



# 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

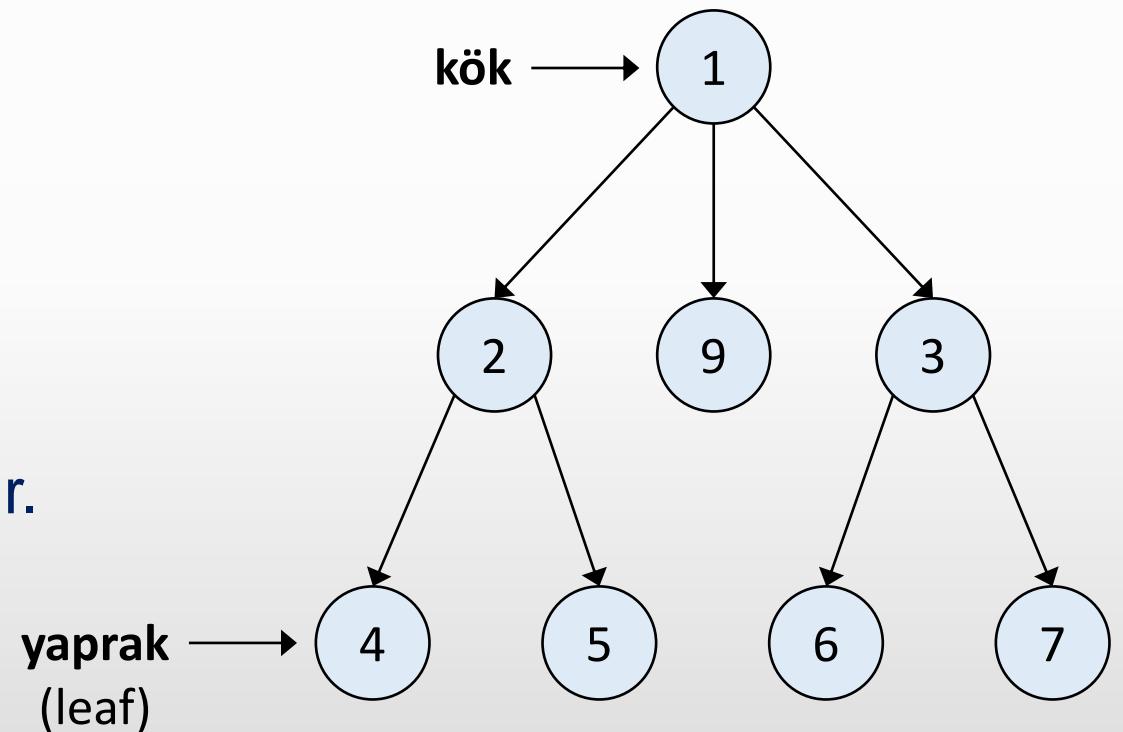


- Verileri **hiyerarşik** bir şekilde tutmak için kullanılır.
- **Doğrusal olmayan** bir veri yapısıdır.
- **Düğümler** (nodes) ve **kenarlar** (edges) kullanılarak oluşturulurlar.
- **Kök** düğüm, **yaprak** düğümler ve **İç** düğümler, temel ağaç öğeleridir.
- Her düğüm, bir veya daha fazla alt düğüme 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

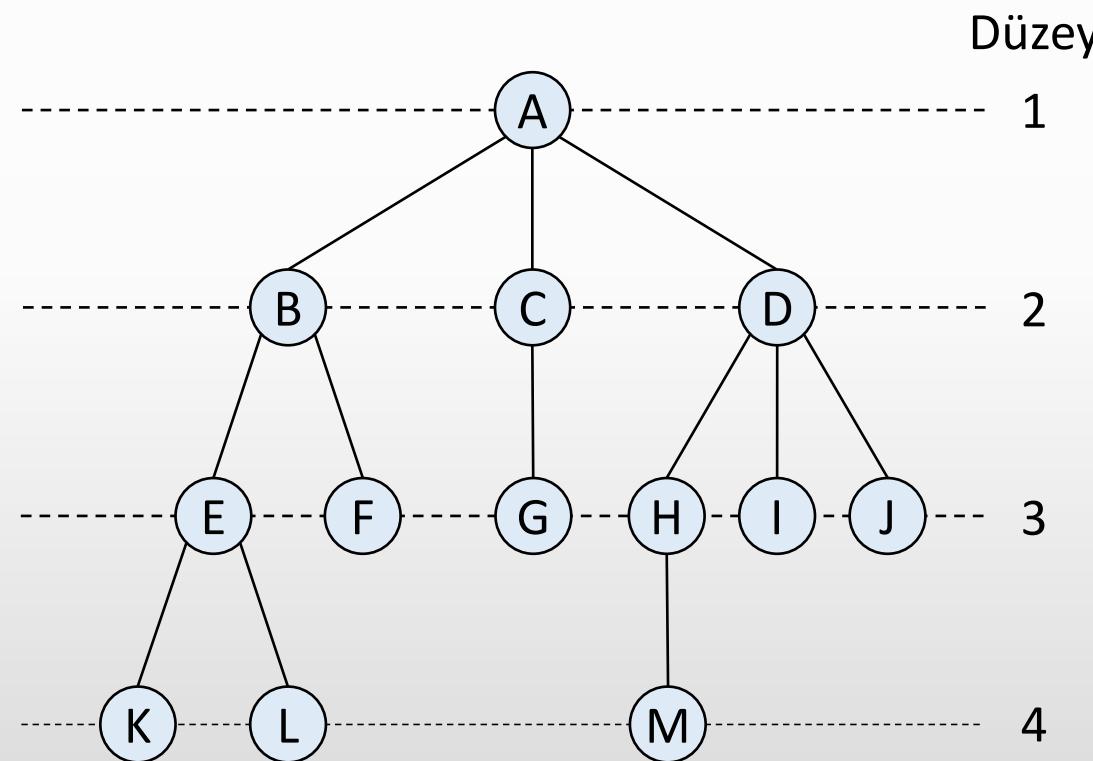
- Veritabanı yönetimi,
- Hiyerarşik verilerin temsili,
- Bilgisayar bilimindeki birçok algoritmanın temelinde, kullanılır.



# 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.

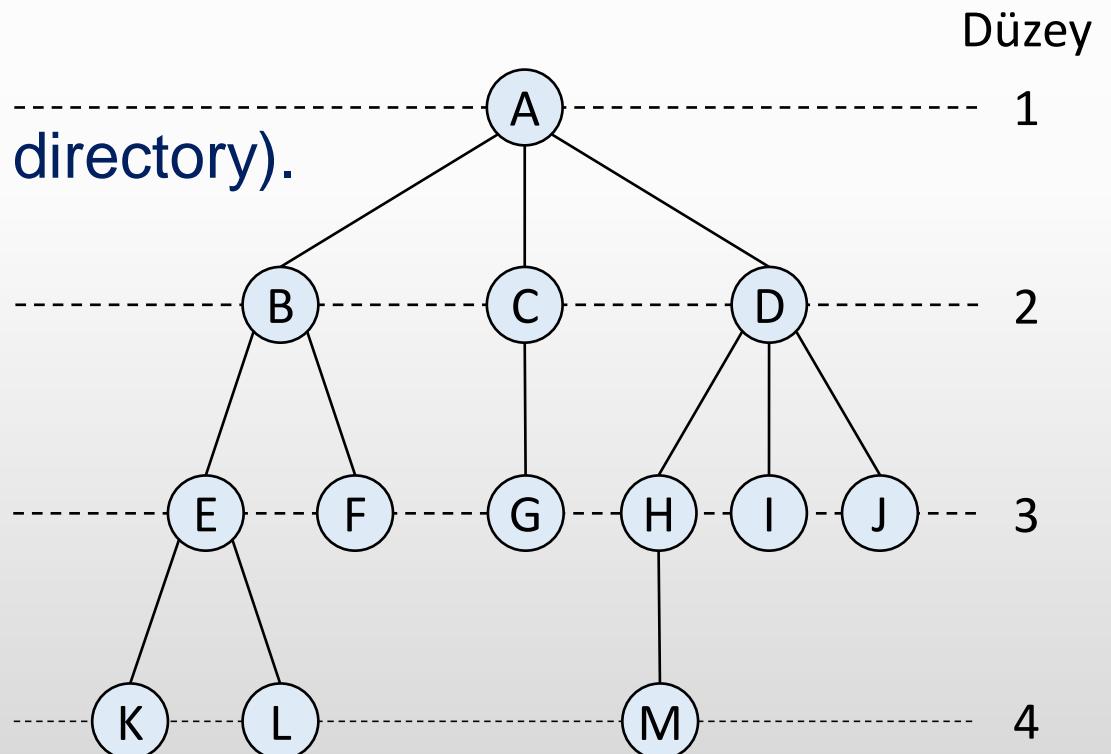
# Ağaç İlişkileri





# Kök Düğüm (Root Node)

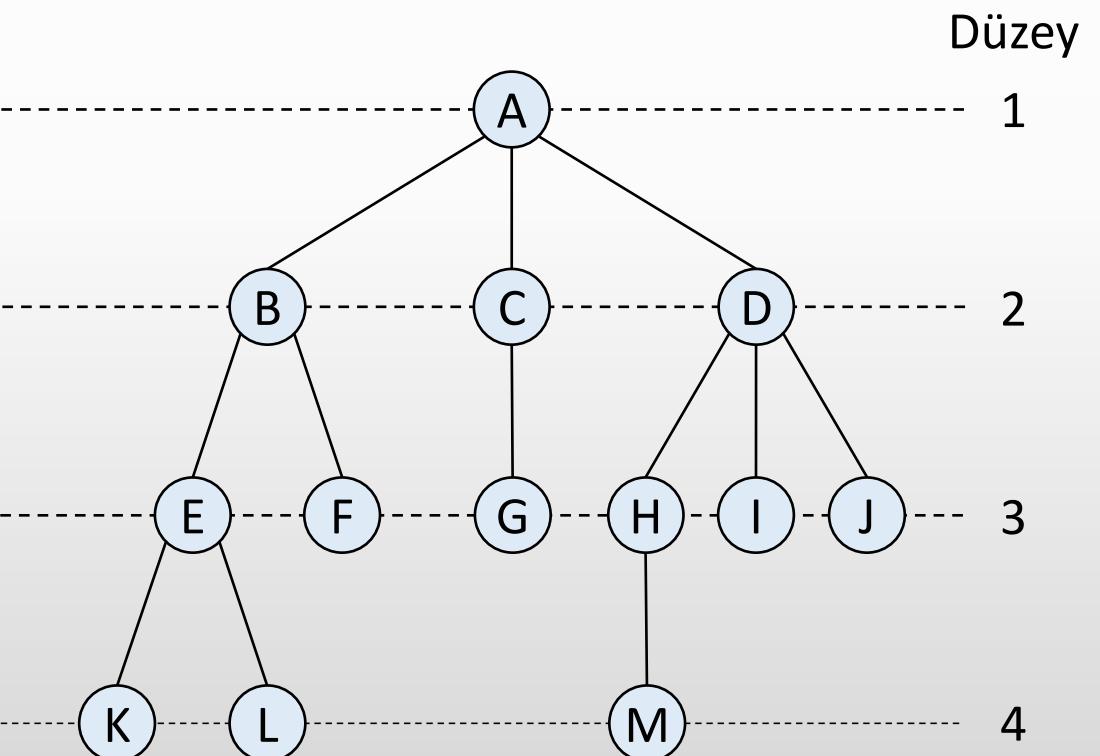
- Ağacın en üst düğümüdür.
- Hiçbir üst düğüme sahip değildir.
- **Örnek:**
  - Dosya sisteminin ana dizini (root directory).





# Yaprak Düğüm (Leaf Node)

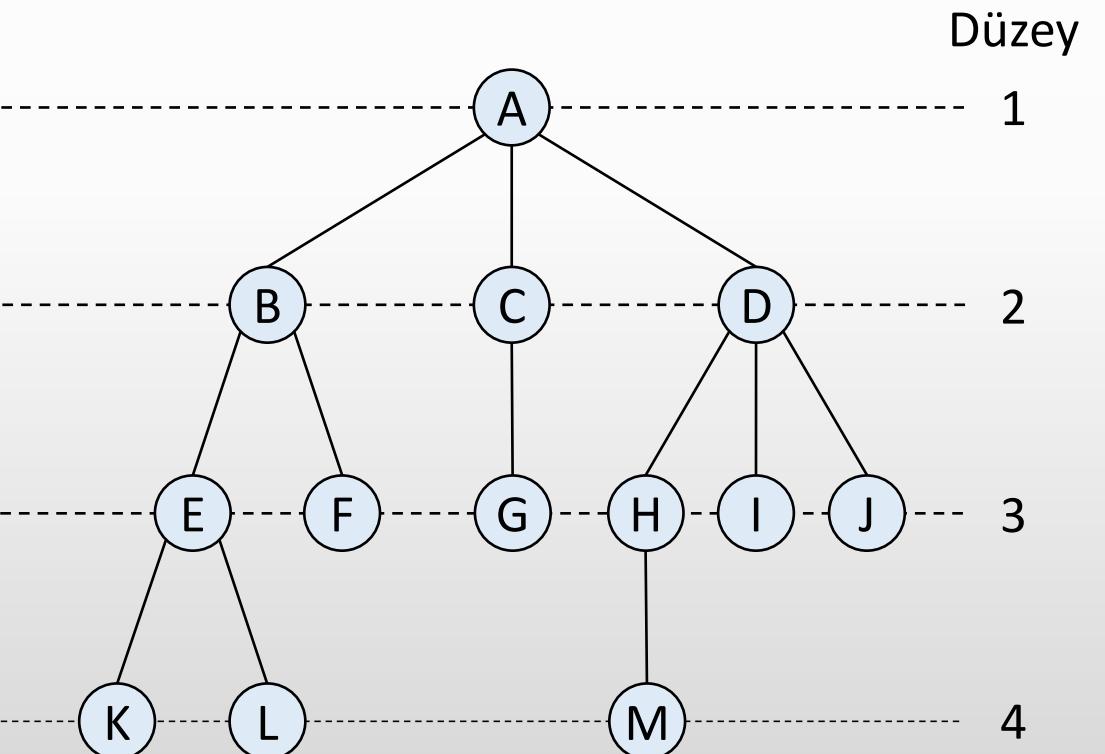
- Hiçbir alt düğüme sahip olmayan düğümlerdir.
- Genellikle verileri içerir.
- **Örnek:**
  - Bir dosya sistemindeki dosyalar.





# İç Düğüm (Internal Node)

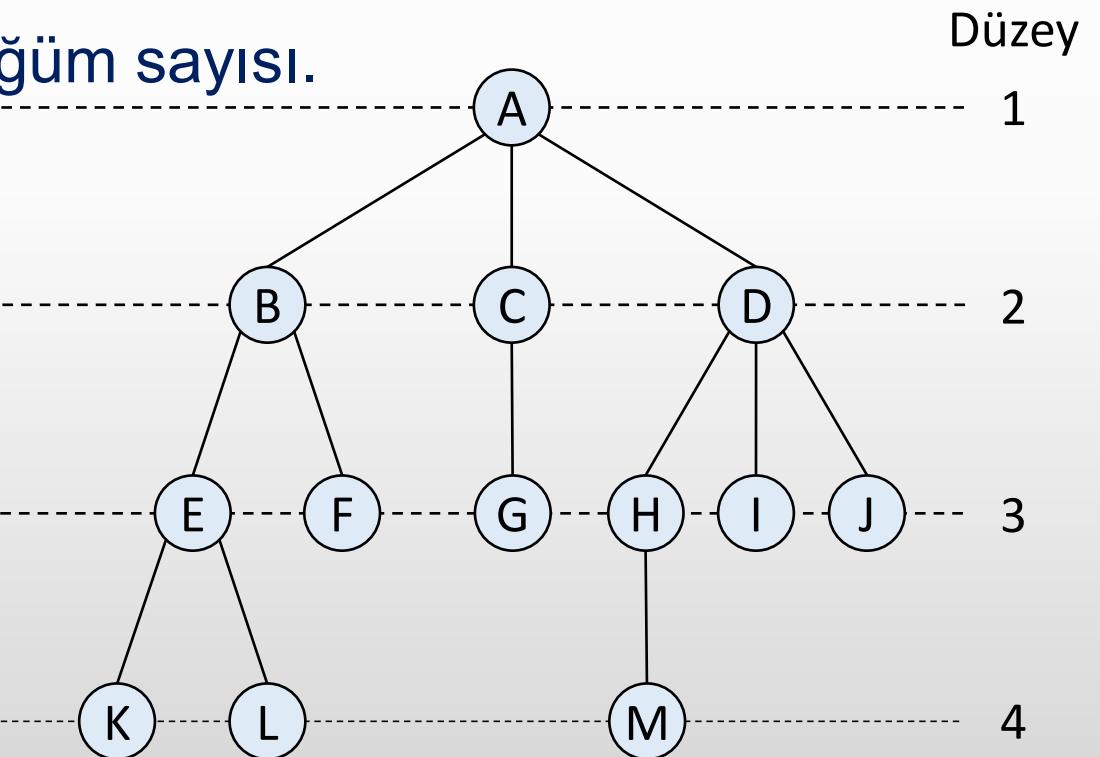
- Hem üst hem de alt düğümlere sahip olan düğümlerdir.
- Genellikle veri taşıır.
- **Örnek:**
  - Bir dosya sistemindeki klasörler.





# Derece (Degree)

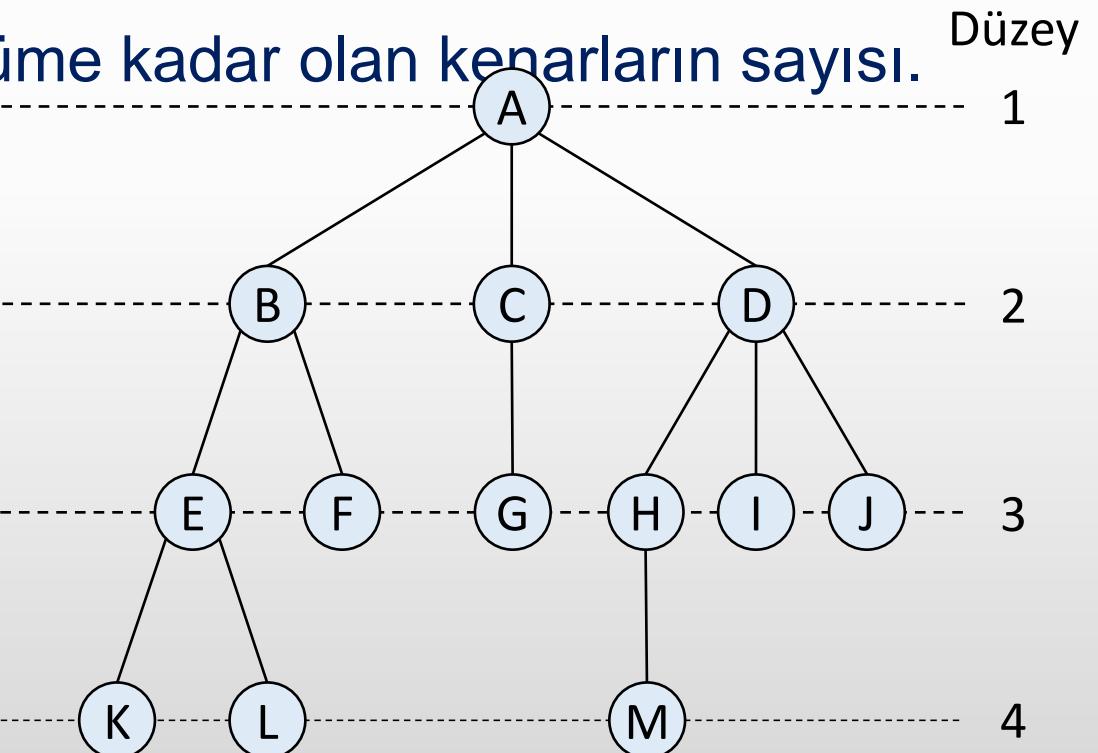
- Bir düğüme eklenen alt ağaçların toplam sayısına denir.
- **Örnek:**
  - Düğümün sahip olduğu çocuk düğüm sayısı.





# Derinlik (Depth)

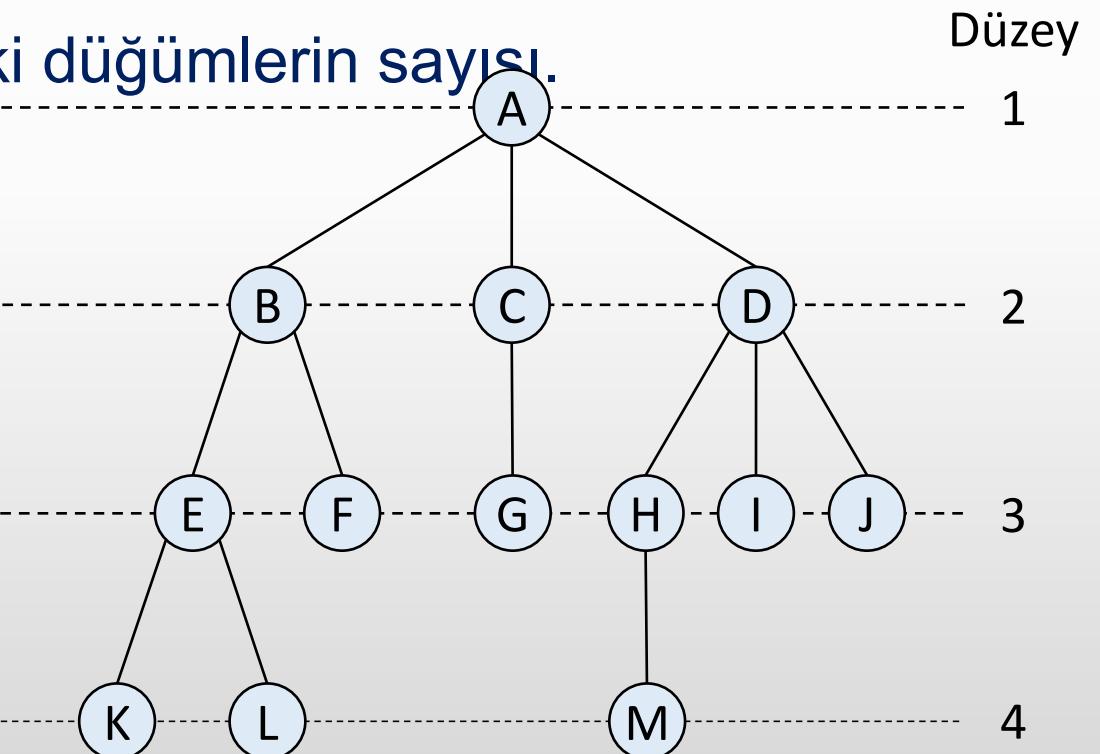
- Bir düğümün kök düğüme olan uzaklığını ifade eder.
- **Örnek:**
  - Ağaçın kökünden bir yaprak düğüme kadar olan kenarların sayısı.





# 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

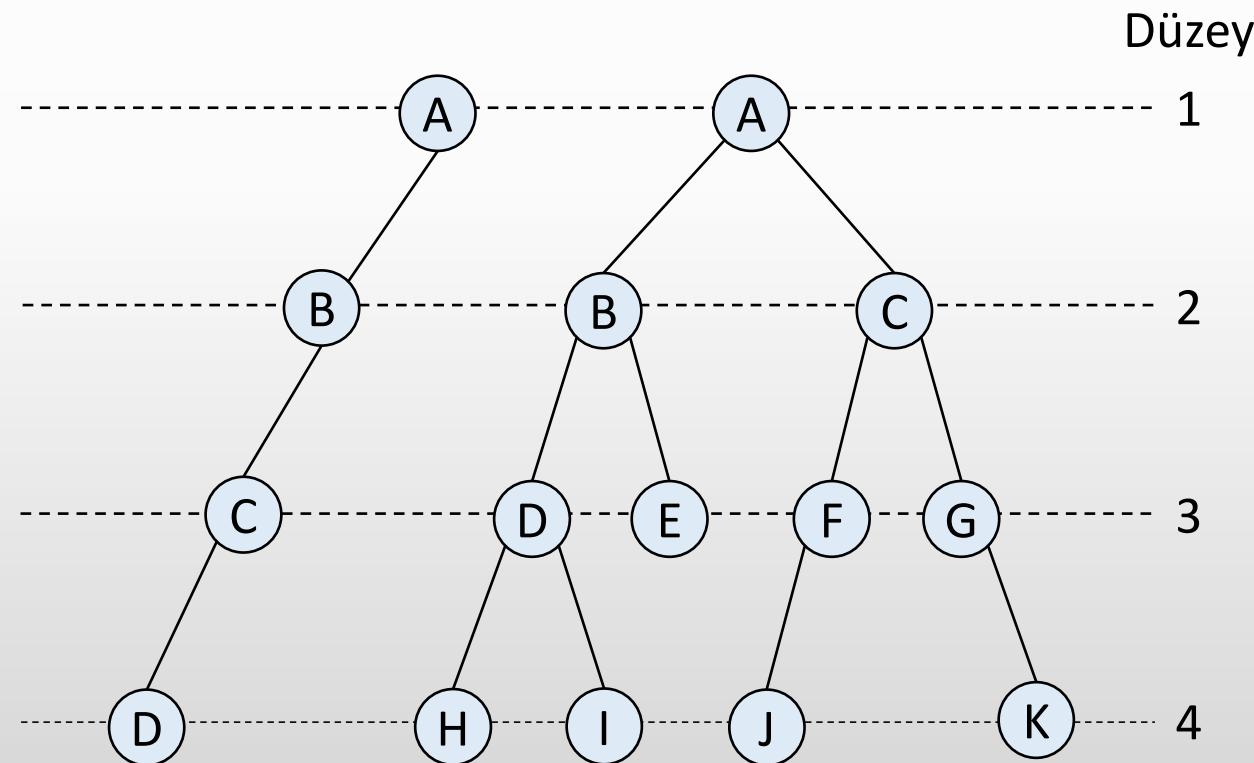


# İkili Ağaç



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

# İkili Ağaç



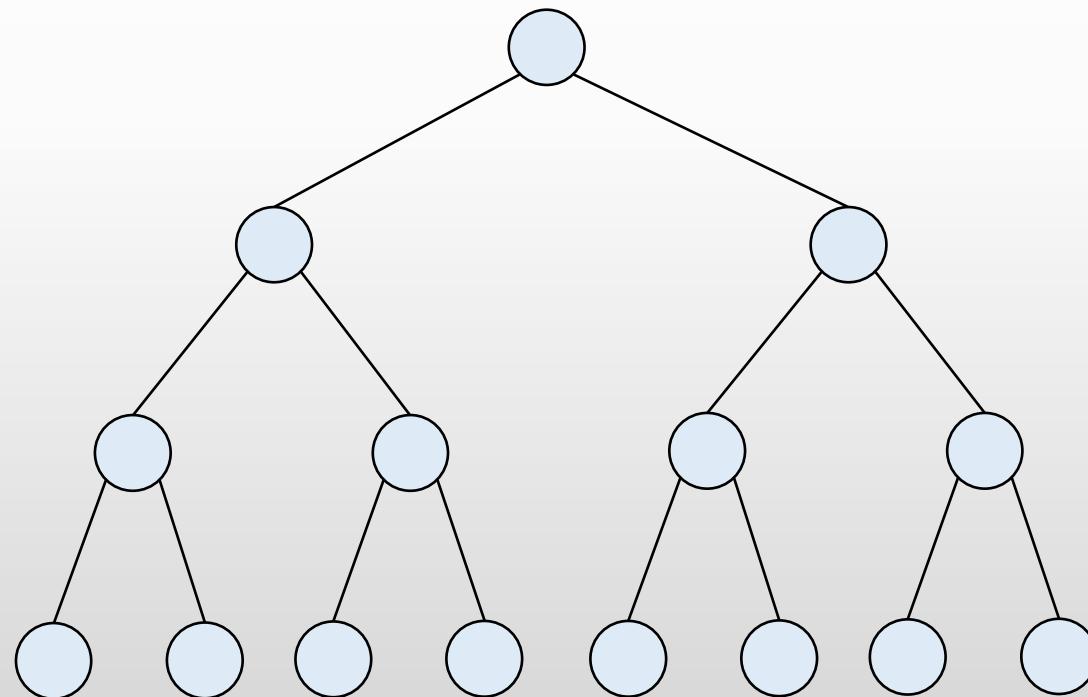


# Tam Ağaç (Full Tree)

- 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.



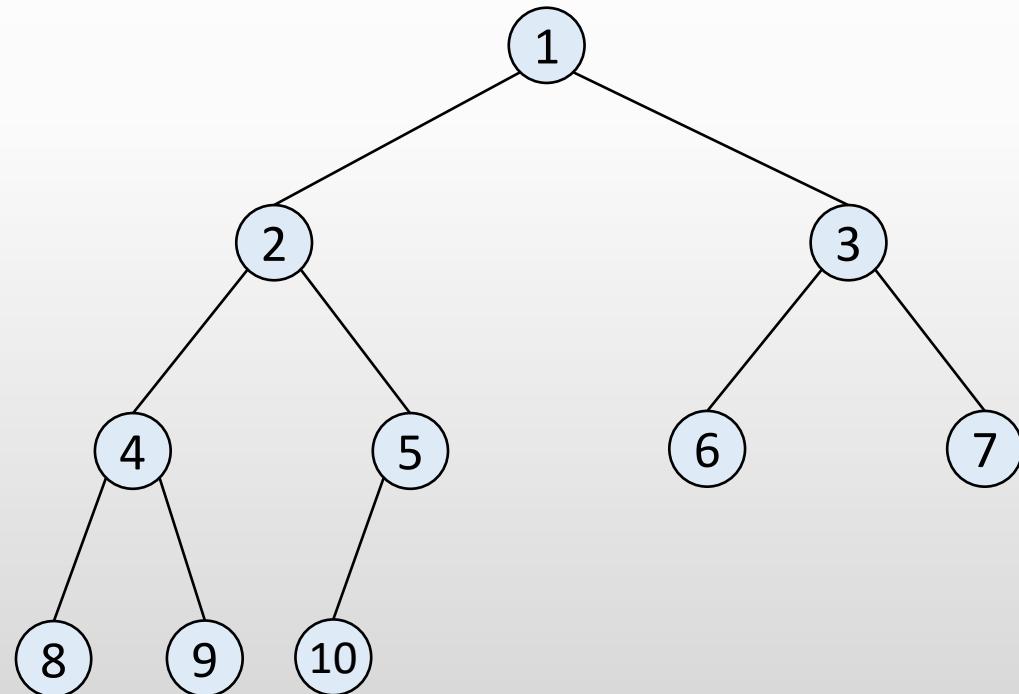
# Tam Ağaç (Full Tree)





# Tamamlanmış Ağaç (Complete Tree)

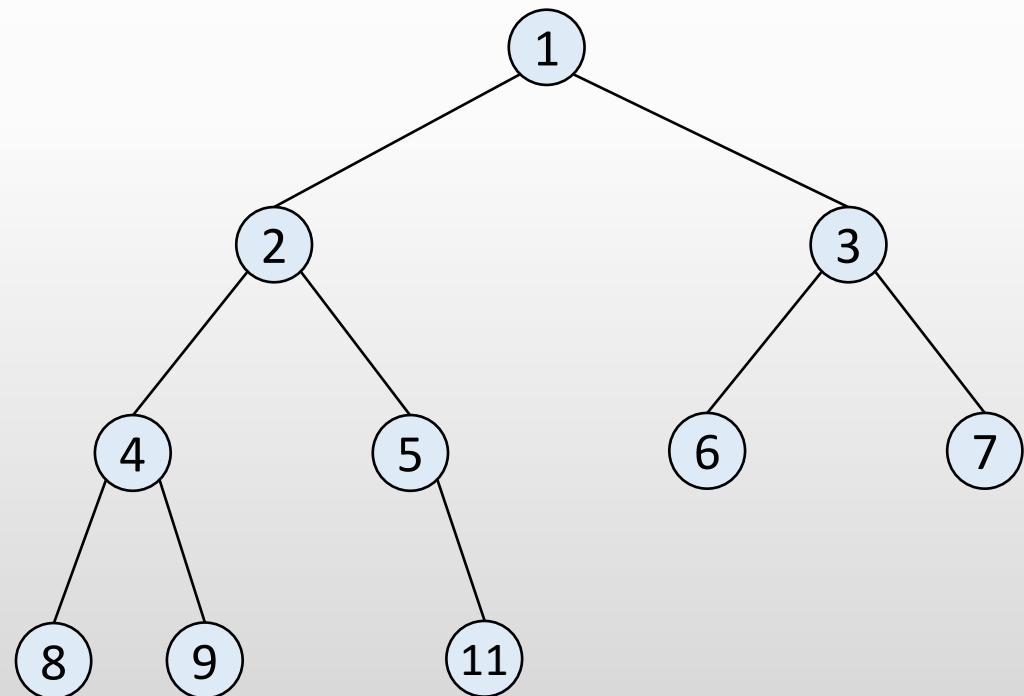
- Son seviyede bazı düğümler eksik olabilir.
- Tüm seviyelerdeki düğümler soldan sağa doğru sıralıdır.





# 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.

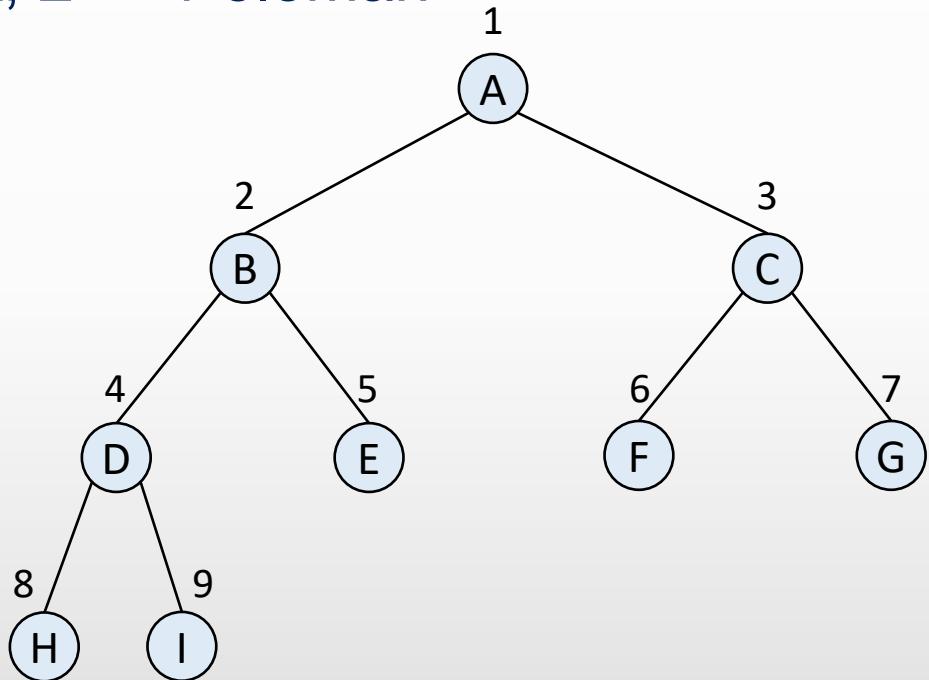
## ■ Dezavantajlar

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



# Dizi Temsili

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

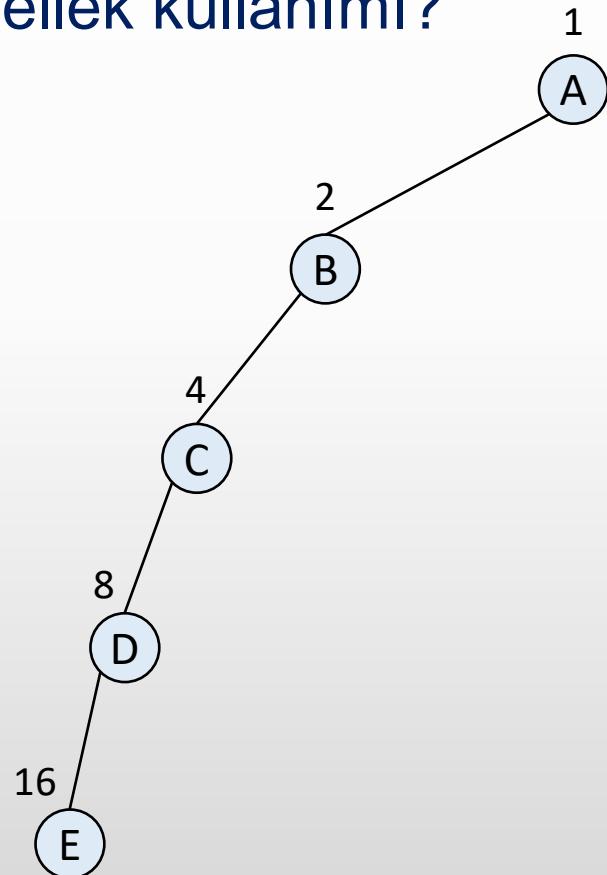


1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I



# Dizi Temsili

- Verimsiz bellek kullanımı?

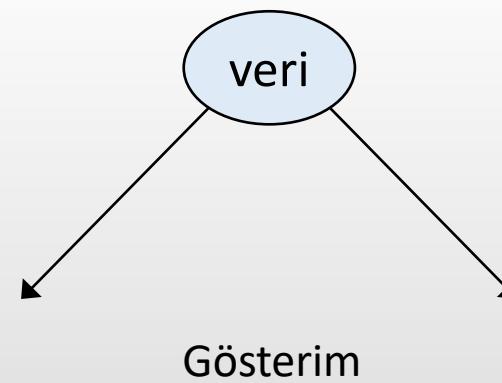


1	A
2	B
3	
4	C
...	
8	D
...	
16	E
...	
31	



# 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

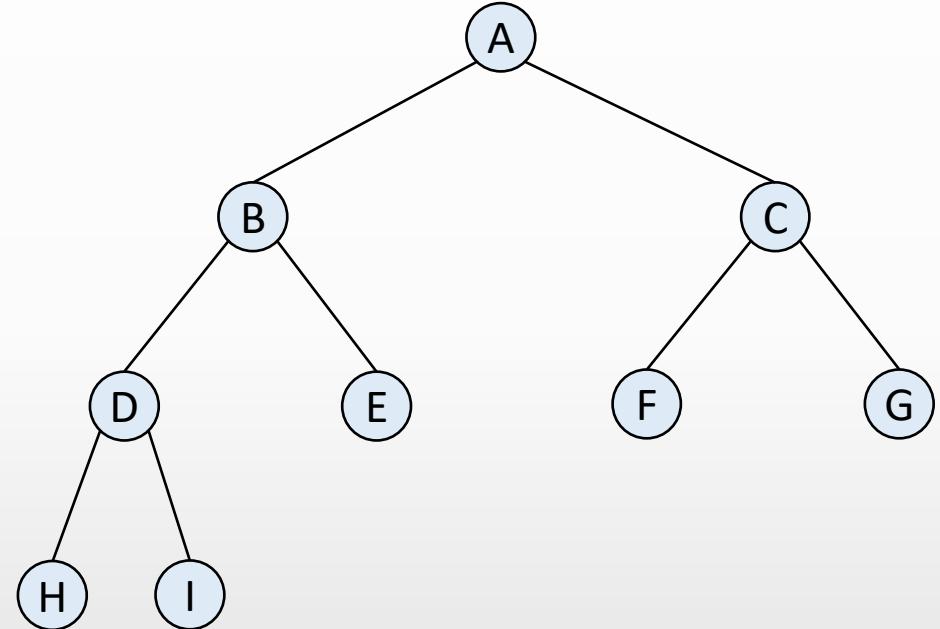
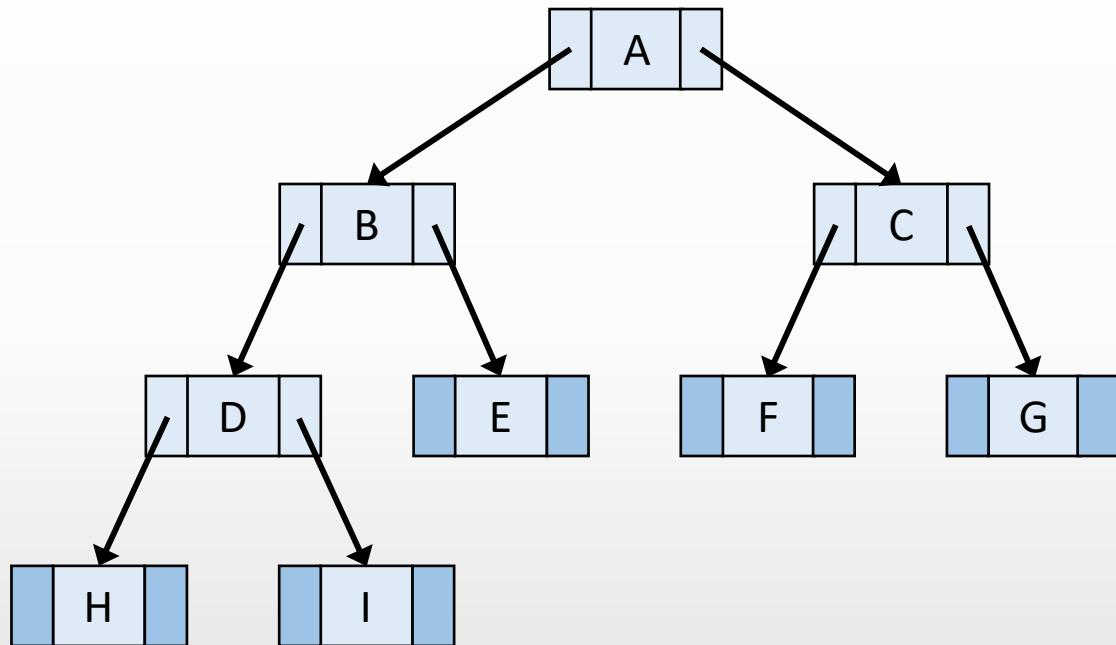
- **Dinamik:** Bağılı liste temsili, ağaç boyutu değişikçe uyarlanabilir.
- **Kolay Erişim:** Düğümler arası gezinme ve erişim kolaydır.

## ■ Dezavantajlar

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

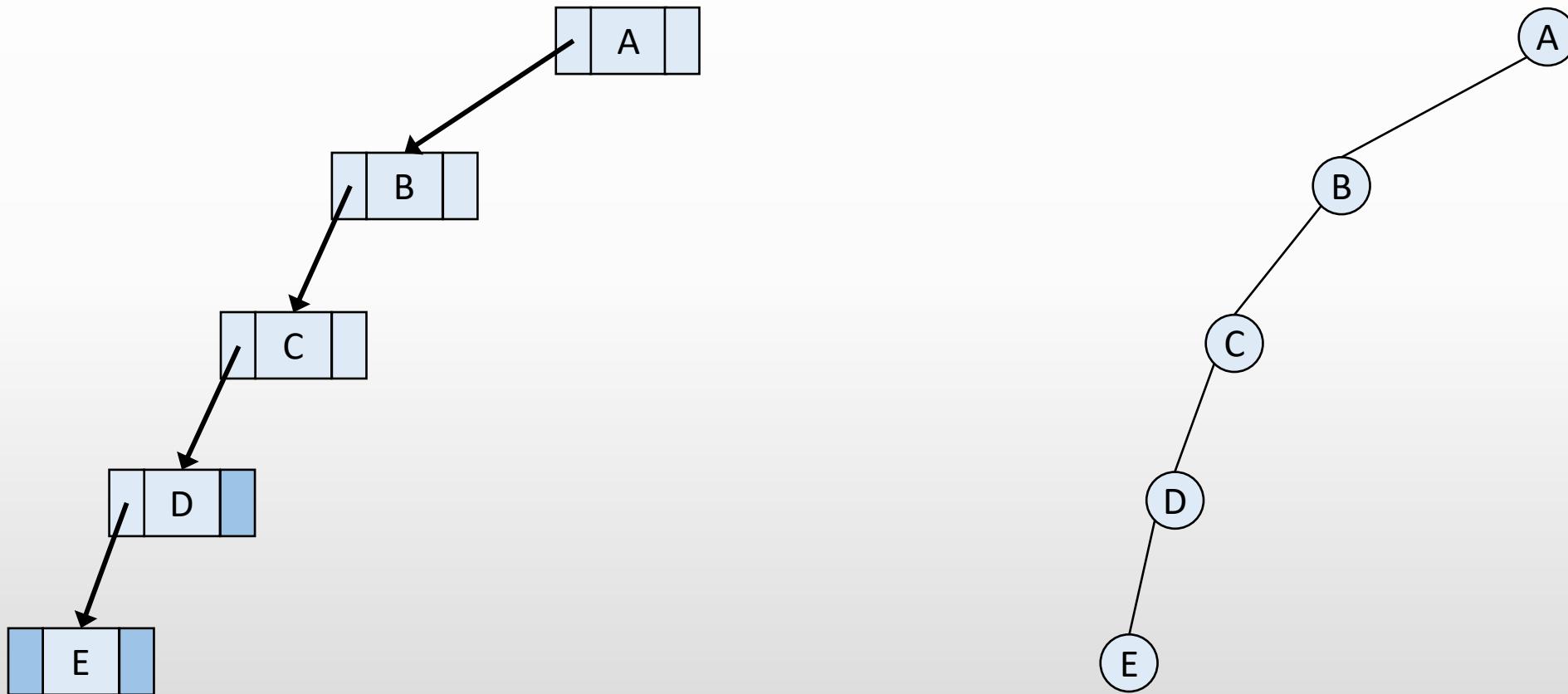


# Bağılı Liste Temsili



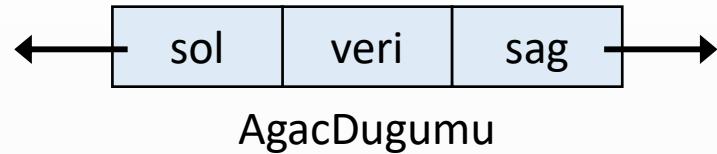


# Bağılı Liste Temsili





# 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.

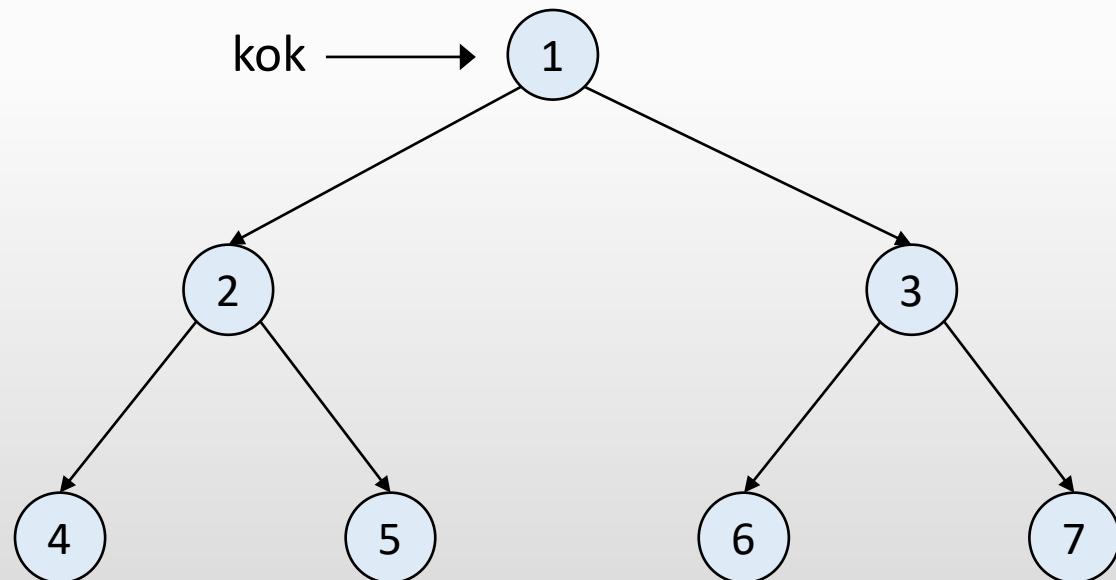
# Kök Başta (Preorder) Dolaşımı





# Kök Başta (Preorder) Dolaşımı

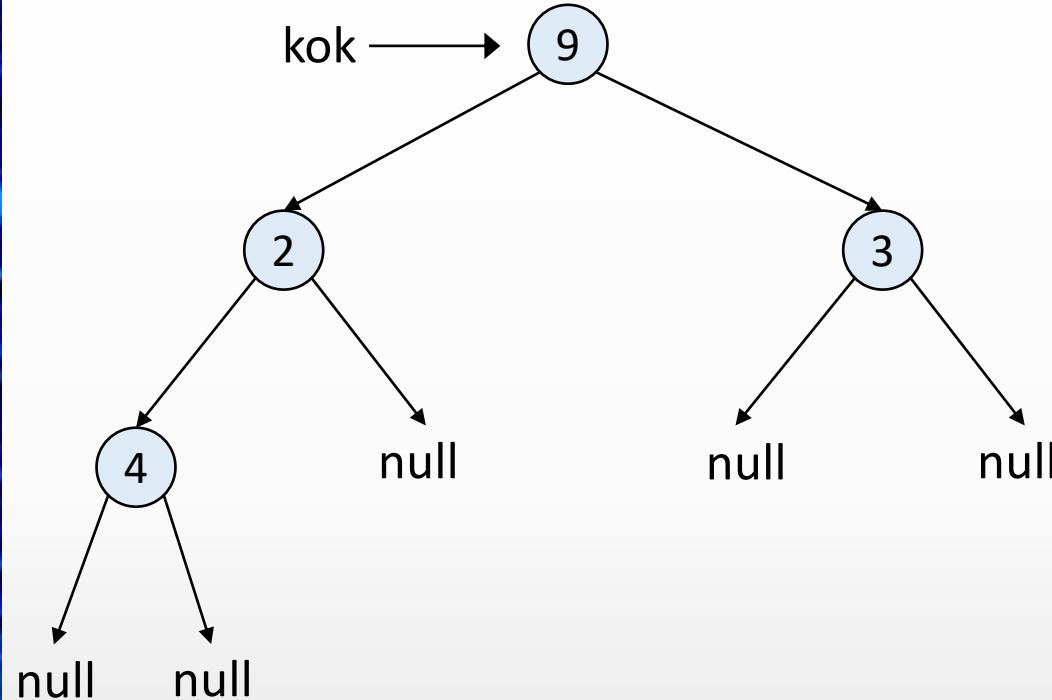
- Kök düğümü ziyaret et.
- Kök başta olacak şekilde sol alt ağacı dolaş.
- Kök başta olacak şekilde sağ alt ağacı dolaş.



