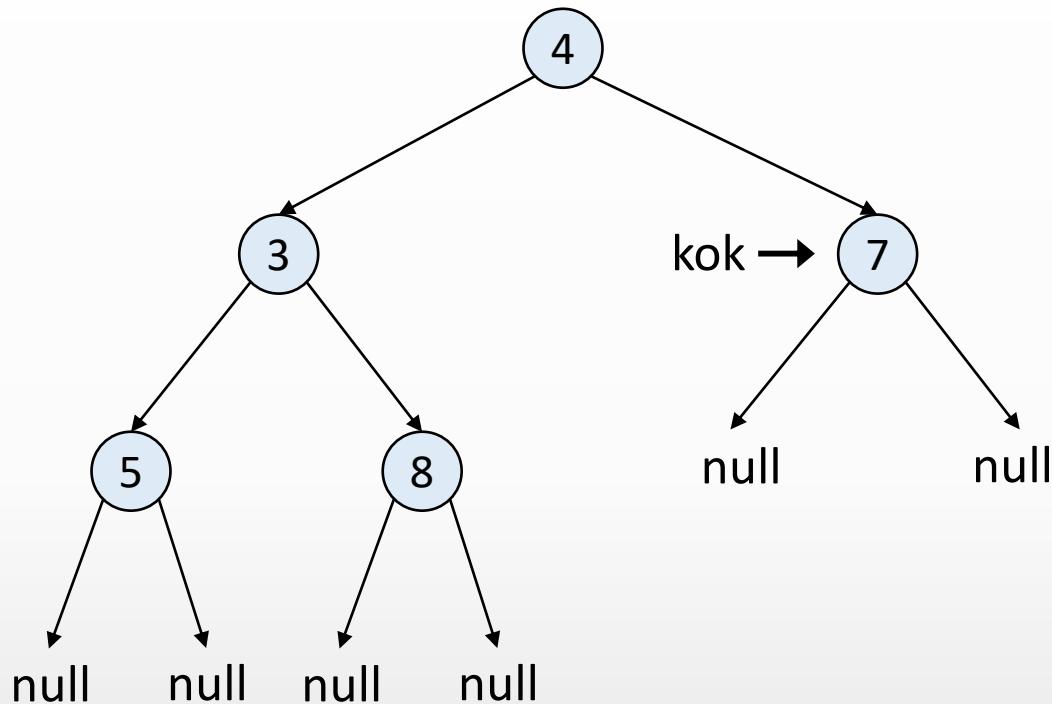
IMV = -2147483648



IMV = -2147483648

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

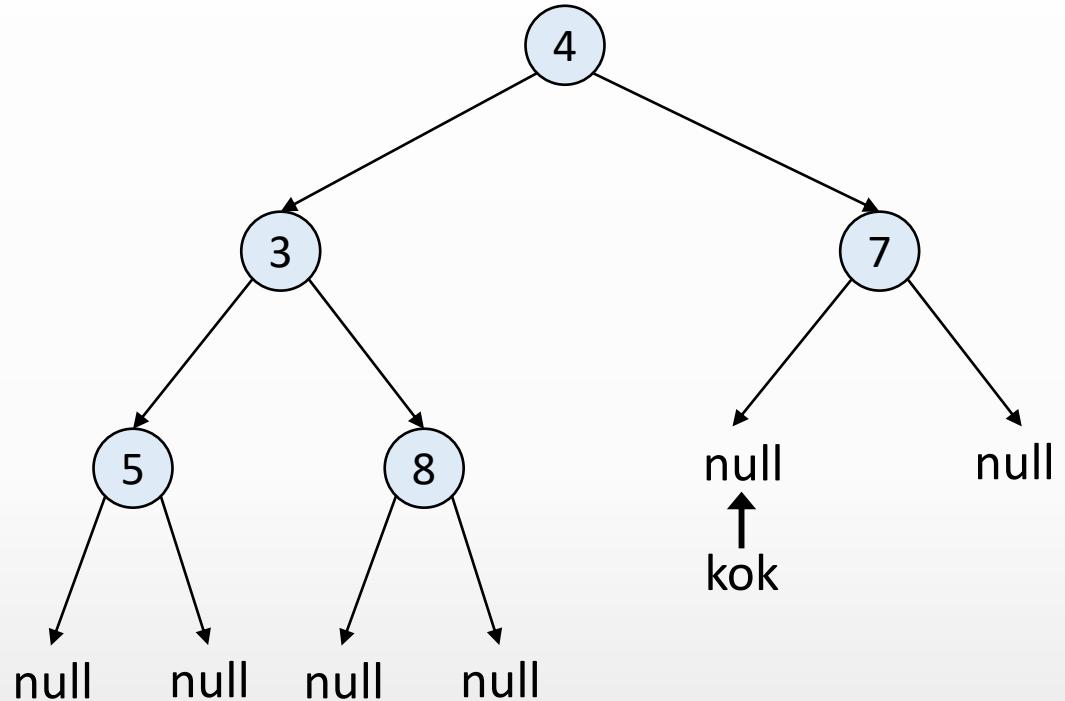
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IMV = -2147483648

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

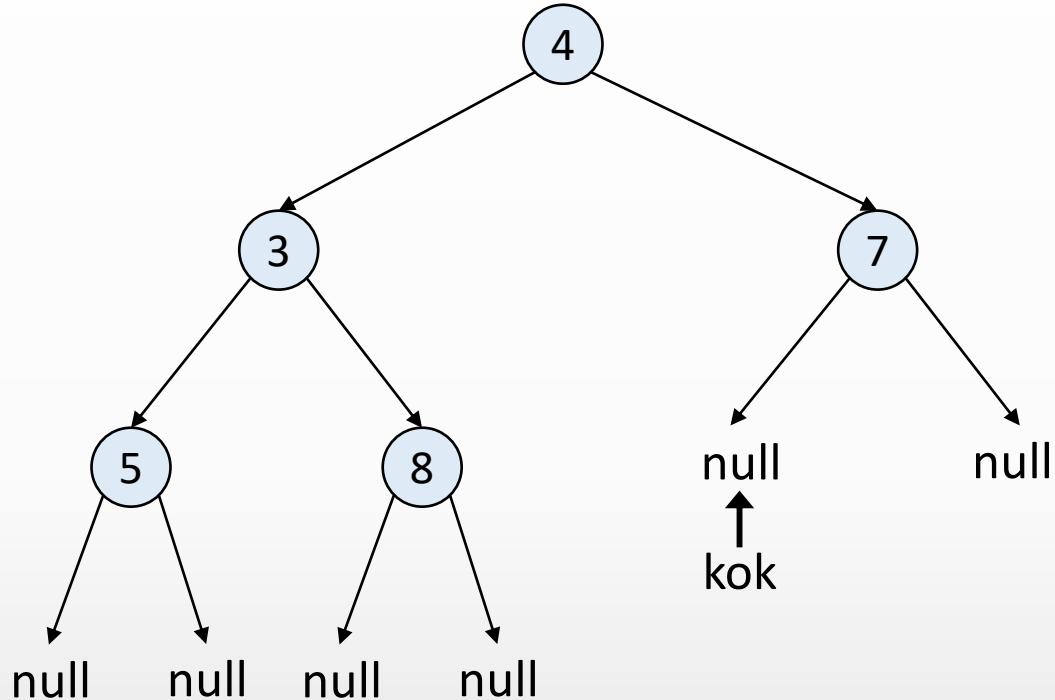
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IMV = -2147483648

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

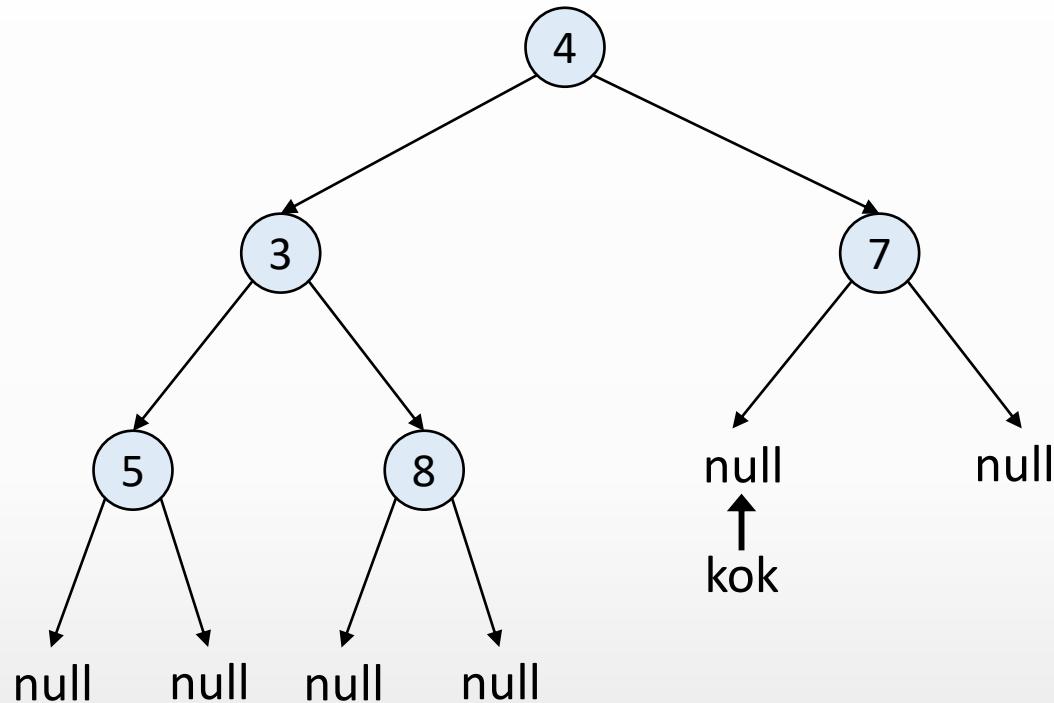
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7		
enBuyukBul		null			

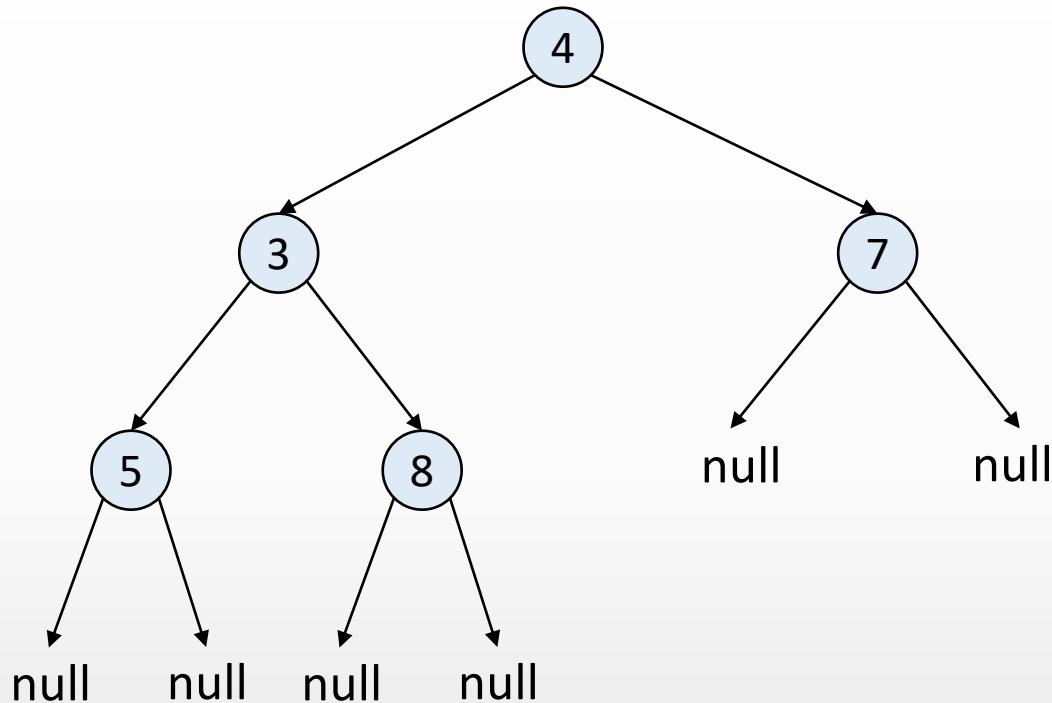
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metot çağrımı	satır no	kok	sonuc	sol	sag
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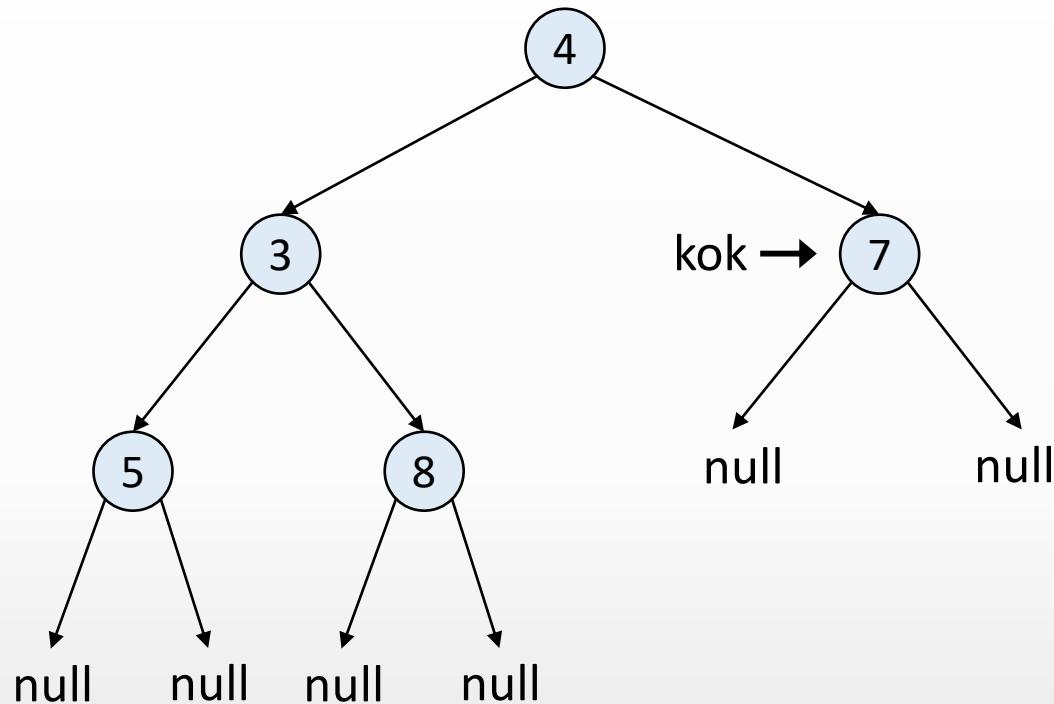
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7		