Kök başta dolaşımı: 1 2 4 5 3 6 7



## Çağrıma Yığıtı (Call Stack)



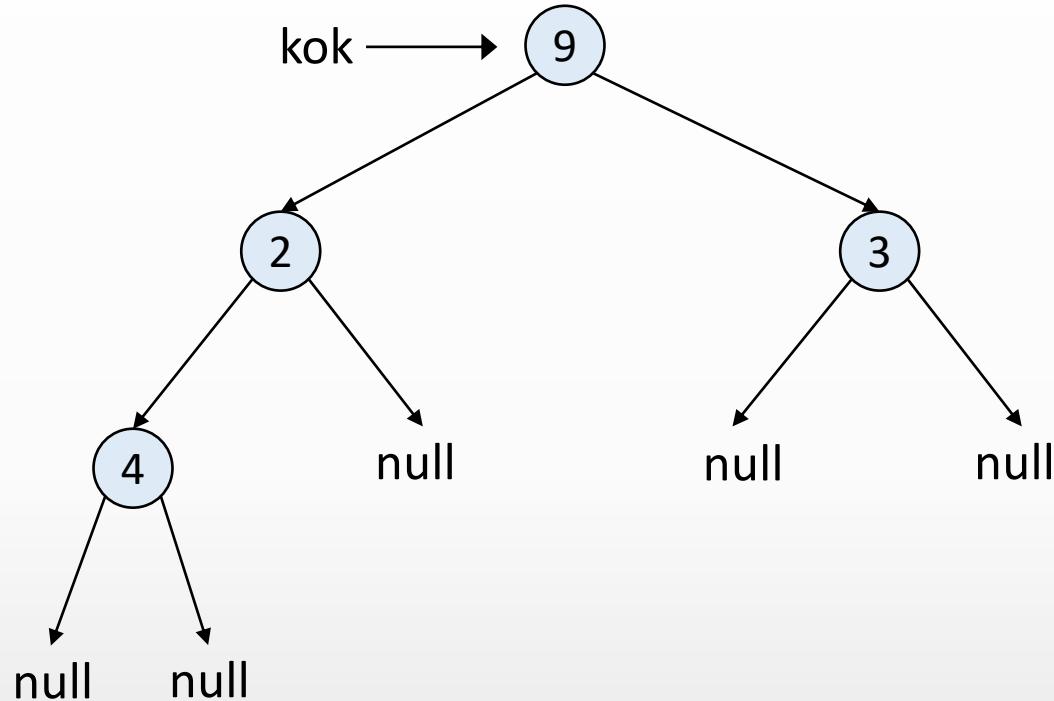
Çıktı:

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

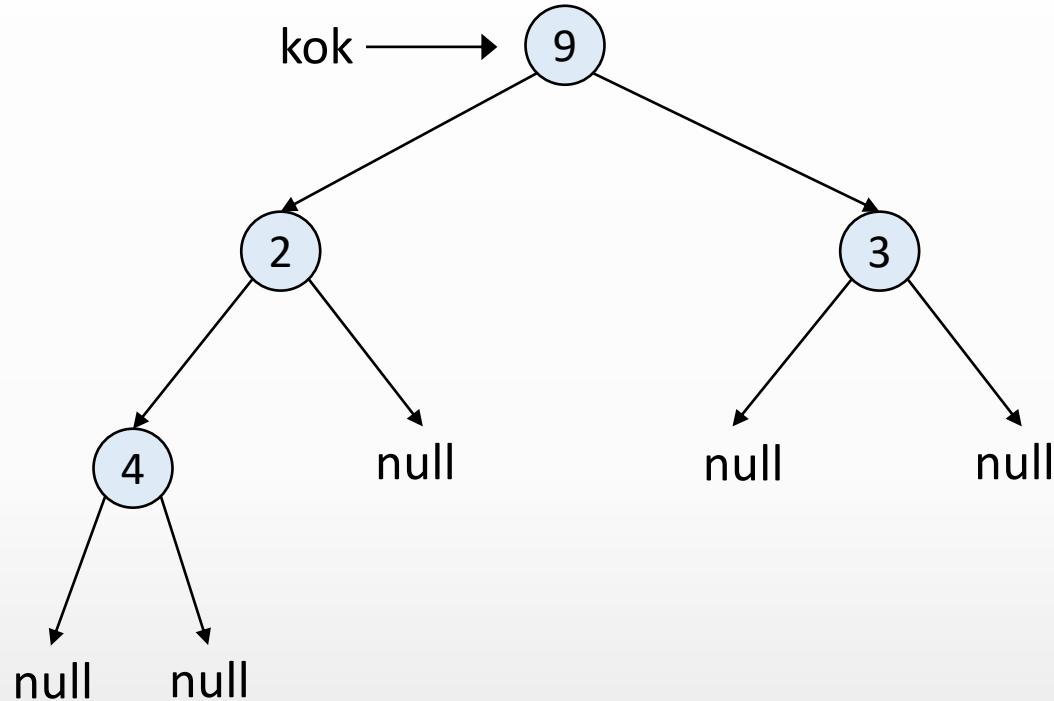
Çıktı:

→

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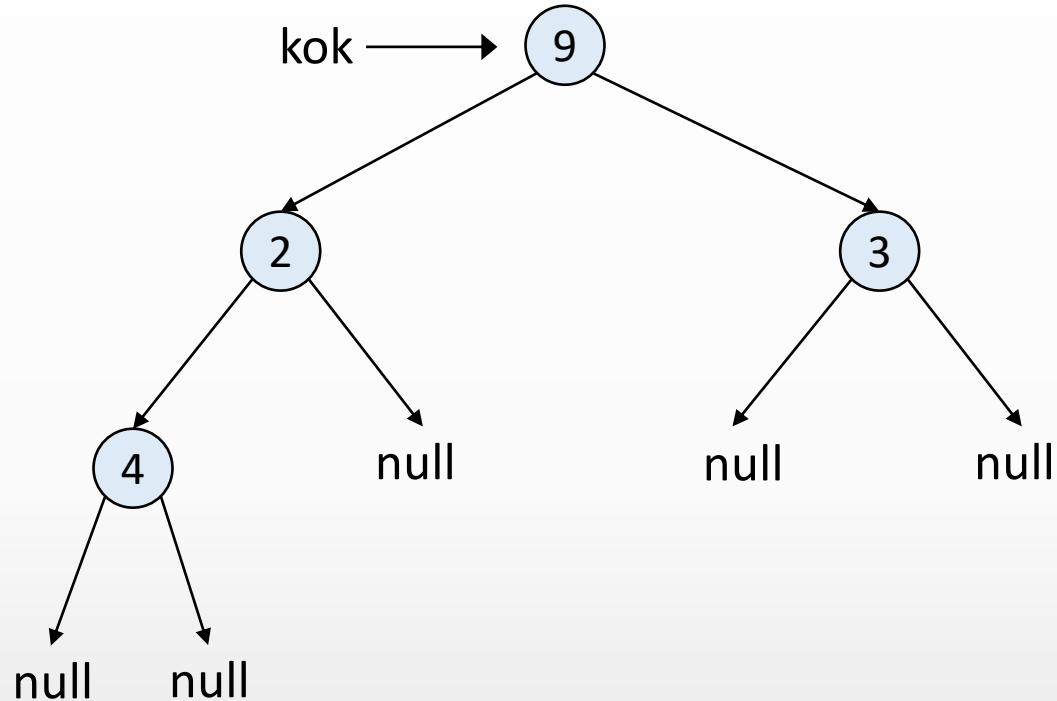
Çıktı:



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## Çağırma Yığıtı (Call Stack)



Çıktı: 9

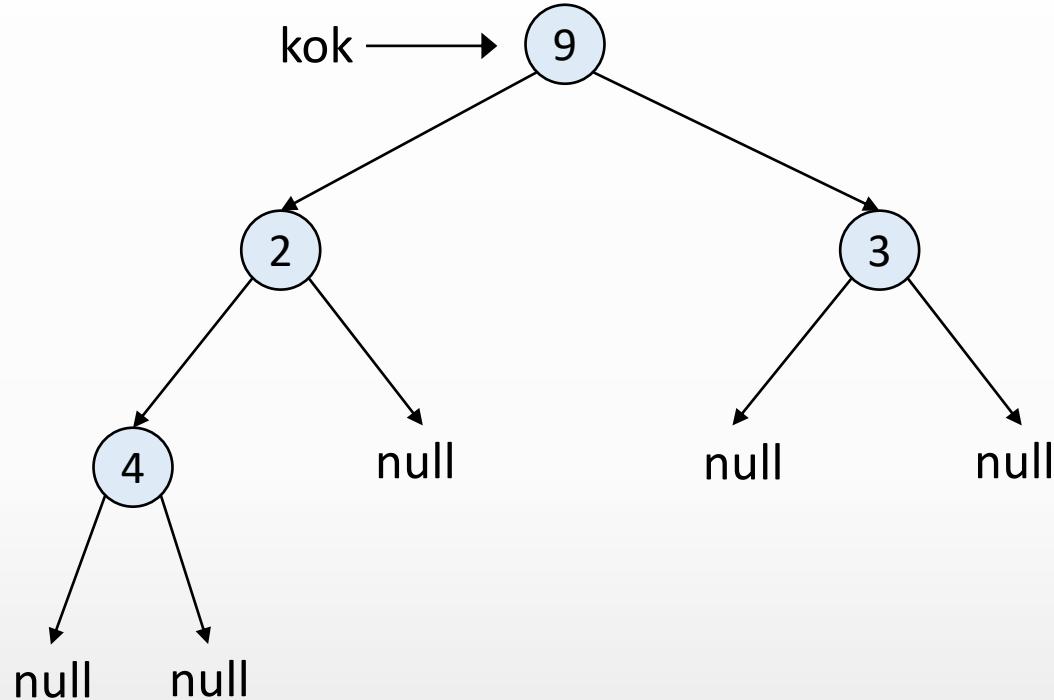
Metot Çağrımı	Satır Numarası	Kök
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## Çağırma Yığıtı (Call Stack)



Çıktı: 9



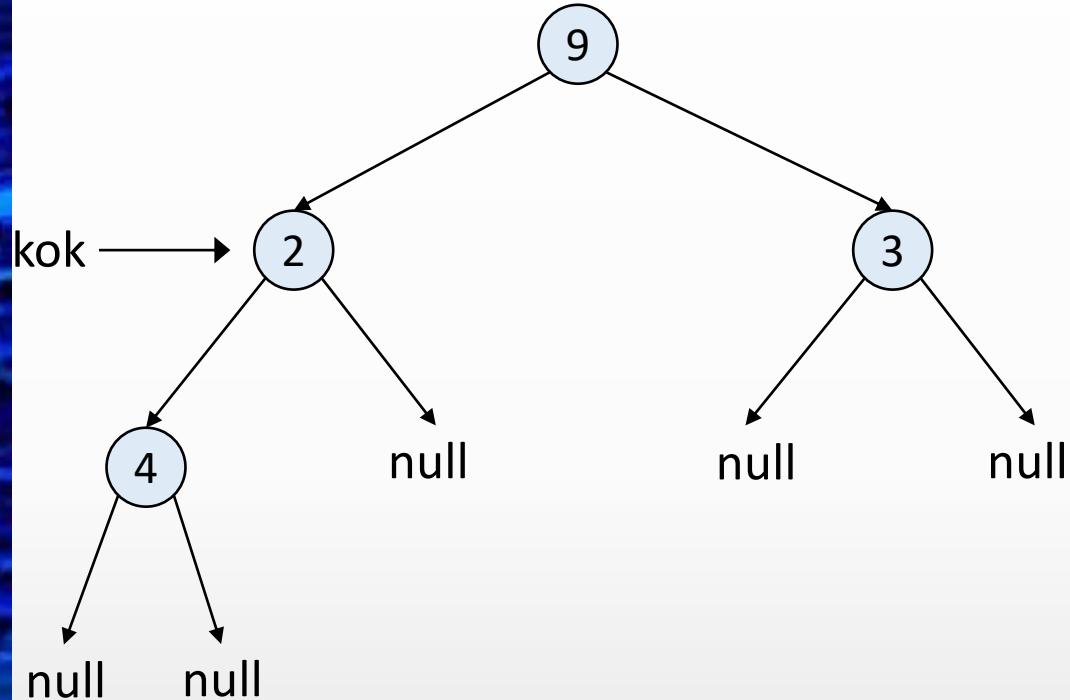
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9



```
1 public void kokBasta(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
5     System.out.print(kok.veri + " ");  
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## Çağırma Yığıtı (Call Stack)



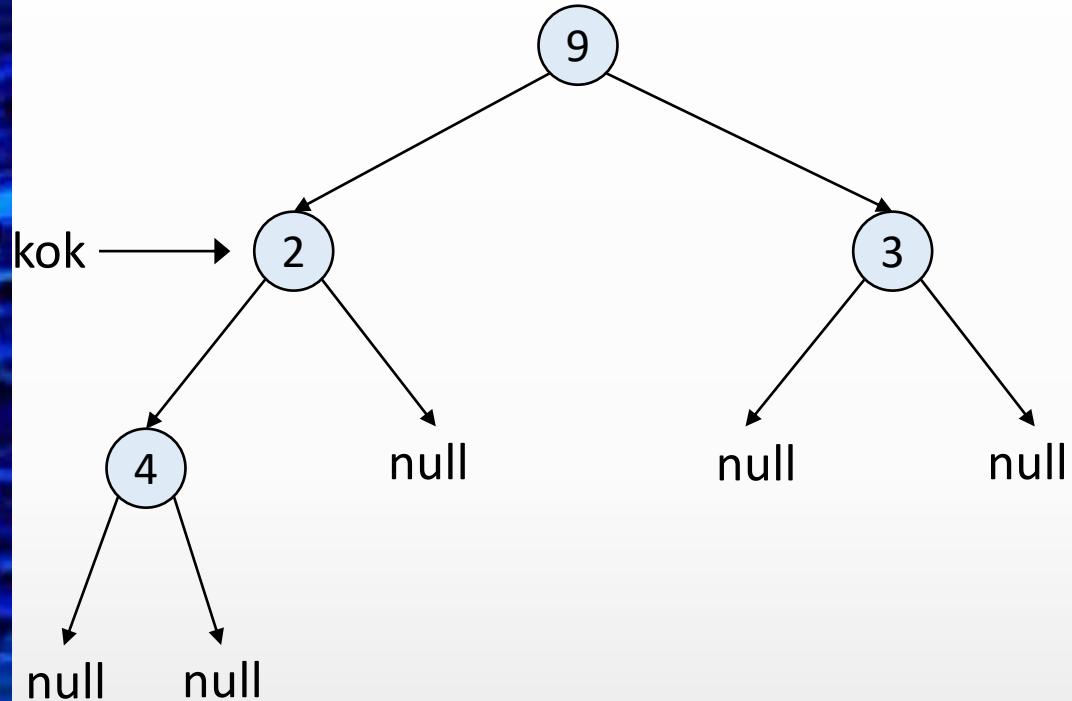
Çıktı: 9

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

```
→ 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)



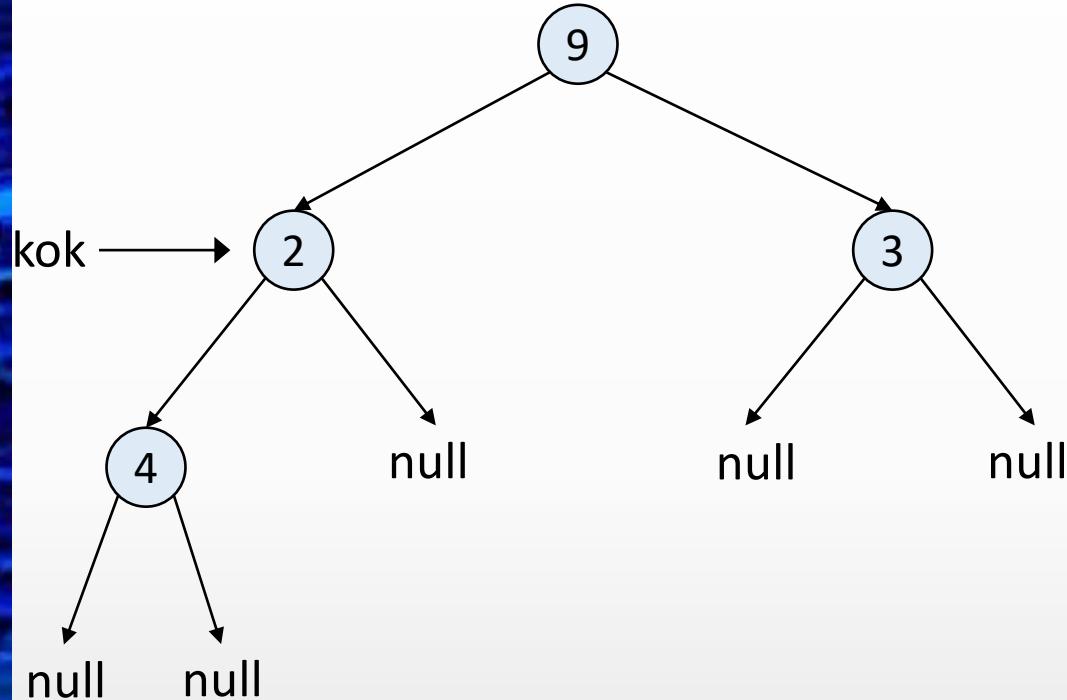
Çıktı: 9

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



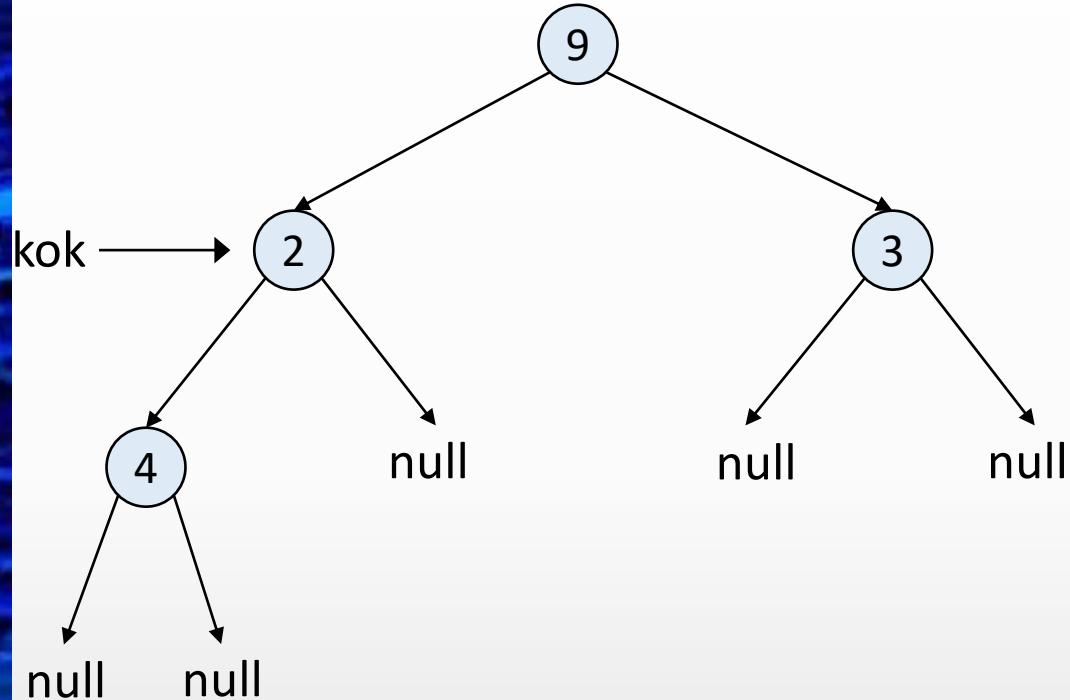
Cıktı: 9 2

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



Cıktı: 9 2



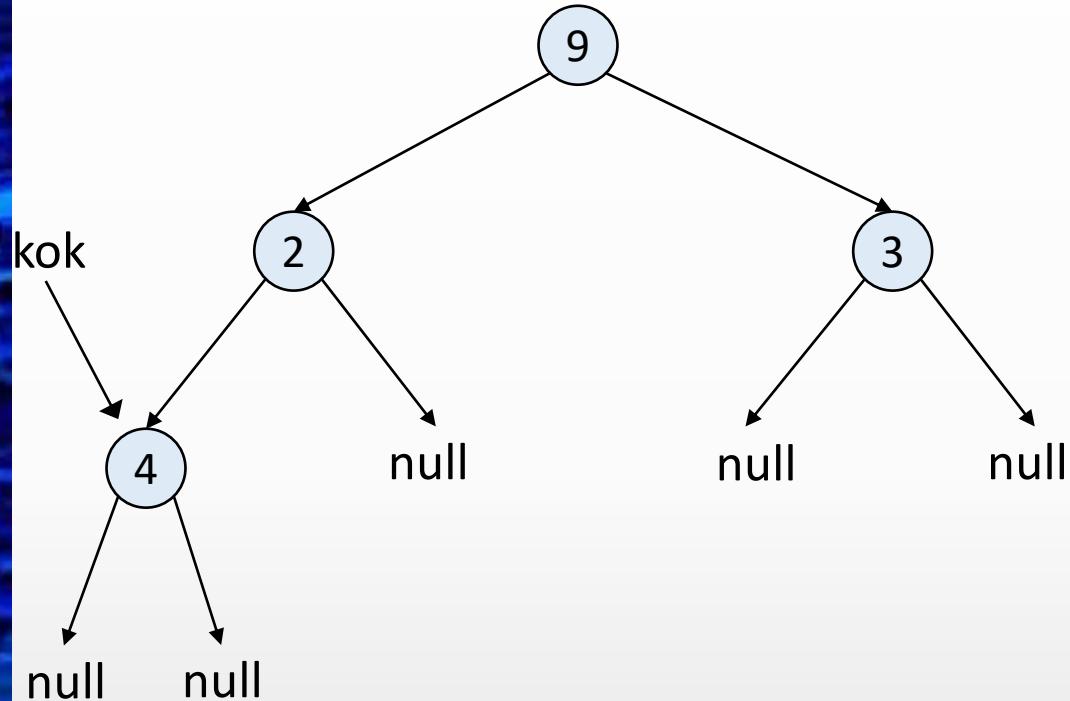
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
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```
1 public void kokBasta(AgacDugumu kok) {  
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## Çağırma Yığıtı (Call Stack)



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

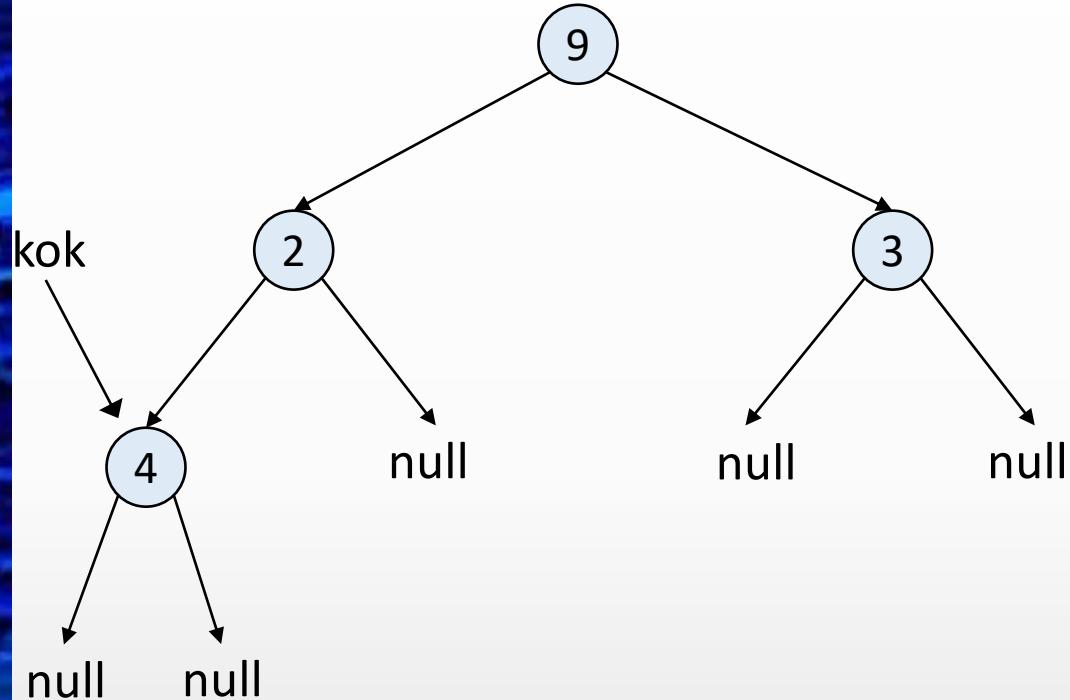


Cıktı: 9 2

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



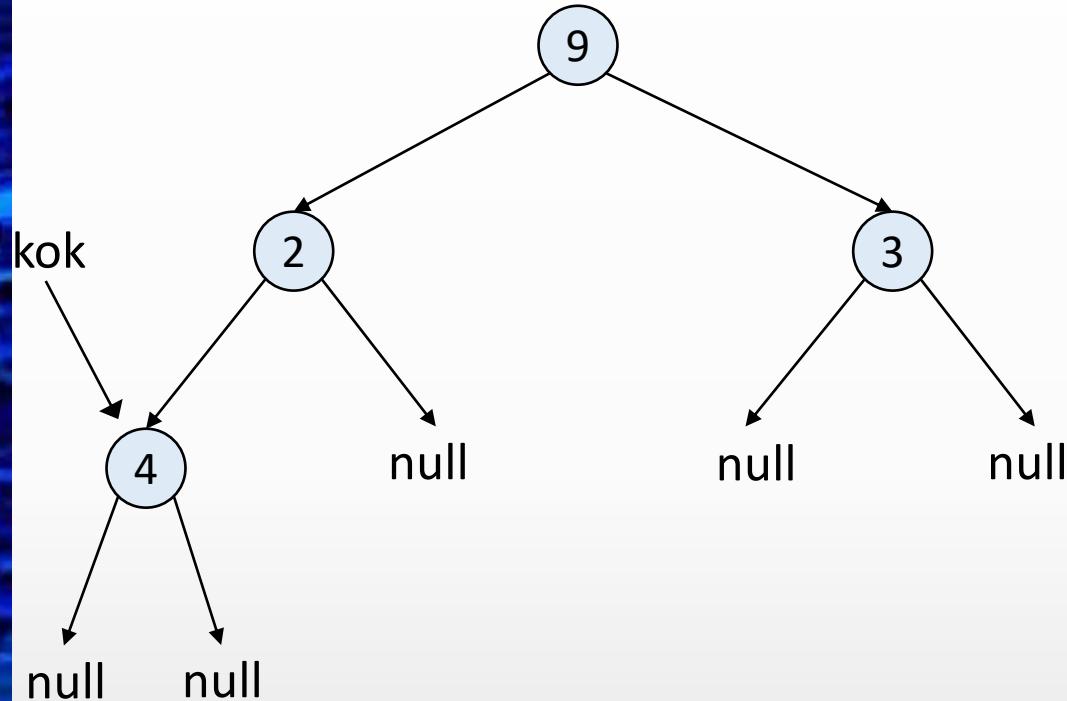
Cıktı: 9 2

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



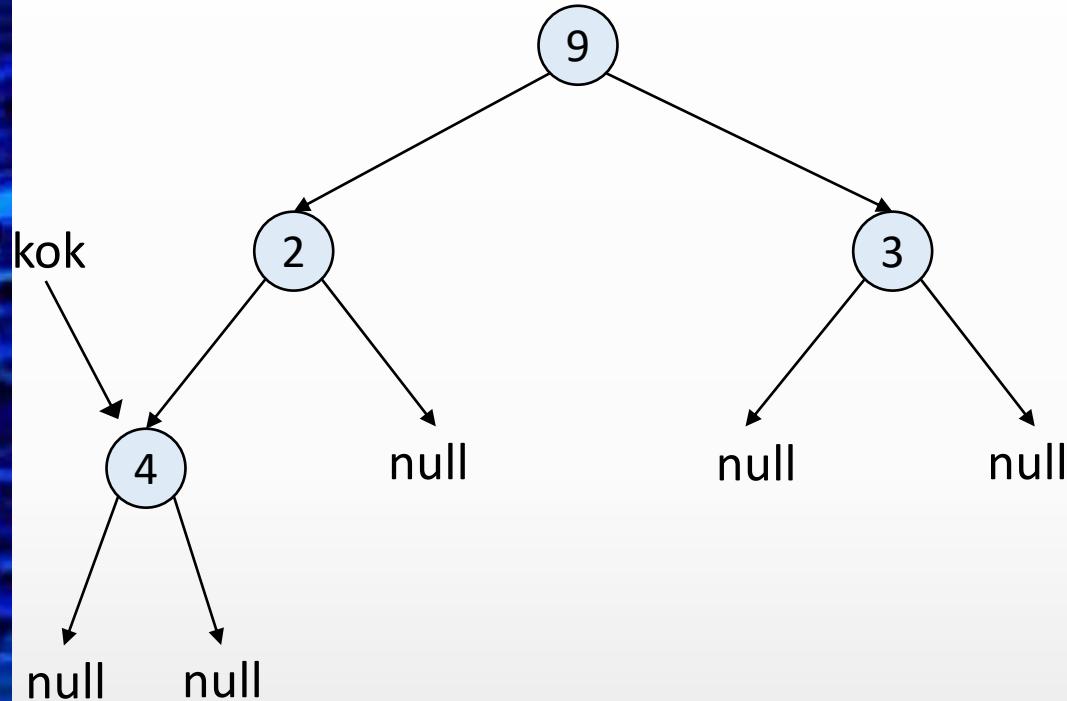
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()		4



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



## Çağırma Yığıtı (Call Stack)



Cıktı: 9 2 4



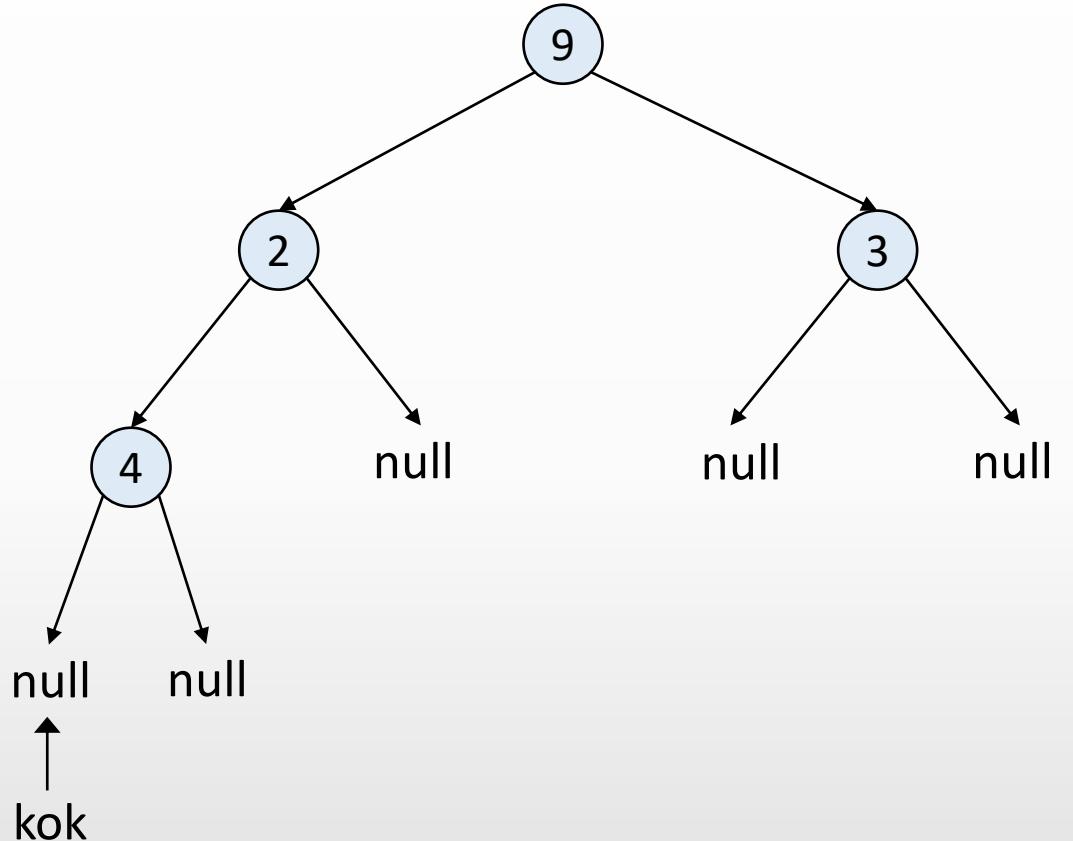
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4



```
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)



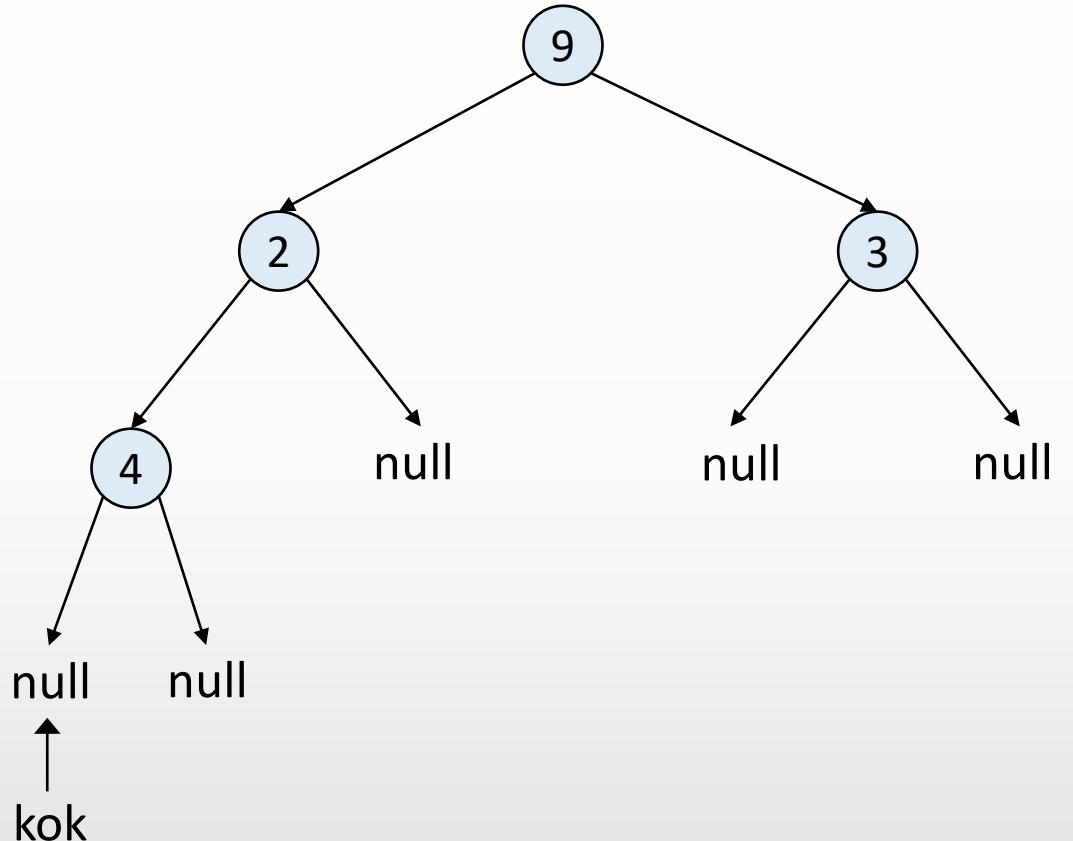
Cıktı: 9 2 4

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



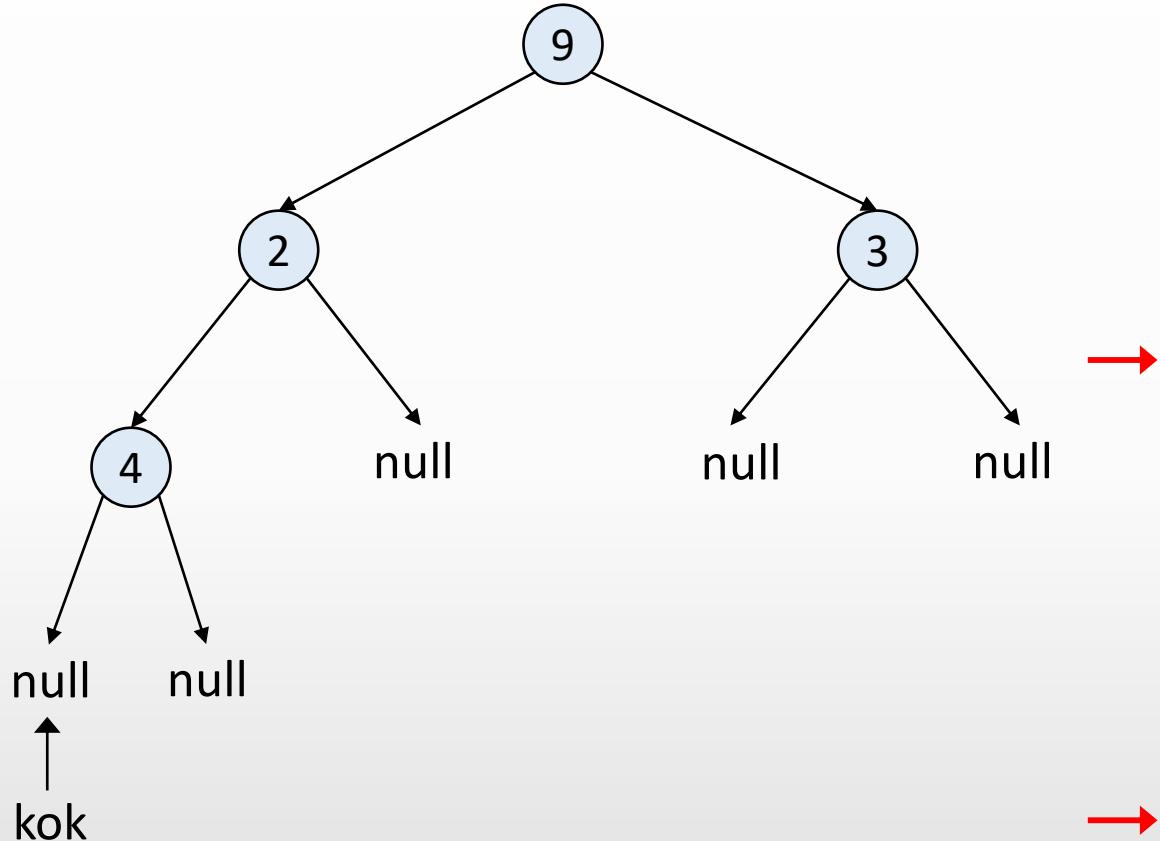
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



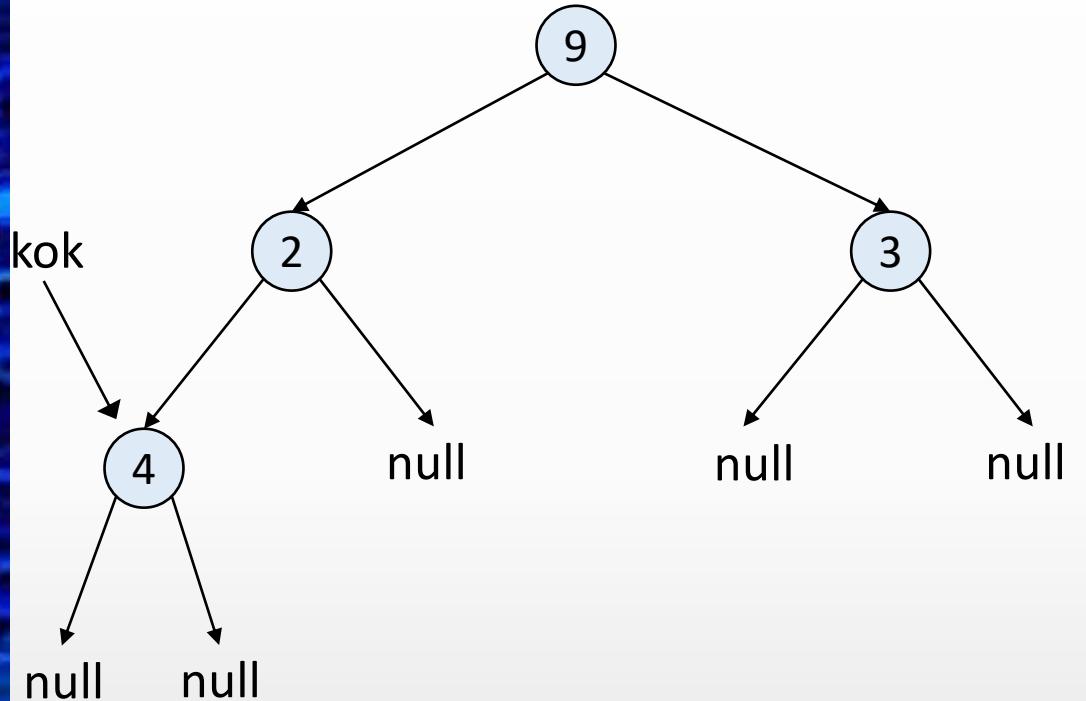
Cıktı: 9 2 4

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

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



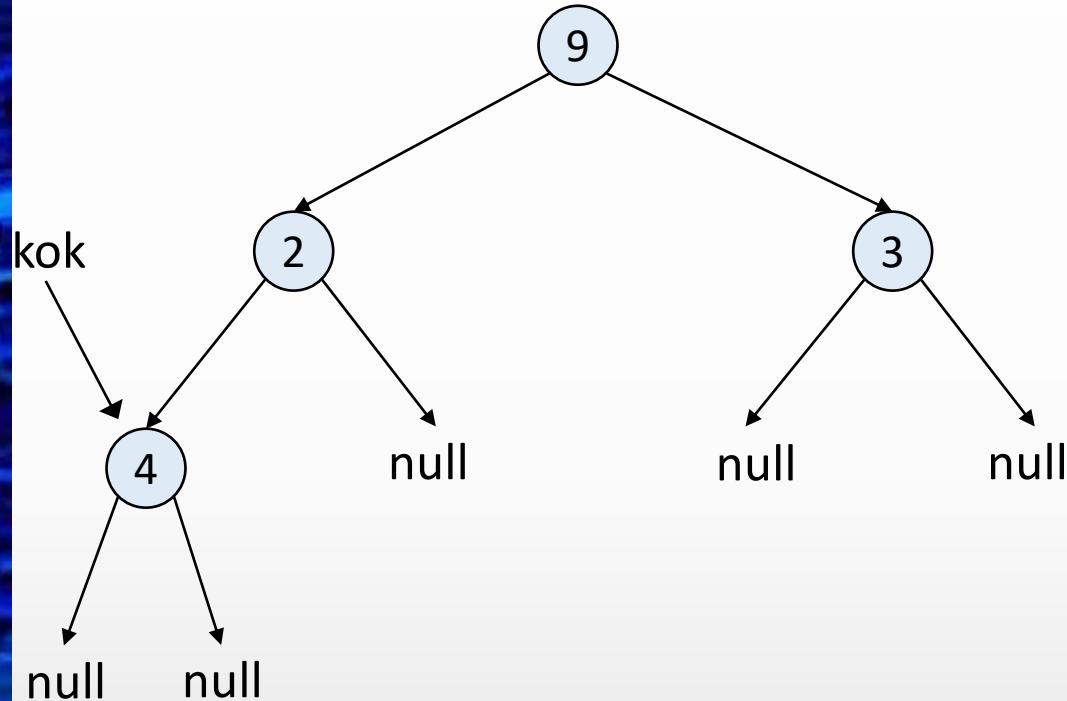
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)

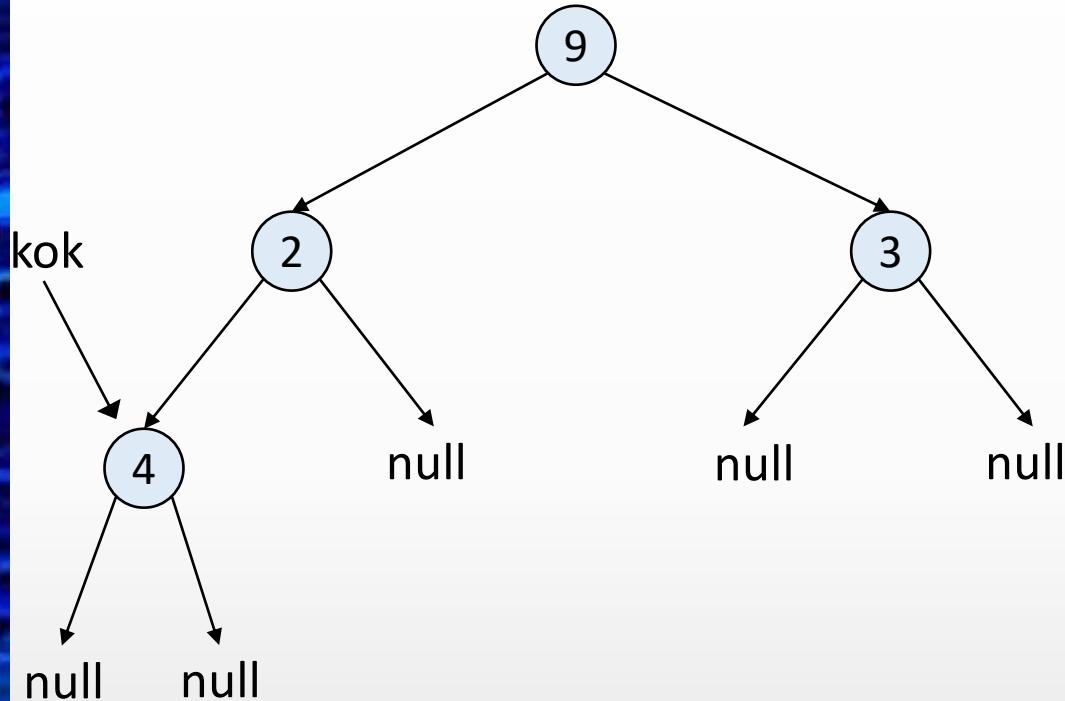


Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2
kokBasta()	6	4

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



## Çağırma Yığıtı (Call Stack)



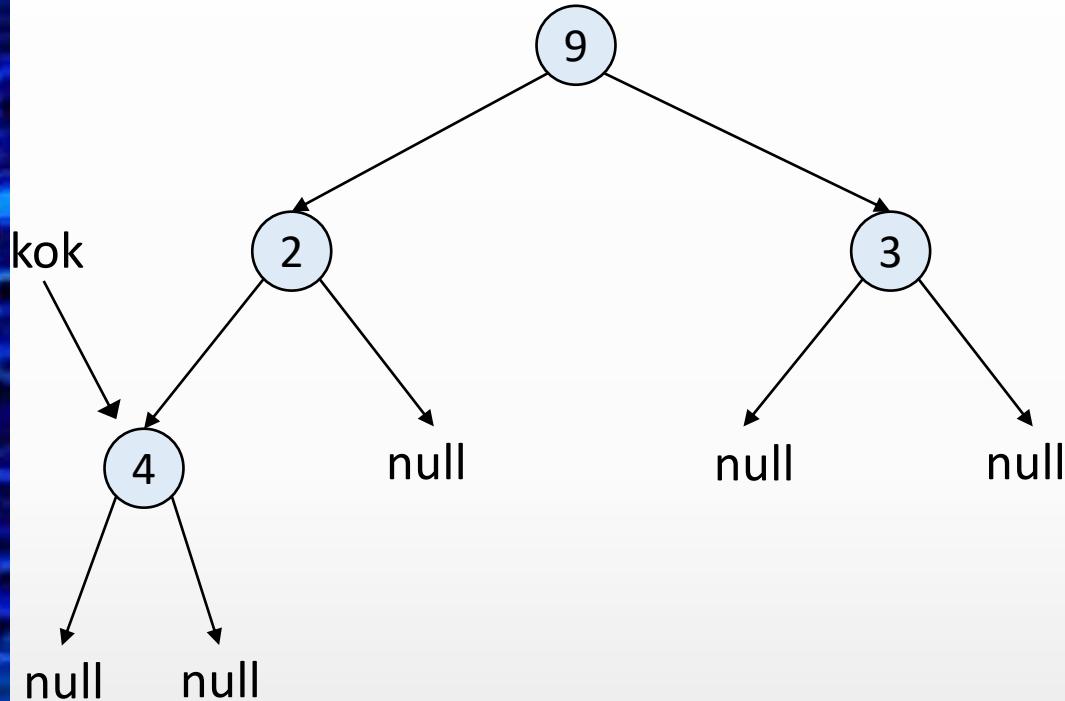
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



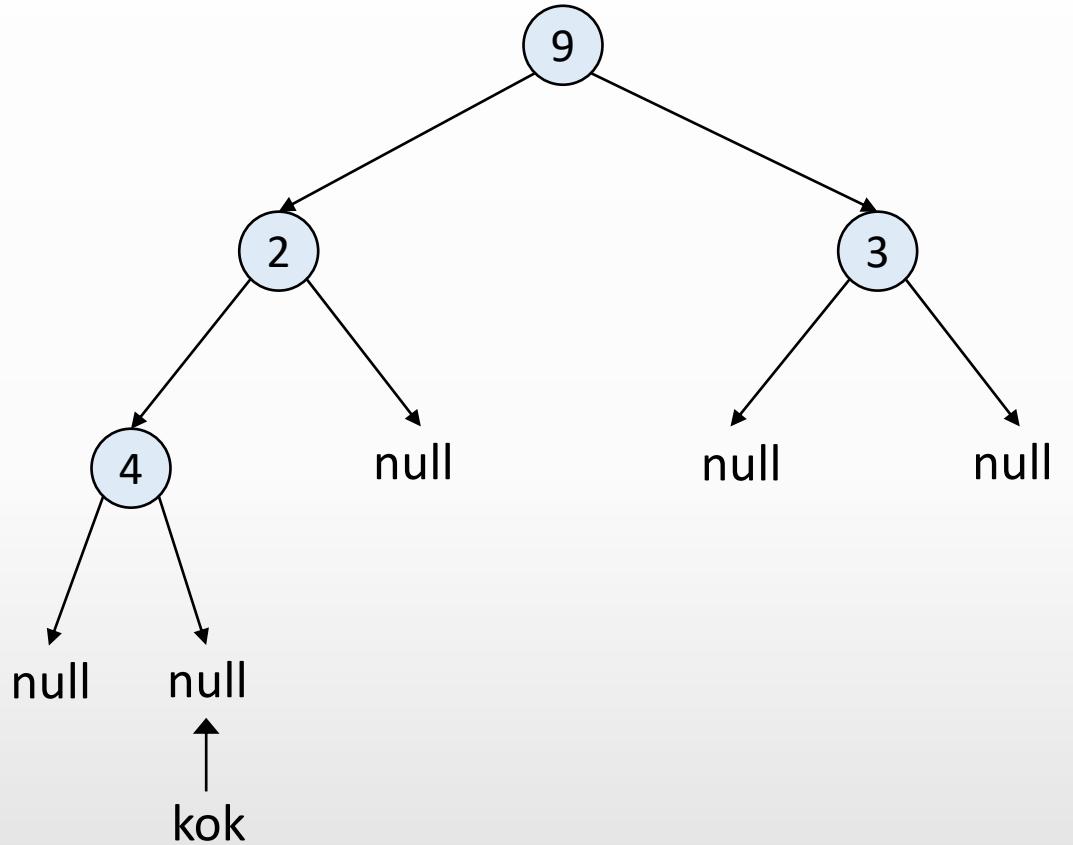
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



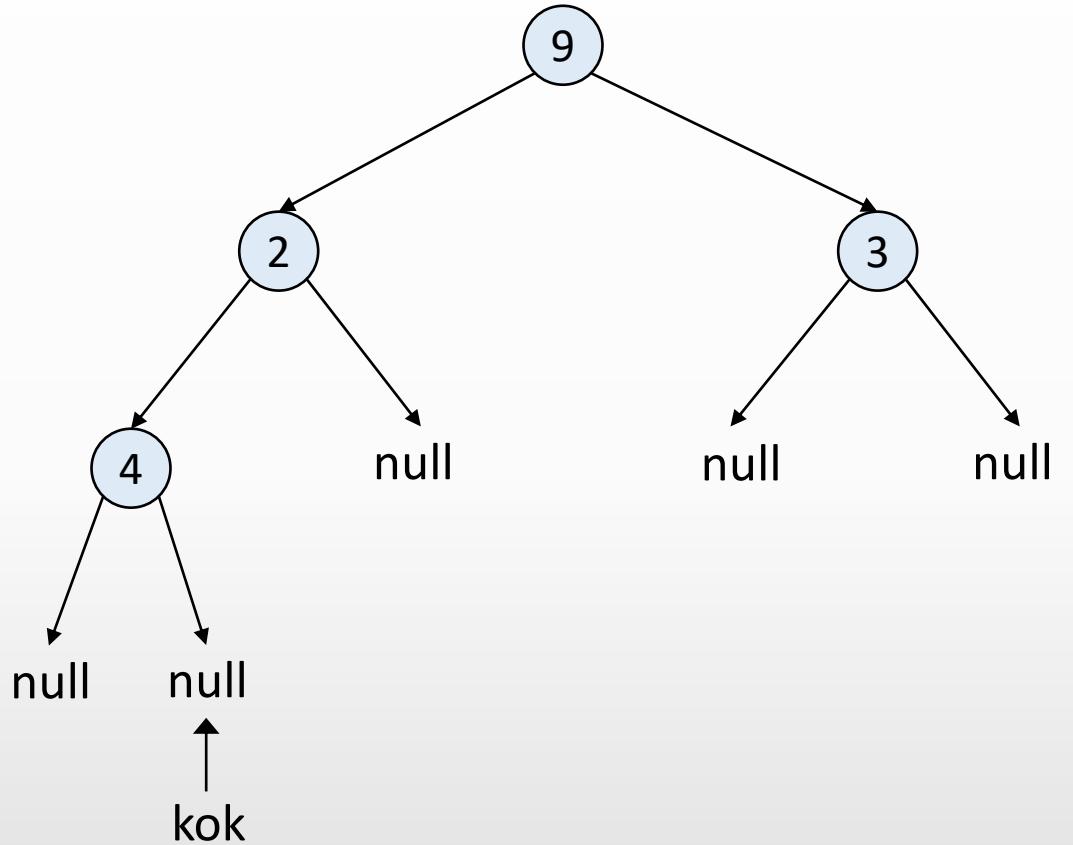
Çıktı: 9 2 4

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

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8 }
```