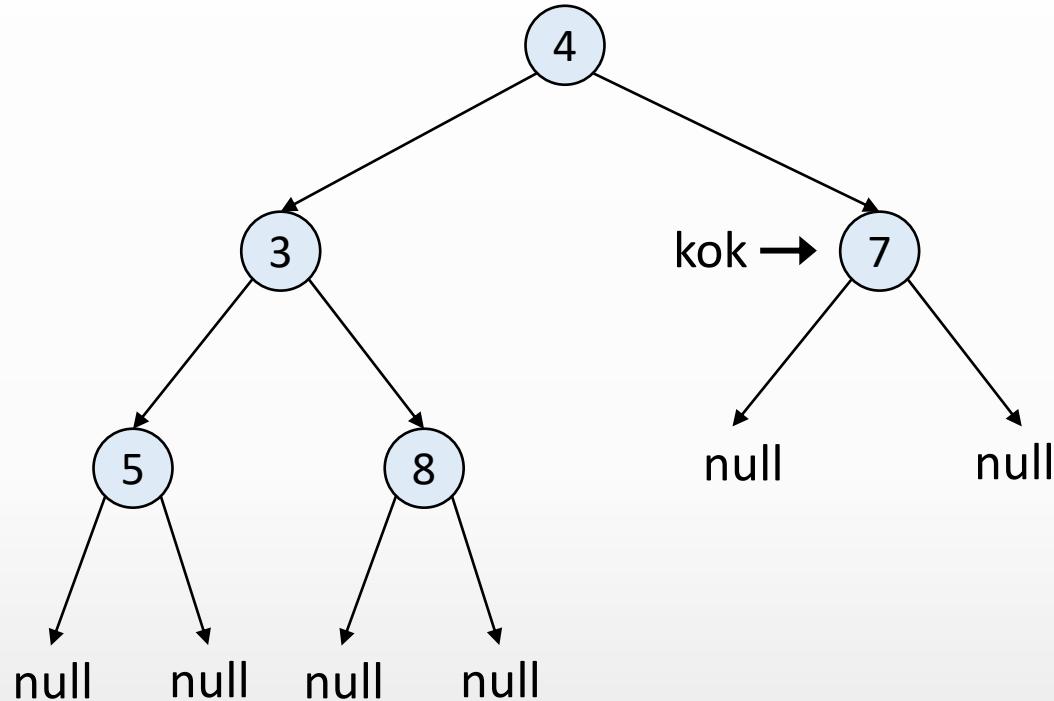
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IMV = -2147483648

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

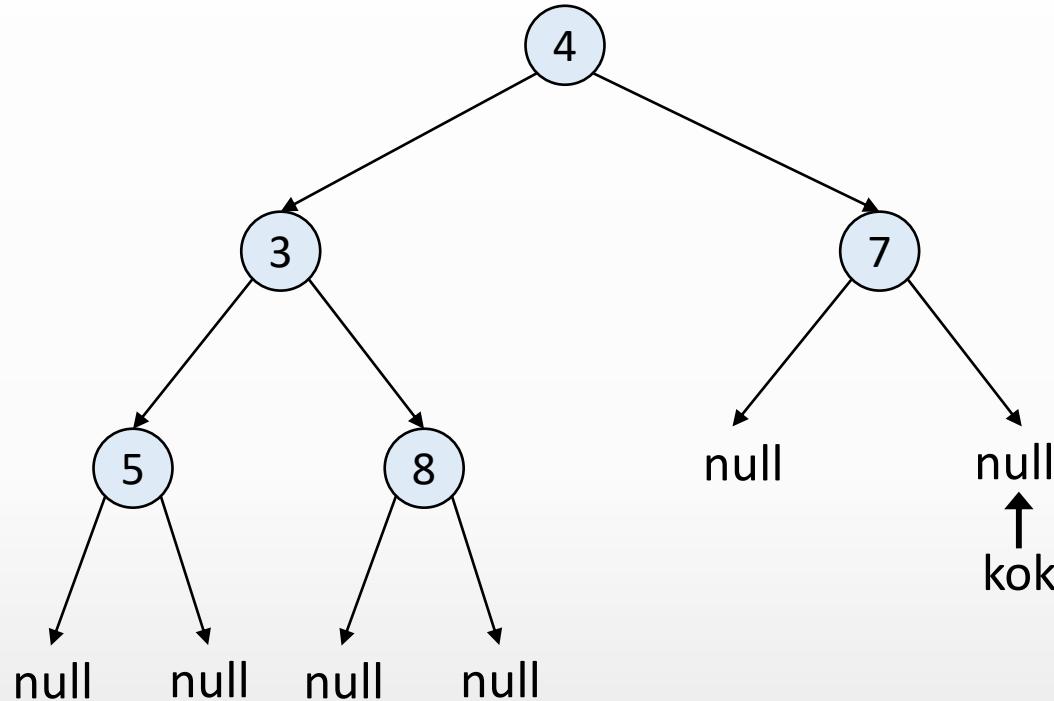
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metot çağrımı	satır no	kok	sonuc	sol	sag
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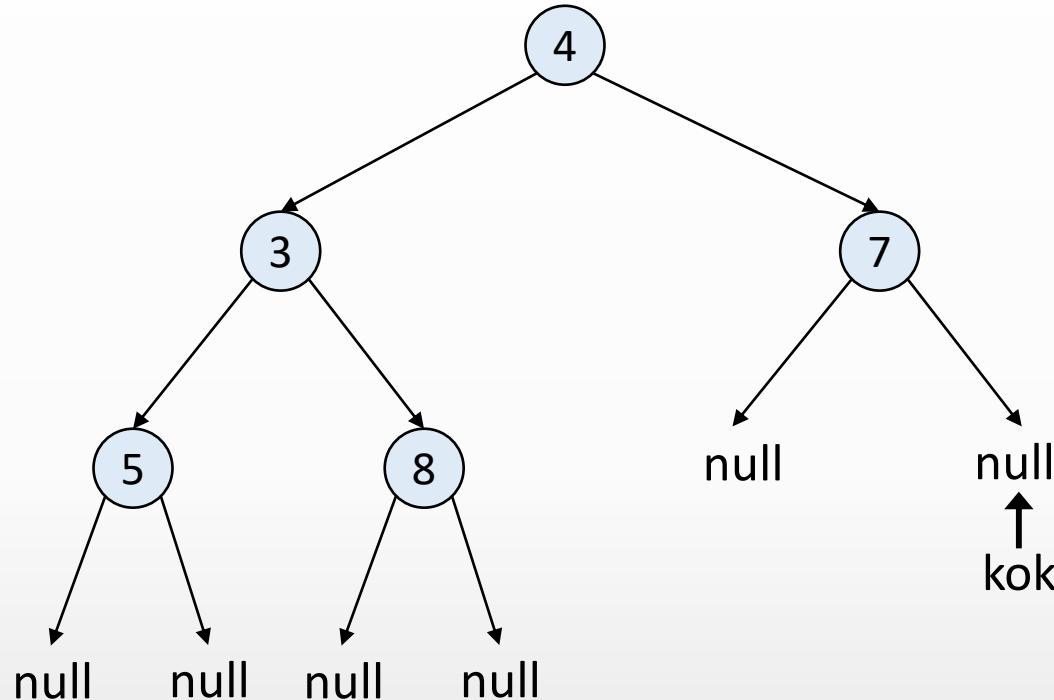
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IMV = -2147483648

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

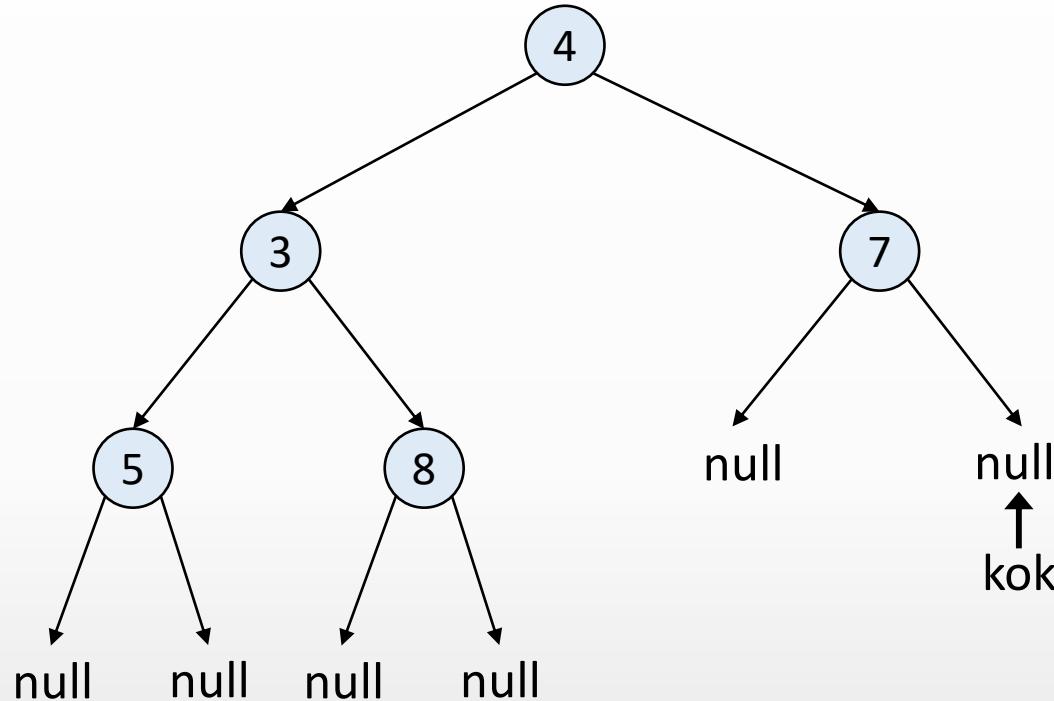
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	
enBuyukBul		null			

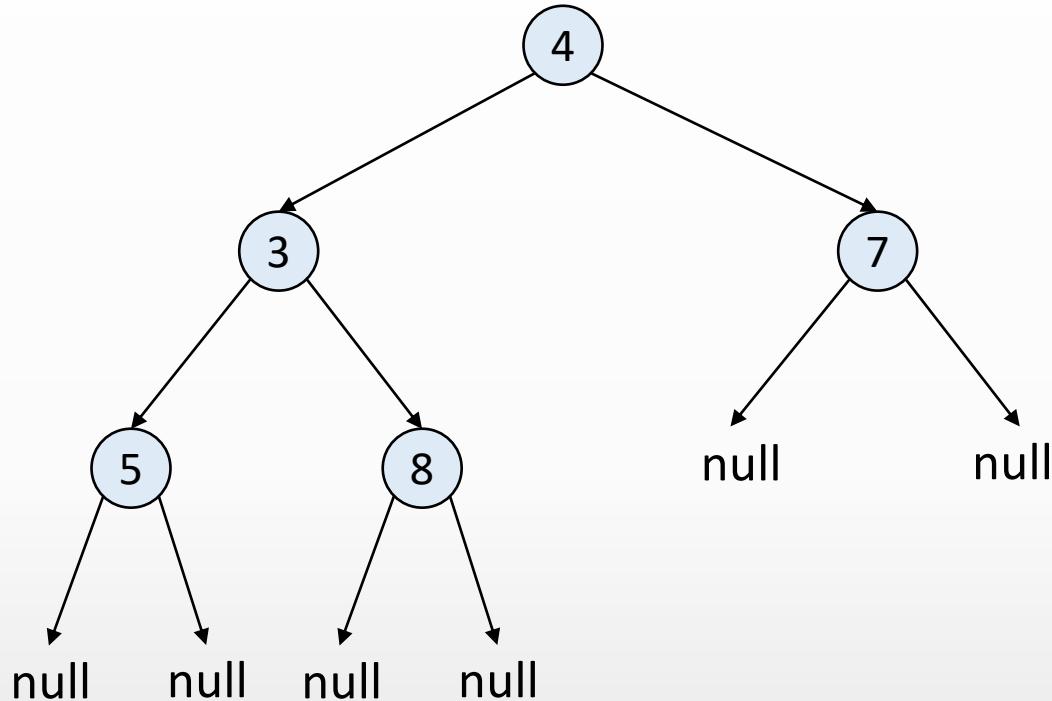
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	
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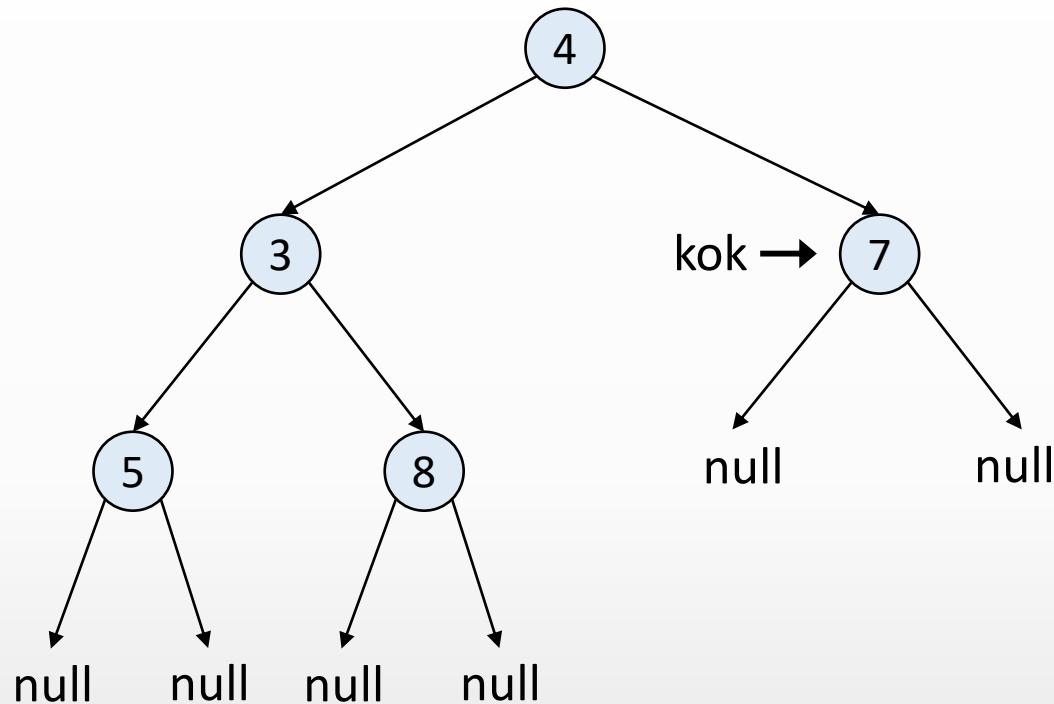
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IMV = -2147483648