## Çağırma Yığıtı (Call Stack)



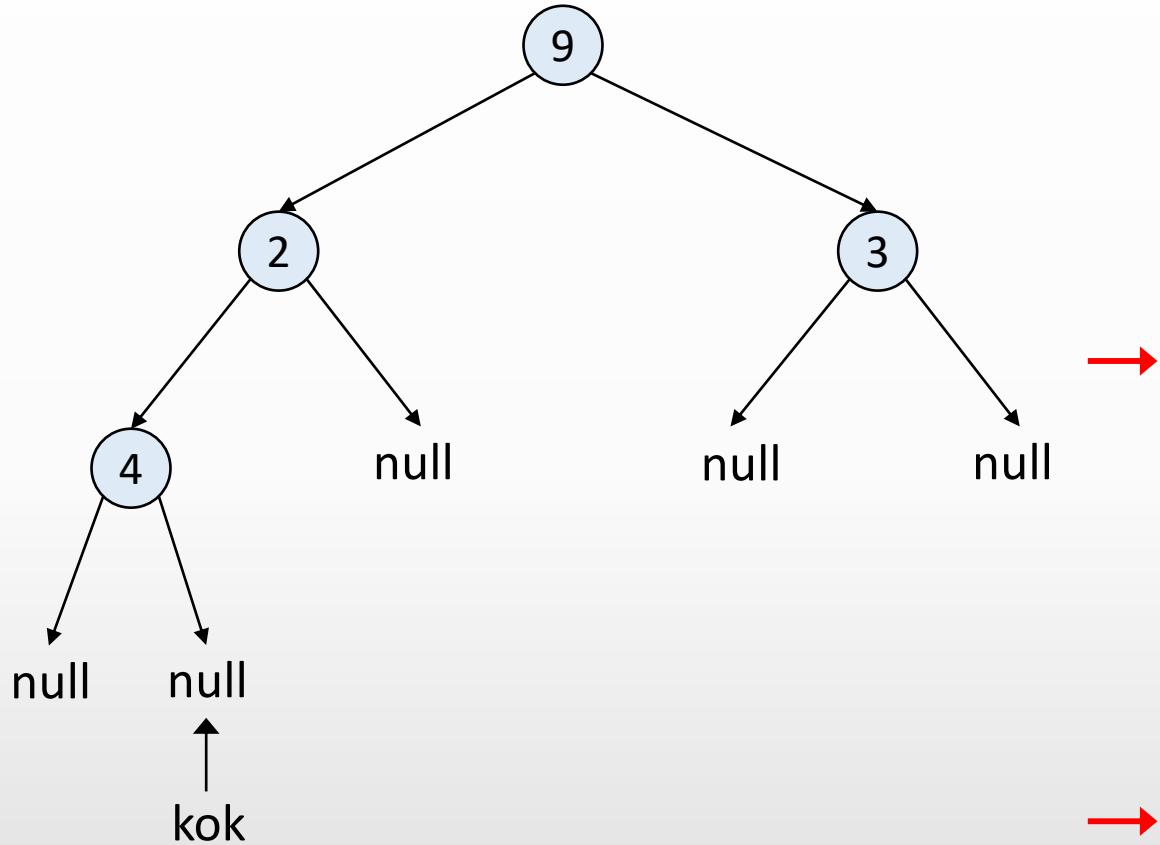
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



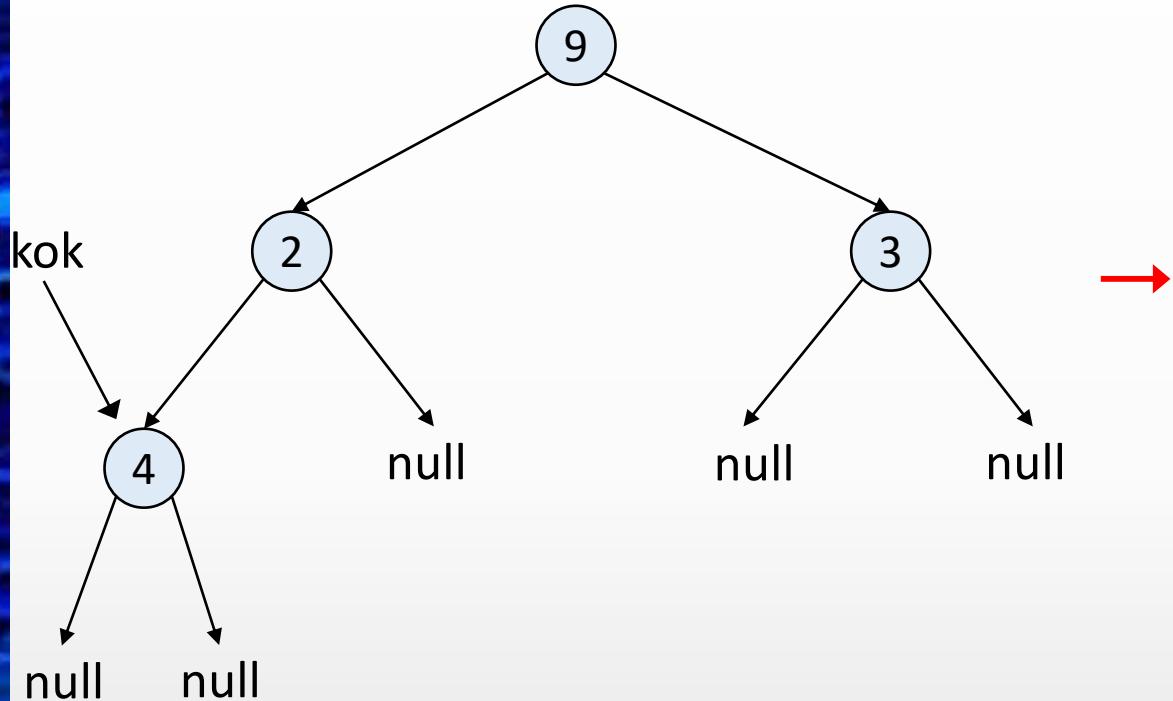
Cıktı: 9 2 4

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

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8 }
```



## Çağırma Yığıtı (Call Stack)



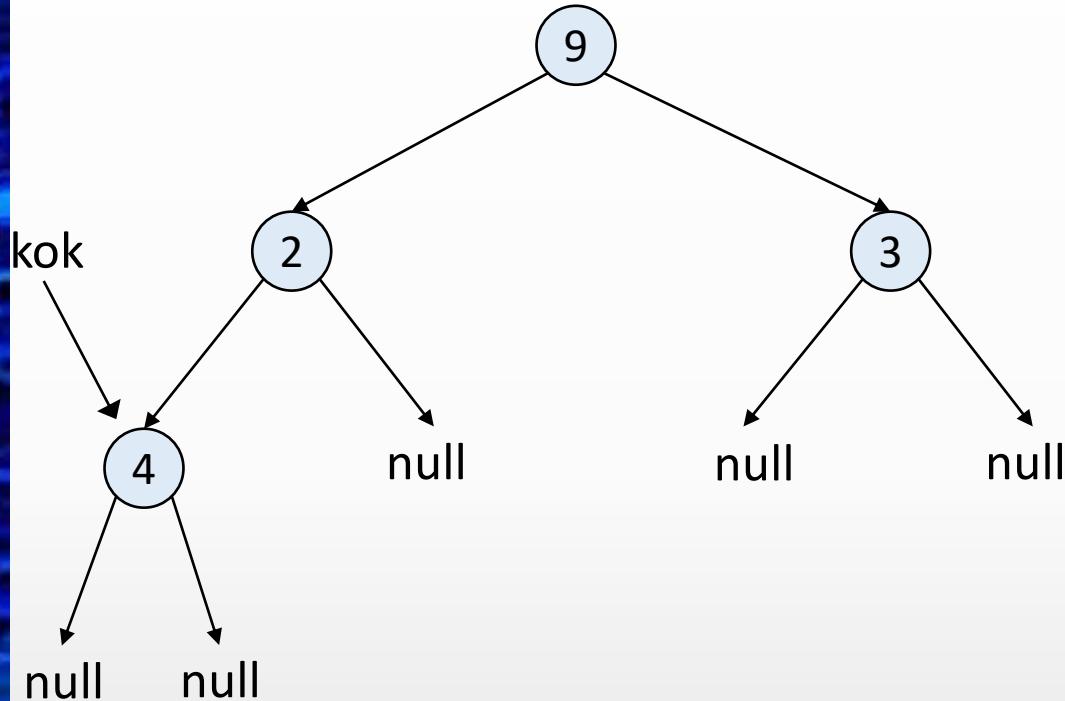
Cıktı: 9 2 4

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



## Çağırma Yığıtı (Call Stack)



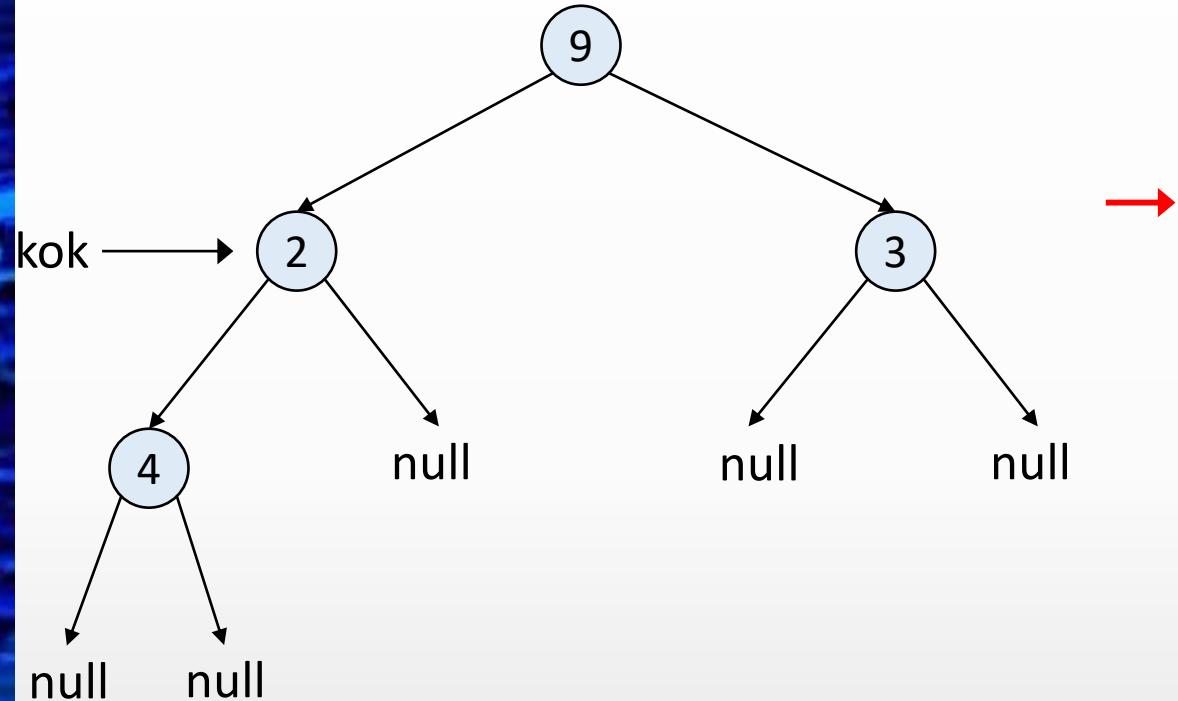
Cıktı: 9 2 4

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

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## Çağırma Yığıtı (Call Stack)



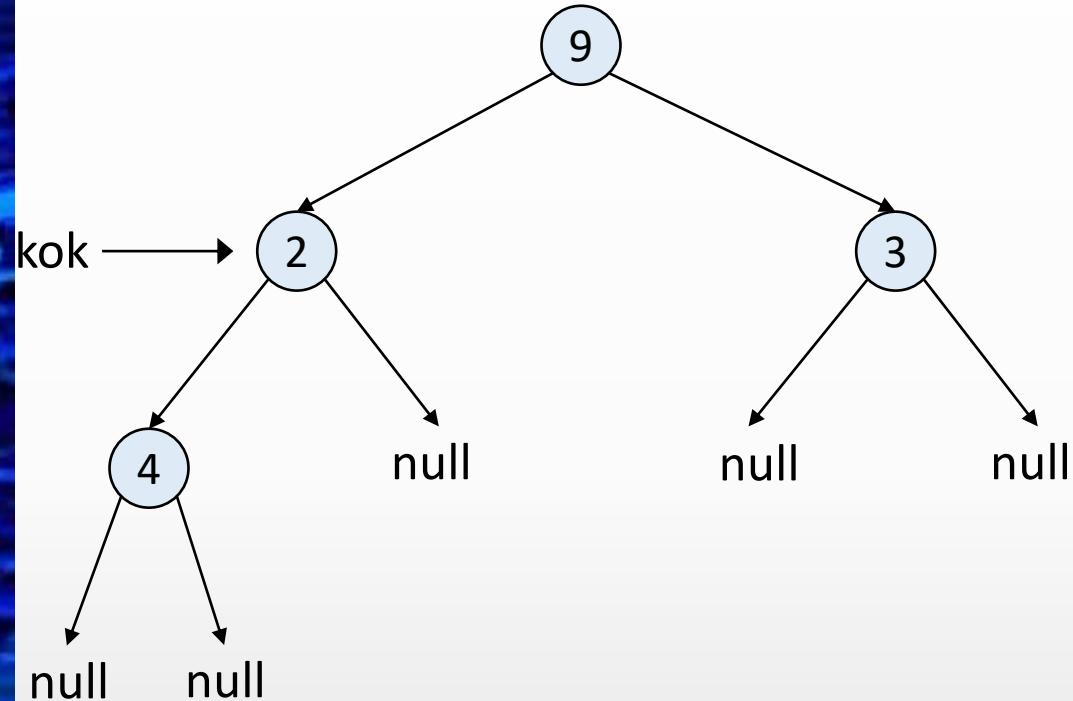
Cıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



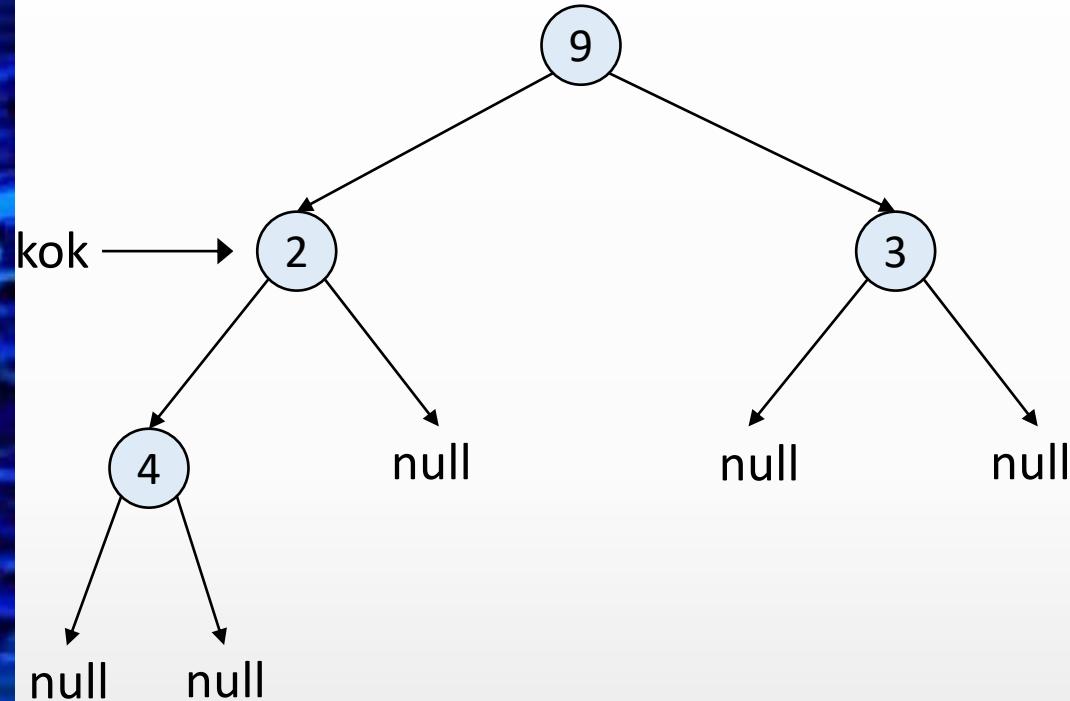
Cıktı: 9 2 4

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

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



Cıktı: 9 2 4



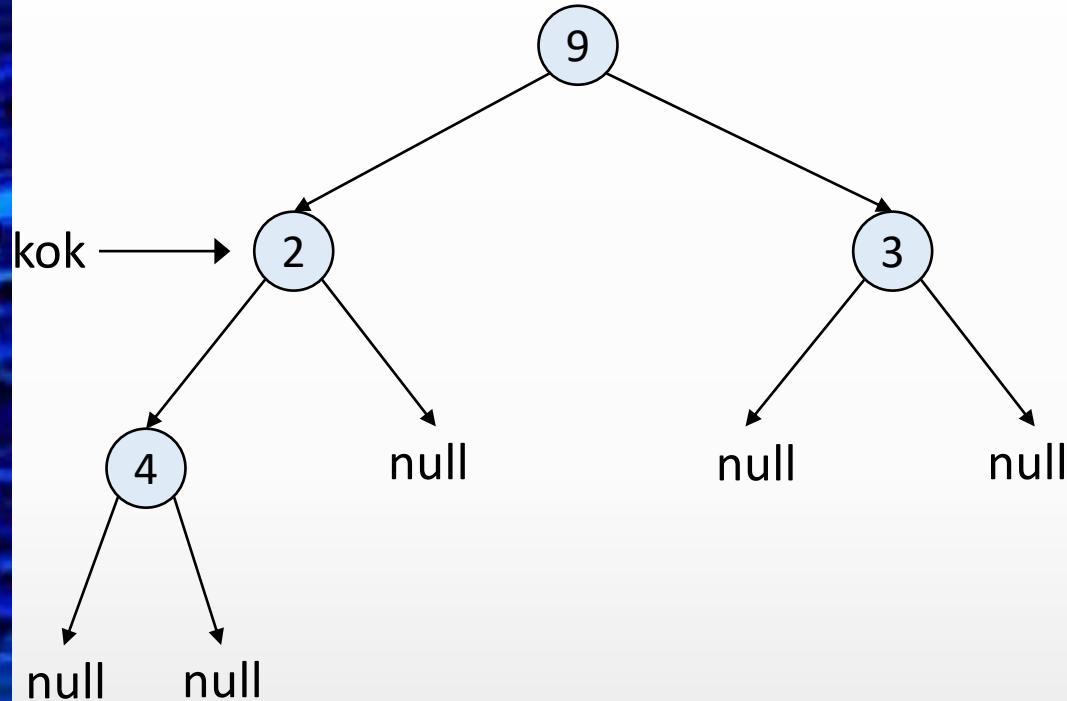
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	6	2



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



Cıktı: 9 2 4



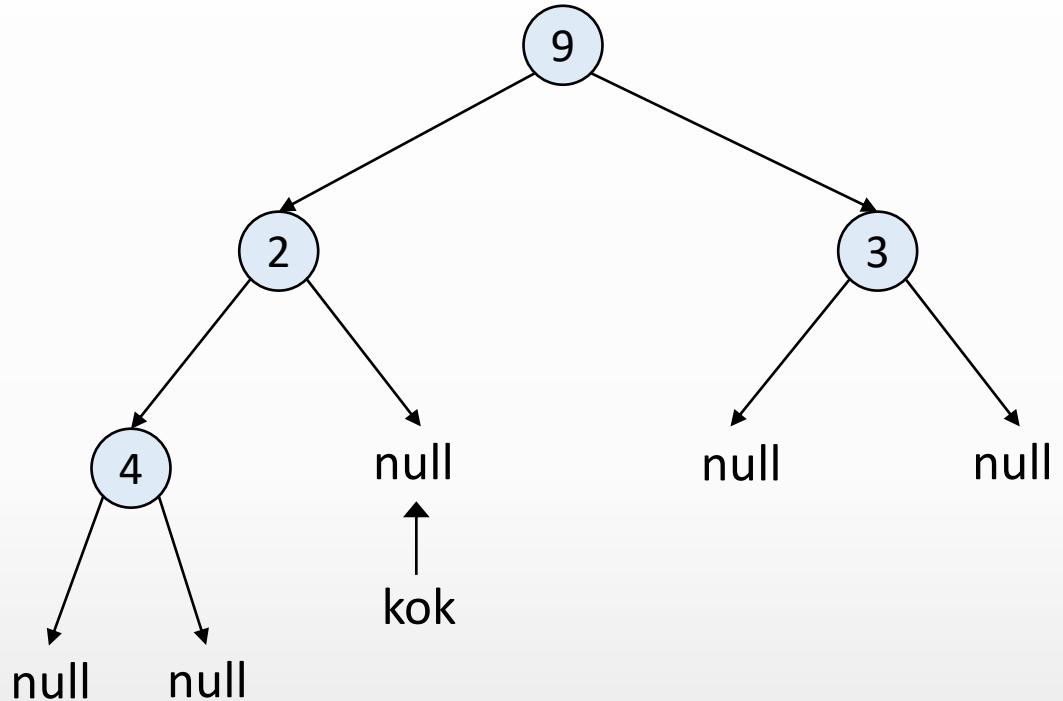
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2



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



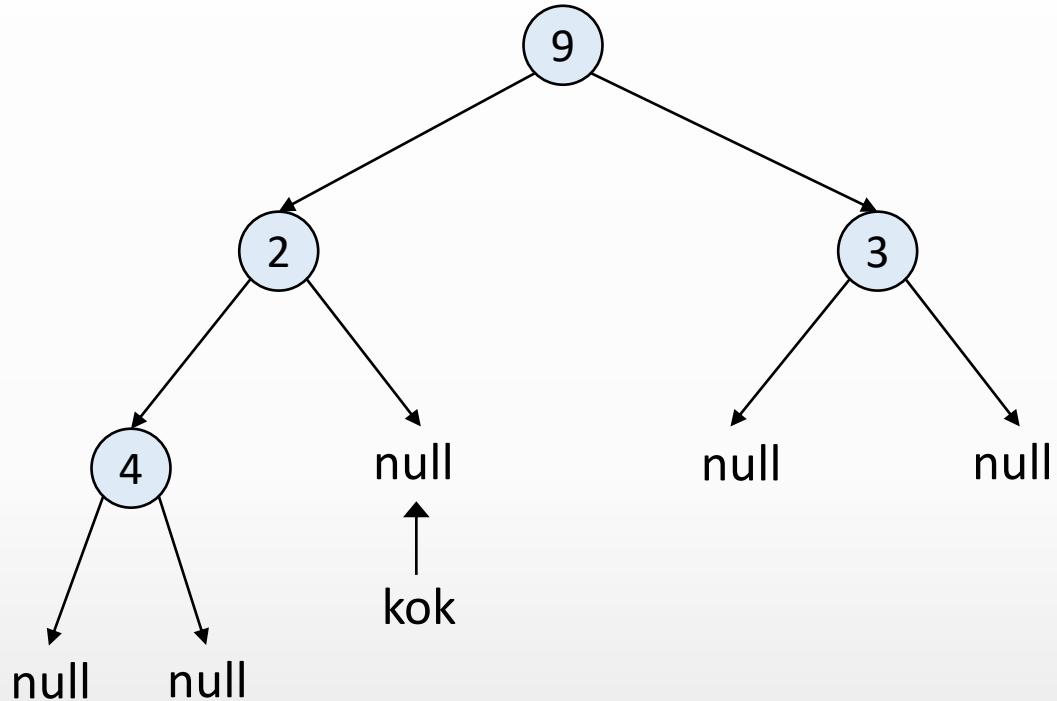
Cıktı: 9 2 4

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

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



Cıktı: 9 2 4



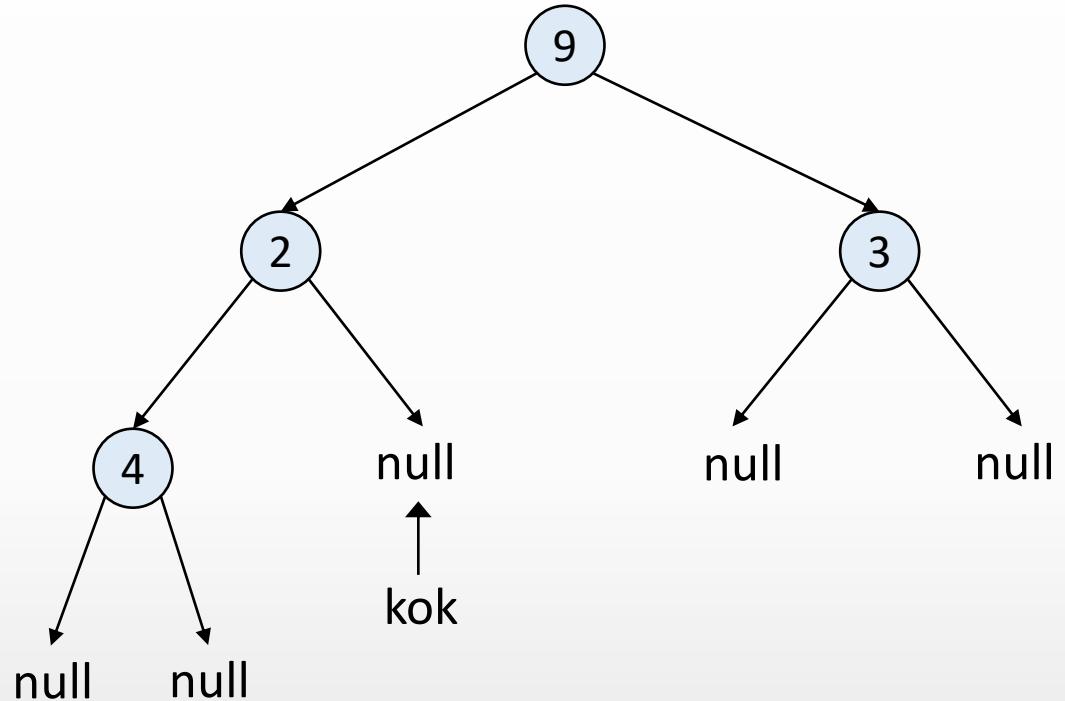
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9
kokBasta()	7	2
kokBasta()		null



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



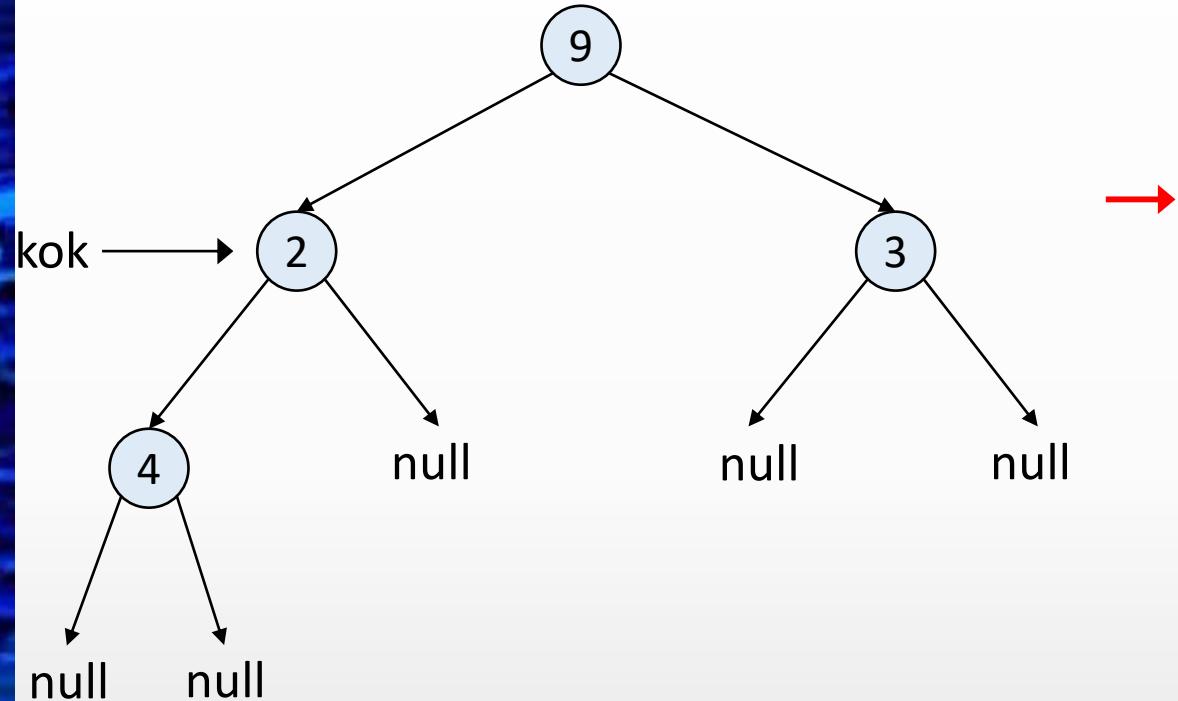
Cıktı: 9 2 4

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



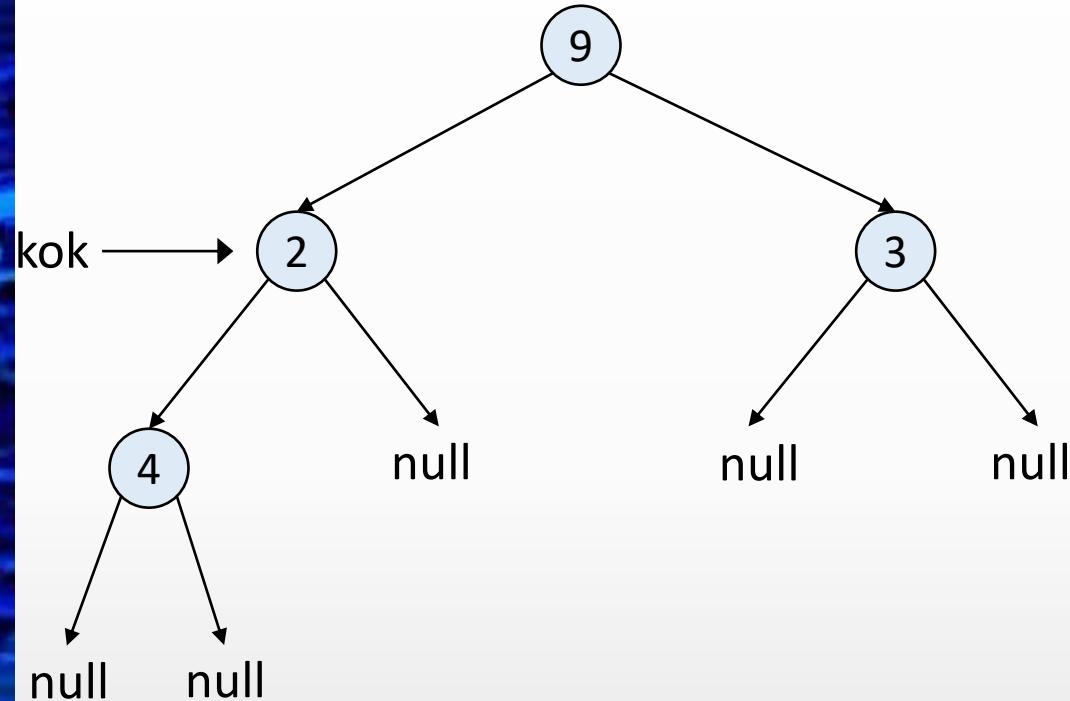
Cıktı: 9 2 4

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



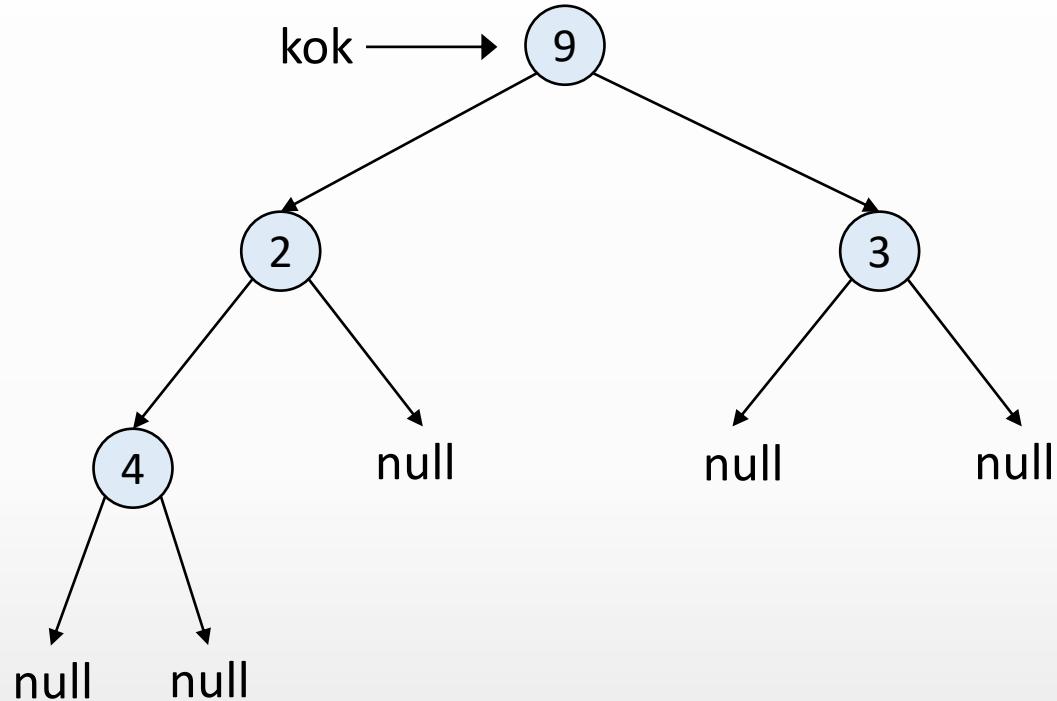
Cıktı: 9 2 4

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

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



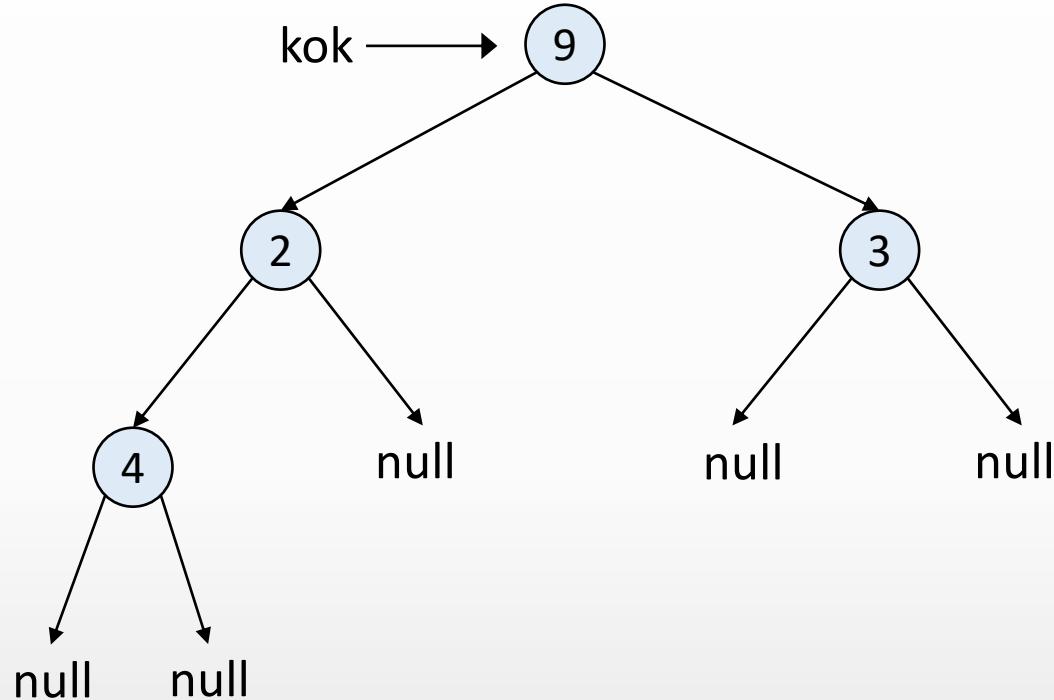
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

Çıktı: 9 2 4

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



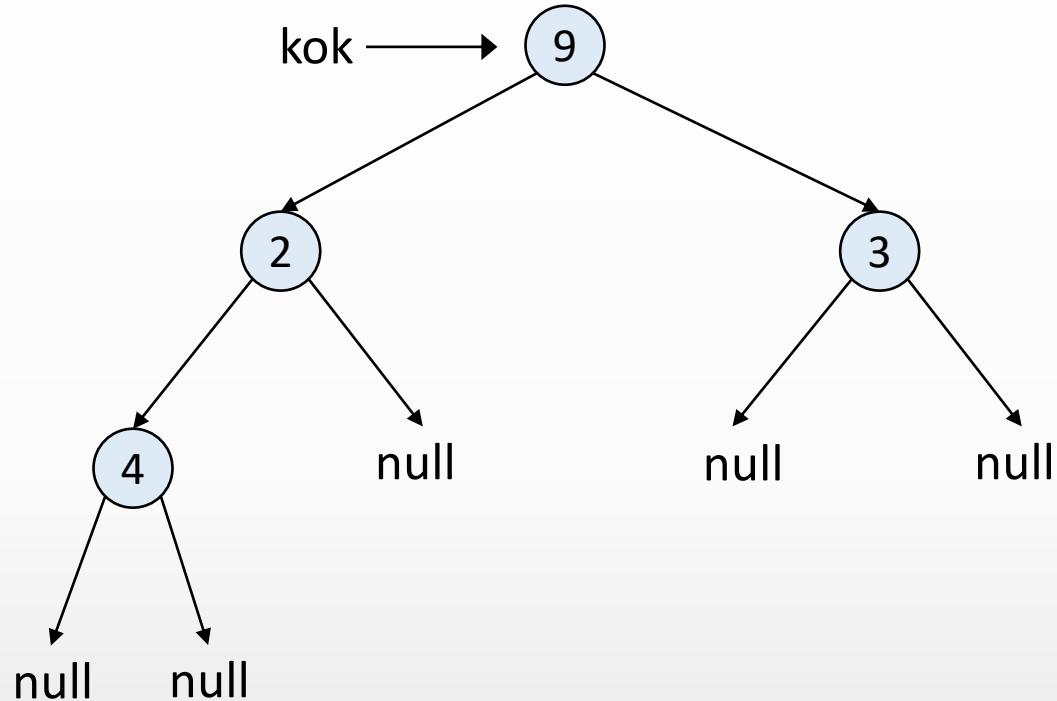
Cıktı: 9 2 4

Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

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



Metot Çağrımı	Satır Numarası	Kök
kokBasta()	6	9

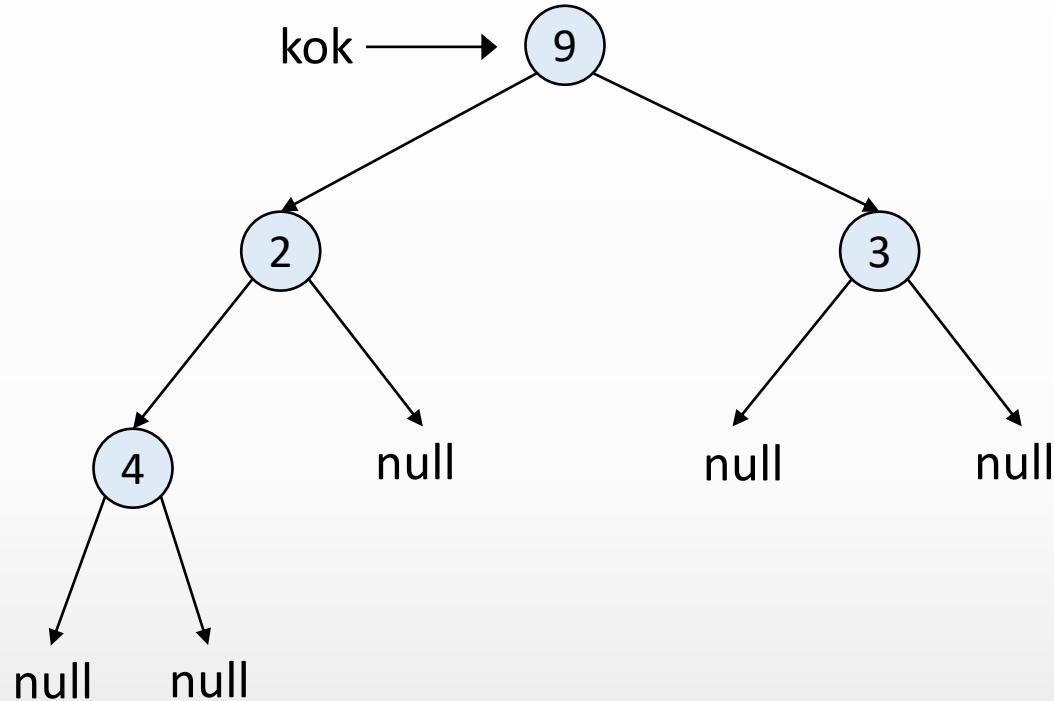
Çıktı: 9 2 4



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



## Çağırma Yığıtı (Call Stack)



Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9

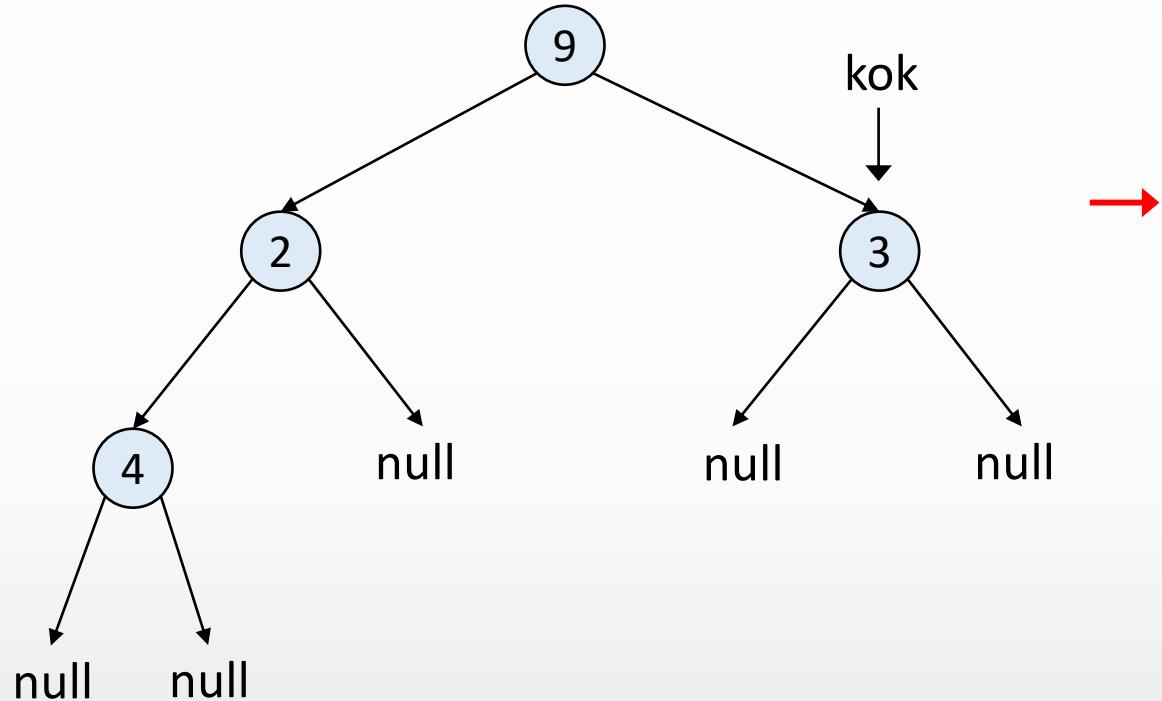
Çıktı: 9 2 4



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



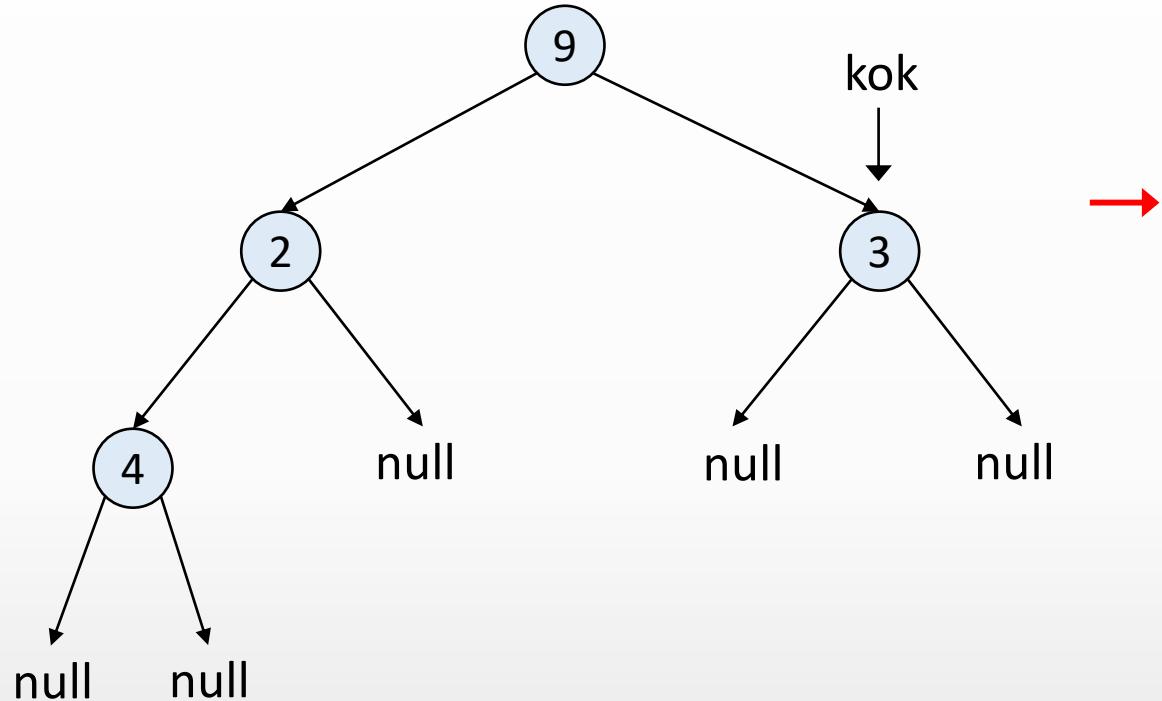
Çıktı: 9 2 4

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

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



## Çağırma Yığıtı (Call Stack)



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

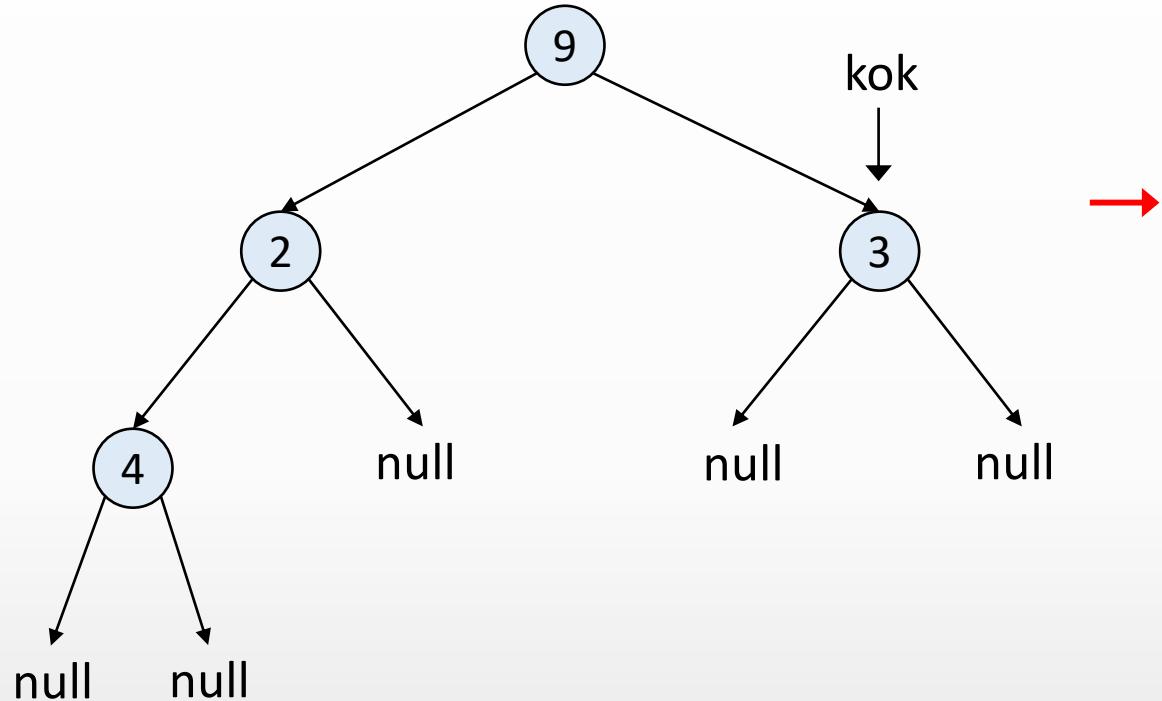
→

```
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2     if(kok == null) {  
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5     System.out.print(kok.veri + " ");  
6     kokBasta(kok.sol);  
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8 }
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Cıktı: 9 2 4