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

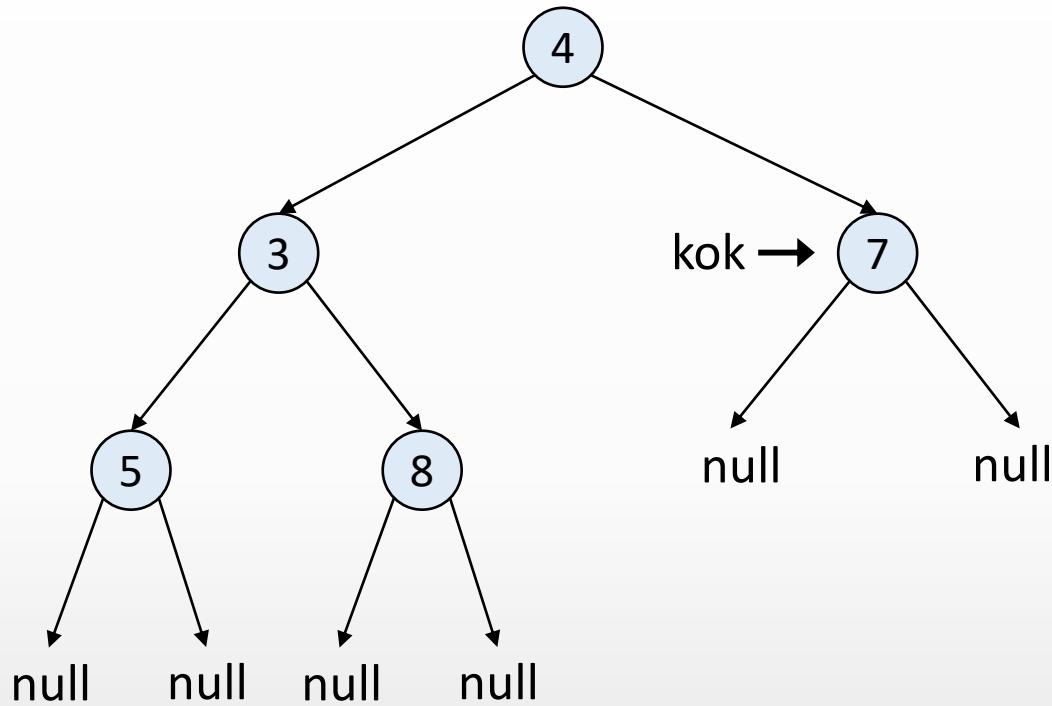
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IMV = -2147483648

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

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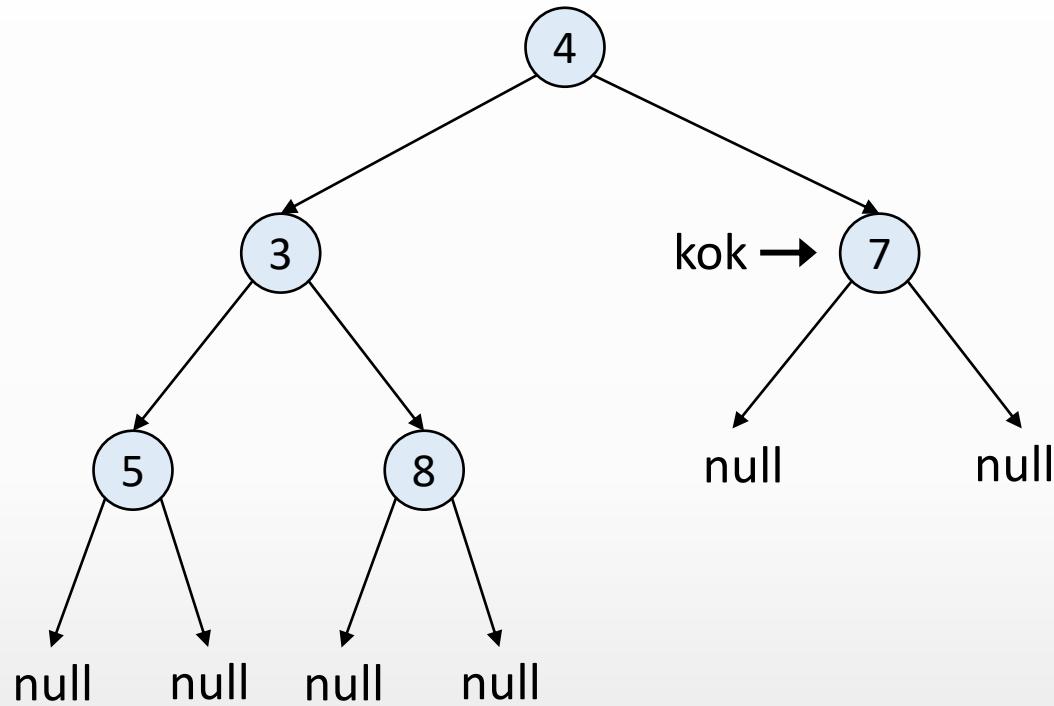
IMV = -2147483648