## Çağırma Yığıtı (Call Stack)



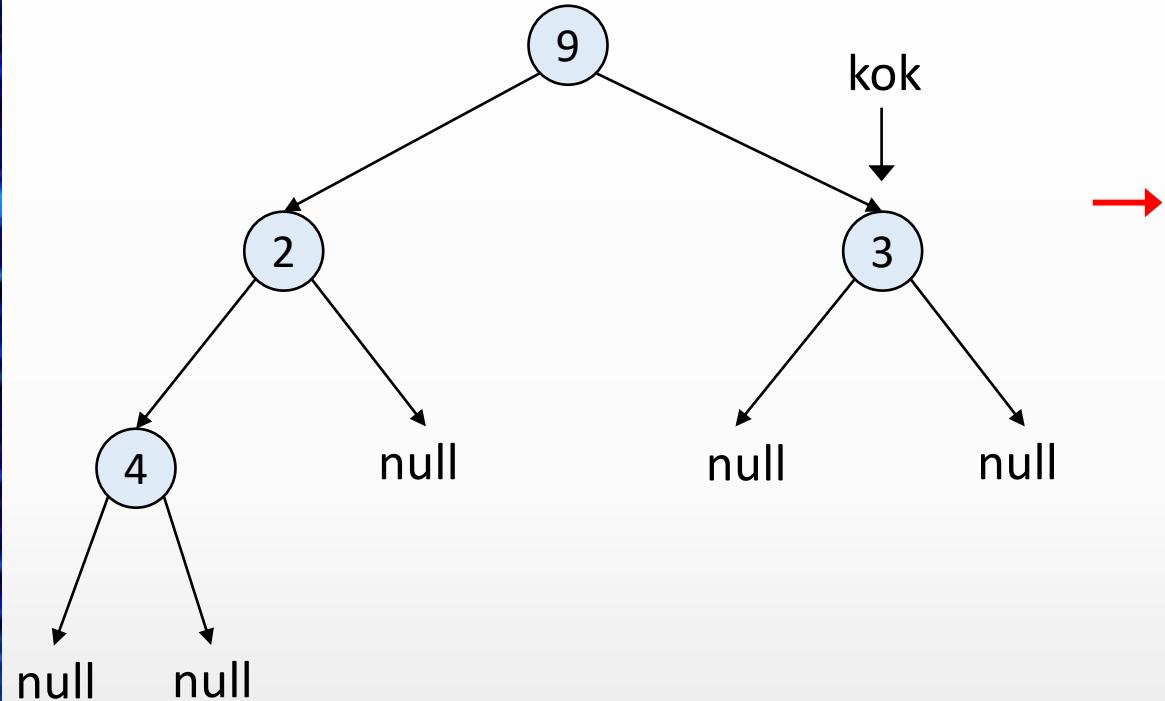
Cıktı: 9 2 4

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

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



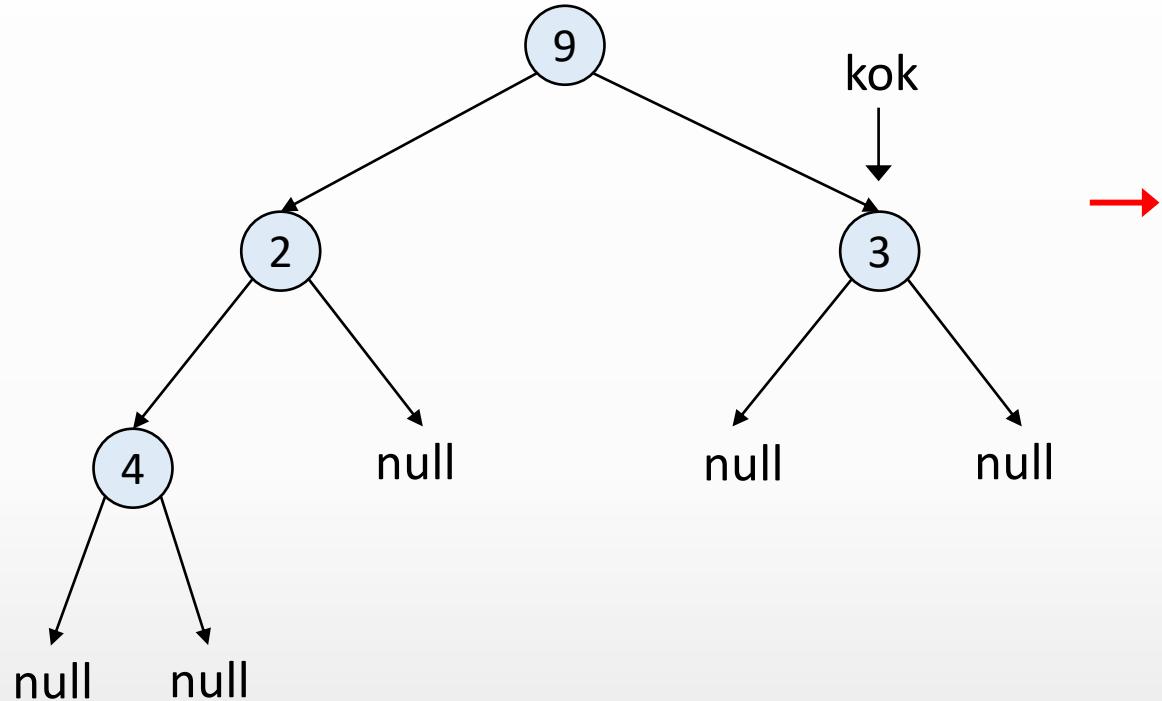
Cıktı: 9 2 4 3

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



## Çağırma Yığıtı (Call Stack)



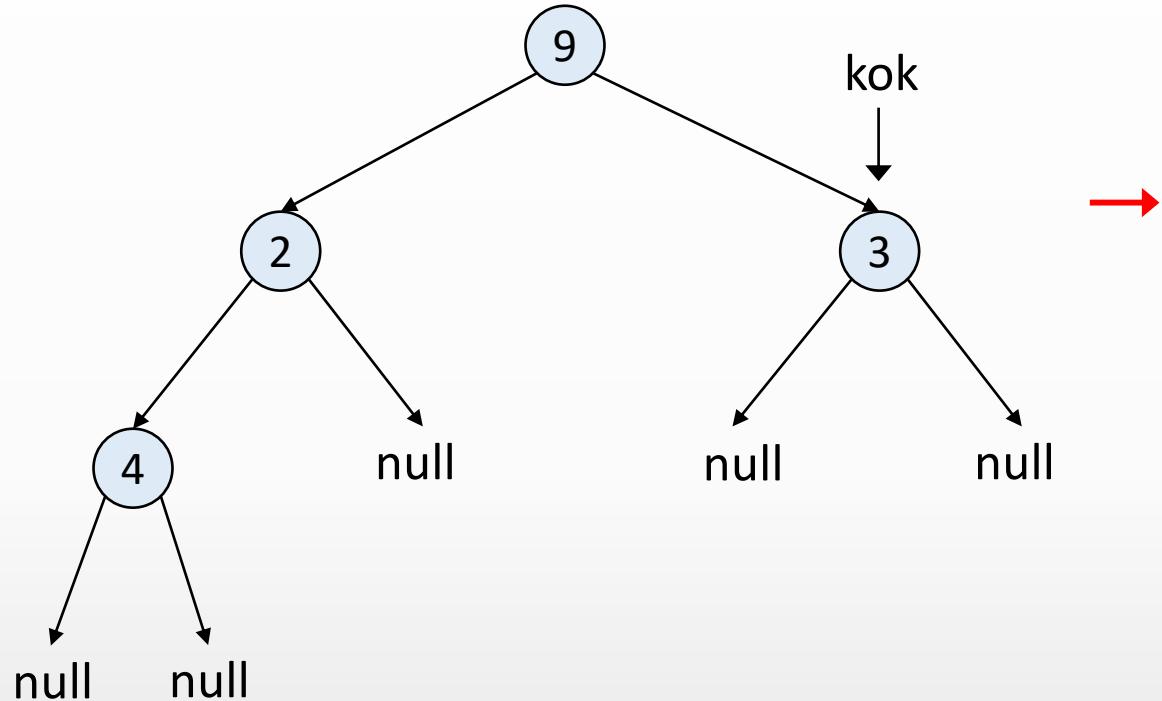
Cıktı: 9 2 4 3

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

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



## Çağırma Yığıtı (Call Stack)



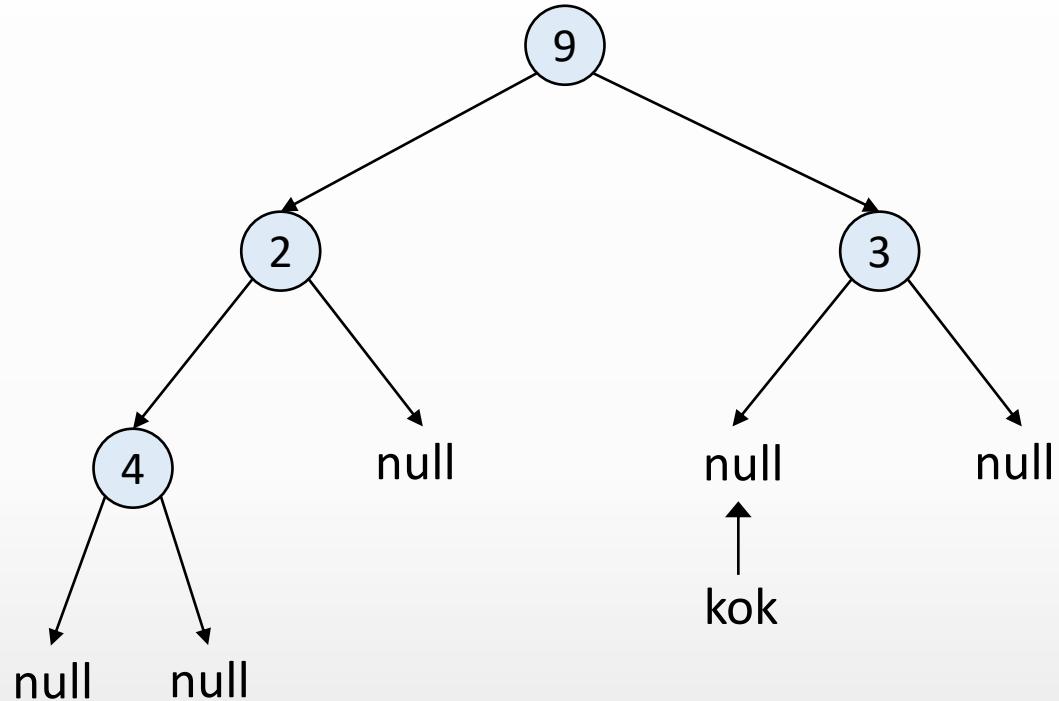
Cıktı: 9 2 4 3

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

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



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

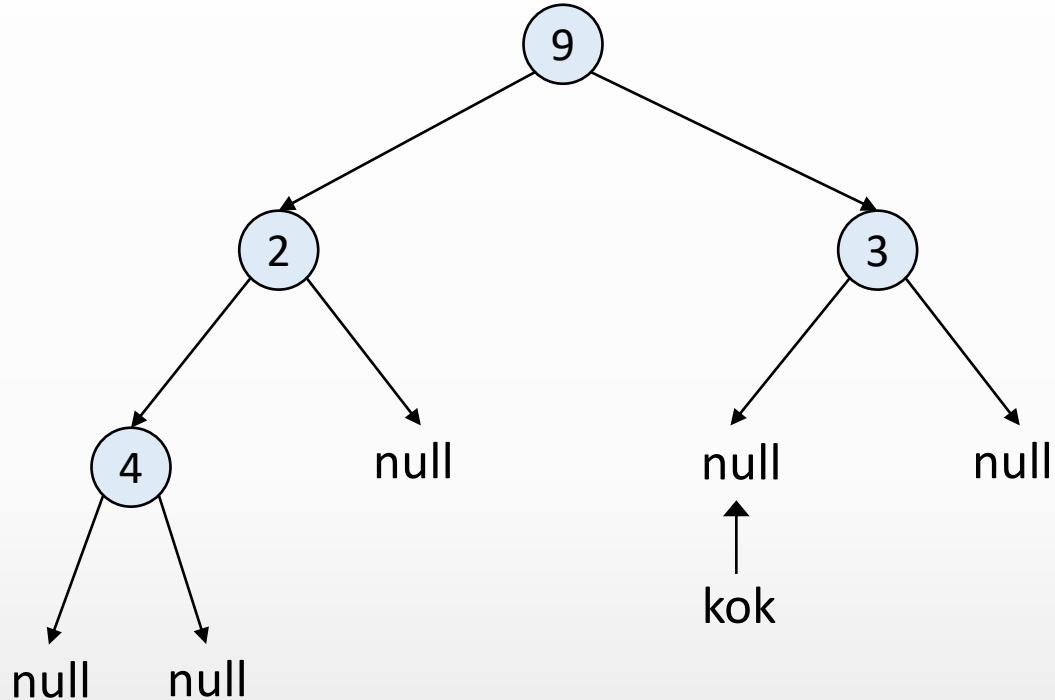


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5     System.out.print(kok.veri + " ");  
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```

Çıktı: 9 2 4 3



## Çağırma Yığıtı (Call Stack)



Çıktı: 9 2 4 3



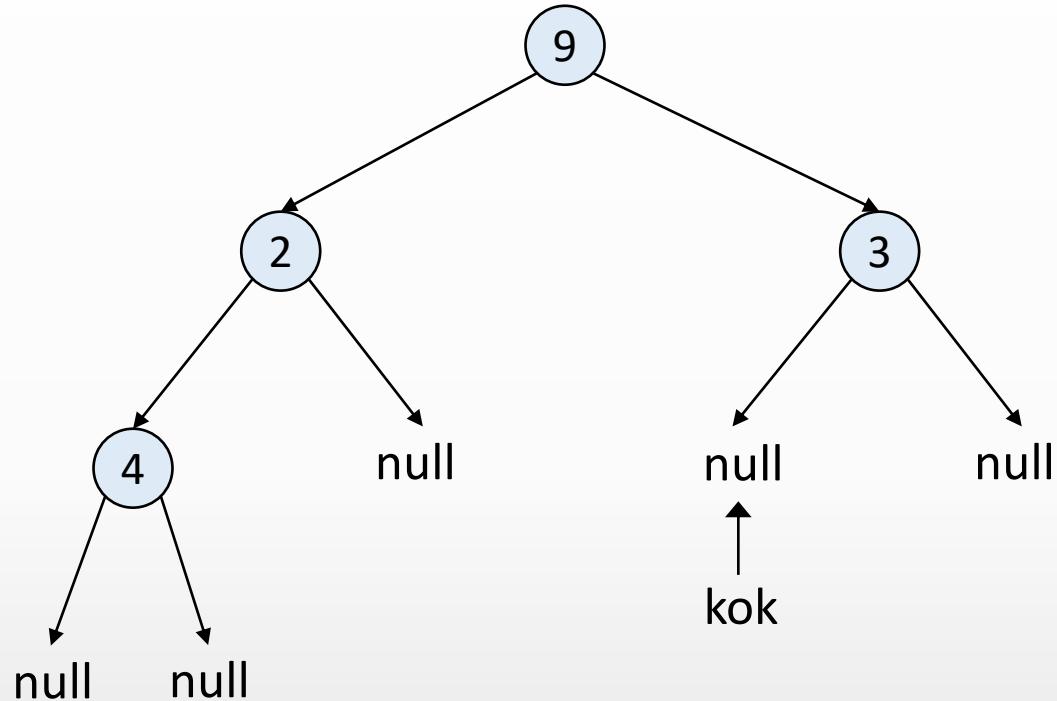
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null



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



Cıktı: 9 2 4 3



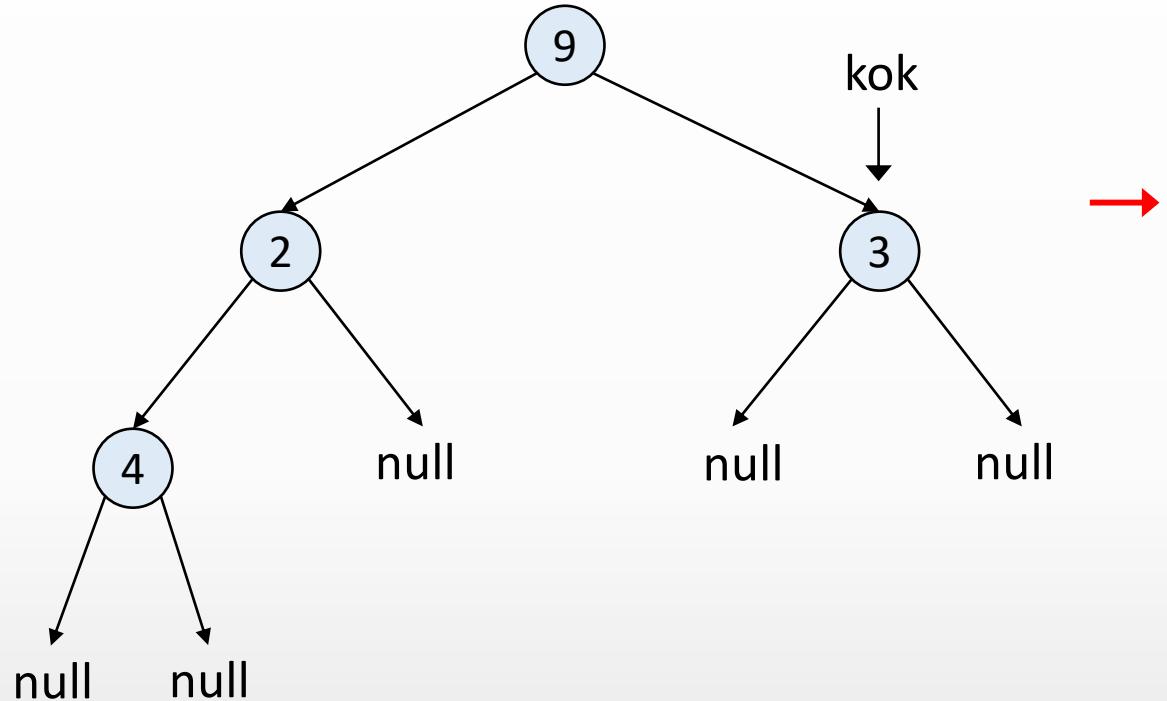
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9
kokBasta()	6	3
kokBasta()		null



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8 }
```



## Çağırma Yığıtı (Call Stack)



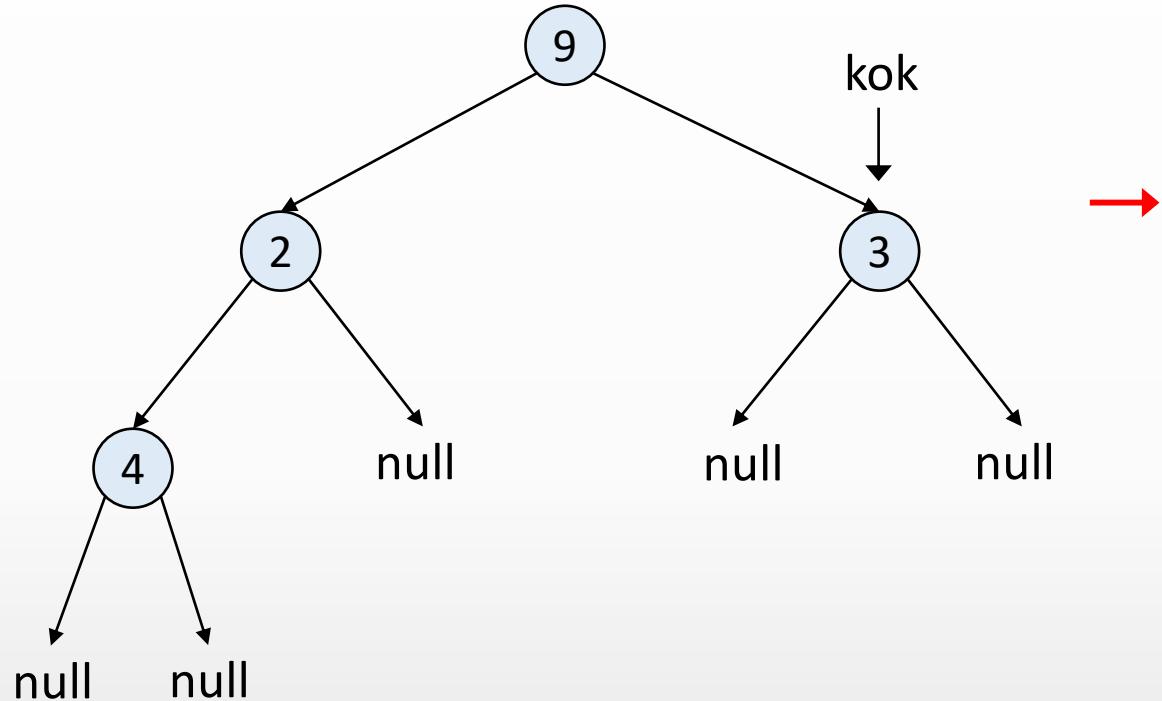
Çıktı: 9 2 4 3

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



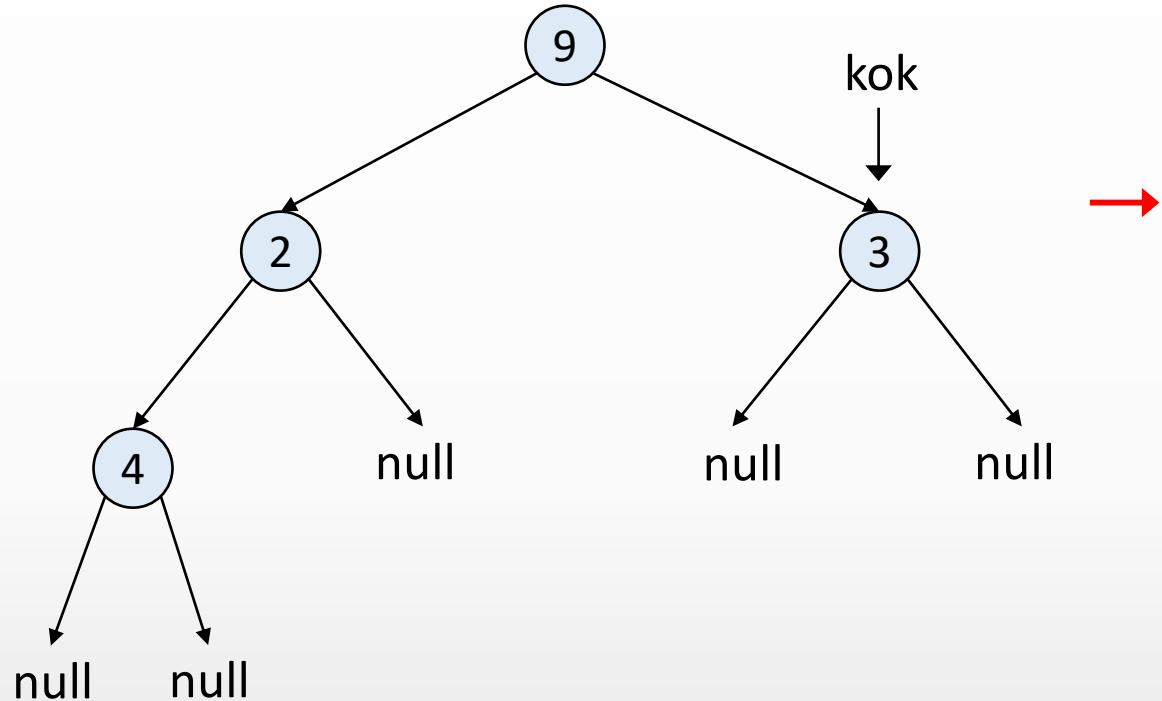
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## Çağırma Yığıtı (Call Stack)



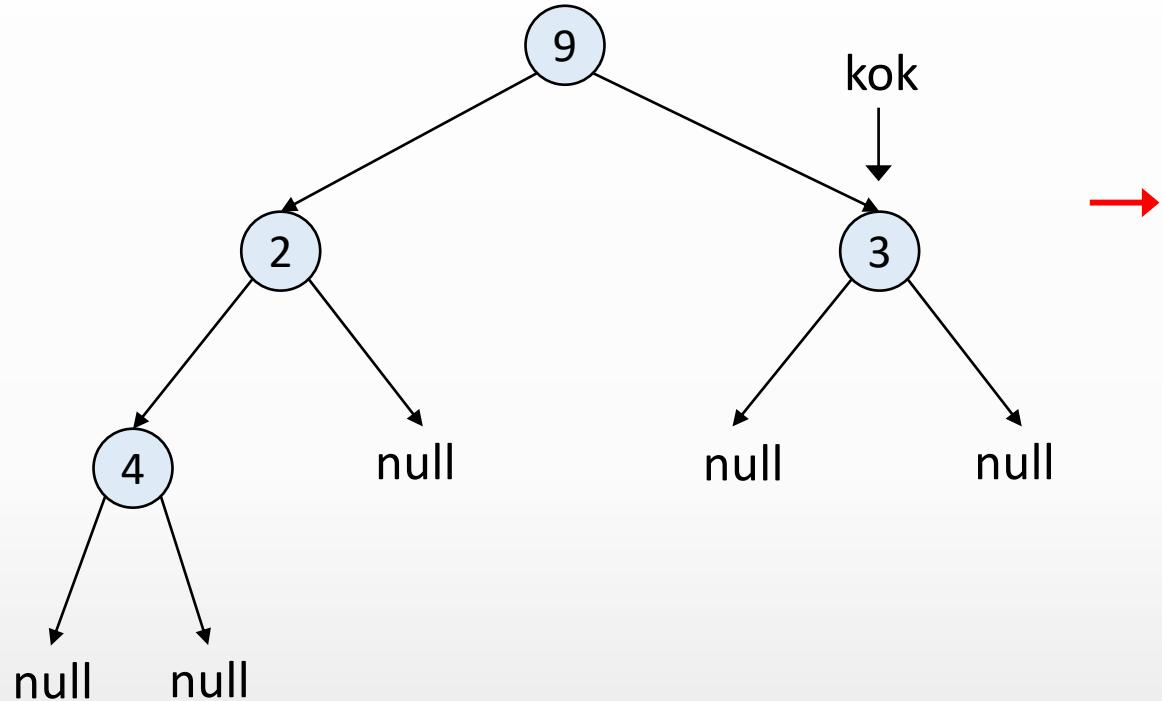
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## Çağırma Yığıtı (Call Stack)



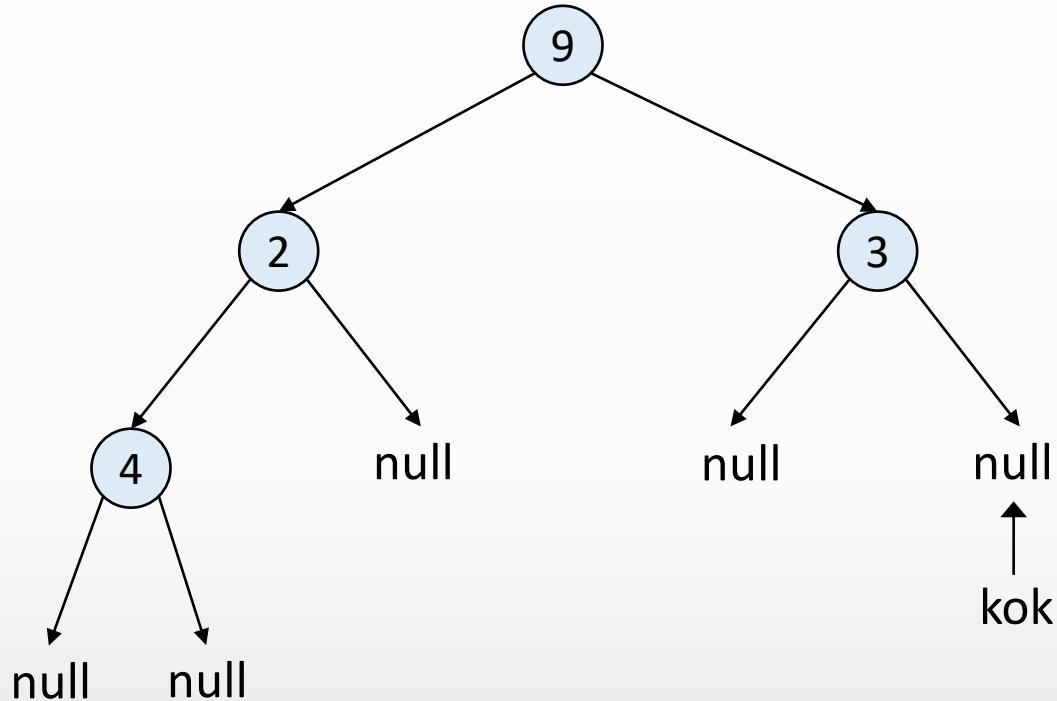
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## Çağırma Yığıtı (Call Stack)



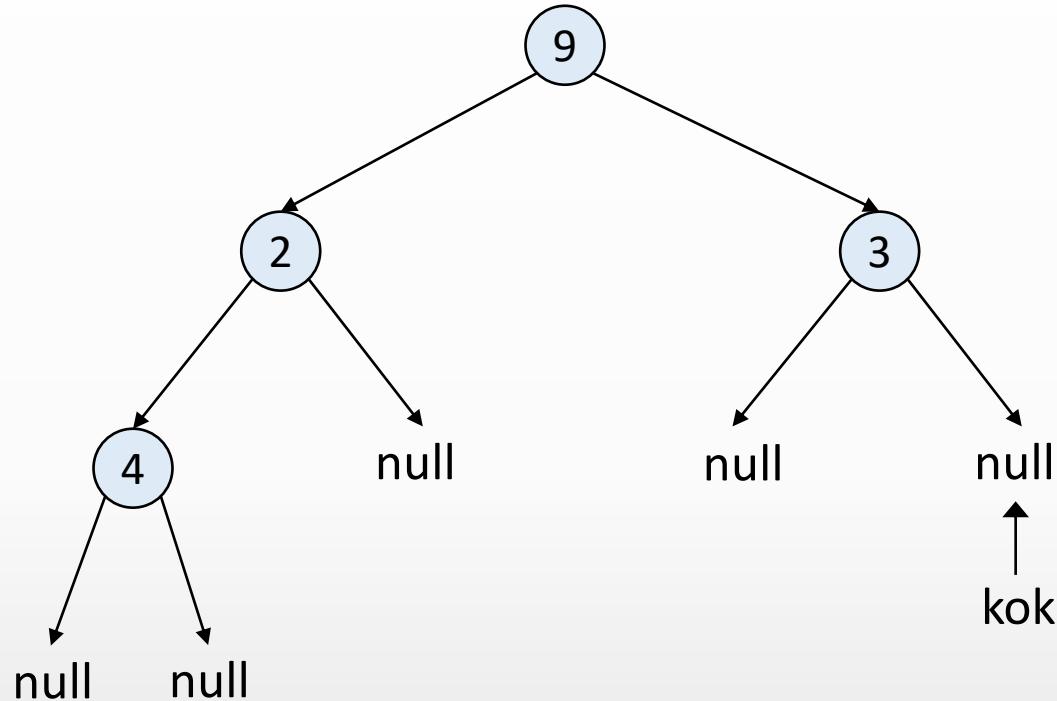
Çıktı: 9 2 4 3

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

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



## Çağırma Yığıtı (Call Stack)



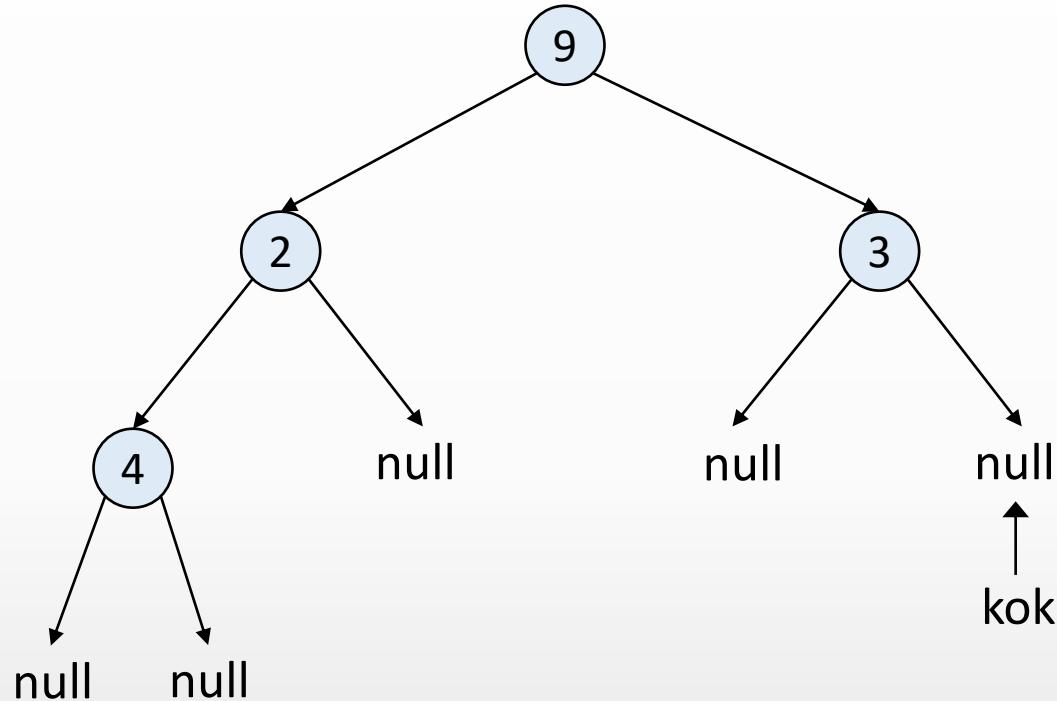
Cıktı: 9 2 4 3

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



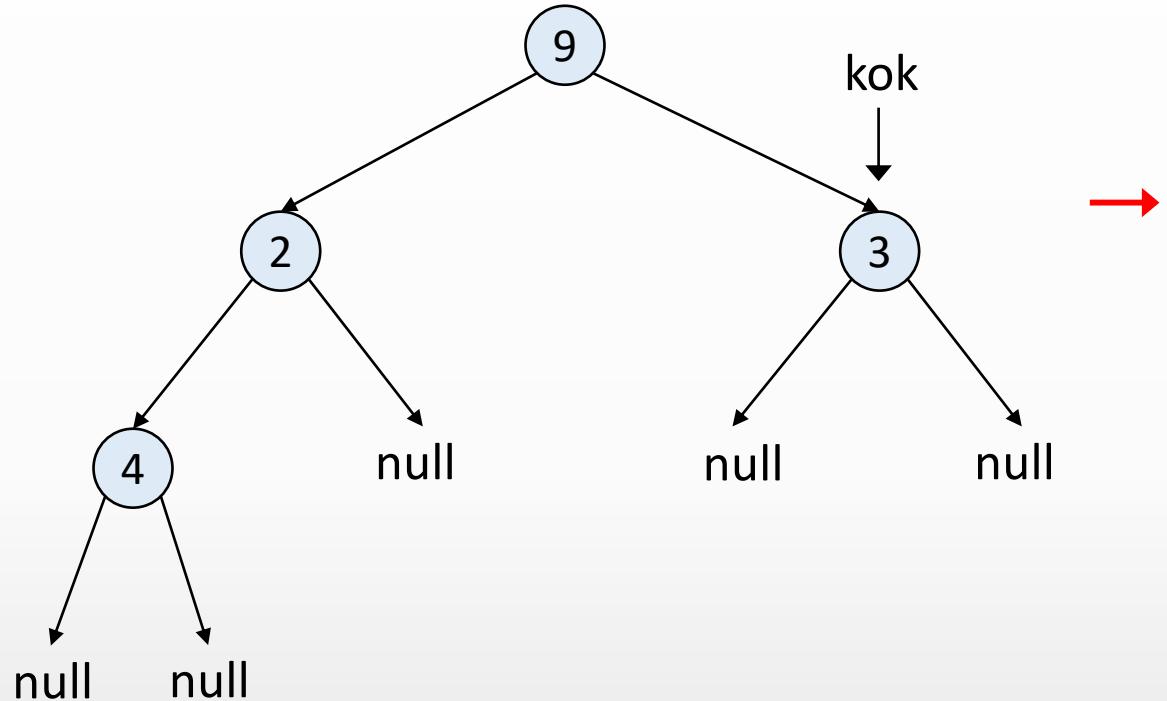
Cıktı: 9 2 4 3

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



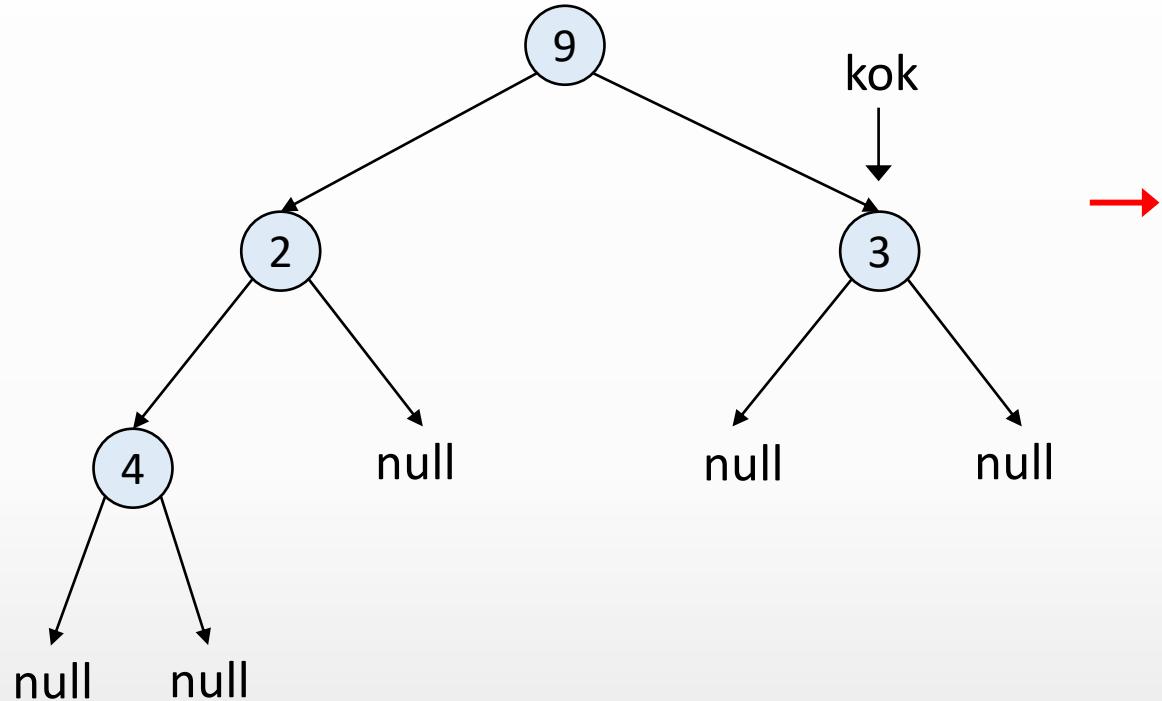
Çıktı: 9 2 4 3

Metot Çağrımı	Satır Numarası	Kök
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```



## Çağırma Yığıtı (Call Stack)



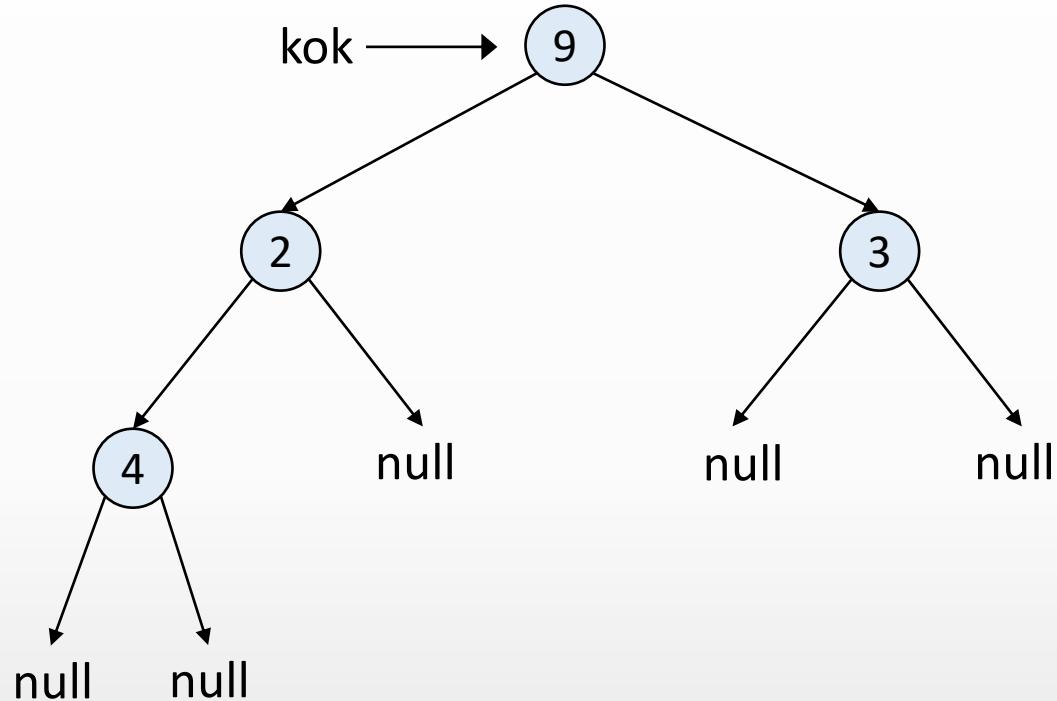
Cıktı: 9 2 4 3

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

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



## Çağırma Yığıtı (Call Stack)



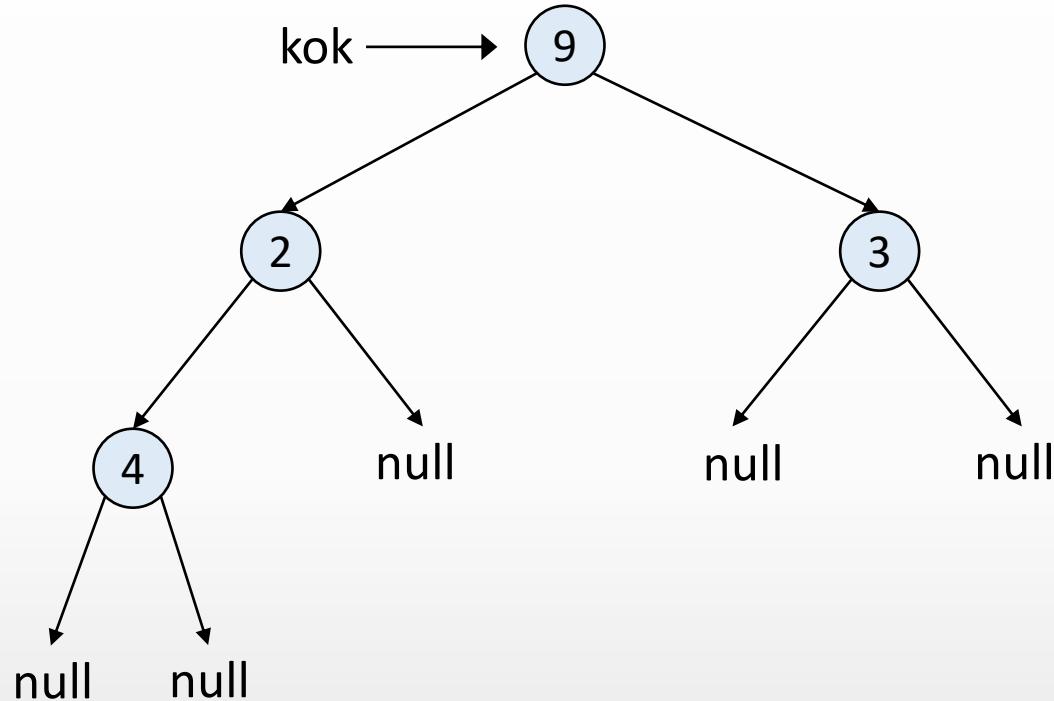
Metot Çağrımı	Satır Numarası	Kök
kokBasta()	7	9

Çıktı: 9 2 4 3

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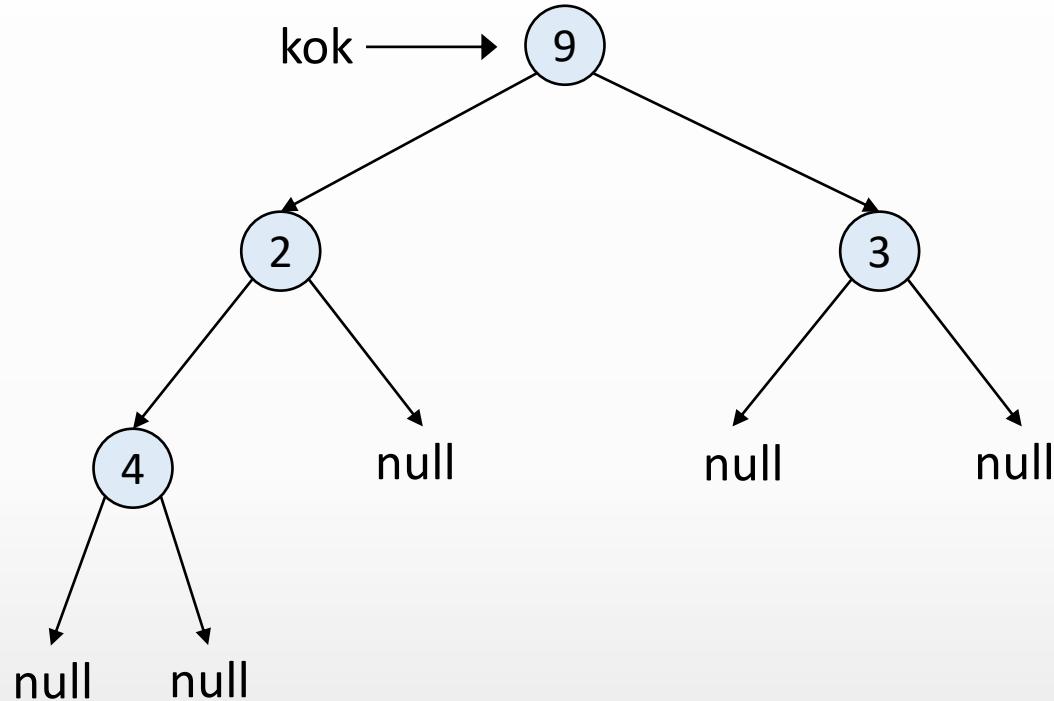
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8 }
```



## Çağrıma Yığıtı (Call Stack)



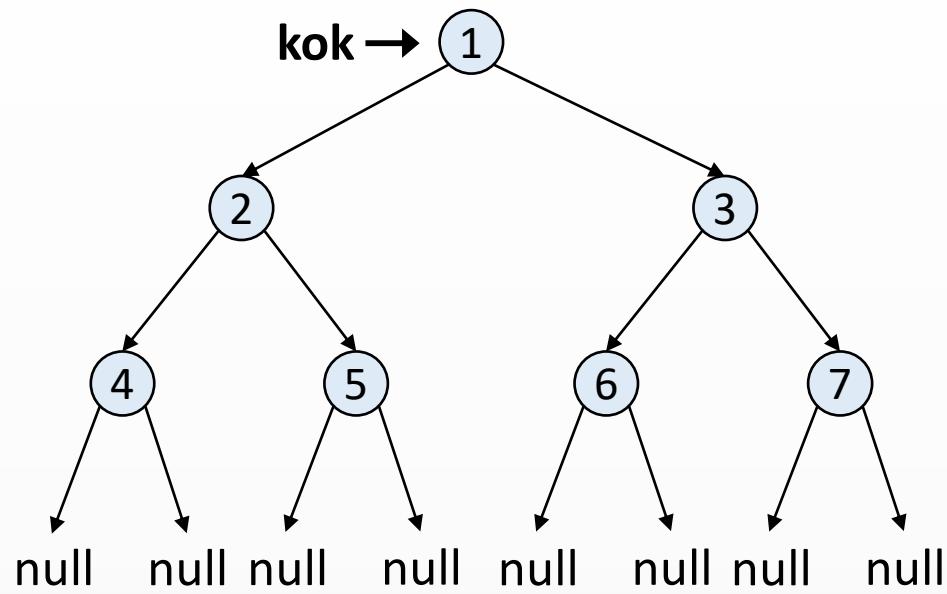
Çıktı: 9 2 4 3

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:

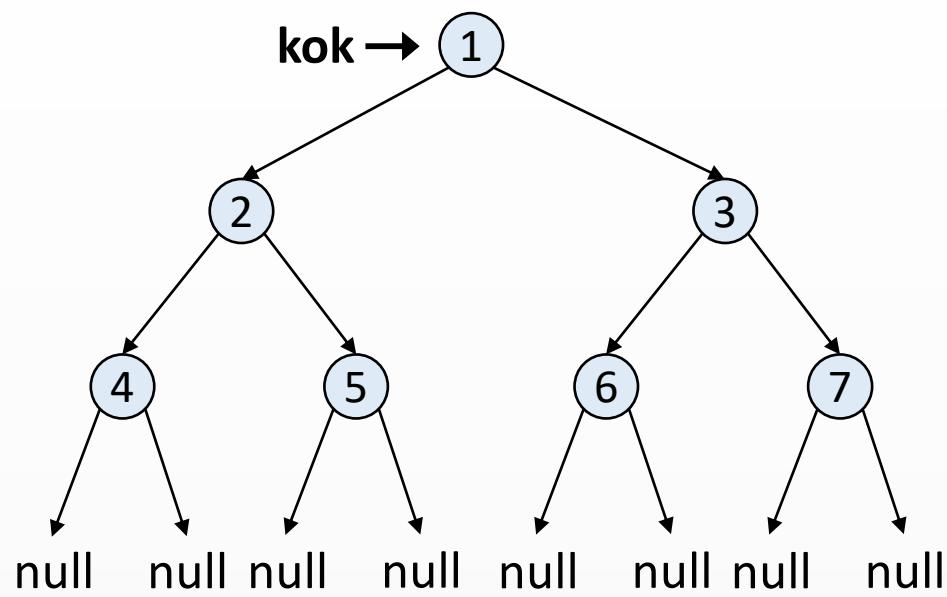
→

```

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);
    }
}

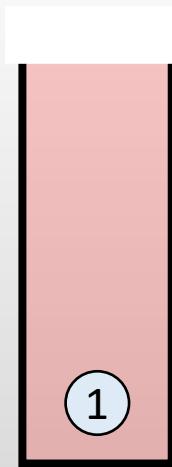
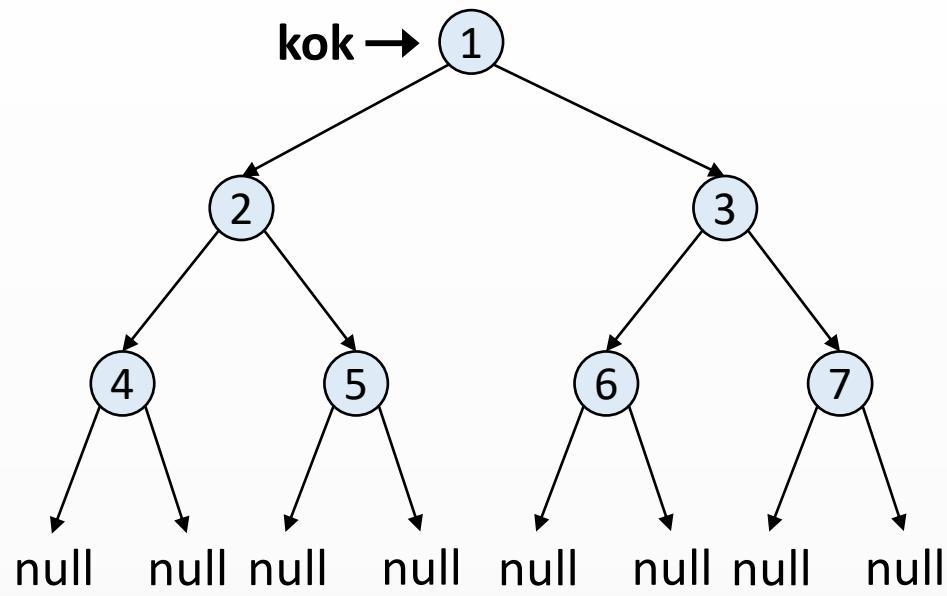
```





Çıktı:

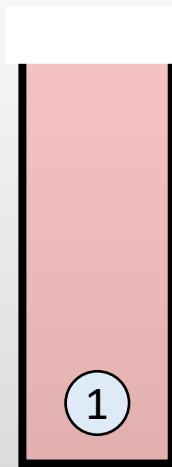
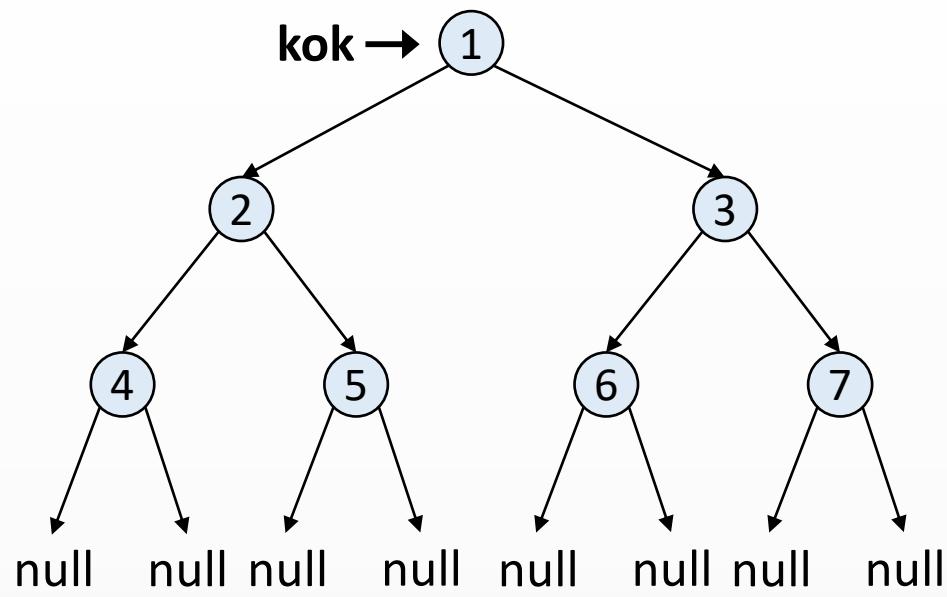
```
if(kok == null) {  
    return;  
}  
→ Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

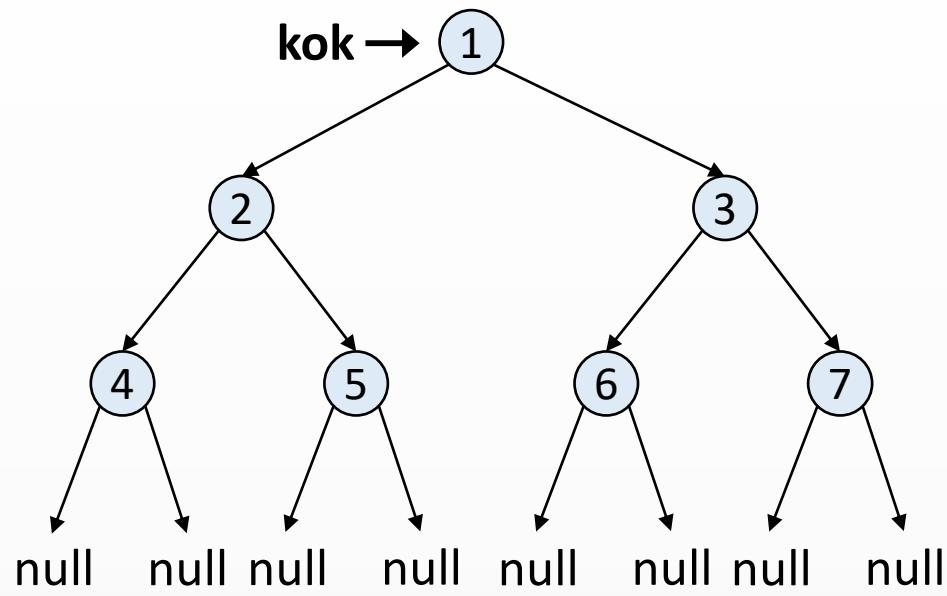
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Çıktı:

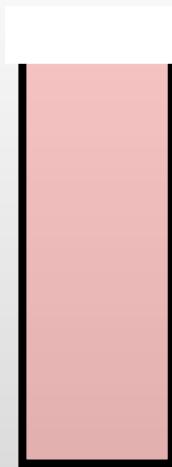
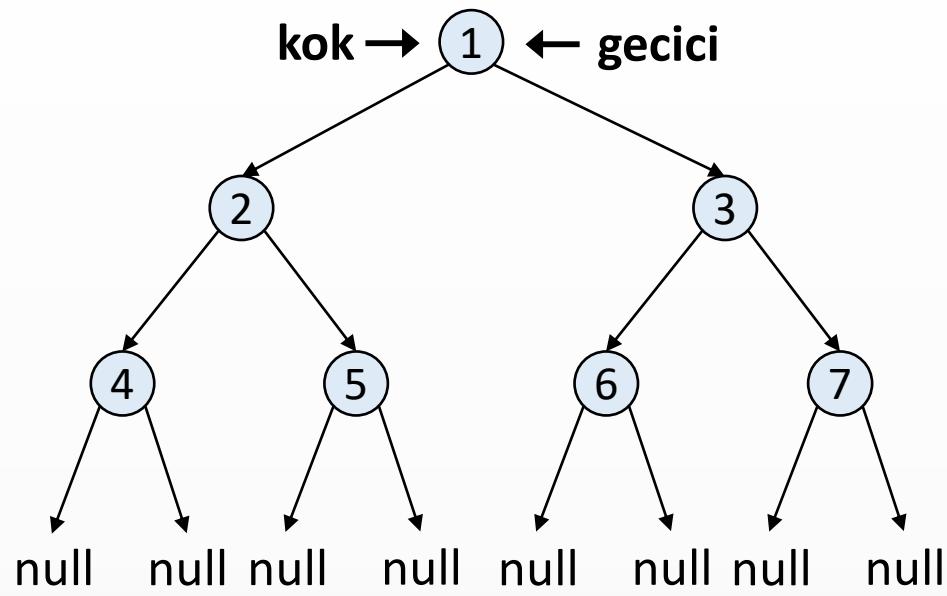
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if(kok == null) {  
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    AgacDugumu gecici = yigit.pop();  
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        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);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



Yığıt

Çıktı:

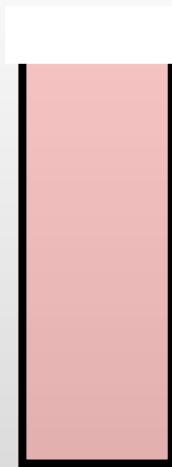
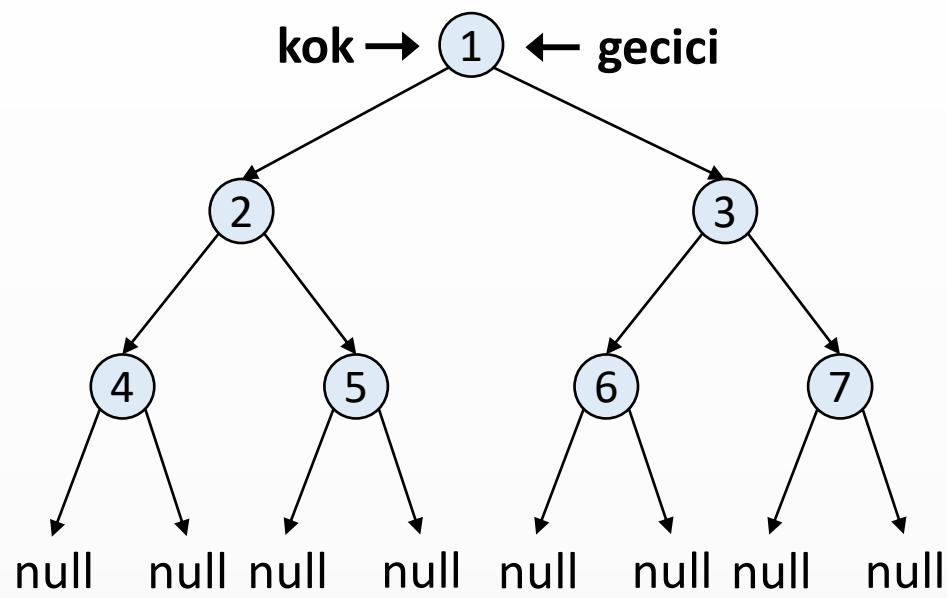
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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        yigit.push(gecici.sol);  
    }  
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```



Yığıt

Çıktı:

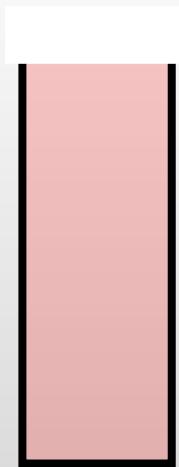
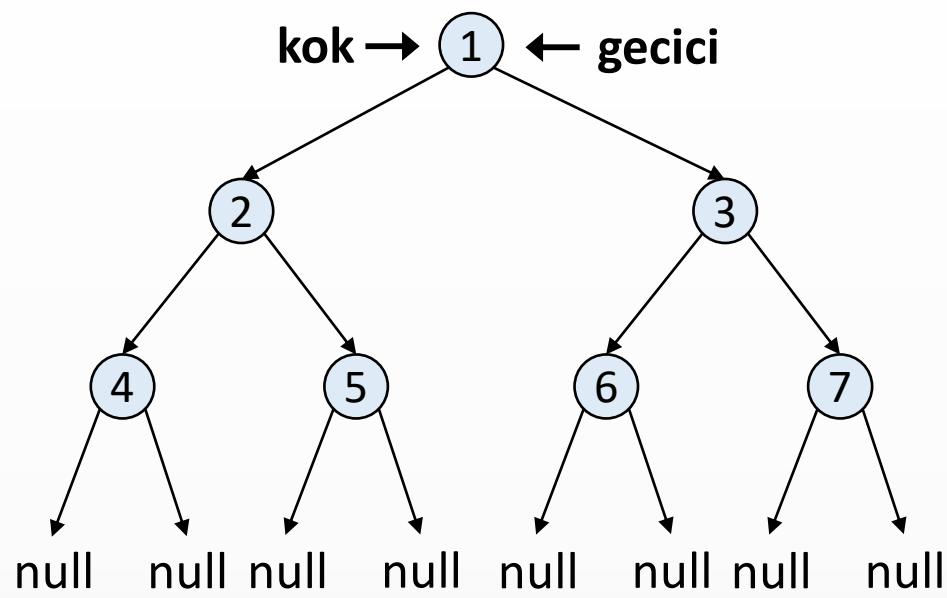
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Yığıt

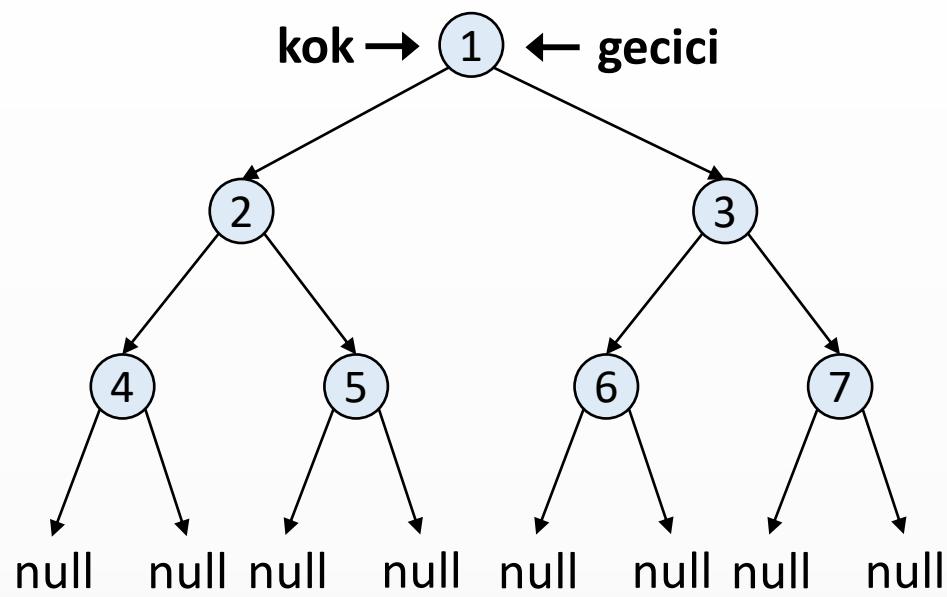
Cıktı: 1

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



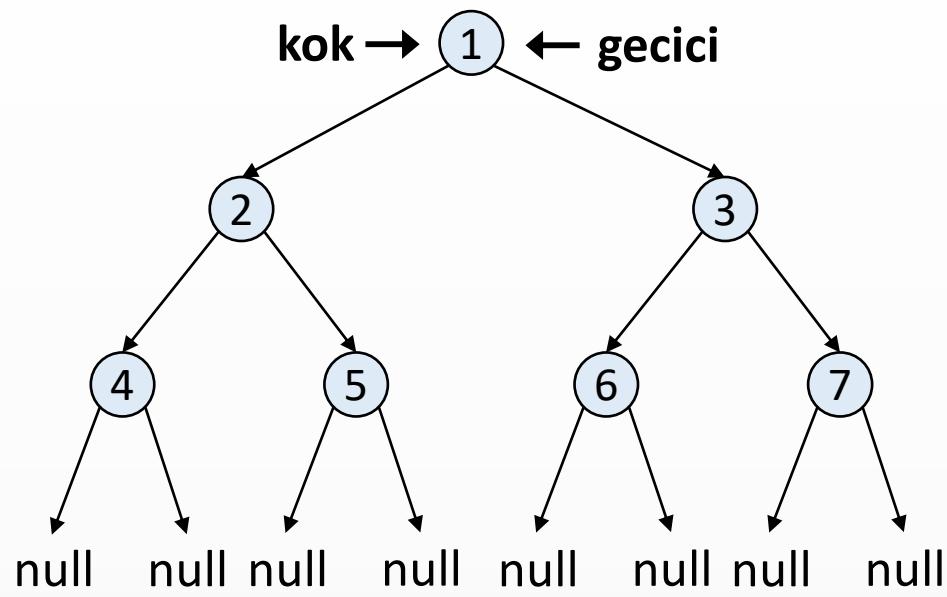
Çıktı: 1

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



Çıktı: 1

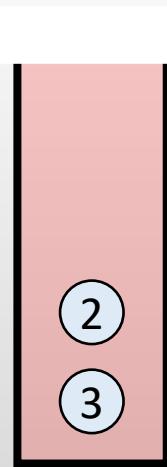
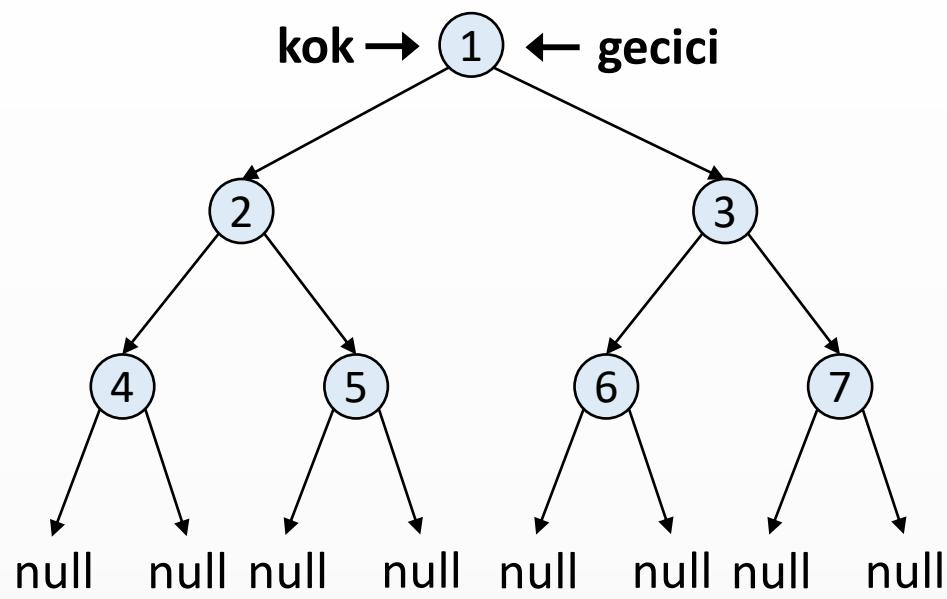
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```



Yığıt

Cıktı: 1

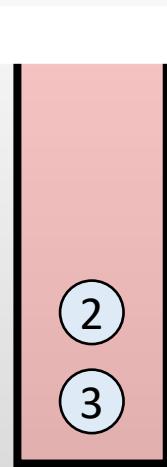
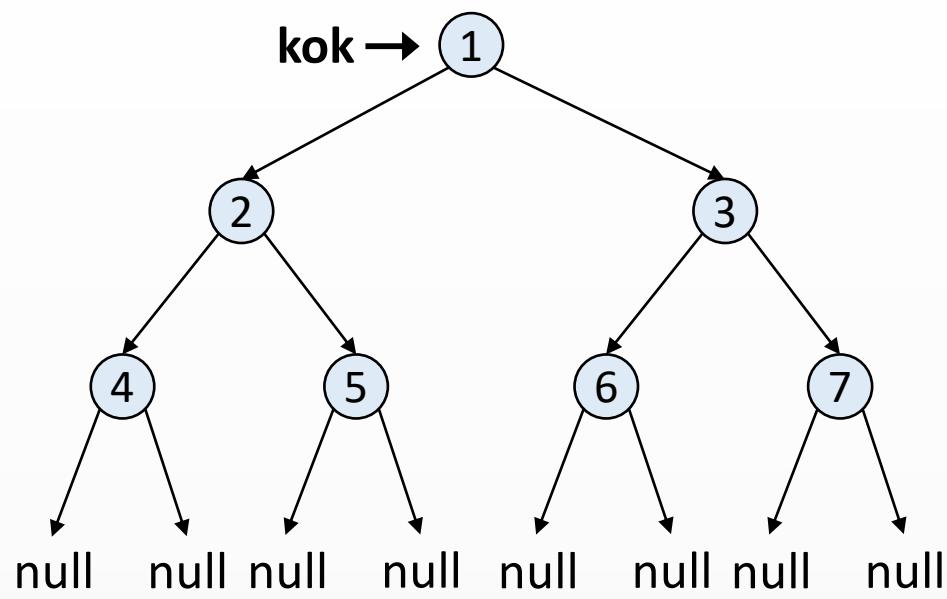
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        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1

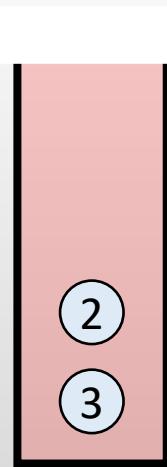
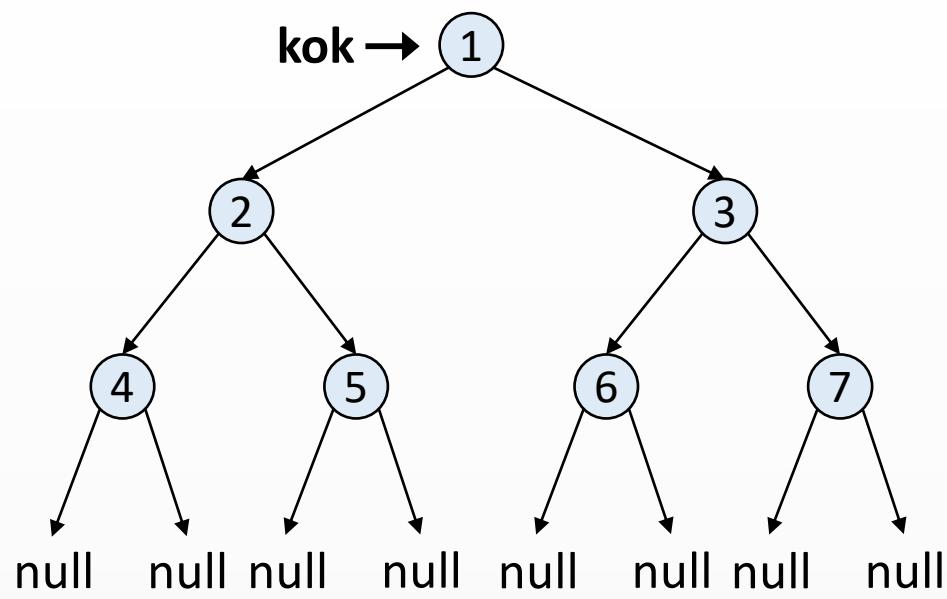
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        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Çıktı: 1

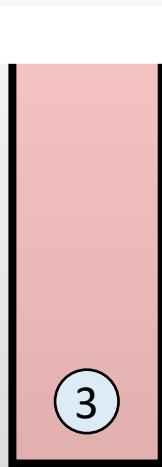
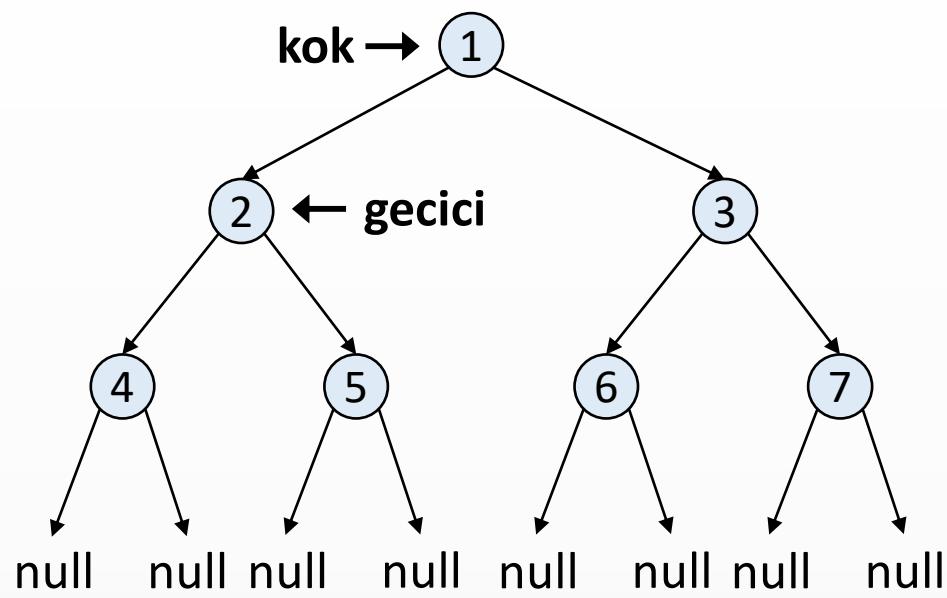
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Çıktı: 1

→

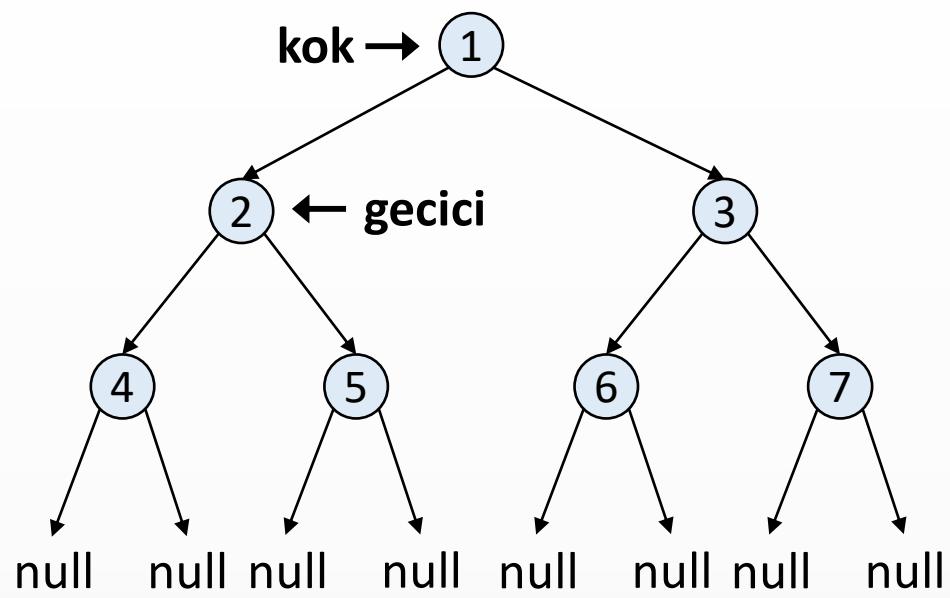
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

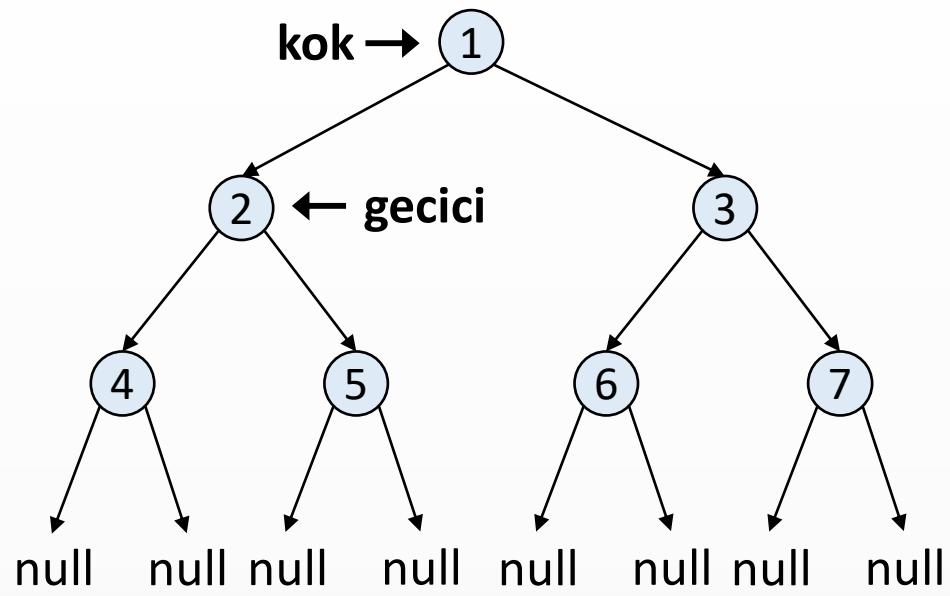
Cıktı: 1

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



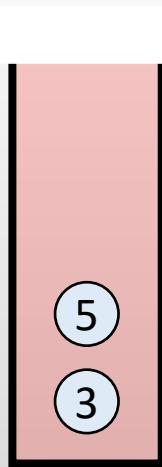
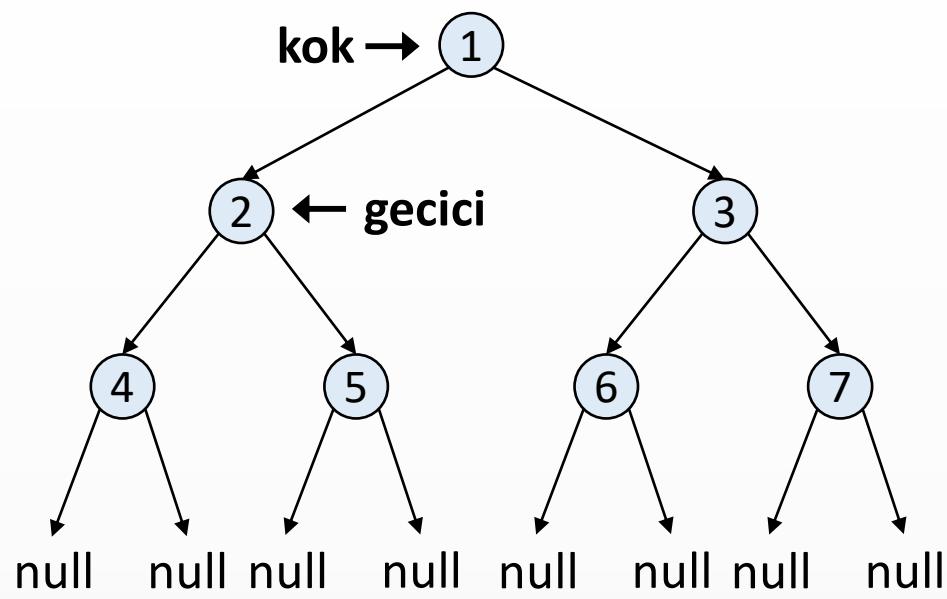
Cıktı: 1 2

```
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

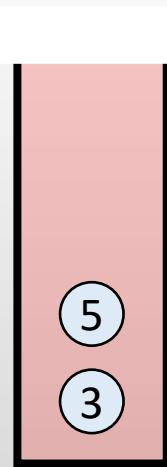
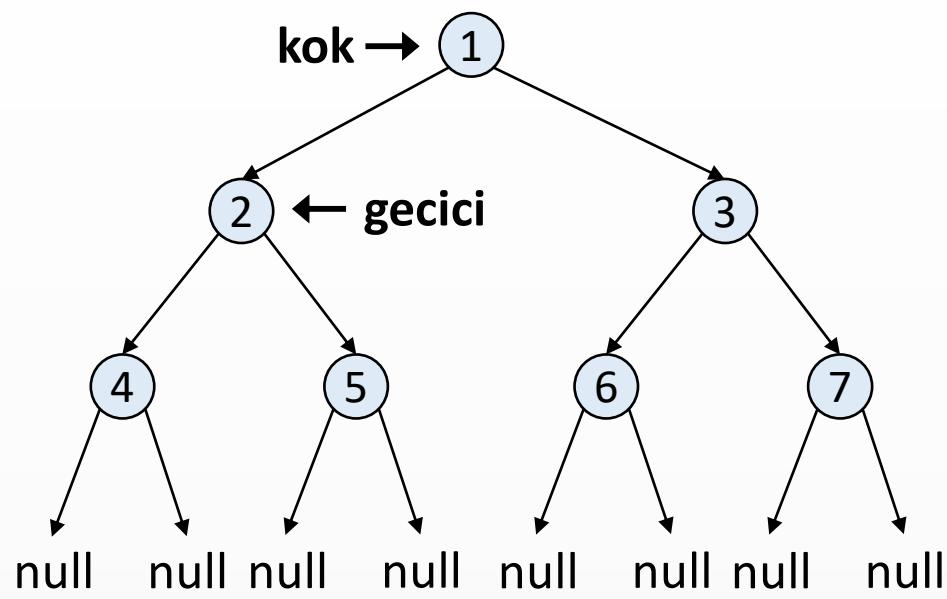
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    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Cıktı: 1 2

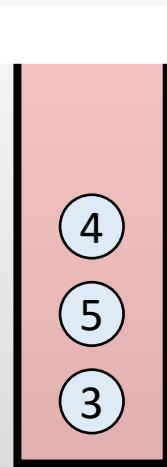
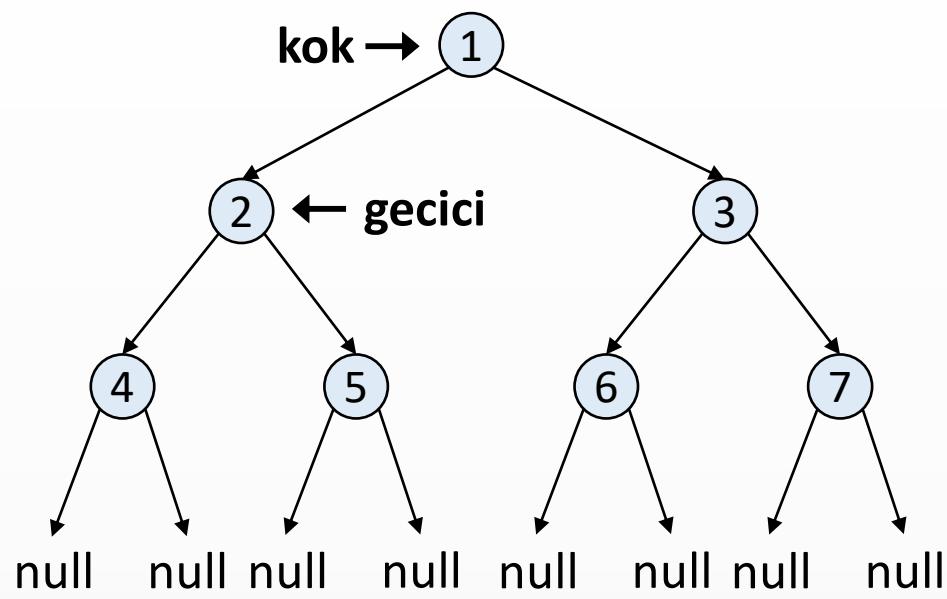
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
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    }  
}
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Yığıt

Cıktı: 1 2

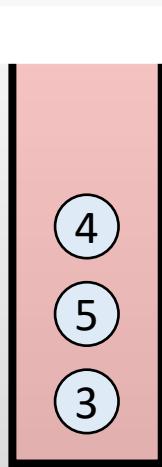
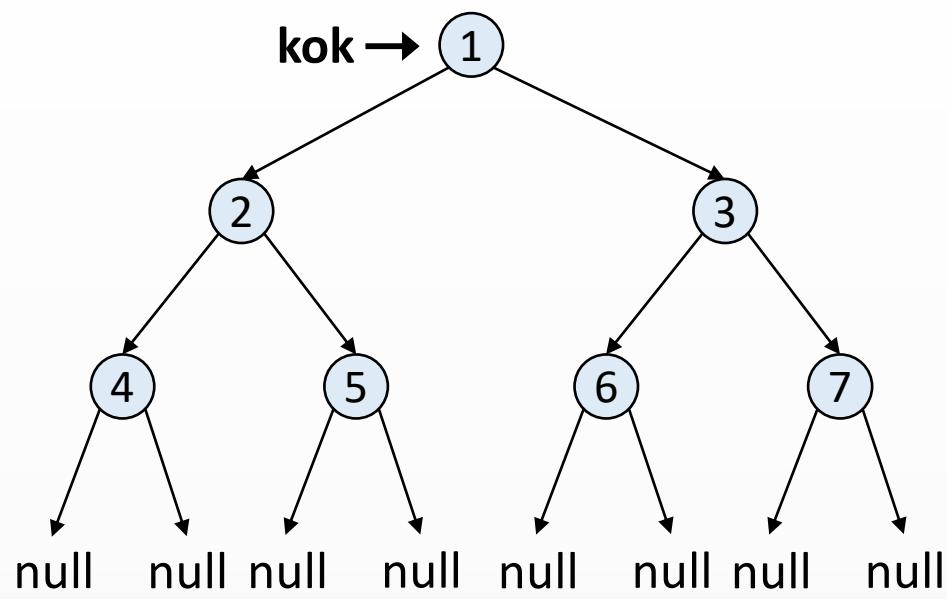
```
if(kok == null) {  
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yigit.push(kok);  
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    }  
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```



Yığıt

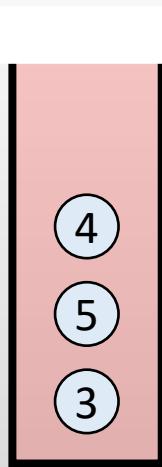
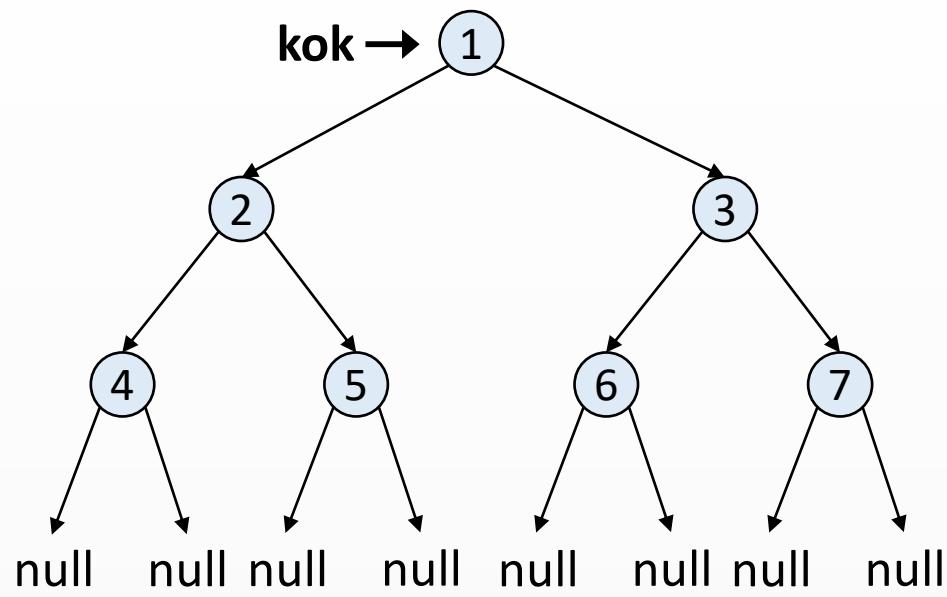
Cıktı: 1 2

```
if(kok == null) {  
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}  
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        yigit.push(gecici.sol);  
    }  
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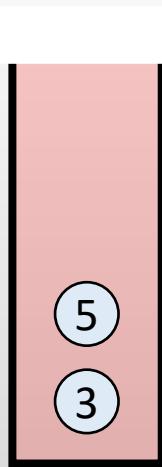
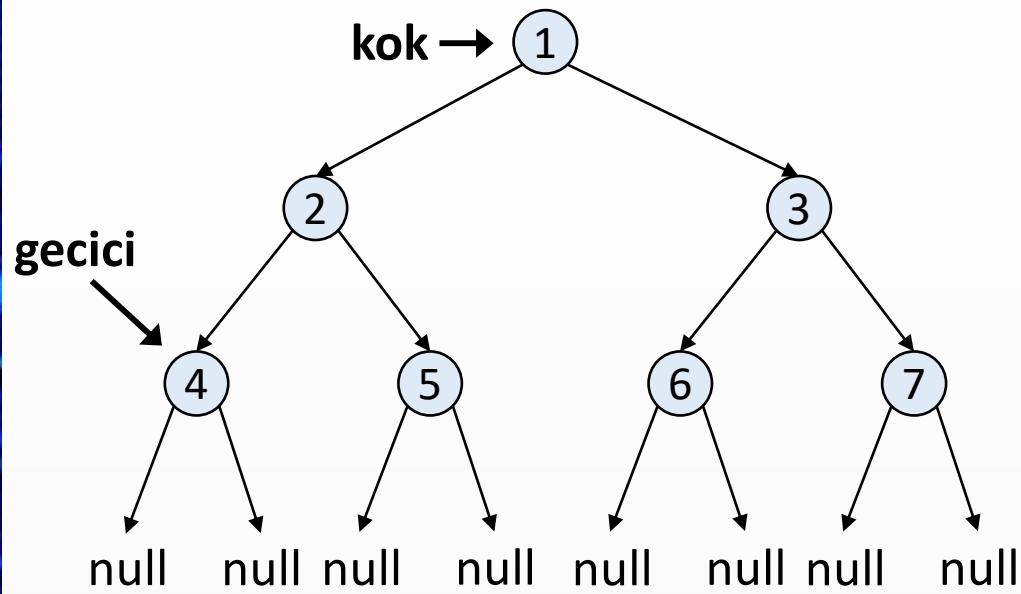
Cıktı: 1 2

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}  
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    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
    }  
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Cıktı: 1 2

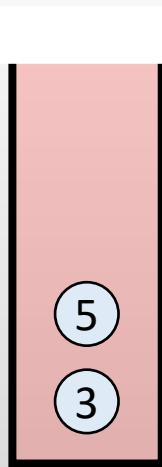
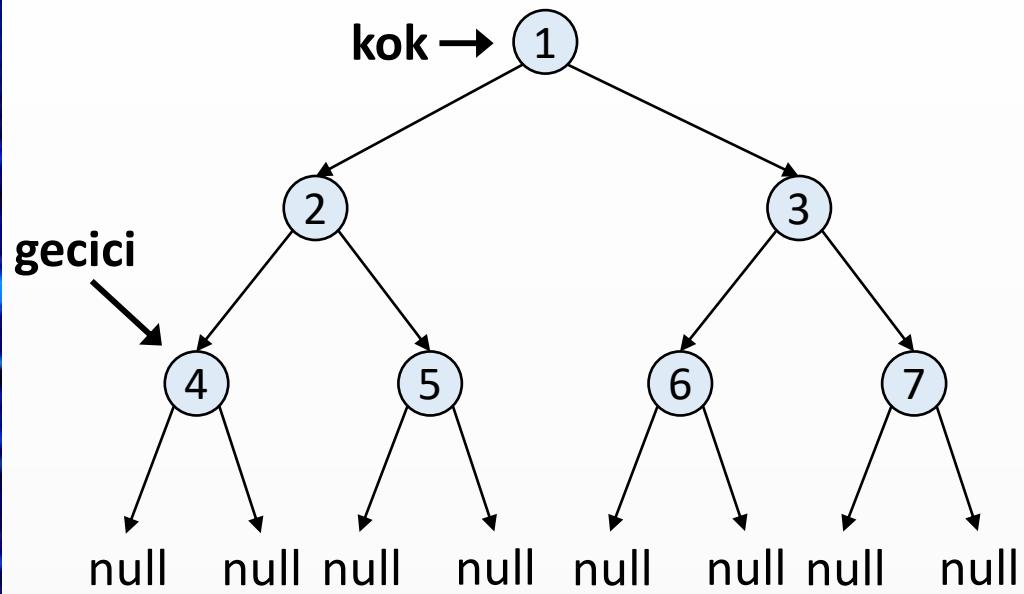
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);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



Yığıt

Cıktı: 1 2

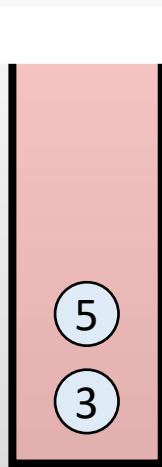
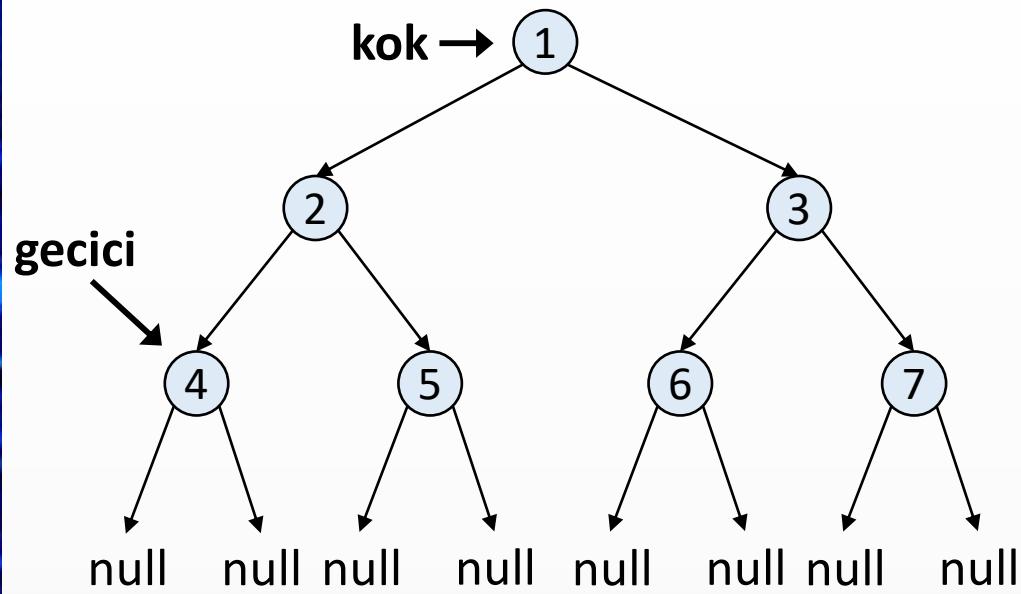
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    }  
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```



Yığıt

Cıktı: 1 2 4

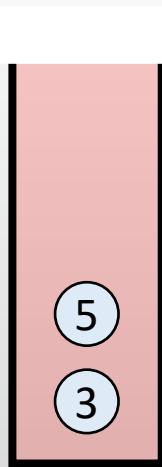
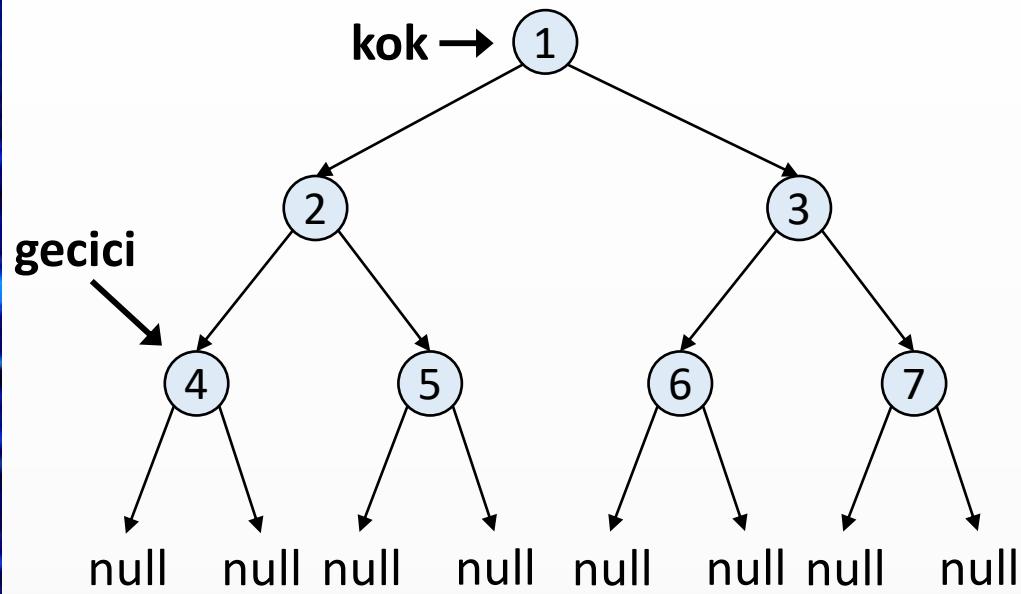
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);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



Yığıt

Cıktı: 1 2 4

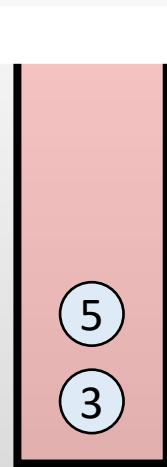
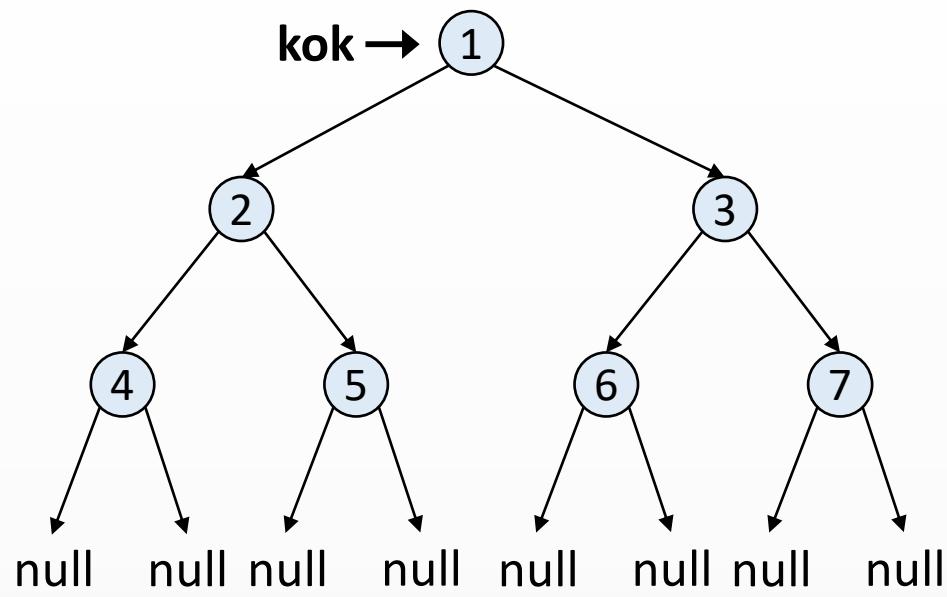
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    }  
}
```



Yığıt

Cıktı: 1 2 4

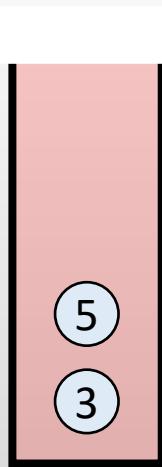
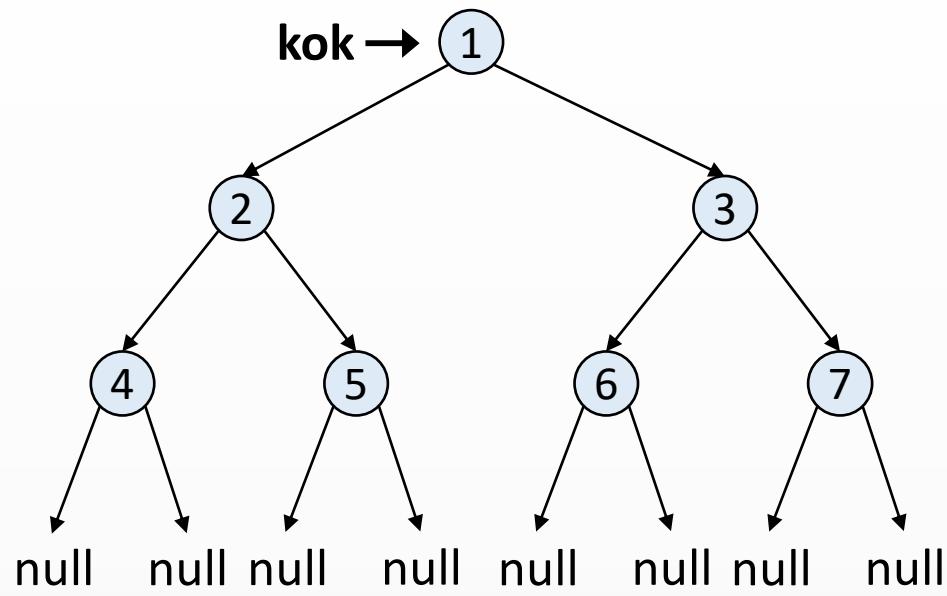
```
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Yığıt

Cıktı: 1 2 4

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    }  
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```