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



```
1 public int enBuyukBul(AgacDugumu kok) {  
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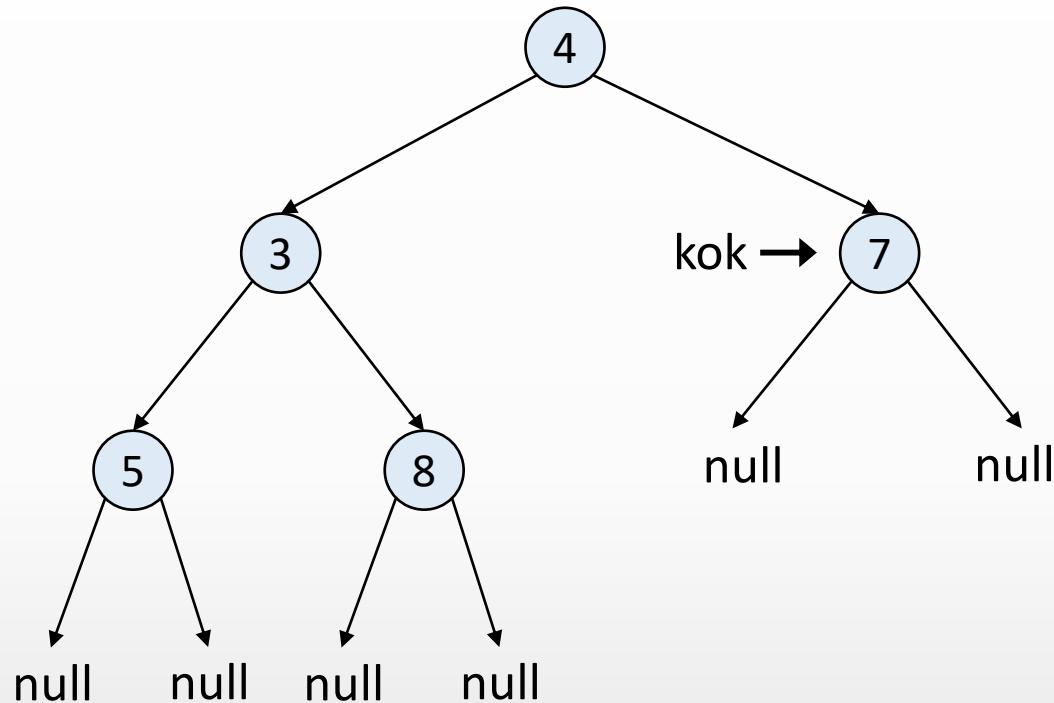
IMV = -2147483648



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



```
1 public int enBuyukBul(AgacDugumu kok) {  
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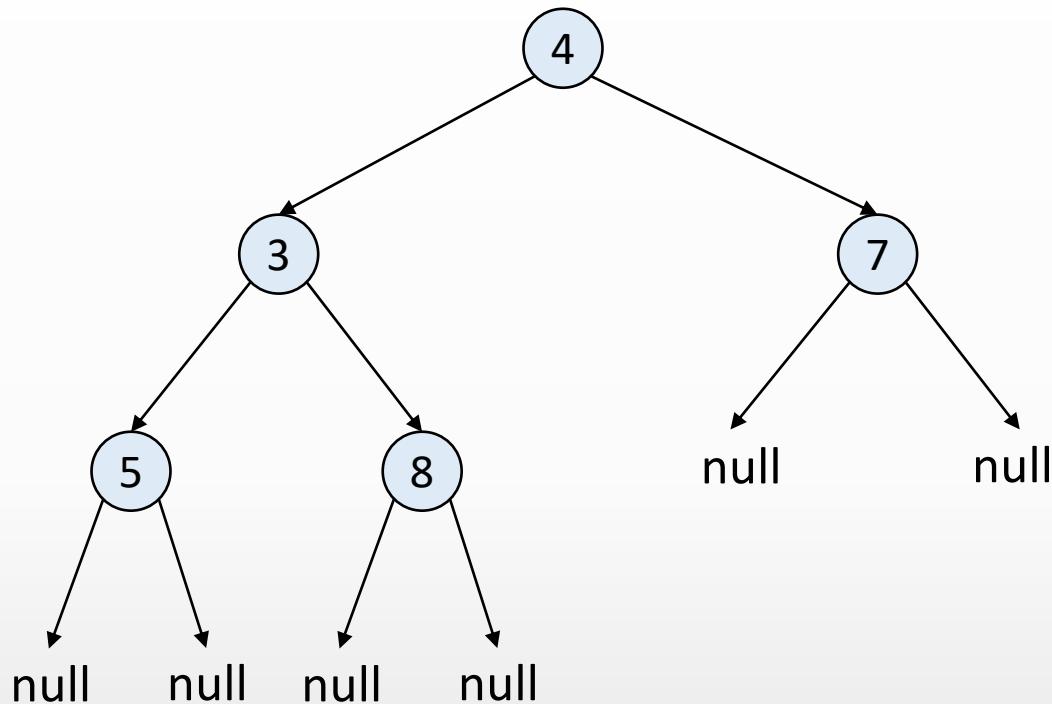
IMV = -2147483648



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



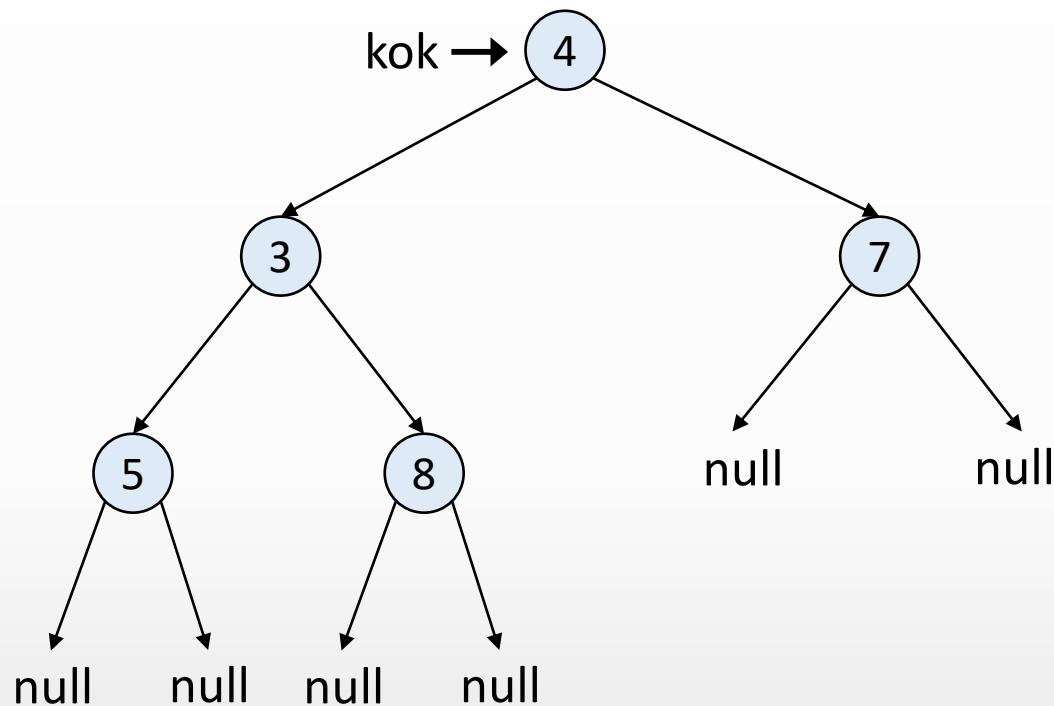
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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