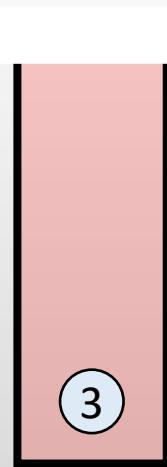
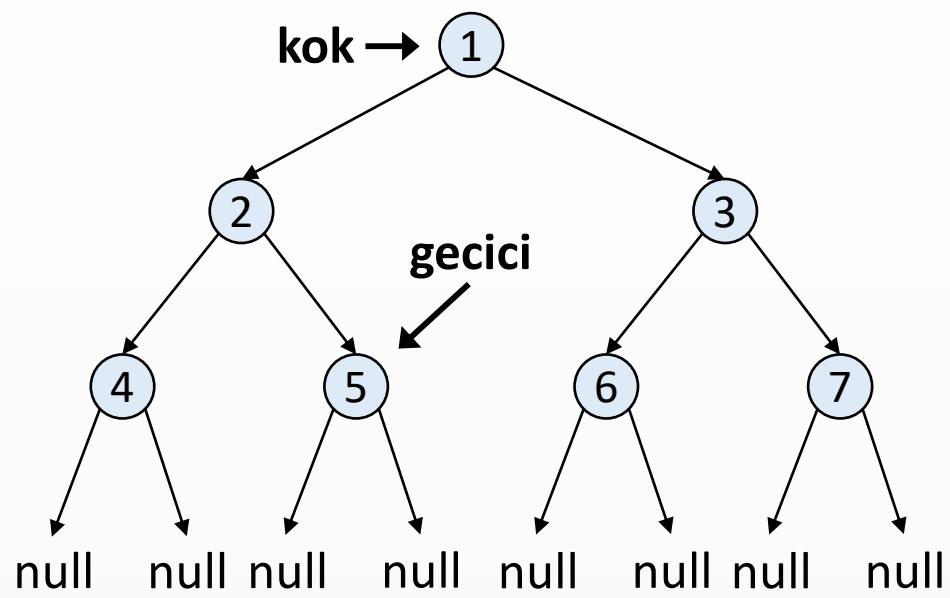


Yığıt

Cıktı: 1 2 4

→

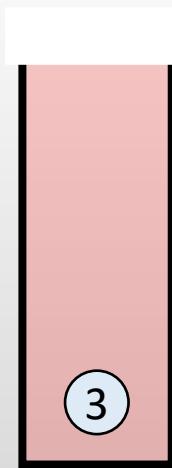
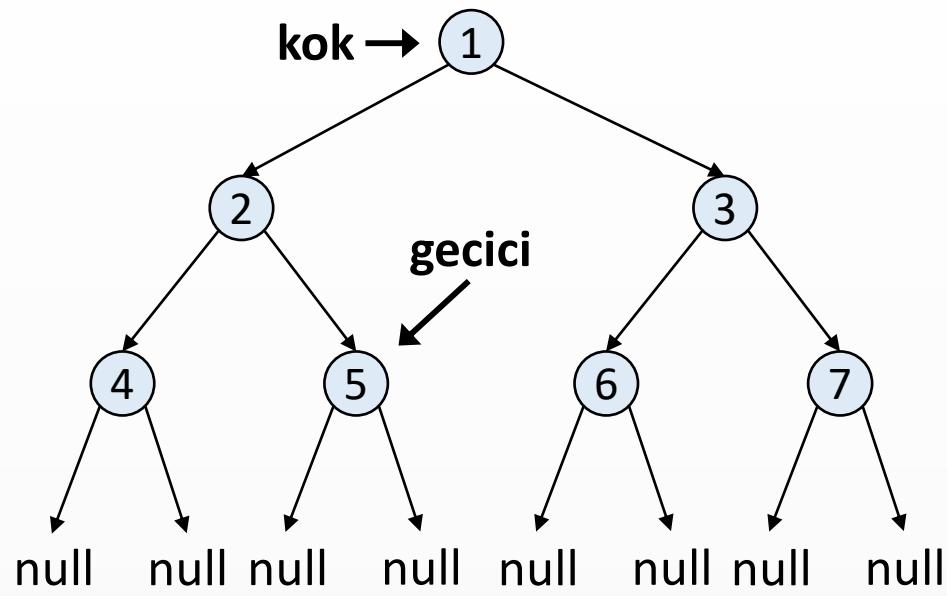
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
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    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
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```



Yığıt

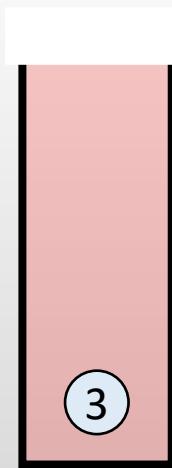
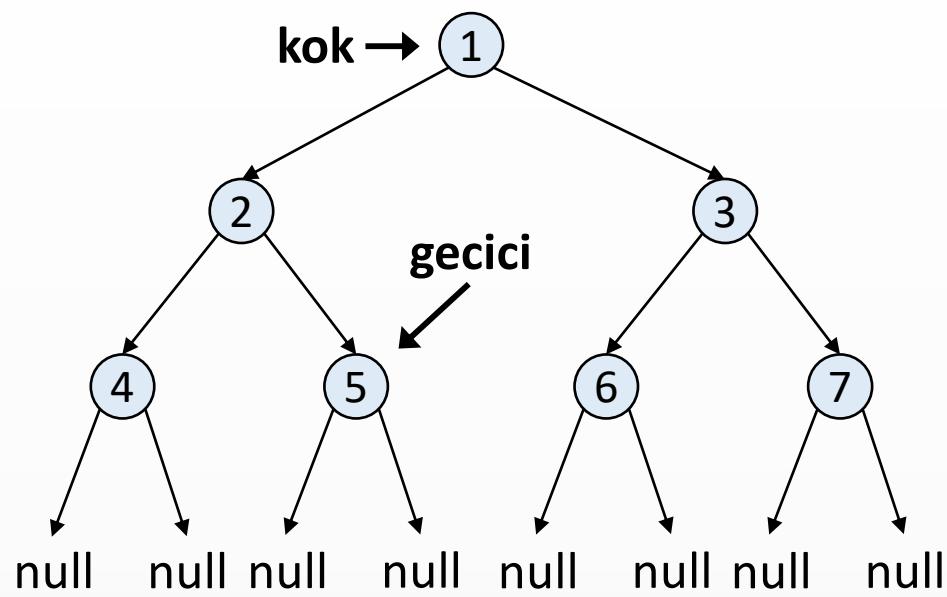
Cıktı: 1 2 4

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if(kok == null) {  
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```



Cıktı: 1 2 4 5

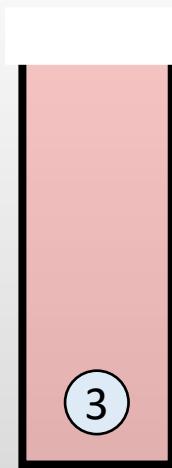
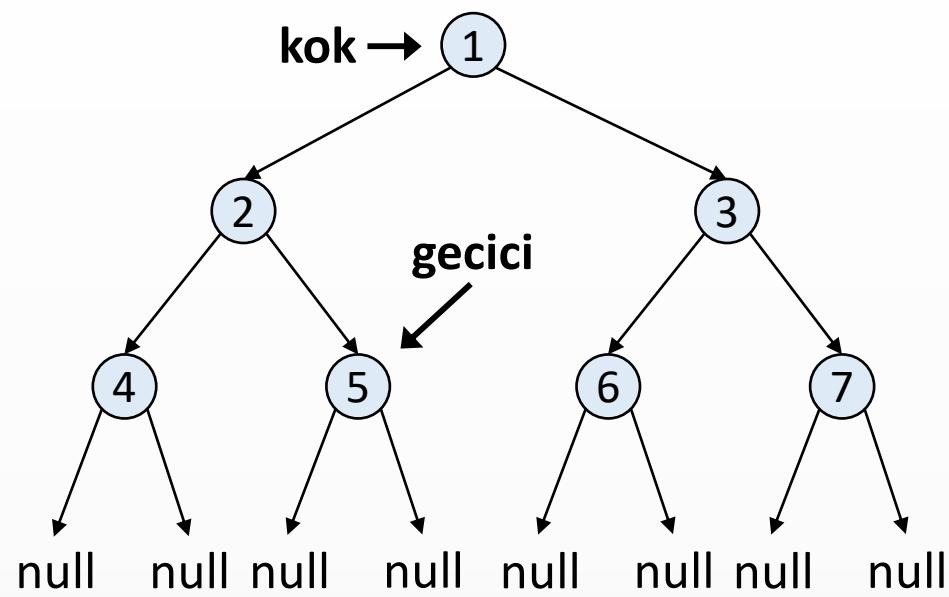
```
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Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty()) {  
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```



Yığıt

Cıktı: 1 2 4 5

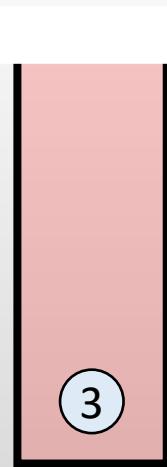
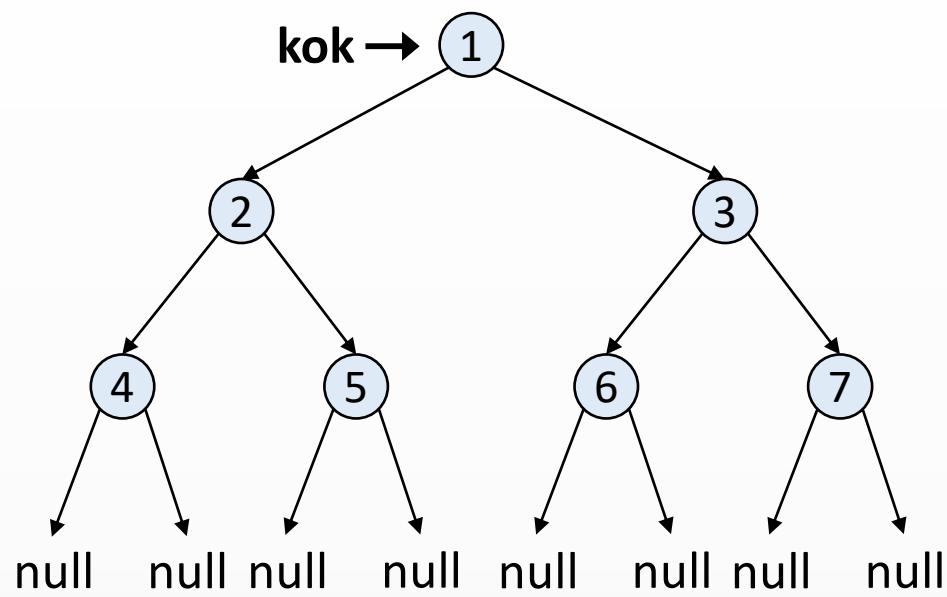
```
if(kok == null) {  
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Yığıt

Cıktı: 1 2 4 5

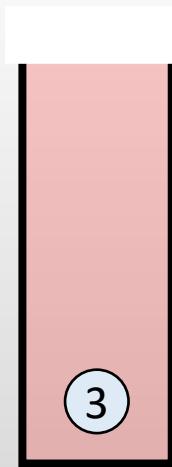
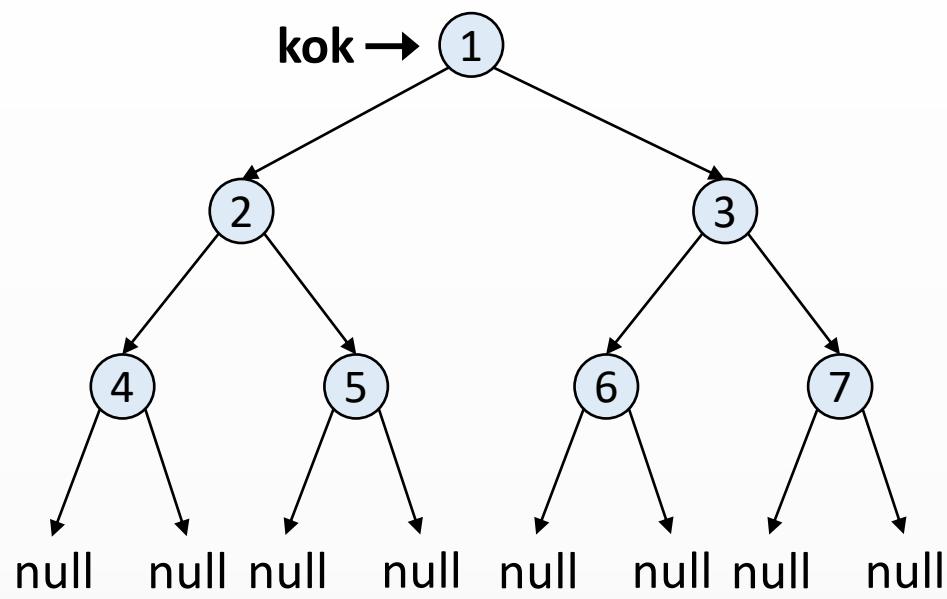
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Yığıt

Cıktı: 1 2 4 5

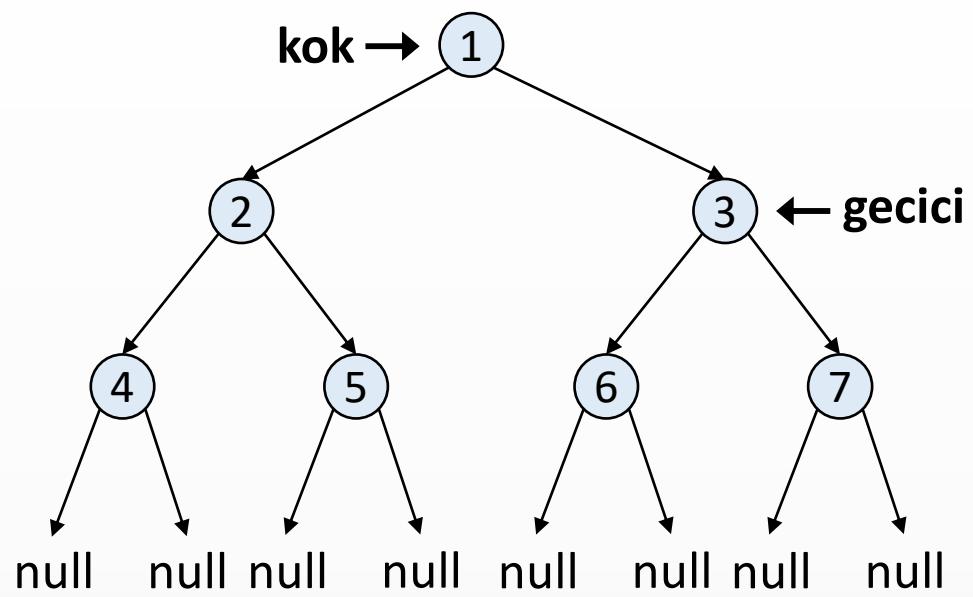
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Yığıt

Cıktı: 1 2 4 5

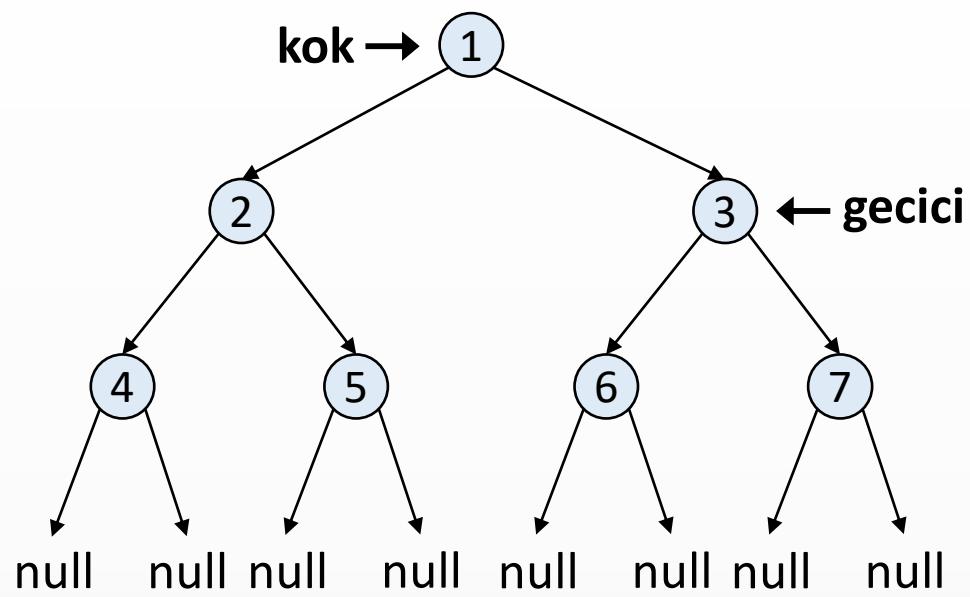
```
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Yığıt

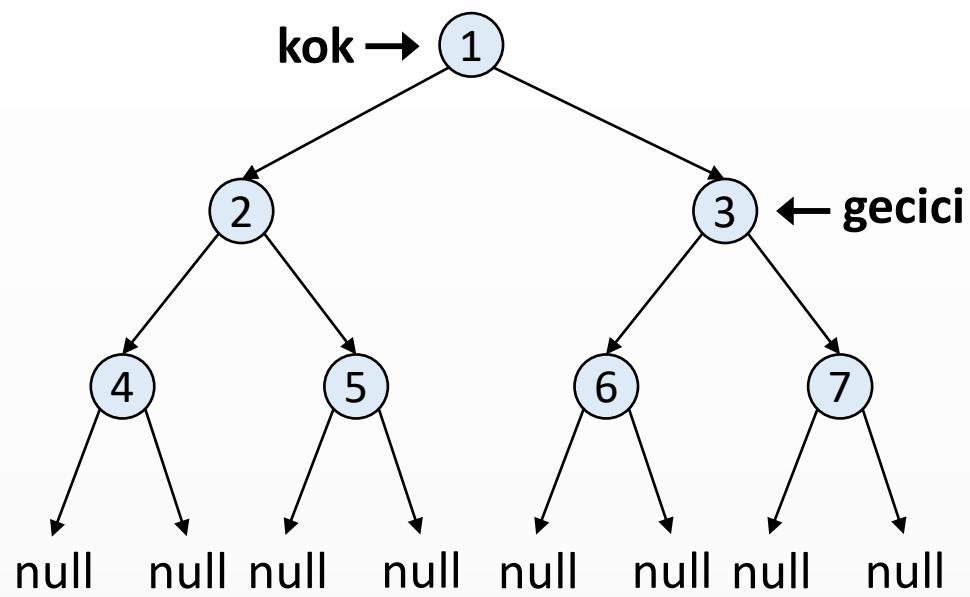
Cıktı: 1 2 4 5

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```



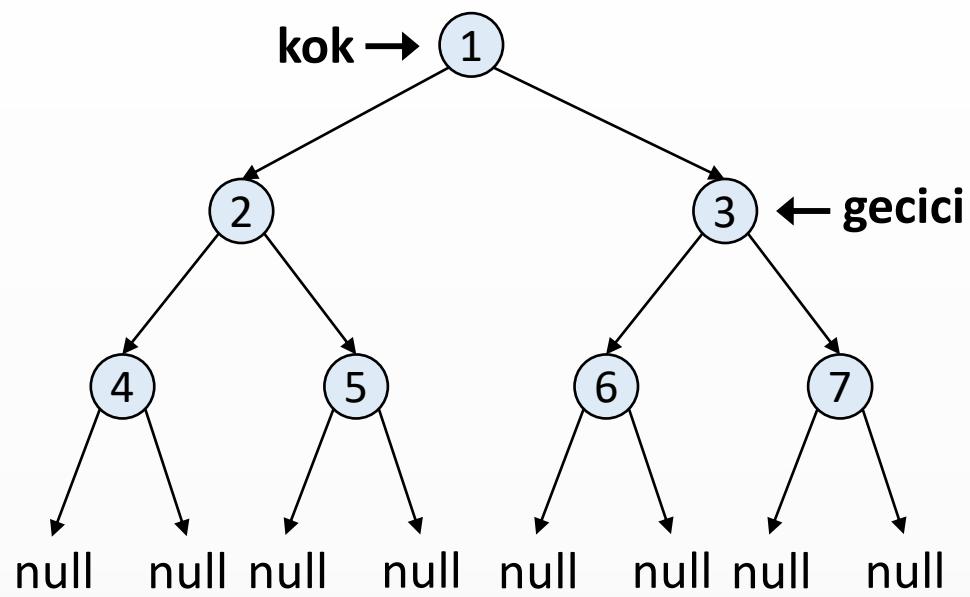
Çıktı: 1 2 4 5 3

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



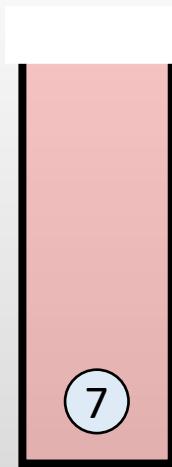
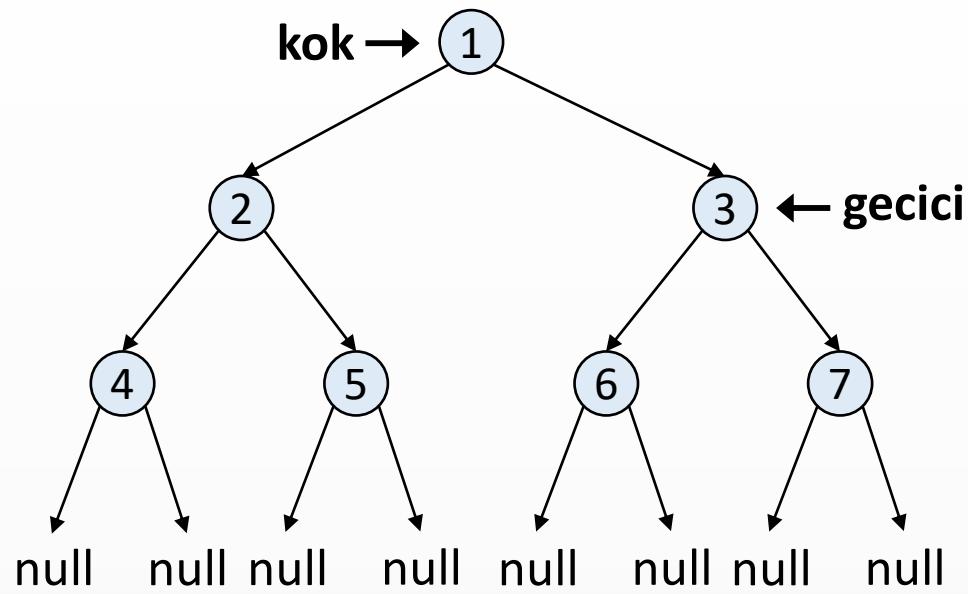
Cıktı: 1 2 4 5 3

```
if(kok == null) {  
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}  
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        yigit.push(gecici.sol);  
    }  
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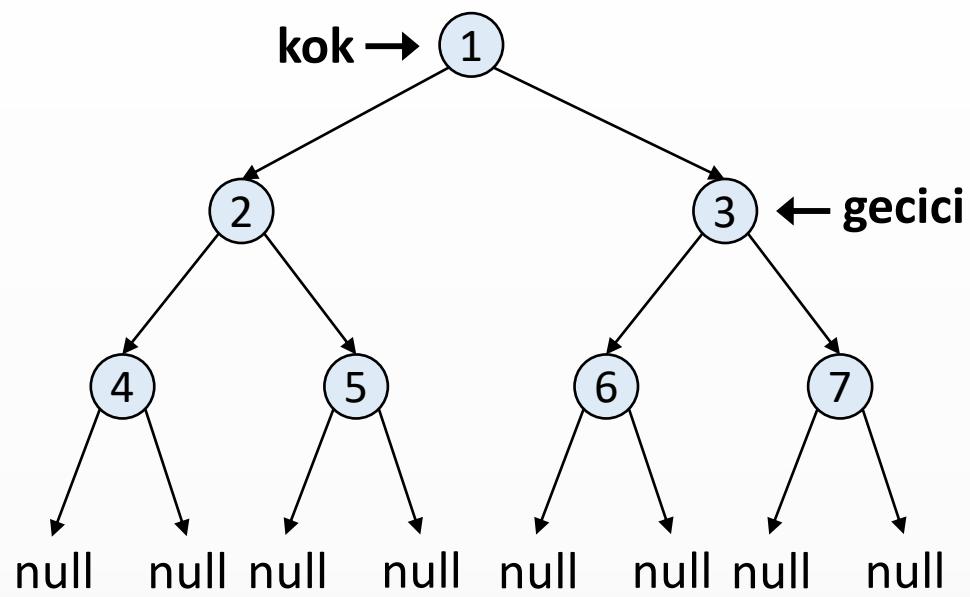
Çıktı: 1 2 4 5 3

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



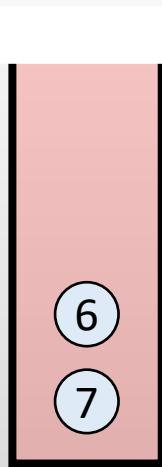
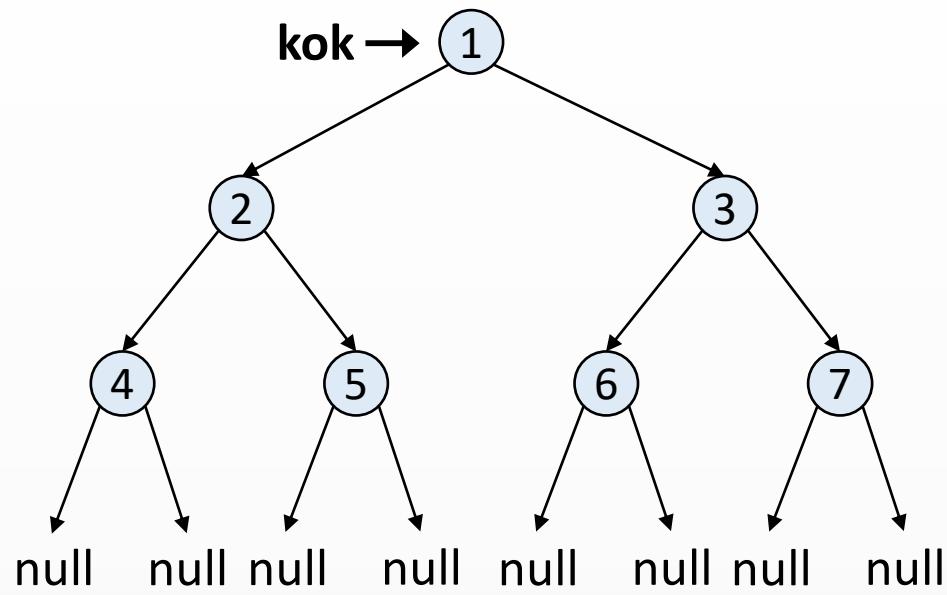
Cıktı: 1 2 4 5 3

```
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
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Çıktı: 1 2 4 5 3

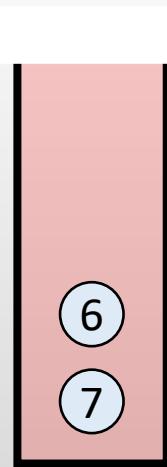
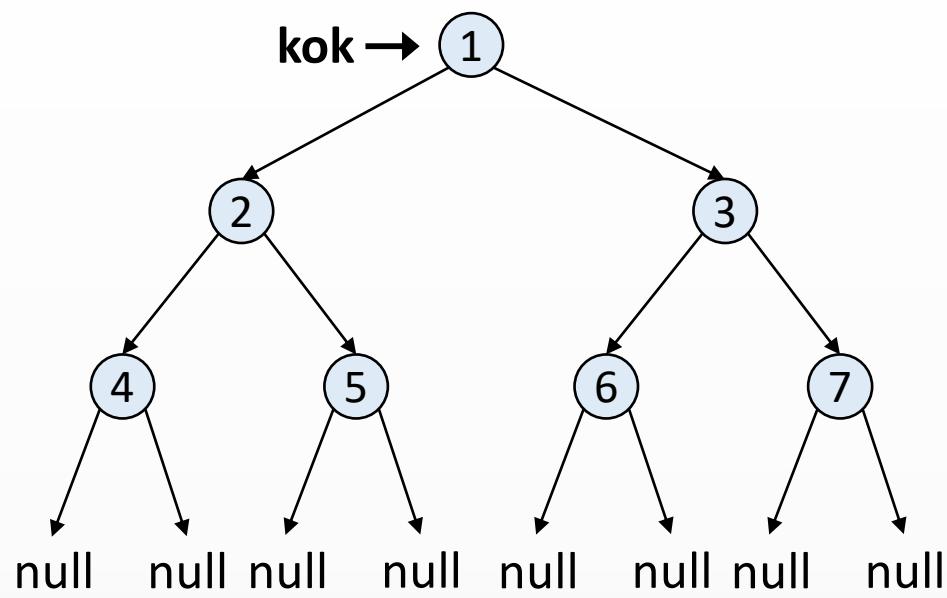
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    return;  
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yigit.push(kok);  
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        yigit.push(gecici.sag);  
    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
 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



Yığıt

Cıktı: 1 2 4 5 3

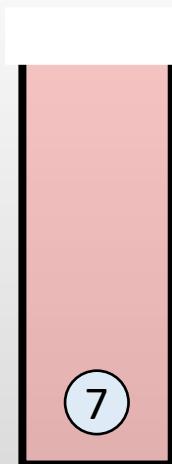
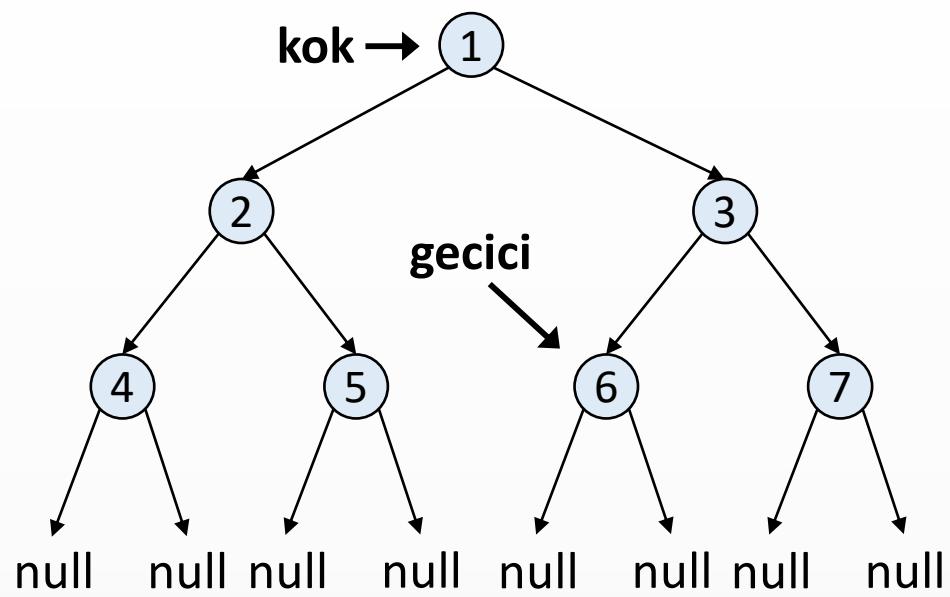
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}
```



Yığıt

Cıktı: 1 2 4 5 3

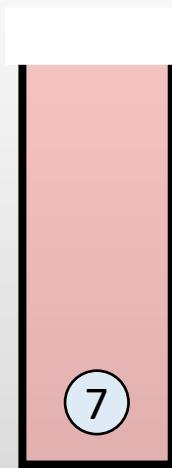
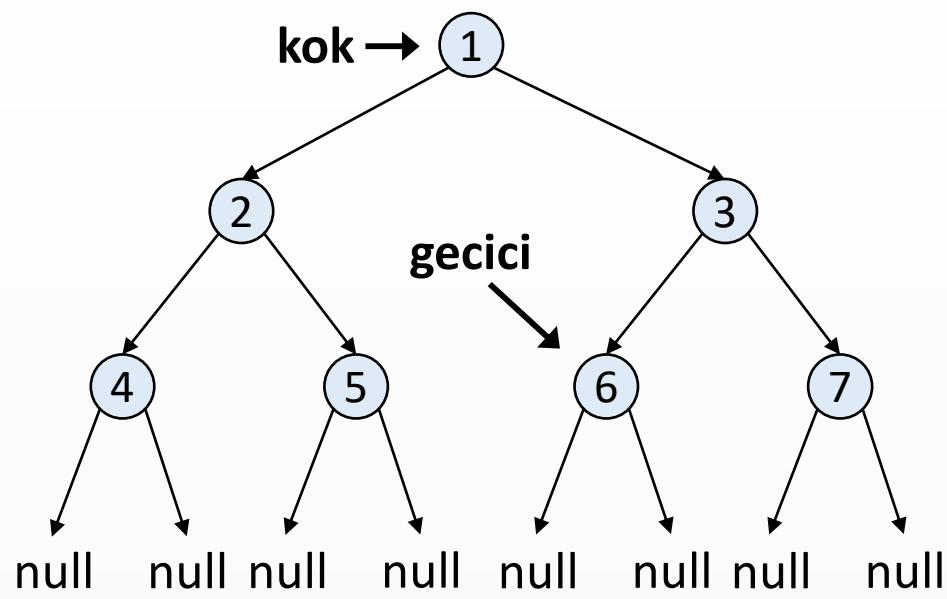
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
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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



Yığıt

Cıktı: 1 2 4 5 3

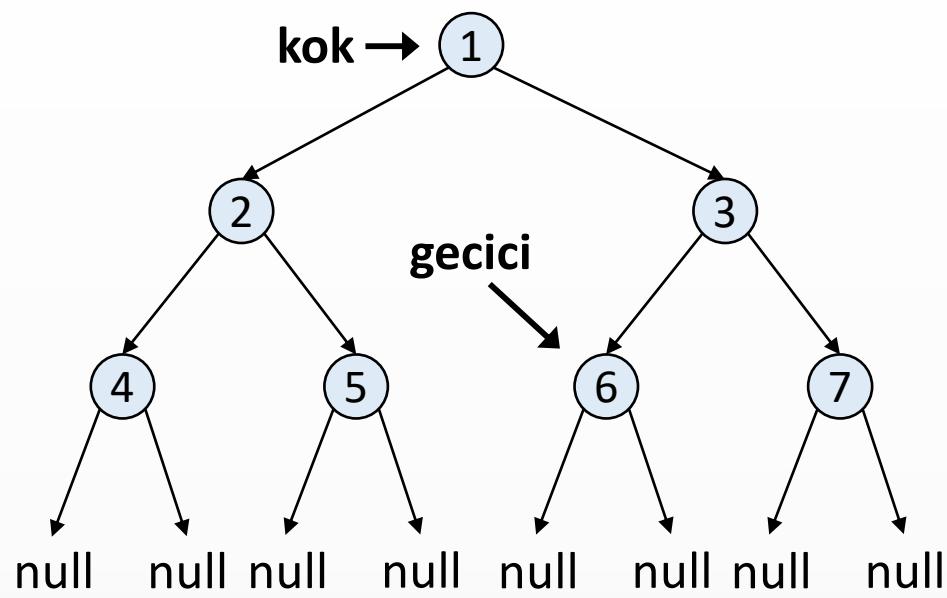
```
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    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Cıktı: 1 2 4 5 3 6

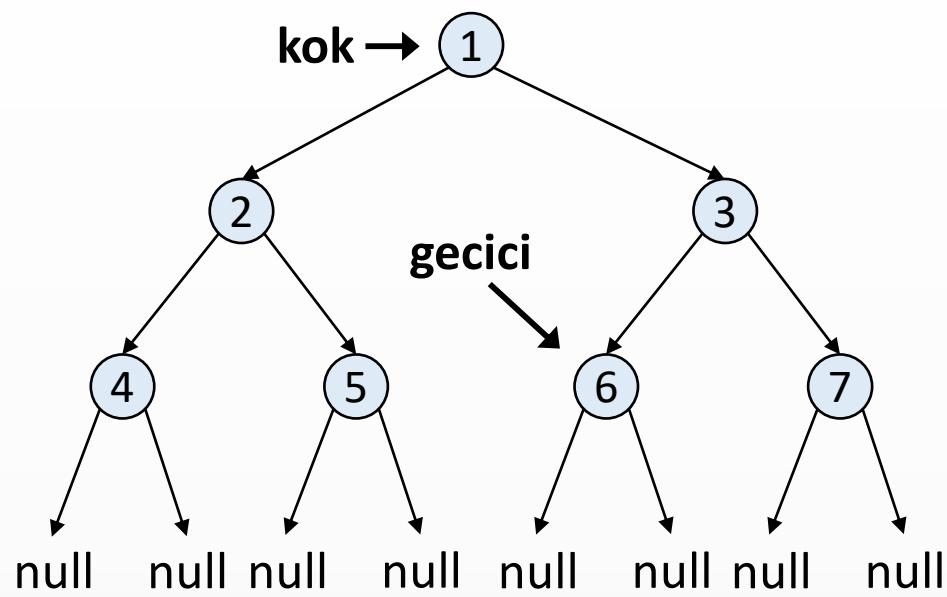
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
    if(gecici.sag != null) {  
        yigit.push(gecici.sag);  
    }  
    if(gecici.sol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



Yığıt

Cıktı: 1 2 4 5 3 6

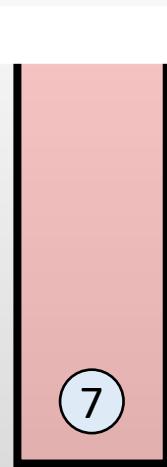
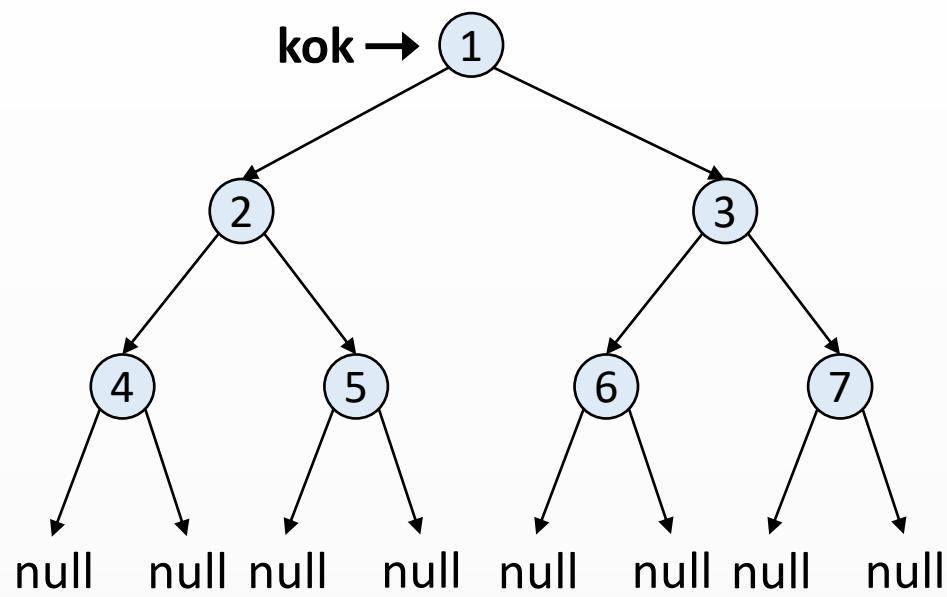
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
    System.out.print(gecici.veri + " ");  
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        yigit.push(gecici.sag);  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



Yığıt

Cıktı: 1 2 4 5 3 6

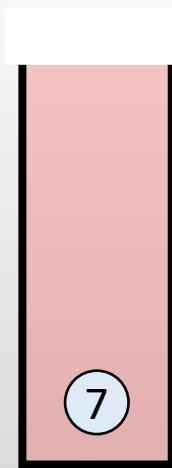
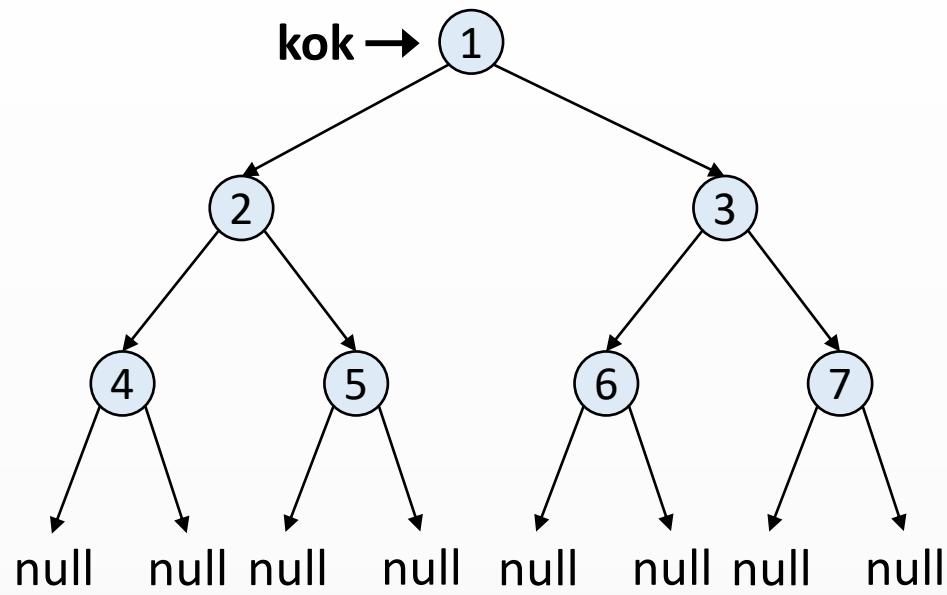
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    }  
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        yigit.push(gecici.sol);  
    }  
}
```



Yığıt

Cıktı: 1 2 4 5 3 6

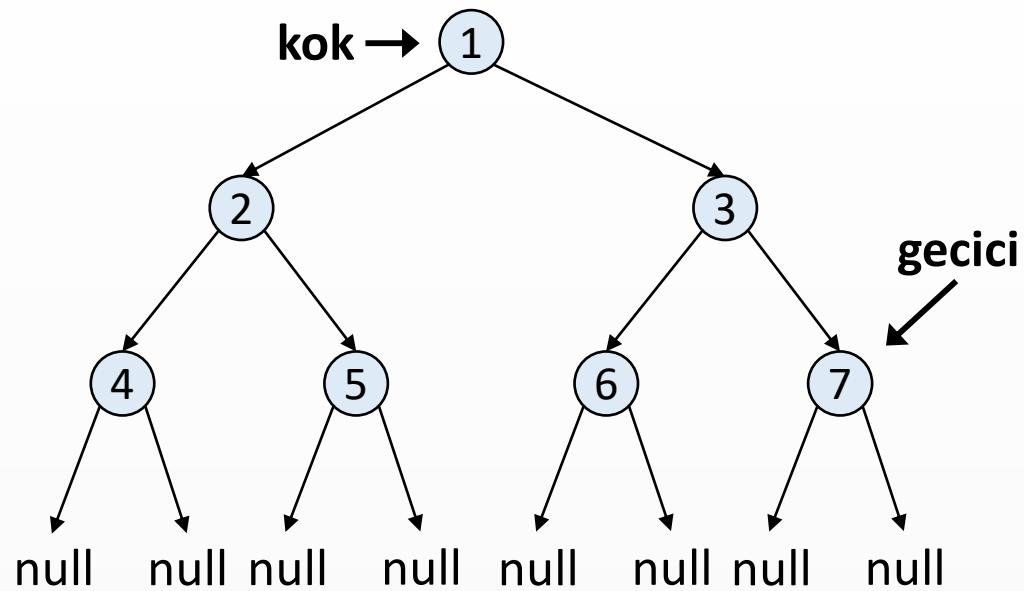
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
yigit.push(kok);  
→ while(!yigit.isEmpty()) {  
    AgacDugumu gecici = yigit.pop();  
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    }  
    if(gecici.sol != null) {  
        yigit.push(gecici.sol);  
 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



Yığıt

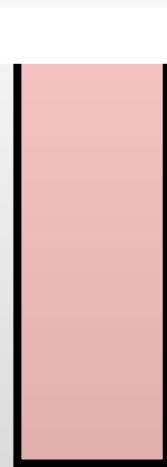
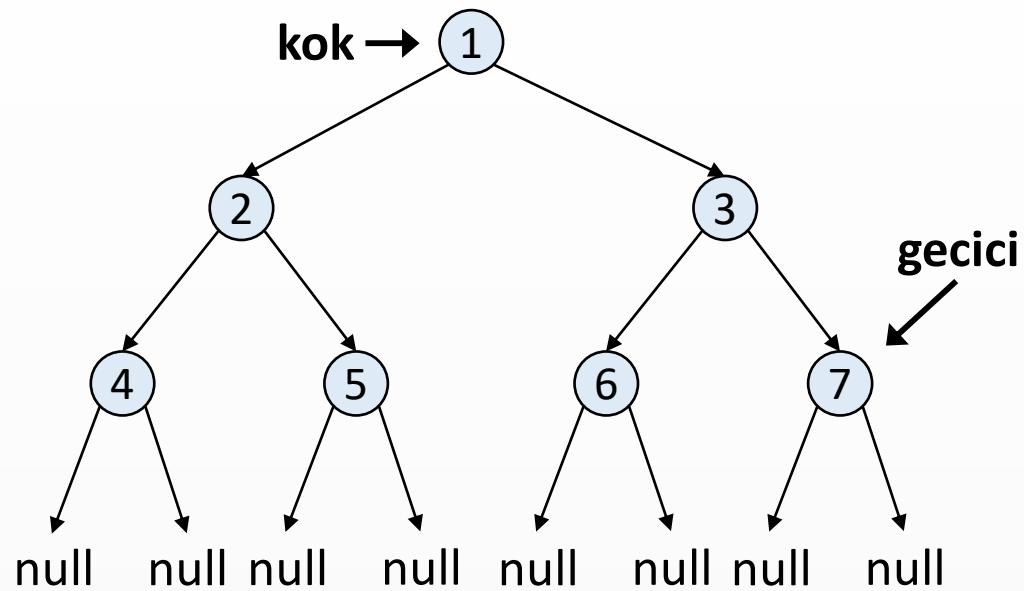
Cıktı: 1 2 4 5 3 6

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



Çıktı: 1 2 4 5 3 6

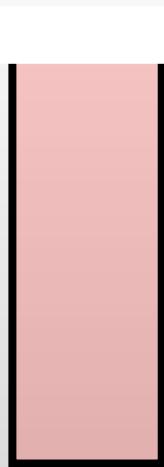
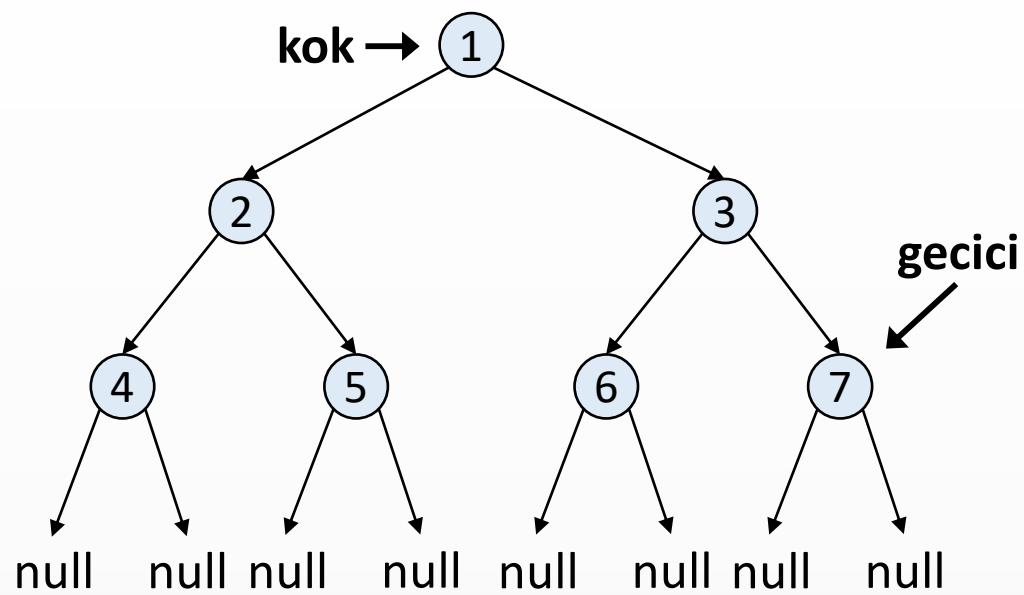
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
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    }  
}
```



Yığıt

Cıktı: 1 2 4 5 3 6 7

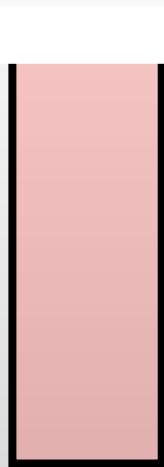
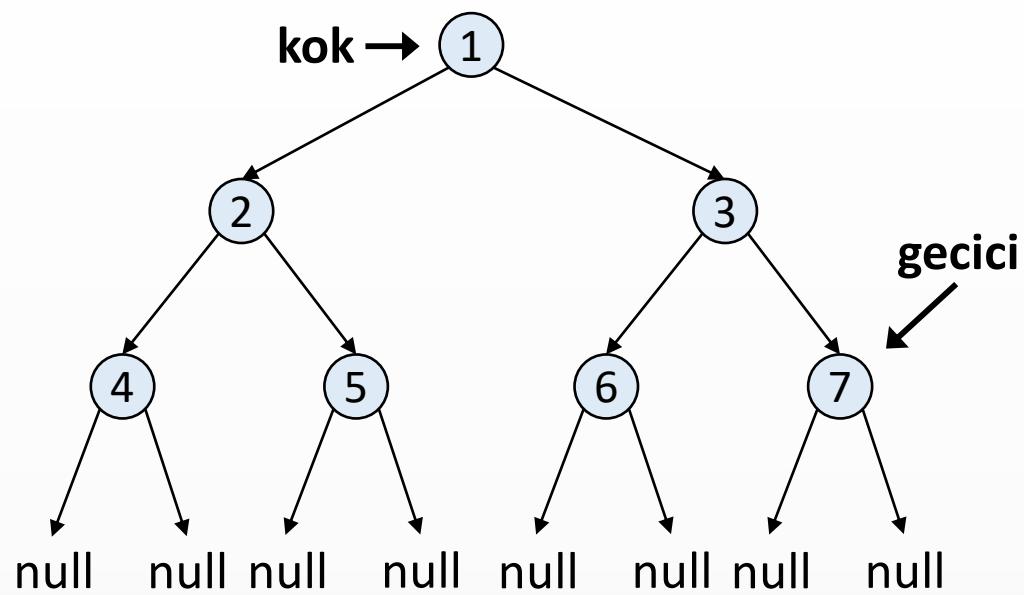
```
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Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty()) {  
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    }  
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```