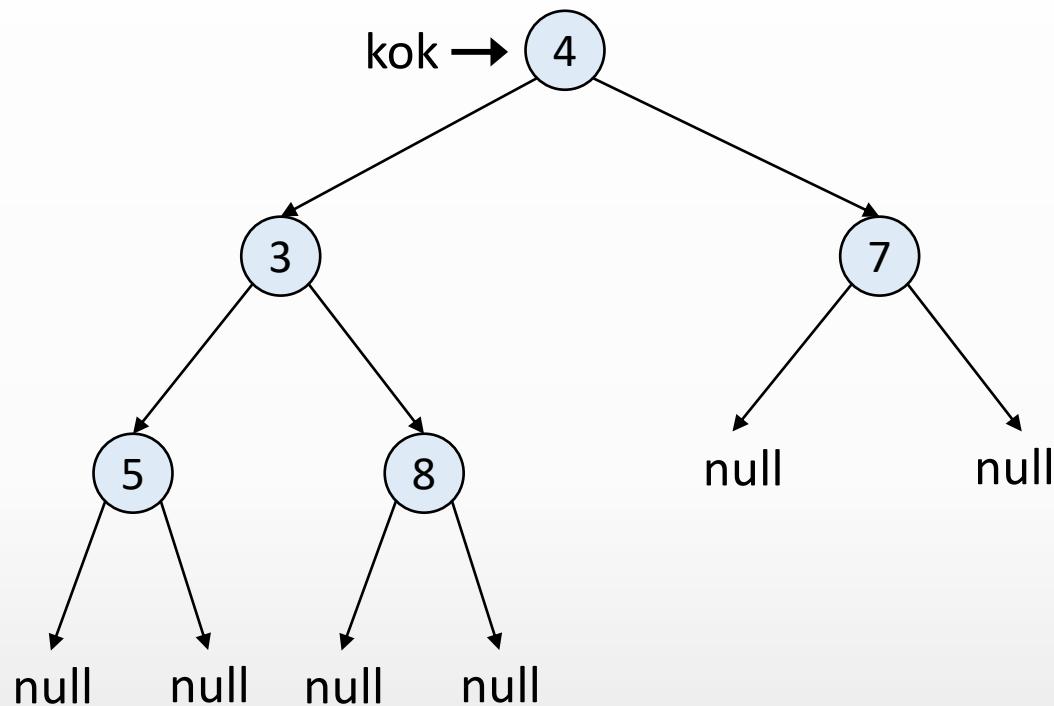


IMV = -2147483648

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

→

```
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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7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)  
11        sonuc = sag;  
12    return sonuc;  
13 }
```



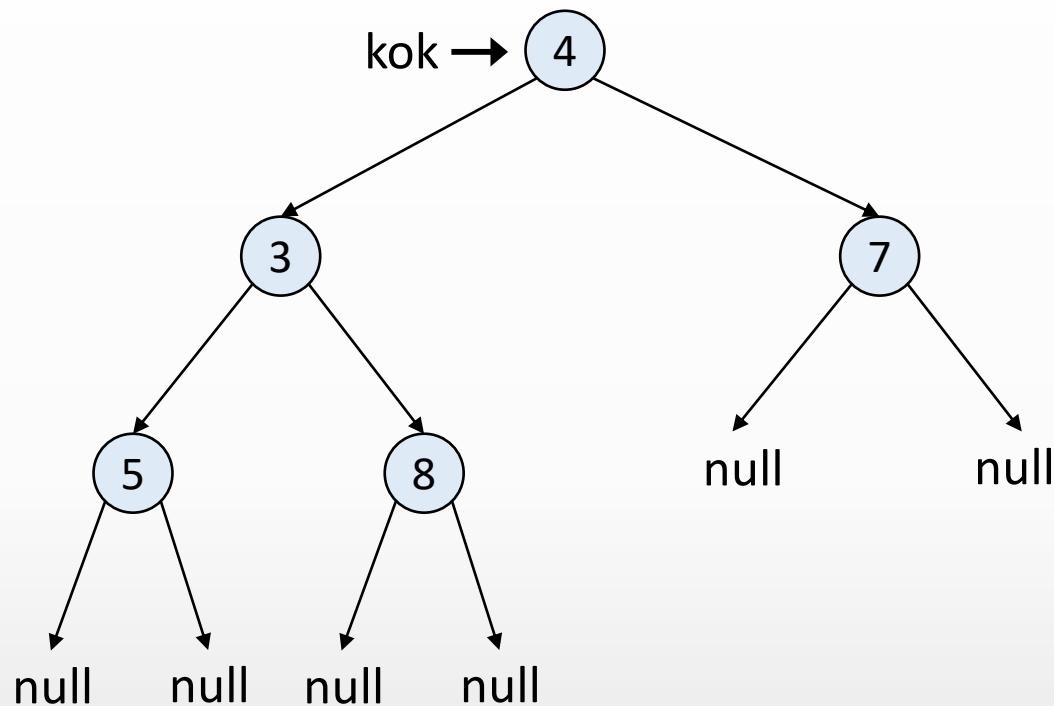
IMV = -2147483648



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 }
```



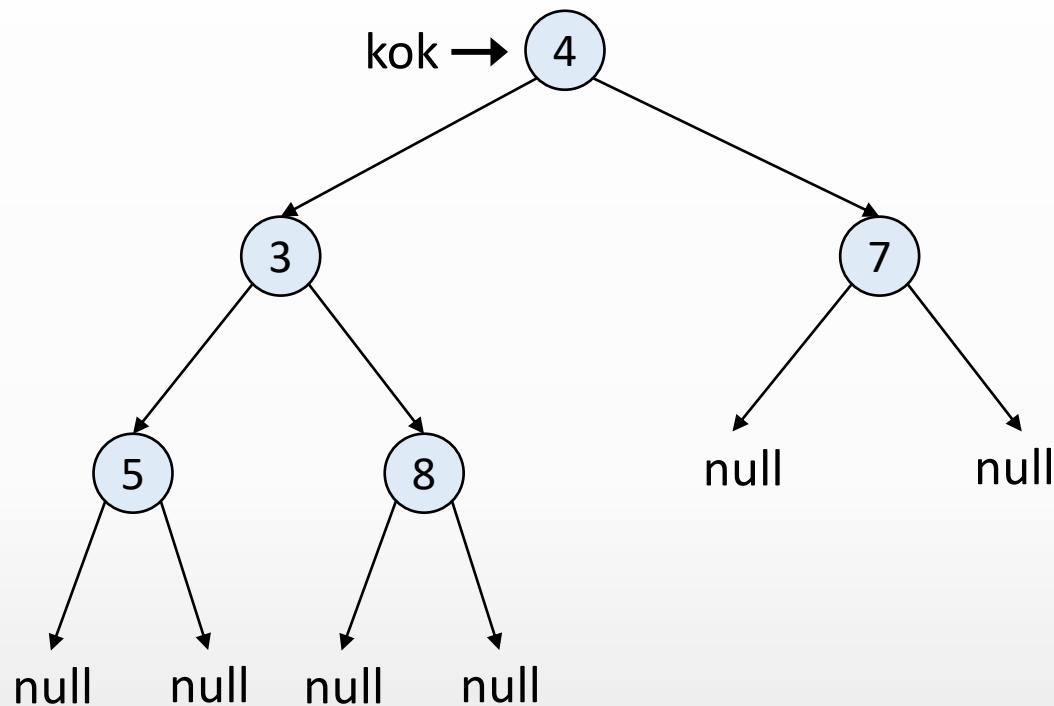
IMV = -2147483648



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



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



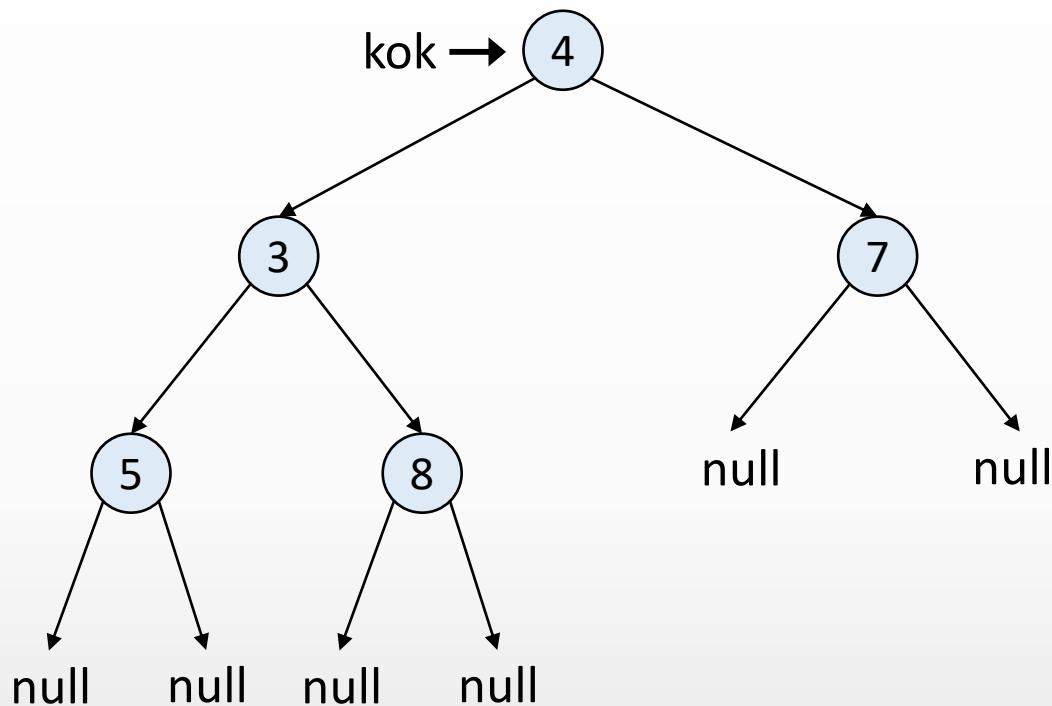
IMV = -2147483648



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



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



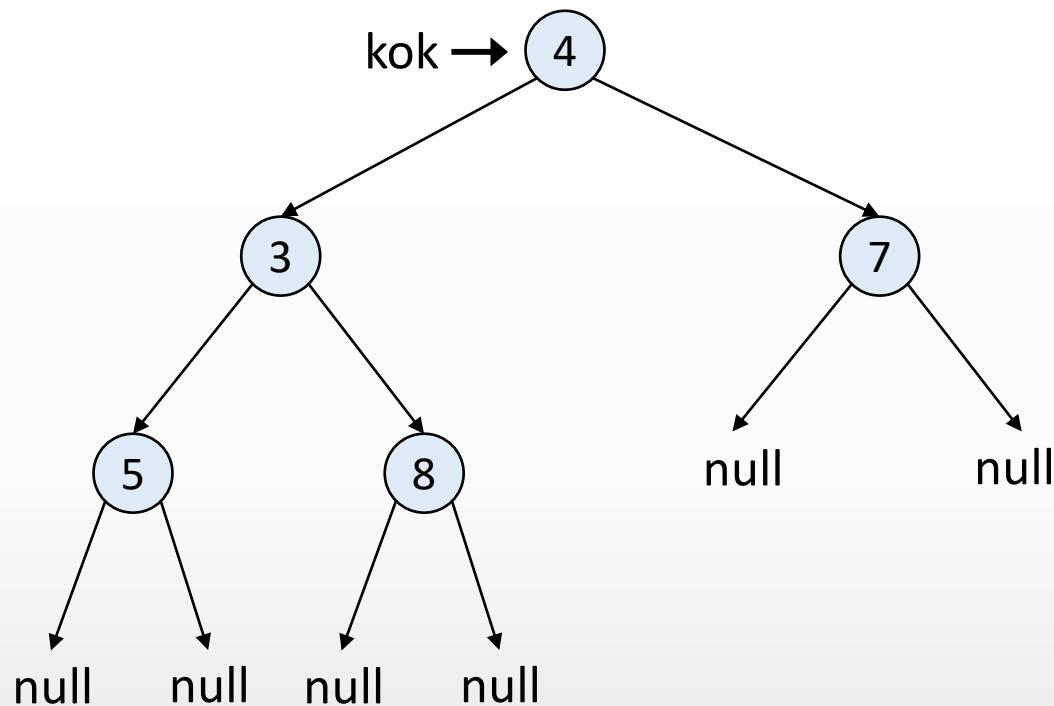
IMV = -2147483648



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

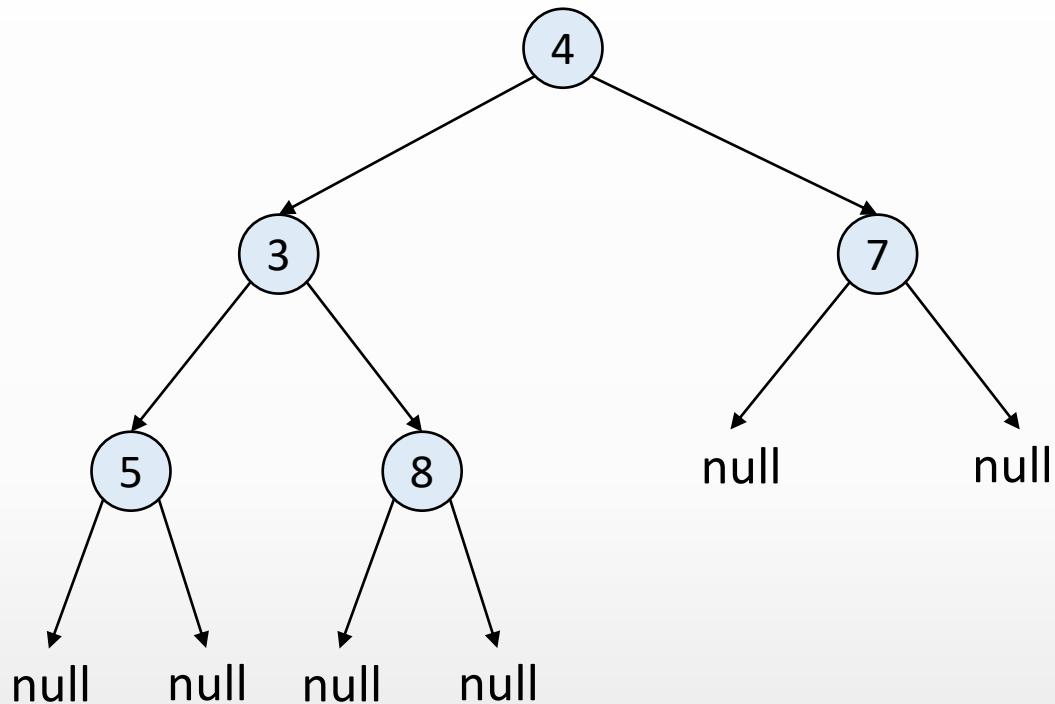
metot çağrıması	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	8	7

→

```
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 }
```





# SON