Yığıt

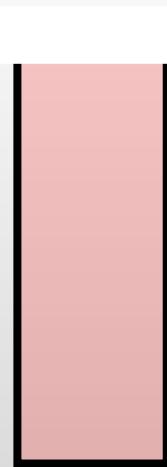
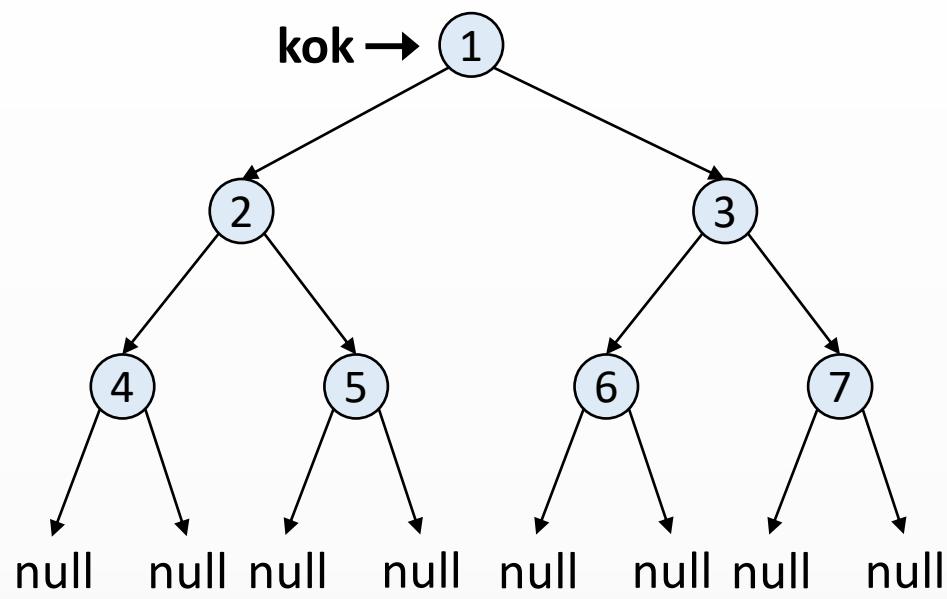
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Cıktı: 1 2 4 5 3 6 7

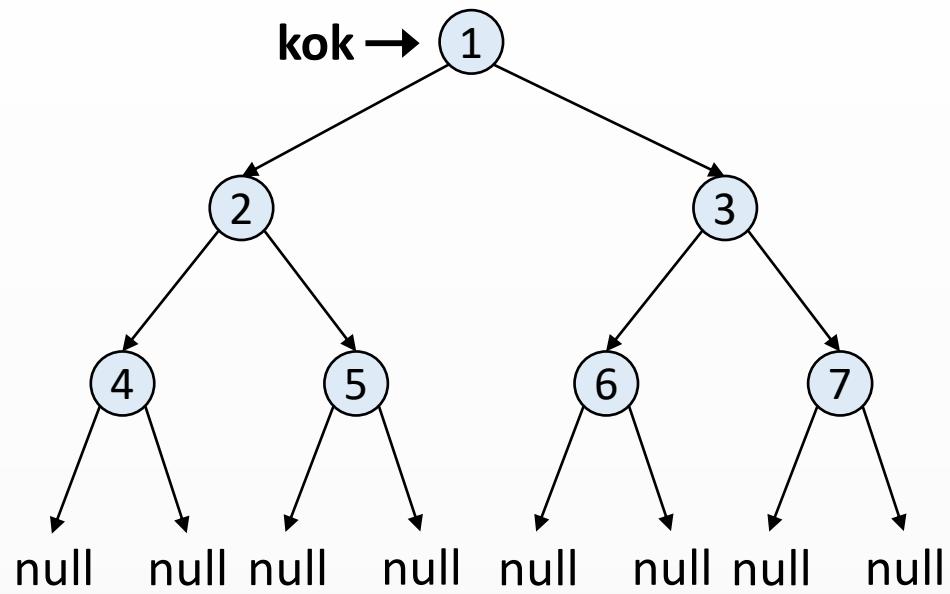
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Yığıt

Cıktı: 1 2 4 5 3 6 7

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Çıktı: 1 2 4 5 3 6 7



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        yigit.push(gecici.sol);
    }
}

```

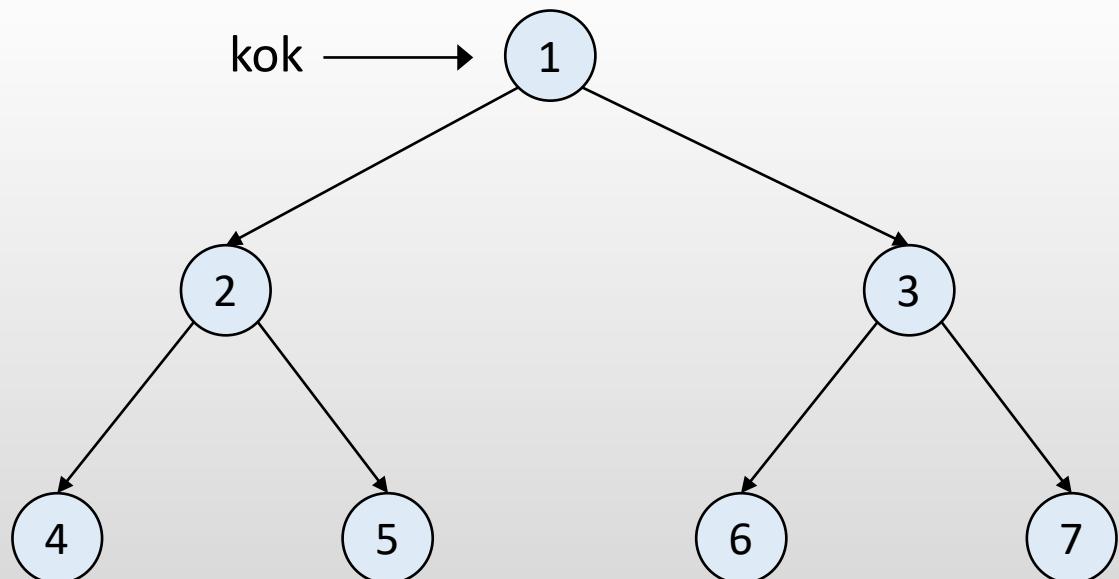


# Kök Ortada (Inorder) Dolasımı



# Kök Ortada (Inorder) Dolasımı

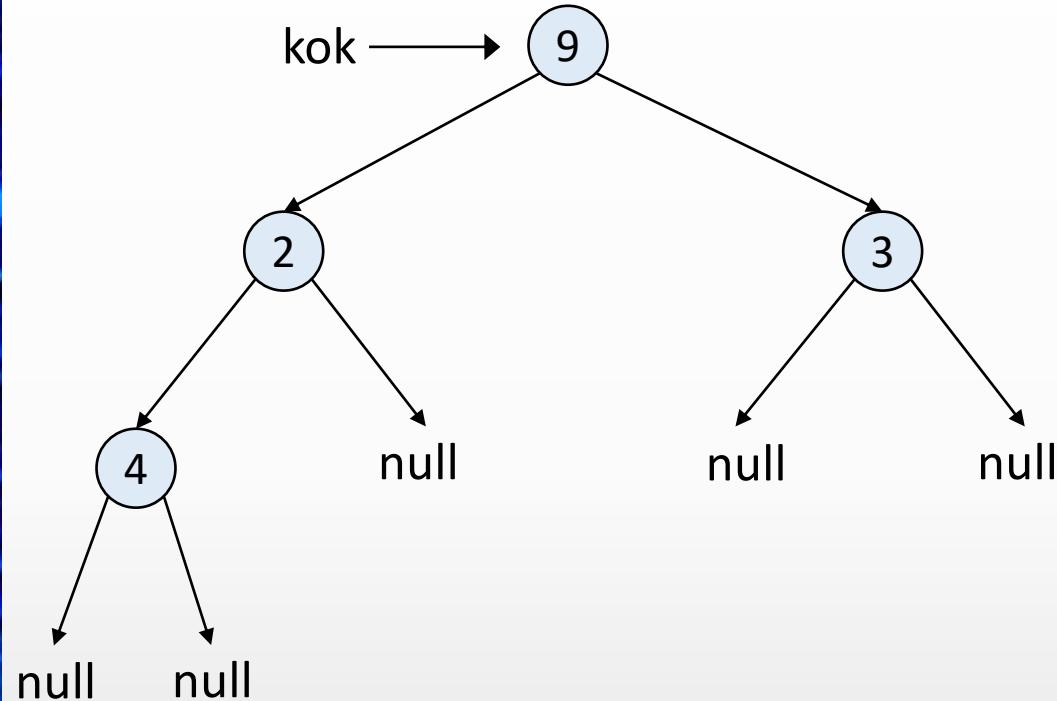
- Kök ortada olacak şekilde sol alt ağacı dolaş.
- Kök düğümü ziyaret et.
- Kök ortada olacak şekilde sağ alt ağacı dolaş.



Kök ortada dolasımı: 4 2 5 1 6 3 7



## Çağırma Yığıtı (Call Stack)



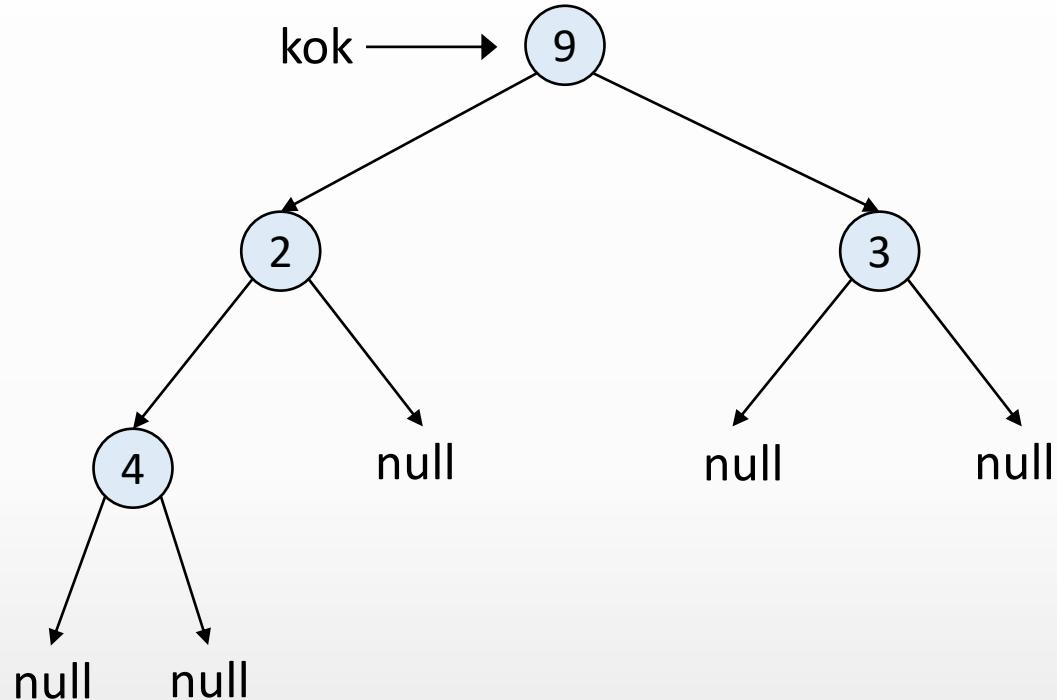
Çıktı:

Metot Çağrımı	Satır Numarası	Kök

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



## Çağırma Yığıtı (Call Stack)



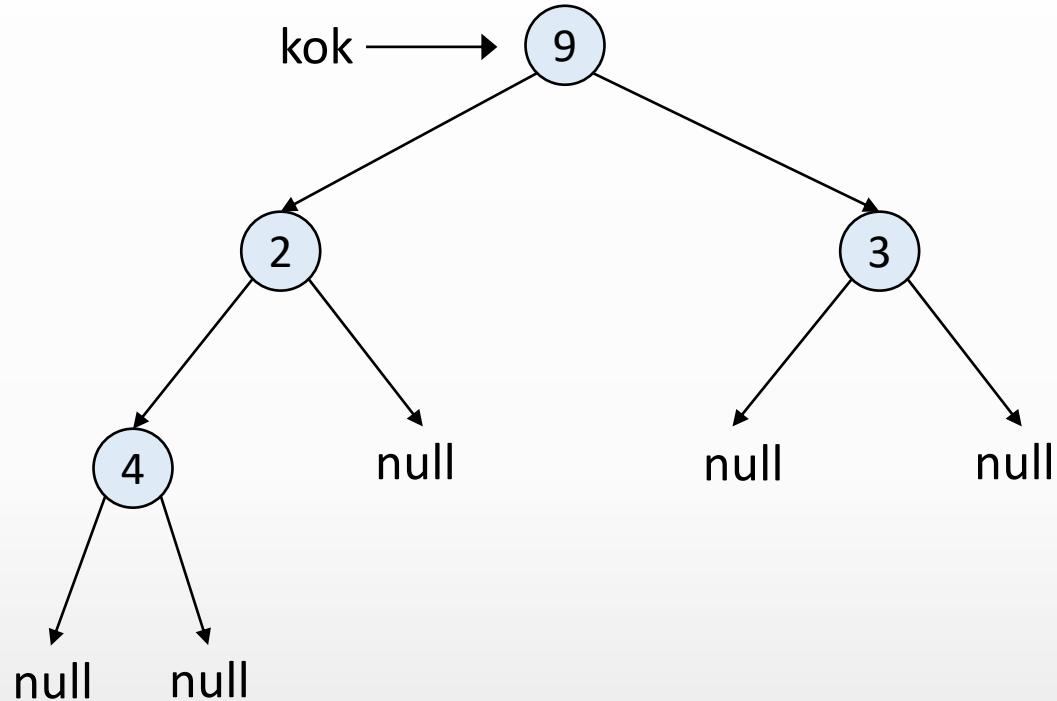
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()		9

Çıktı:

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



## Çağırma Yığıtı (Call Stack)



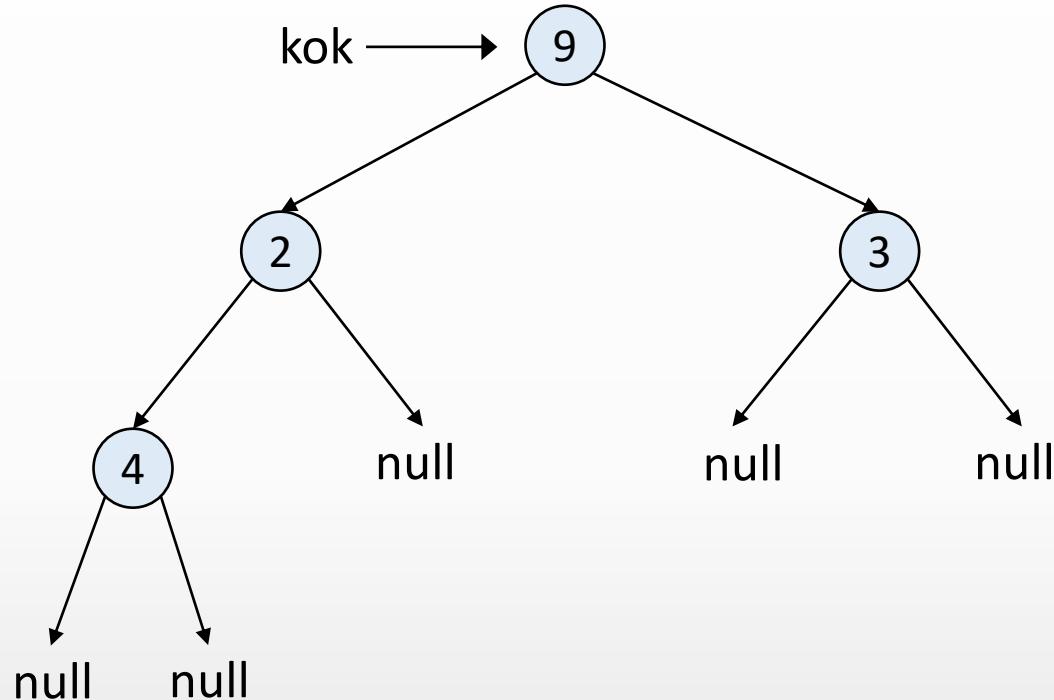
Metot Çağrımı	Satır Numarası	Kök
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Çıktı:

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8 }
```



## Çağırma Yığıtı (Call Stack)



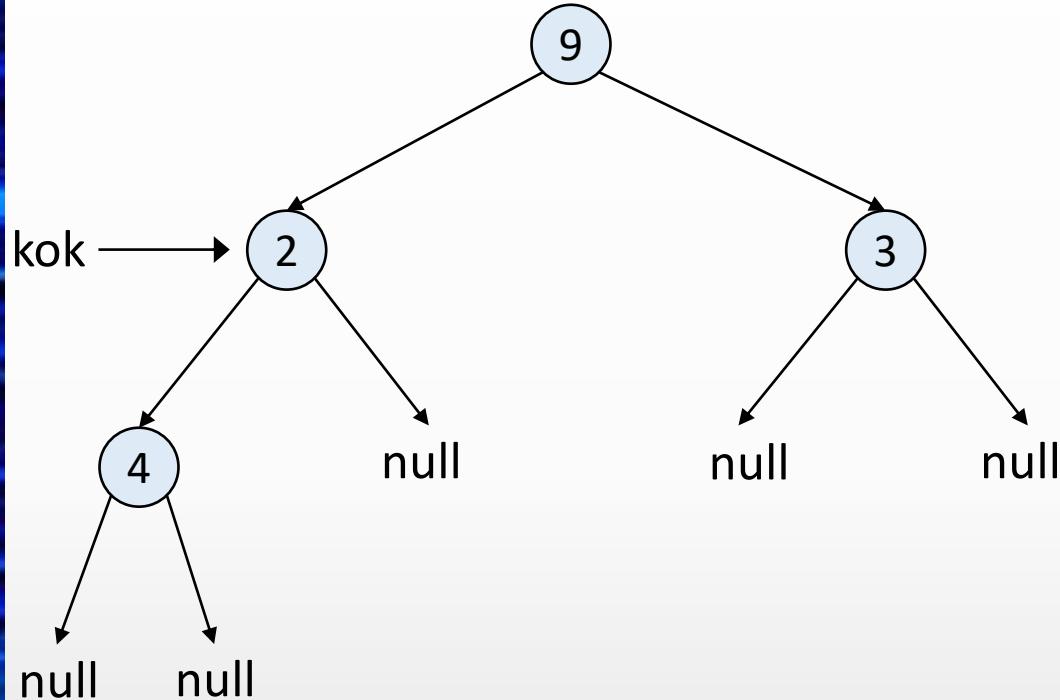
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

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)



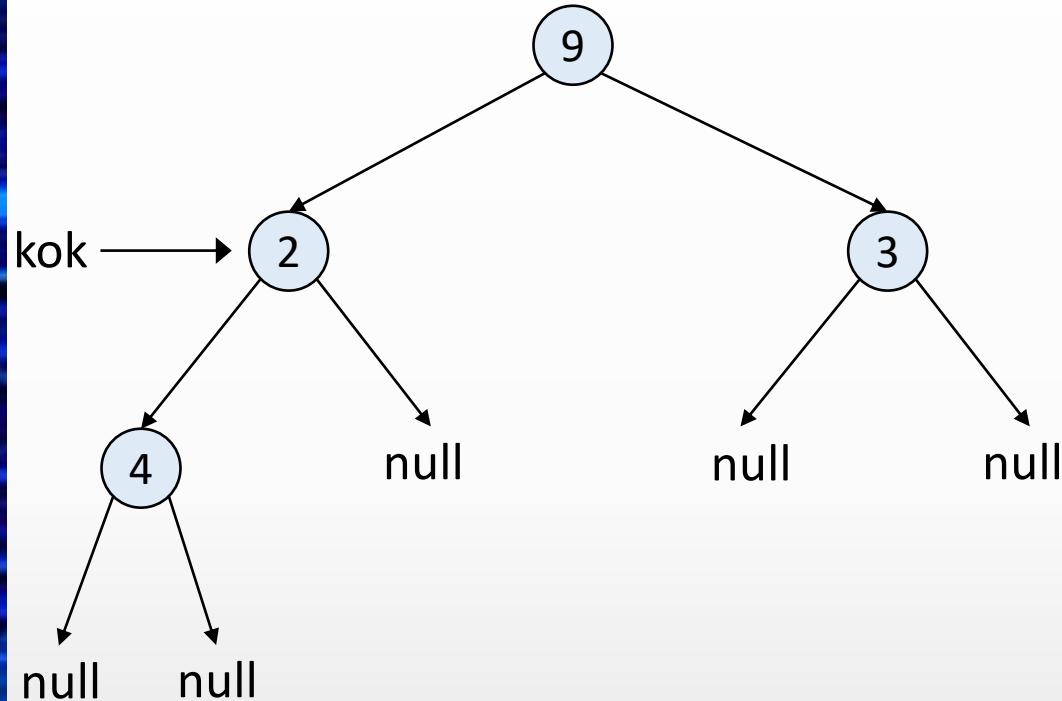
Çıktı:

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);  
6     System.out.print(kok.veri + " ");  
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8 }
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## Çağırma Yığıtı (Call Stack)



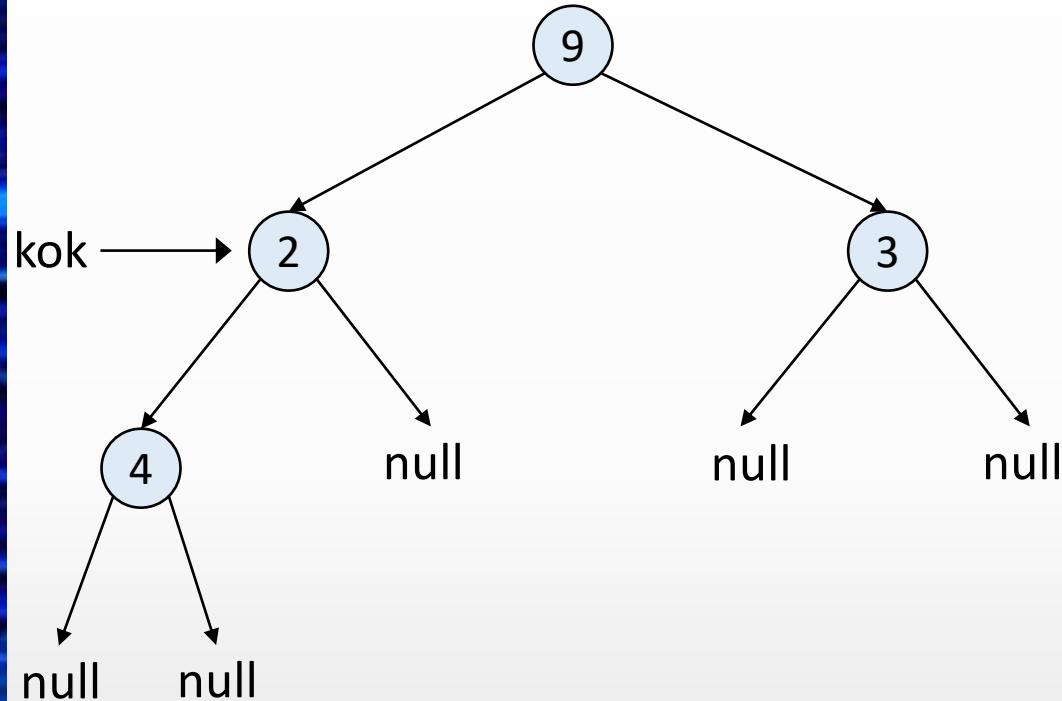
Çıktı:

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

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



## Çağırma Yığıtı (Call Stack)



Çıktı:



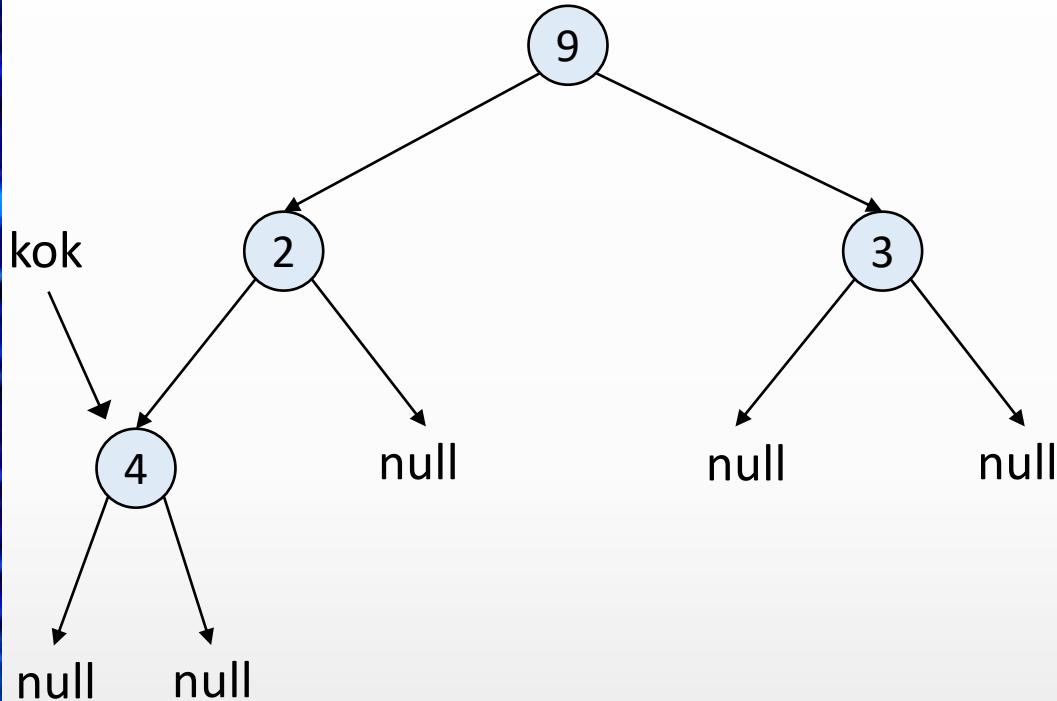
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2



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



## Çağırma Yığıtı (Call Stack)



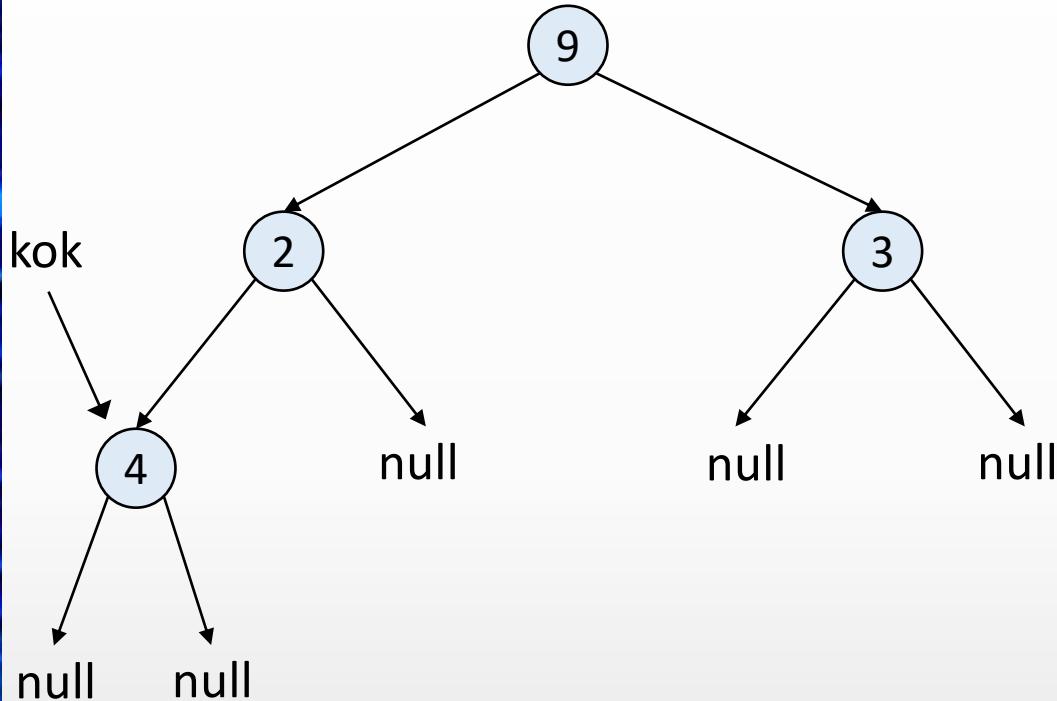
Çıktı:

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



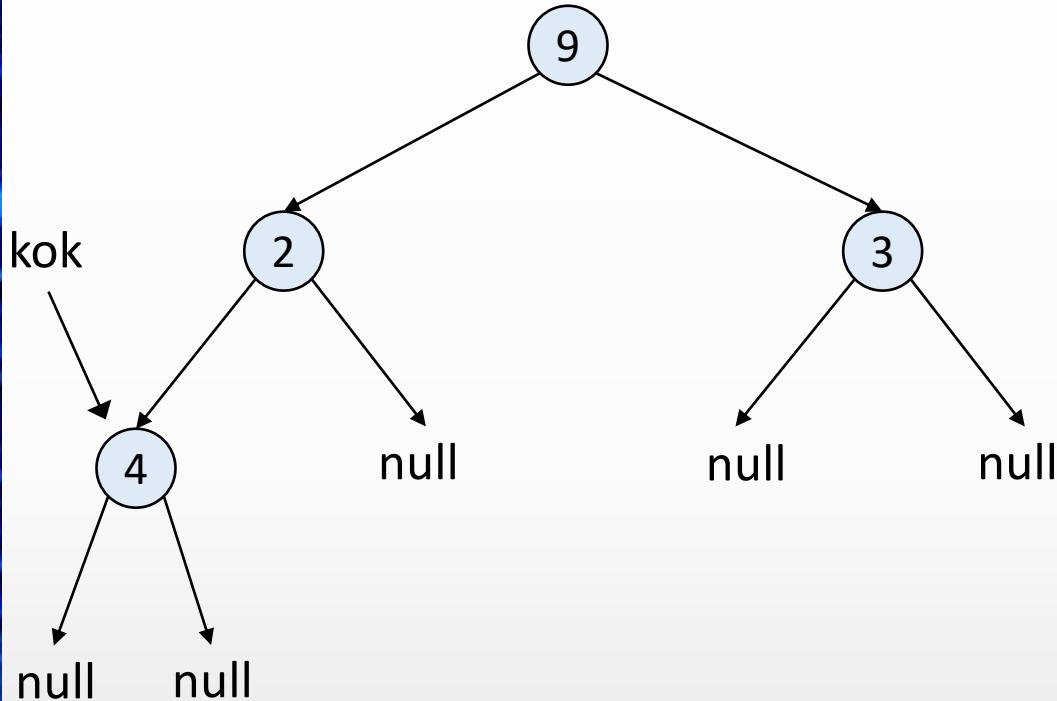
Çıktı:

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

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



## Çağırma Yığıtı (Call Stack)



Çıktı:



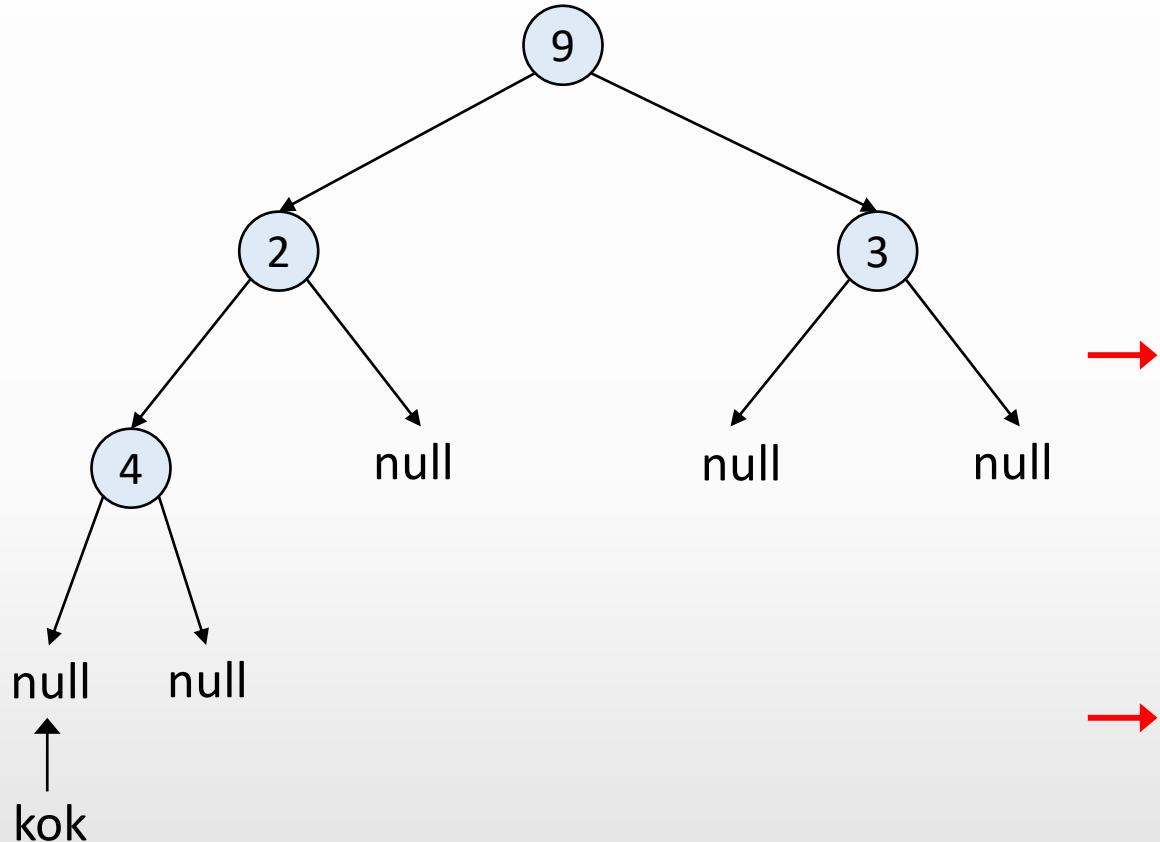
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



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



## Çağırma Yığıtı (Call Stack)

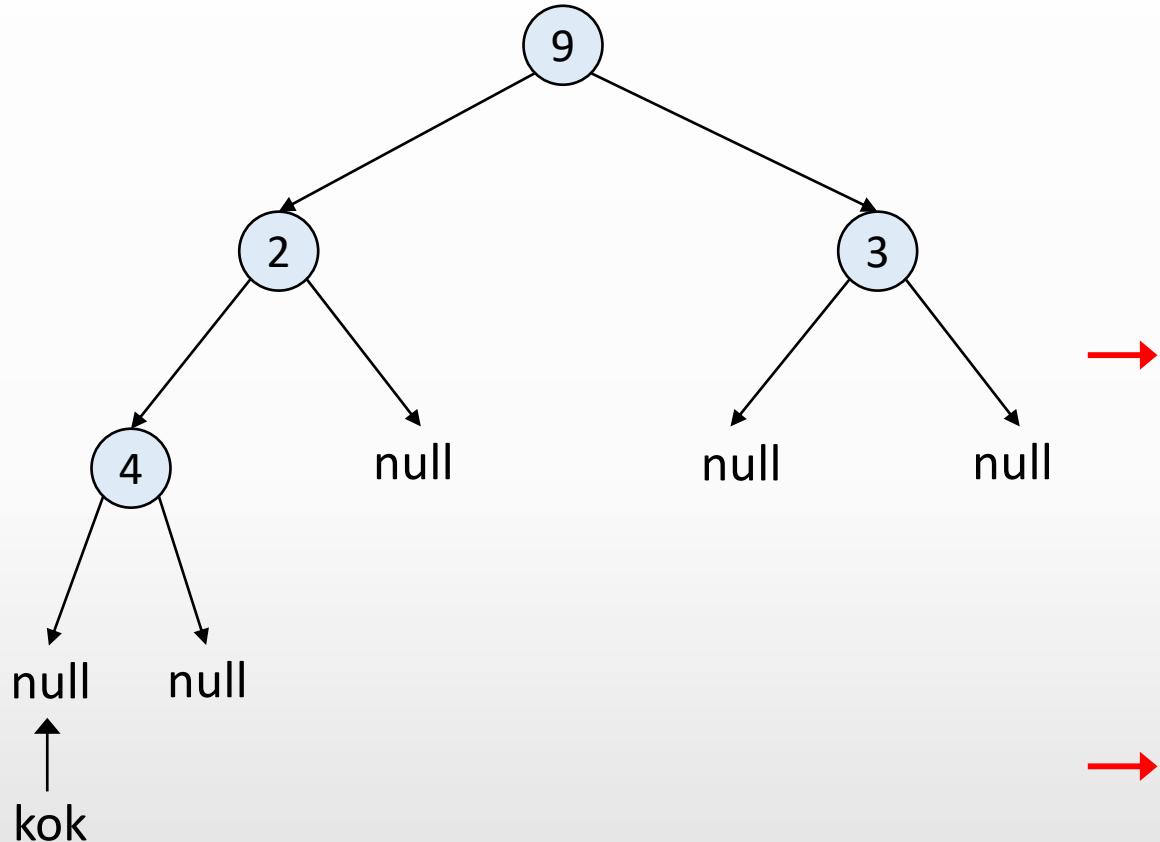


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

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



## Çağırma Yığıtı (Call Stack)



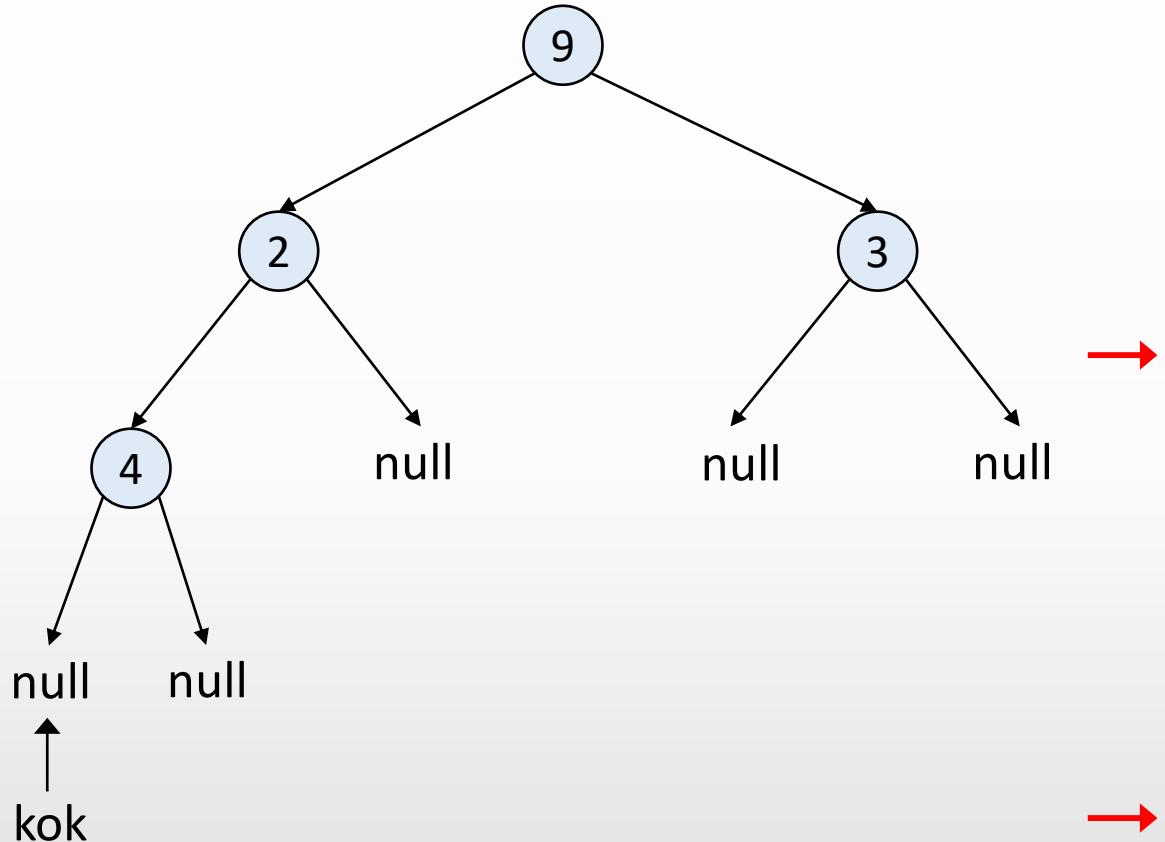
Çıktı:

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

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



## Çağırma Yığıtı (Call Stack)

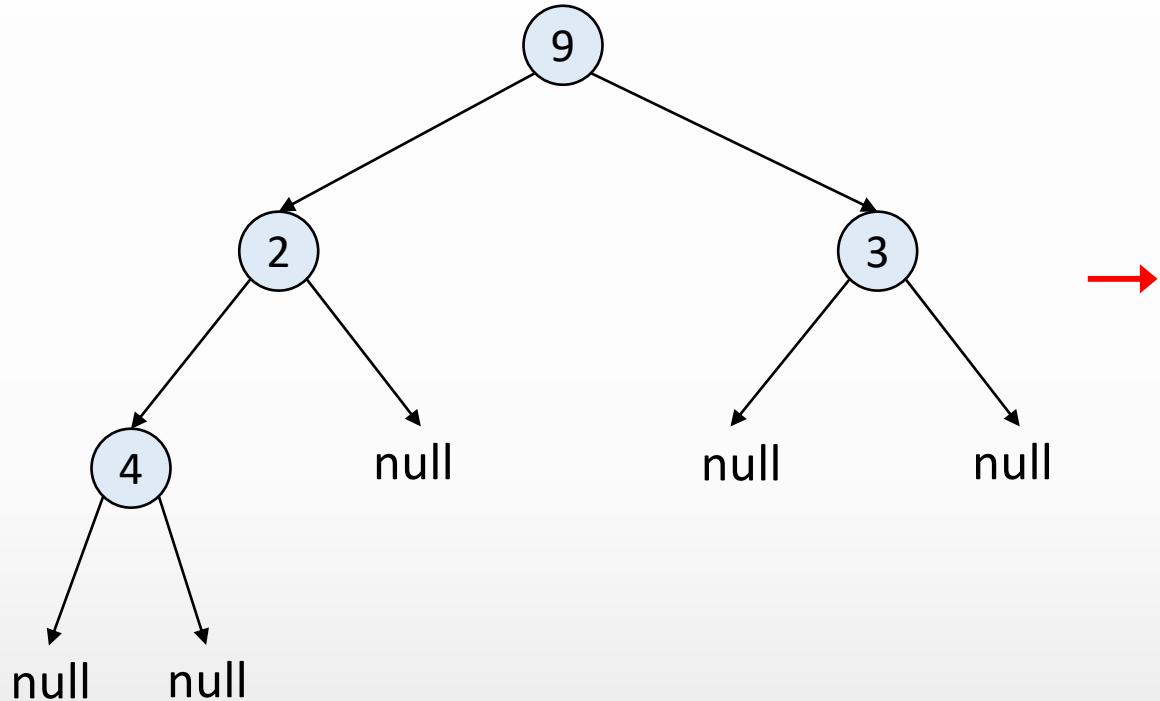


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4
kokOrtada()		null

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



## Çağırma Yığıtı (Call Stack)



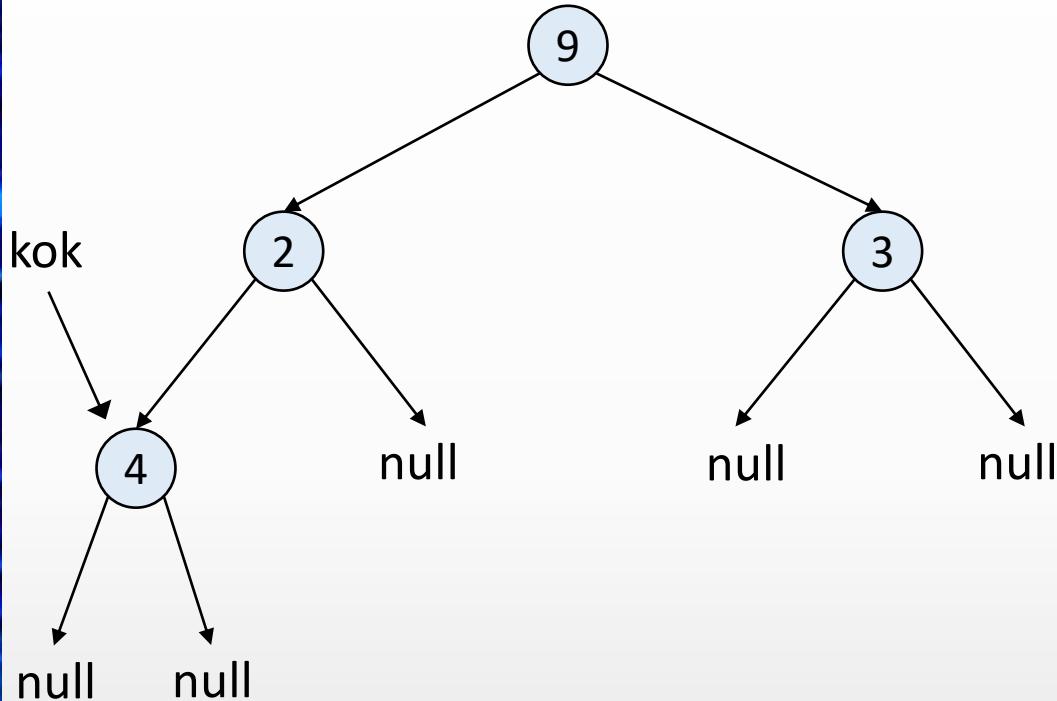
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4

Çıktı:

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



## Çağırma Yığıtı (Call Stack)



Çıktı:



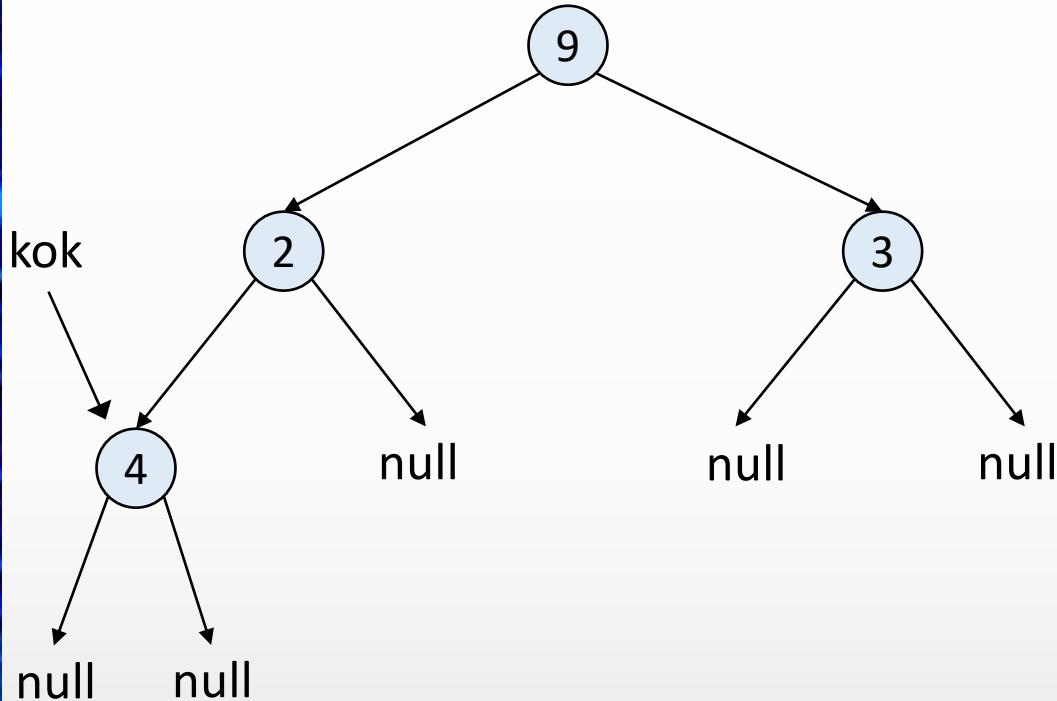
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	5	4



```
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)



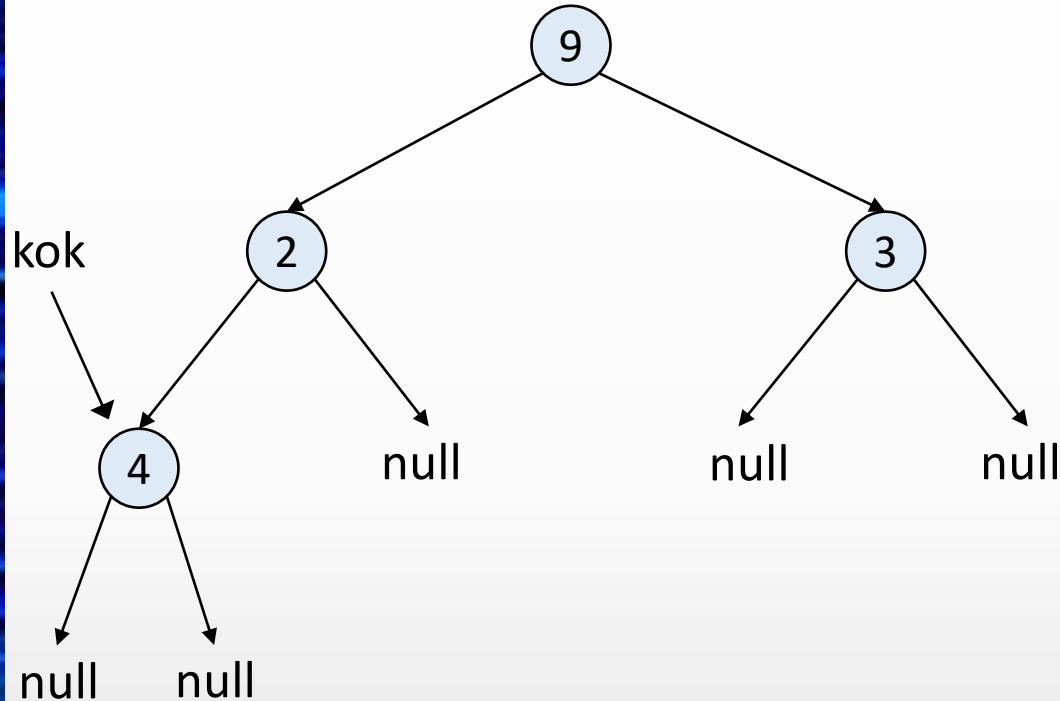
Cıktı: 4

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

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



## Çağırma Yığıtı (Call Stack)



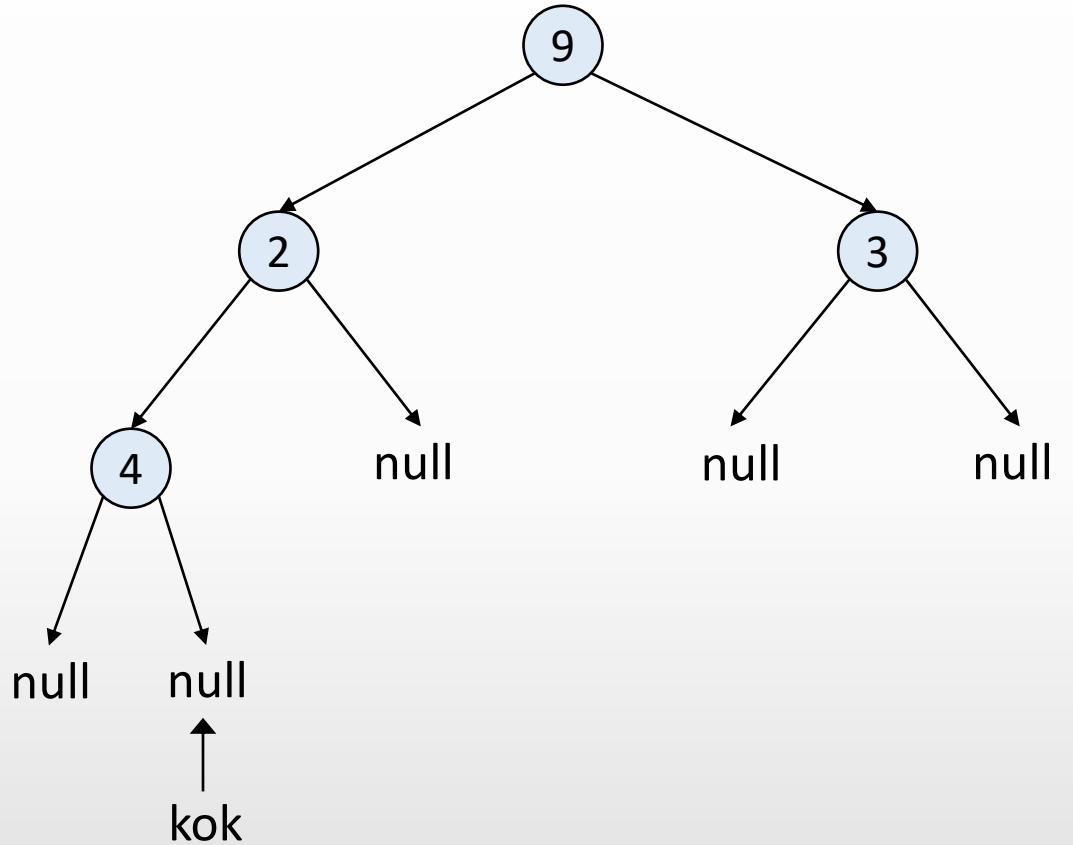
Cıktı: 4

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

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



## Çağırma Yığıtı (Call Stack)



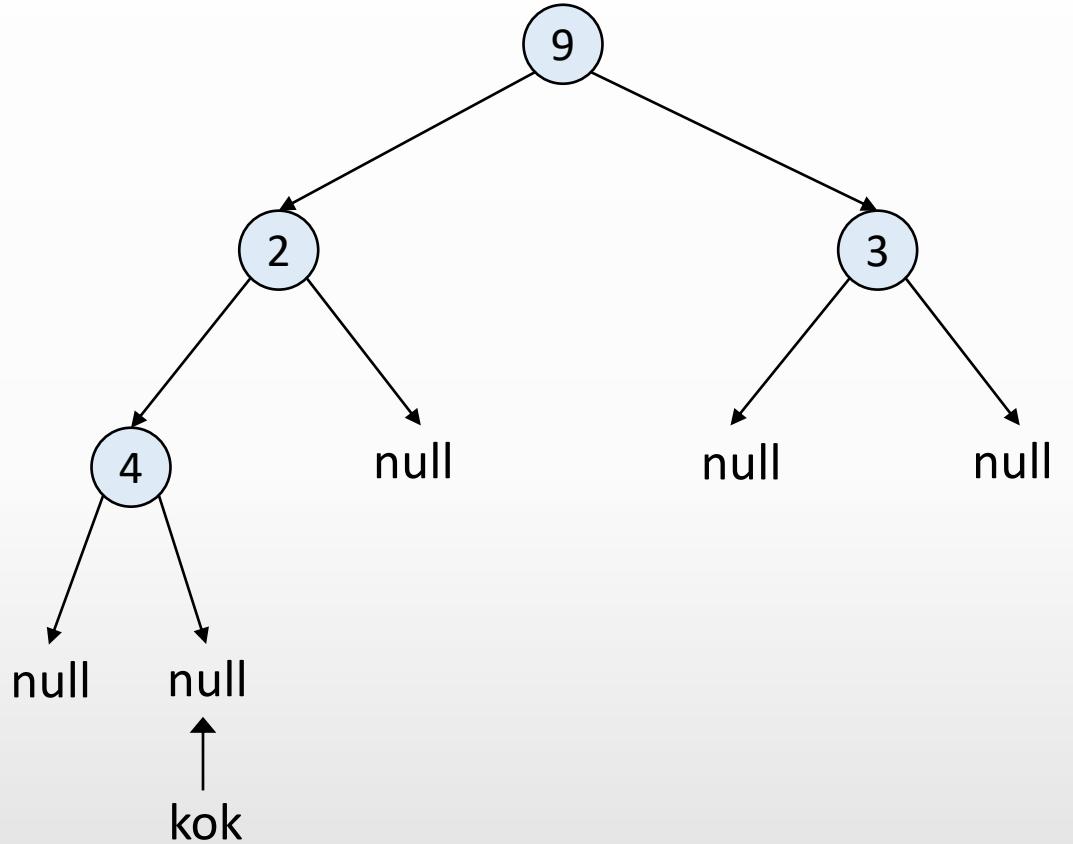
Çıktı: 4

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



Cıktı: 4



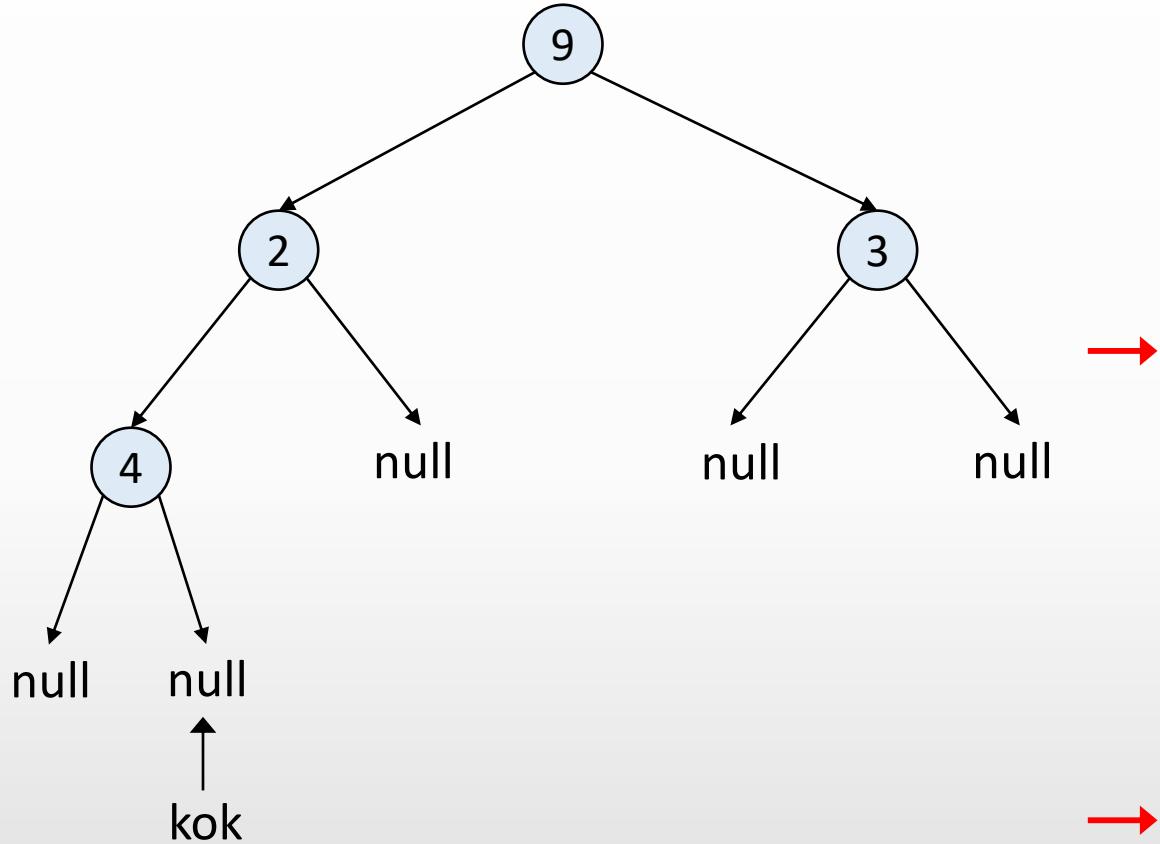
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4
kokOrtada()		null



```
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)

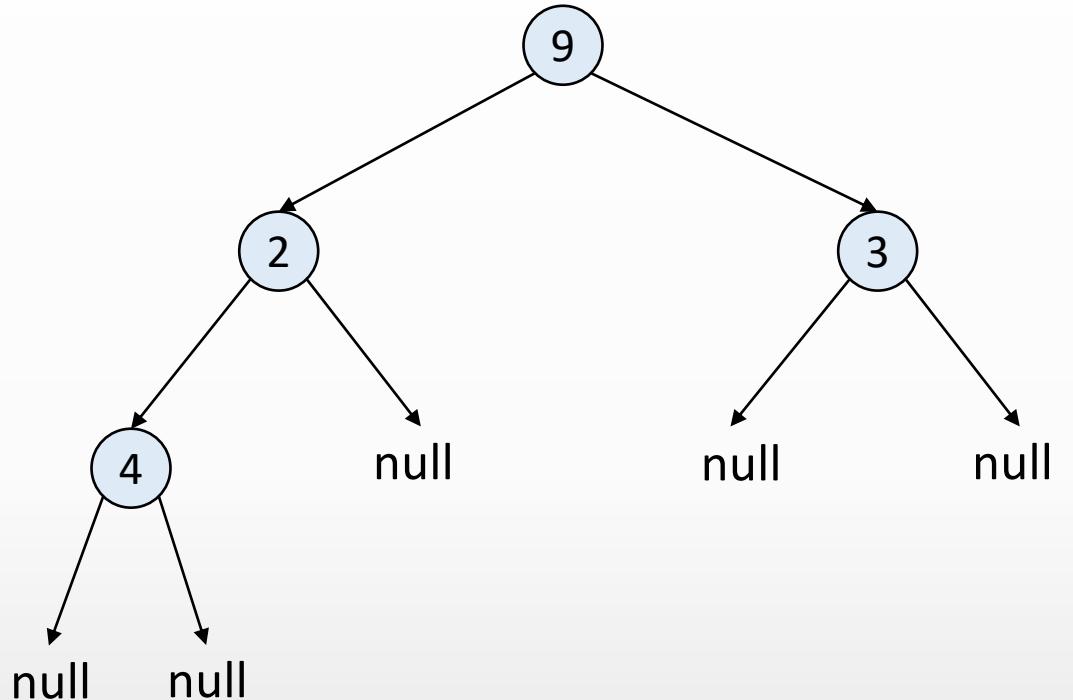


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4
kokOrtada()		null

```
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)



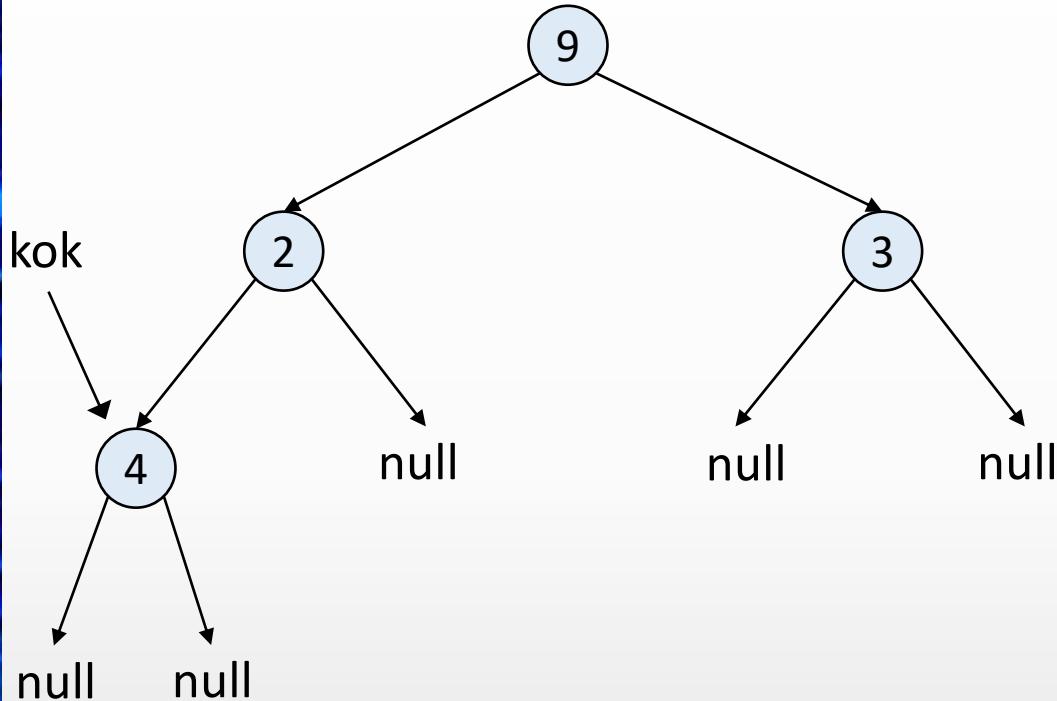
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2
kokOrtada()	7	4

Çıktı: 4

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



## Çağırma Yığıtı (Call Stack)



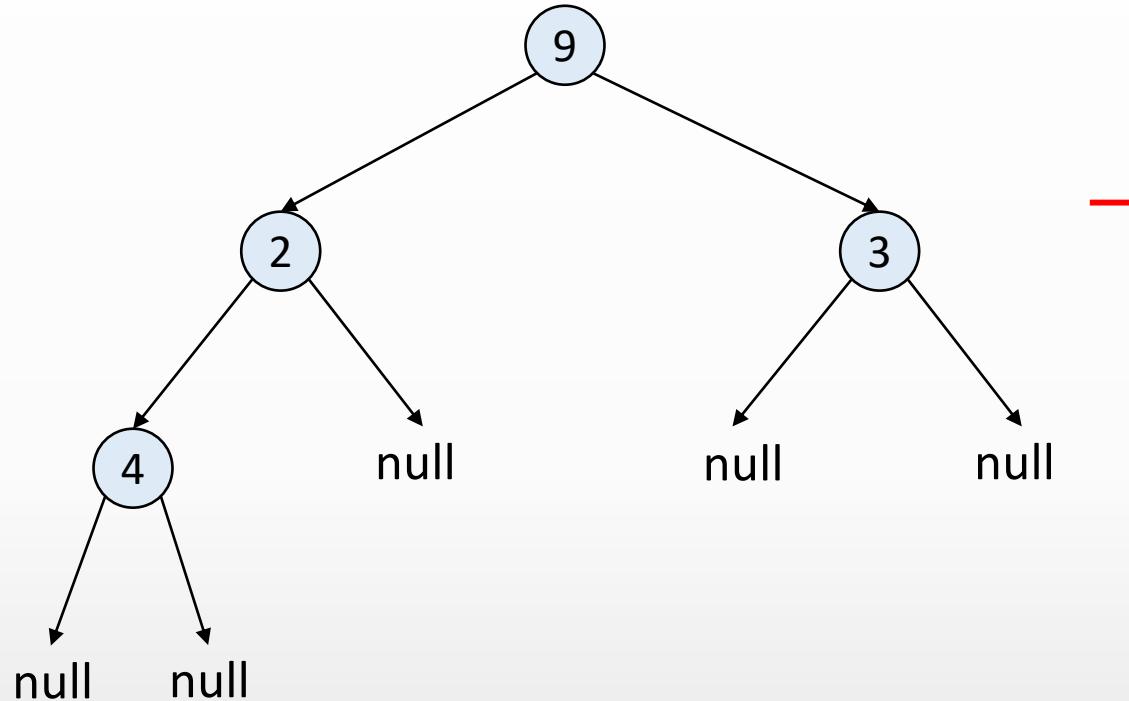
Cıktı: 4

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

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



## Çağırma Yığıtı (Call Stack)



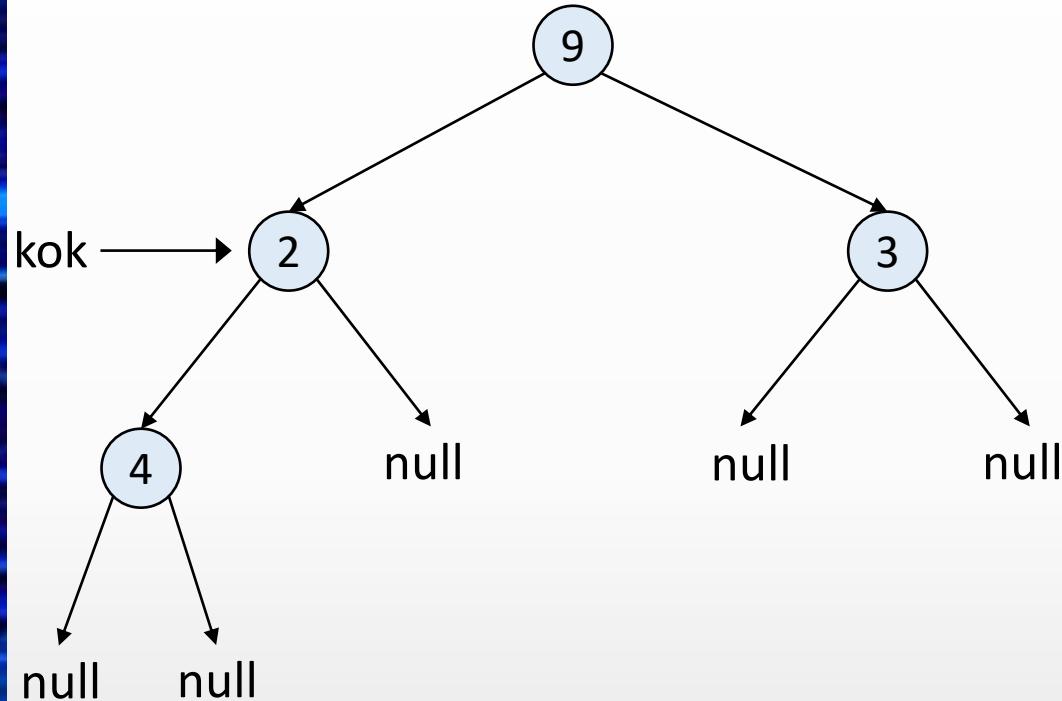
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2

Çıktı: 4

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



## Çağırma Yığıtı (Call Stack)

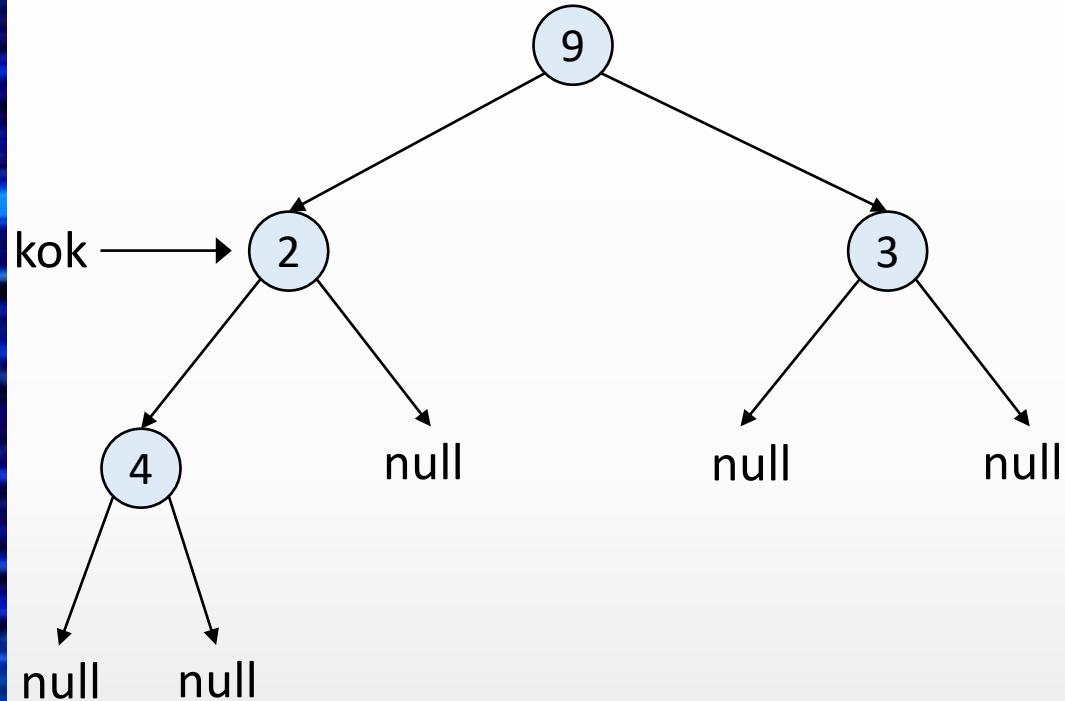


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	5	2

```
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)



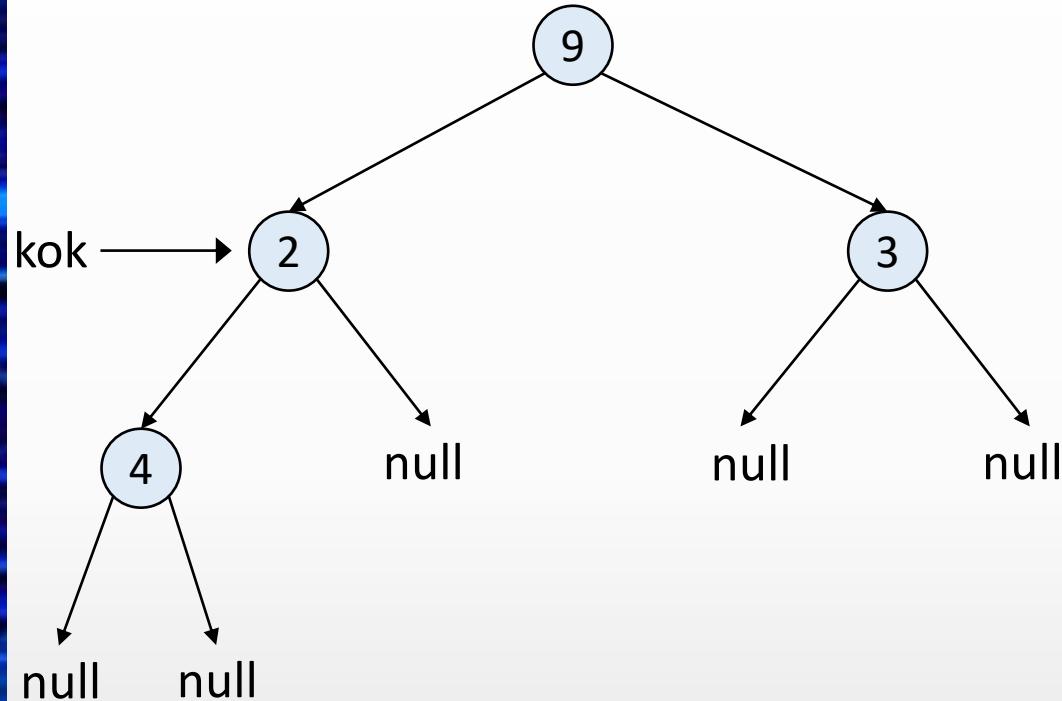
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



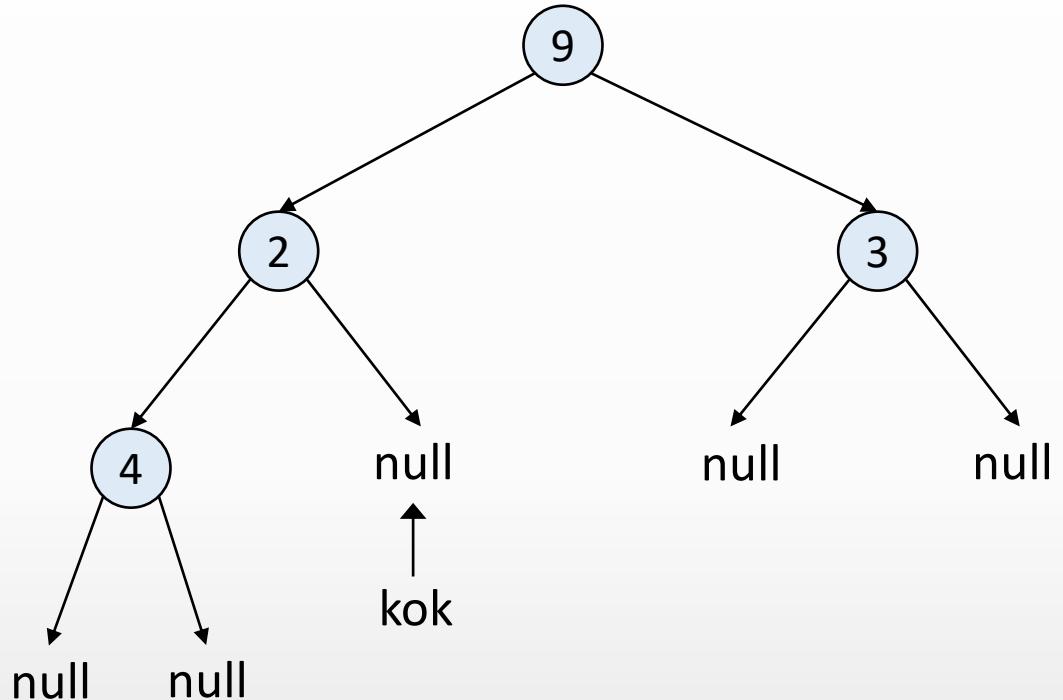
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



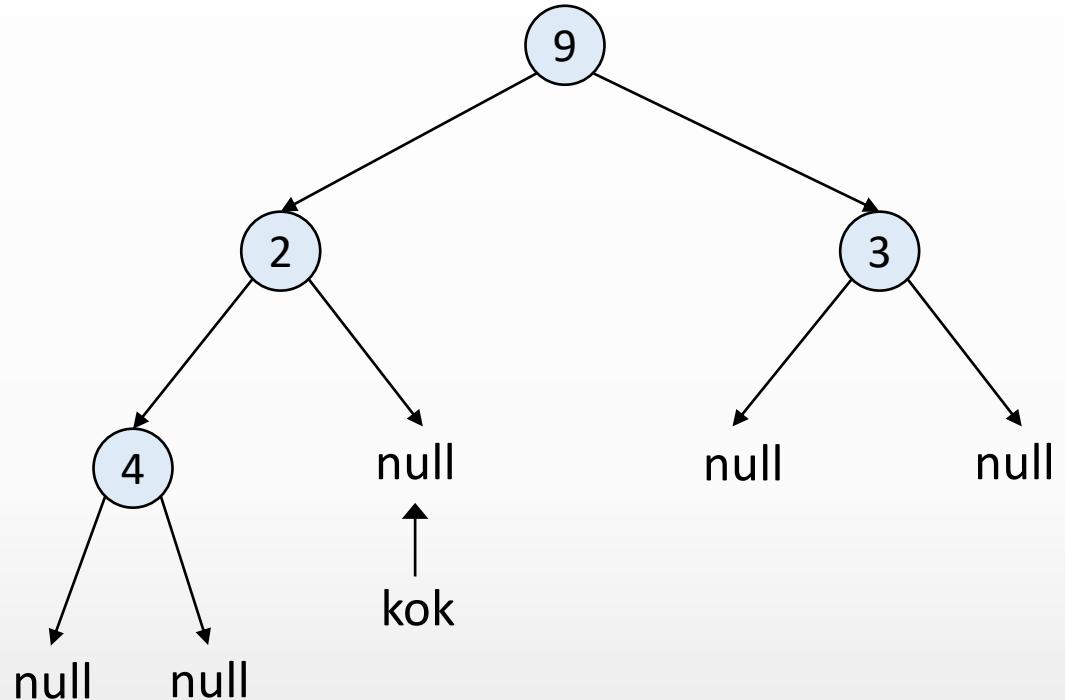
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



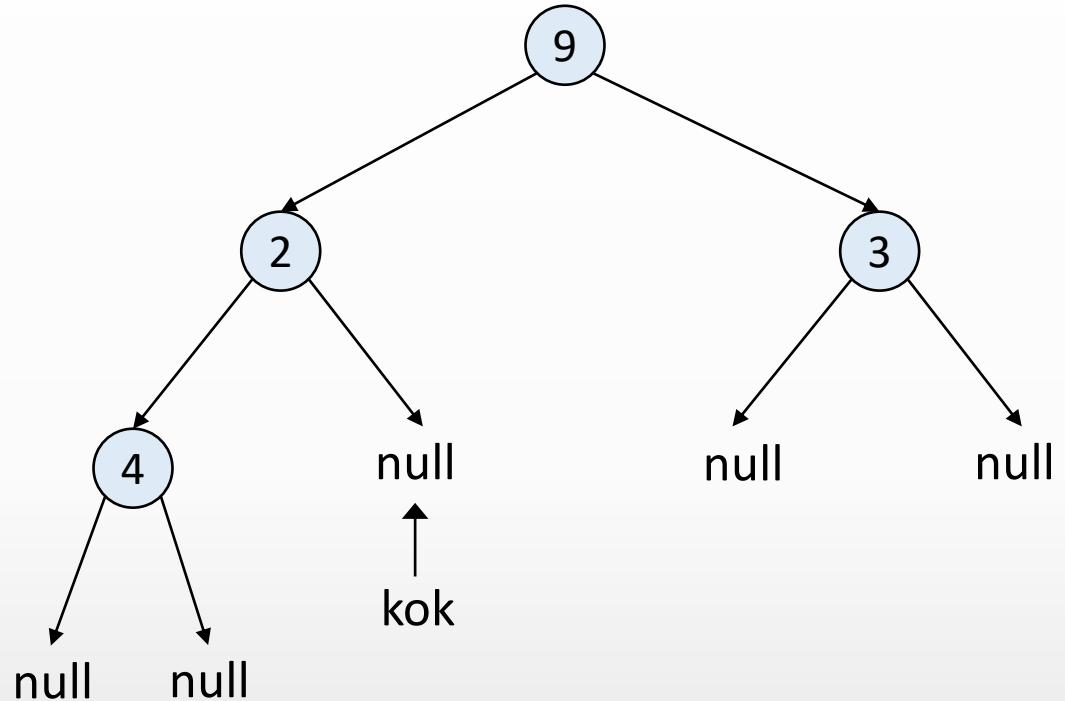
Cıktı: 4 2

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

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2



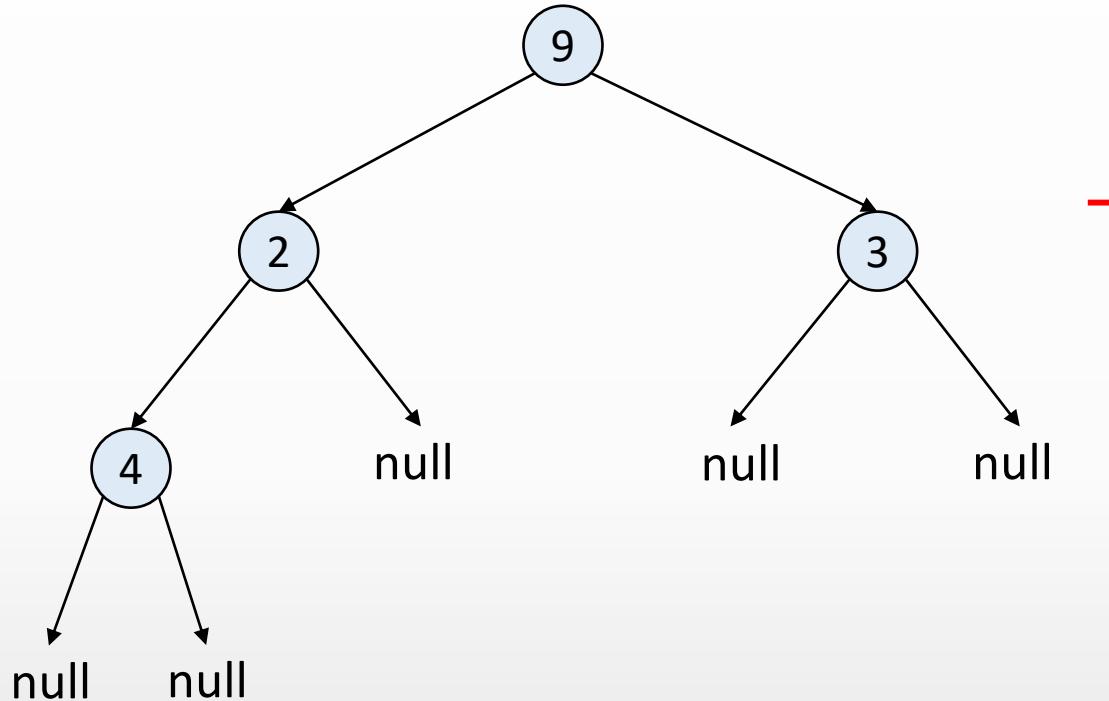
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2
kokOrtada()		null



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



## Çağırma Yığıtı (Call Stack)



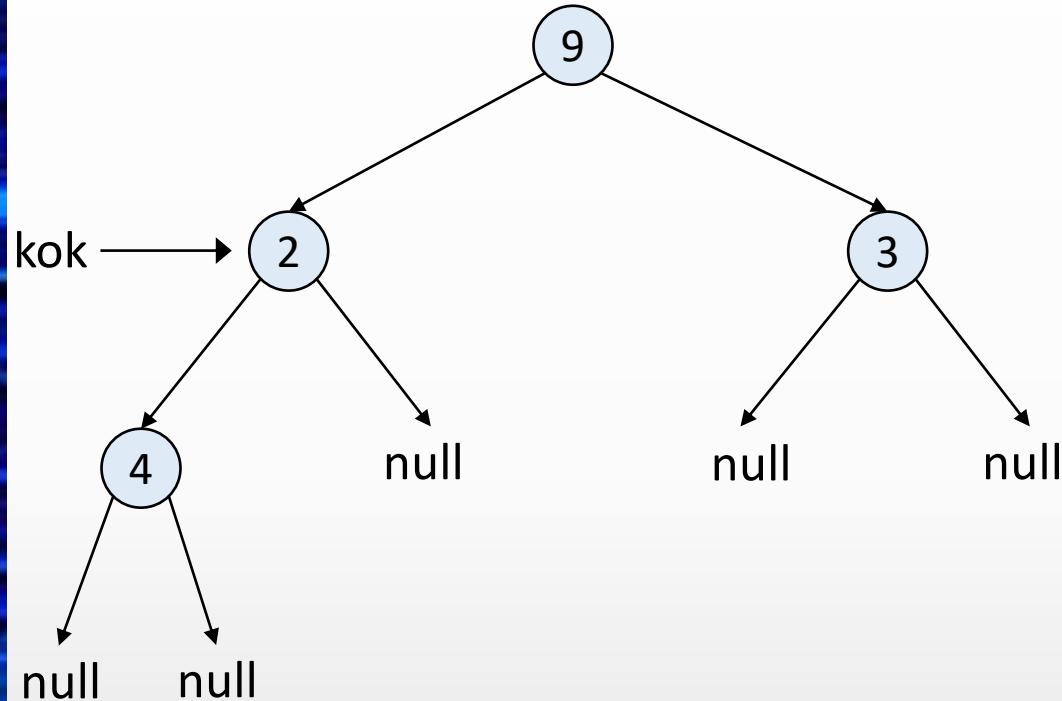
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9
kokOrtada()	7	2

Cıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2



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

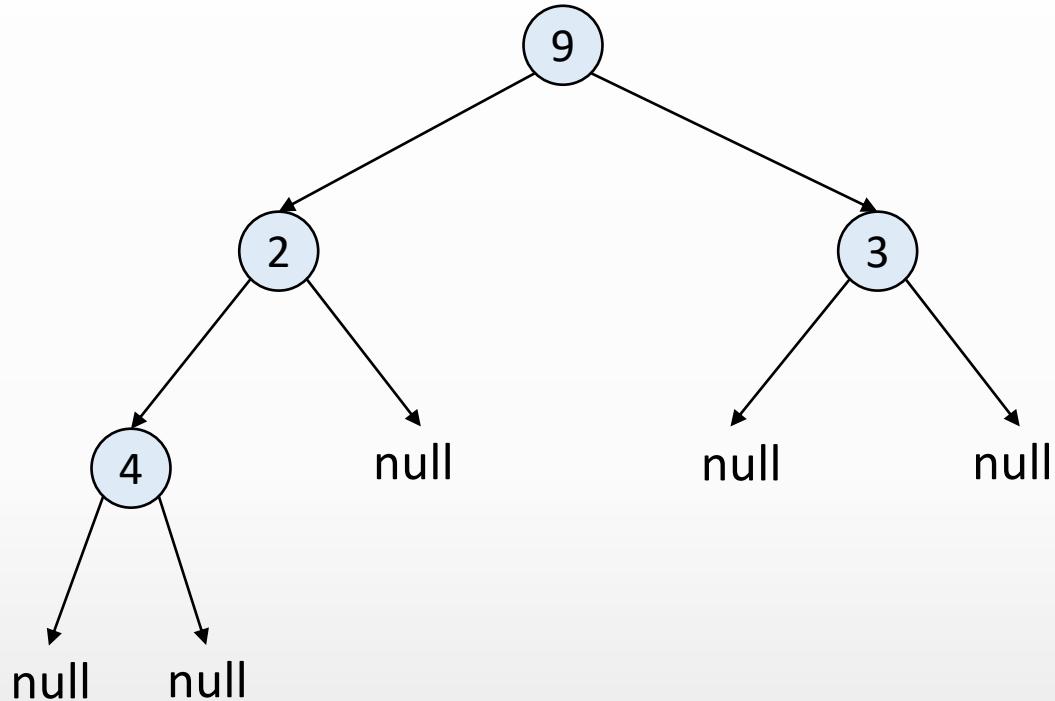


```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
4     }  
5     kokOrtada(kok.sol);  
6     System.out.print(kok.veri + " ");  
7     kokOrtada(kok.sag);  
8 }
```



### Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

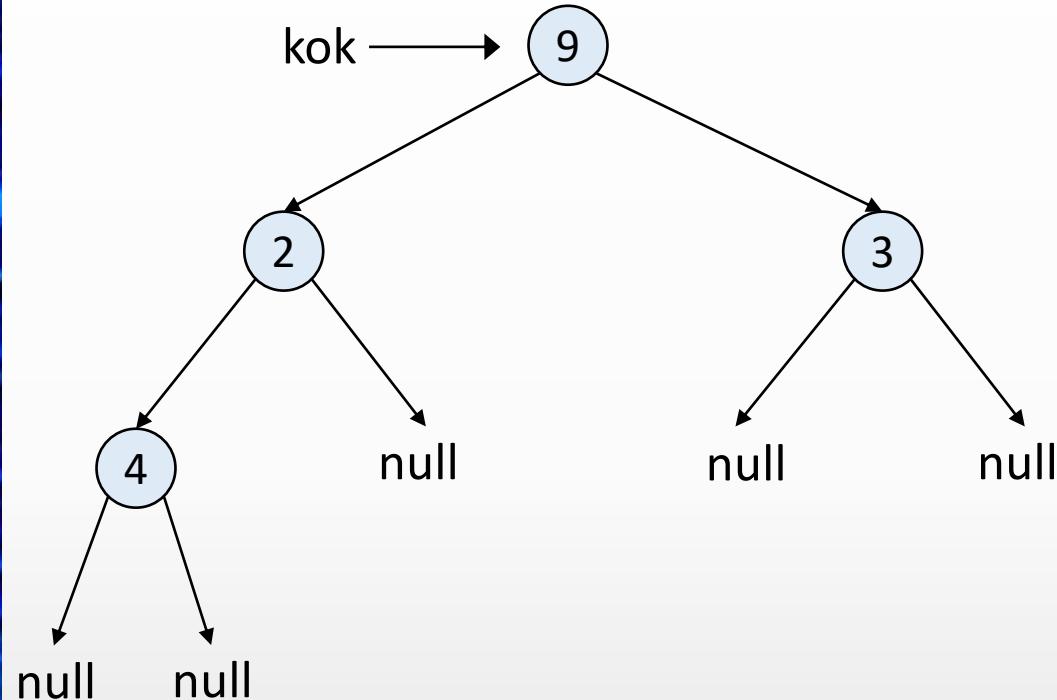


Cıktı: 4 2

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



### Çağırma Yığıtı (Call Stack)



Cıktı: 4 2

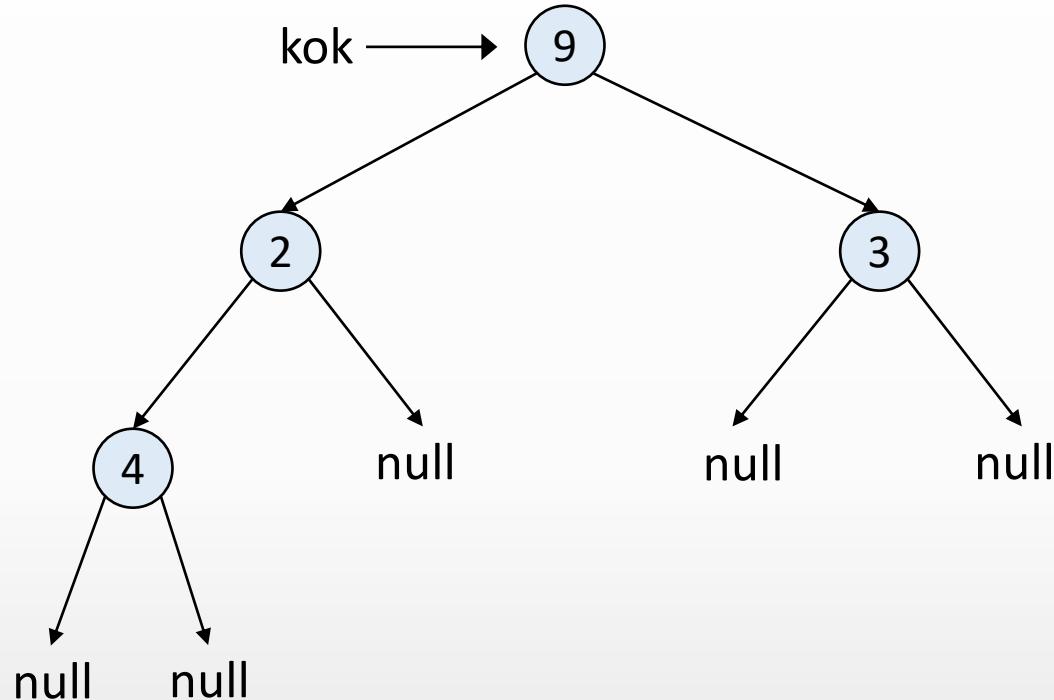
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	5	9

→

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



## Çağırma Yığıtı (Call Stack)



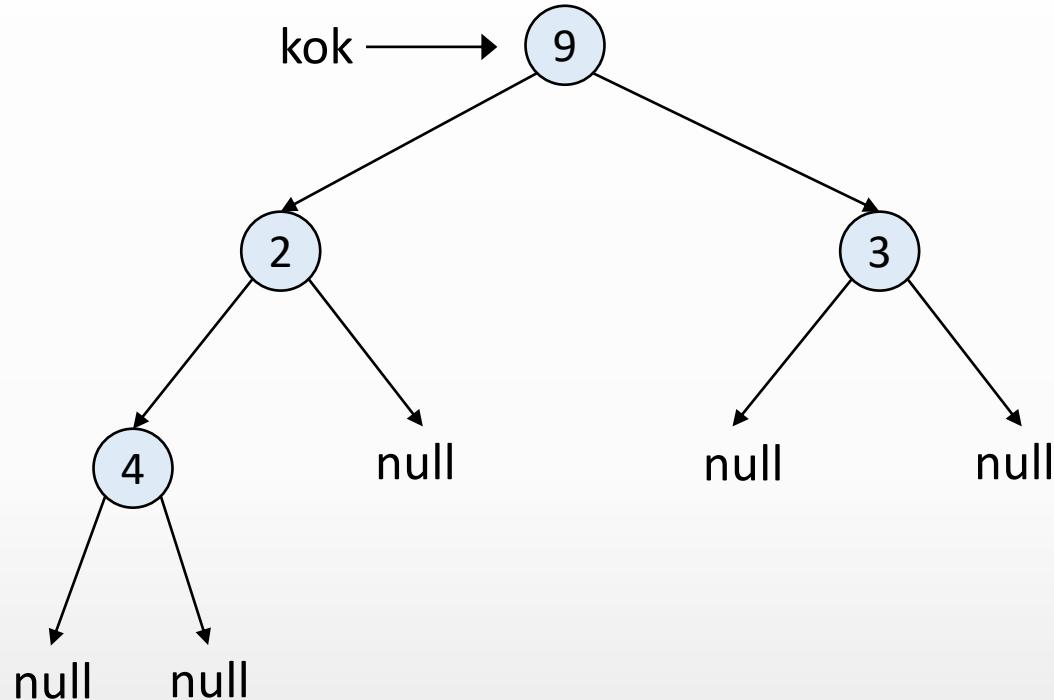
Cıktı: 4 2 9

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

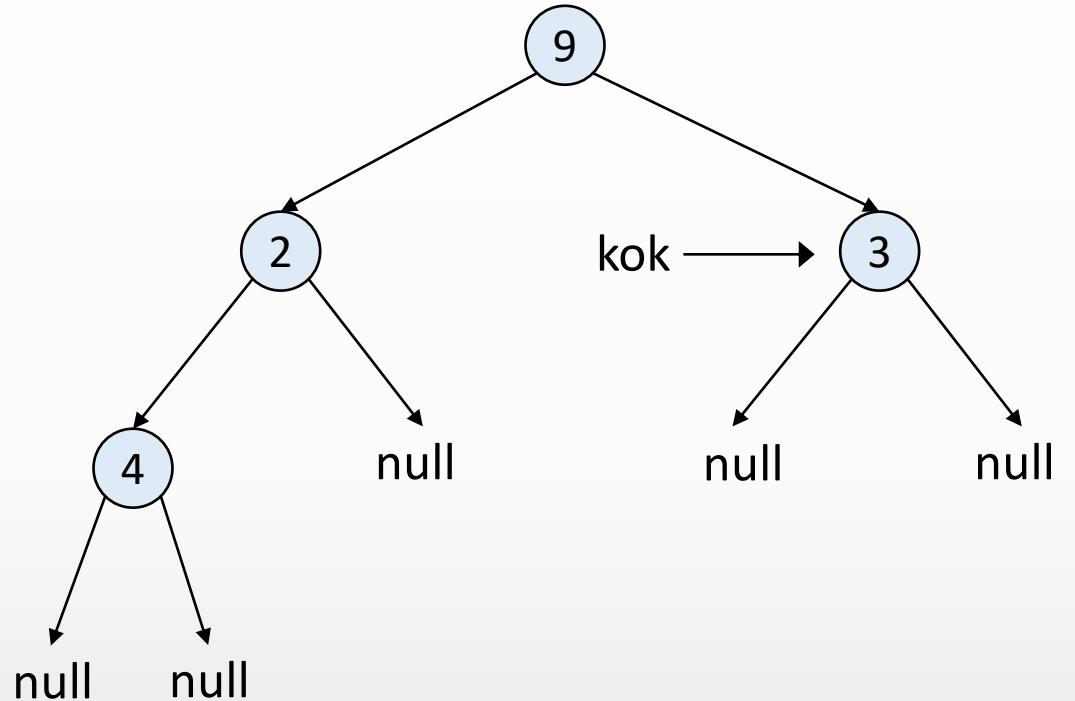
Cıktı: 4 2 9



```
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)



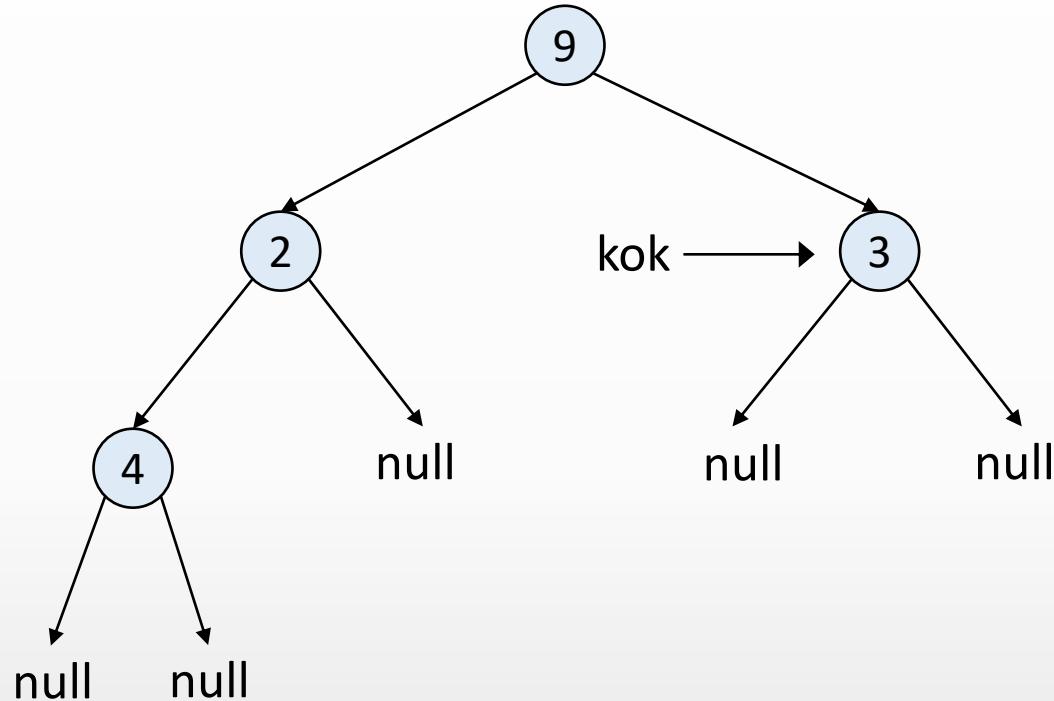
Cıktı: 4 2 9

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)



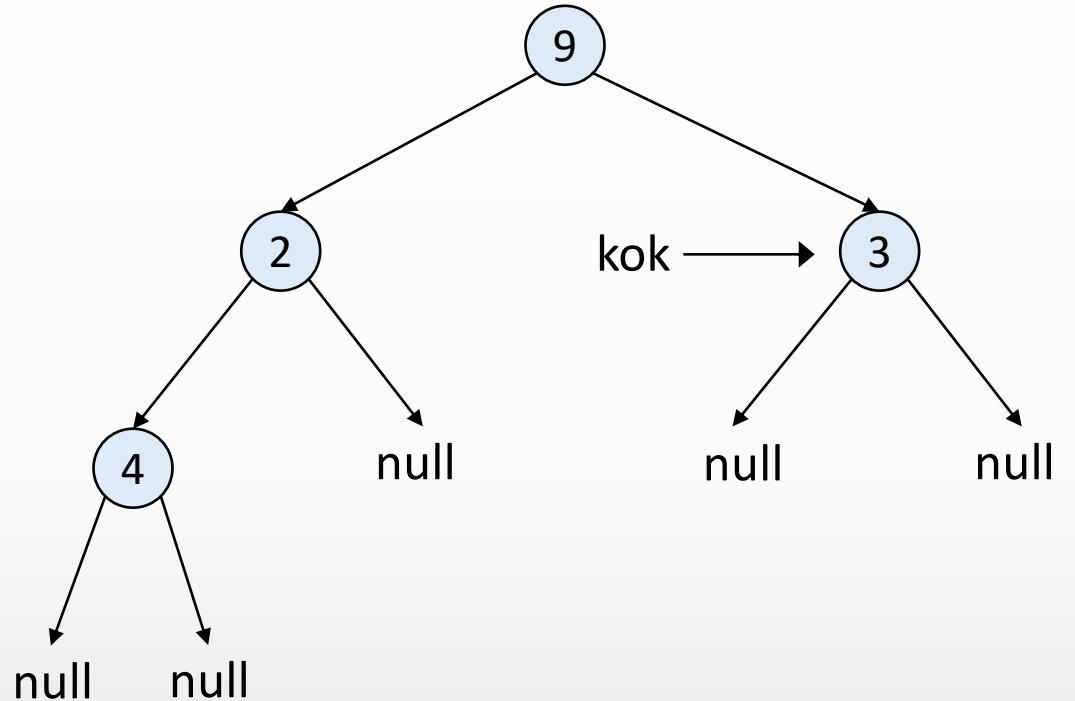
Cıktı: 4 2 9

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

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9



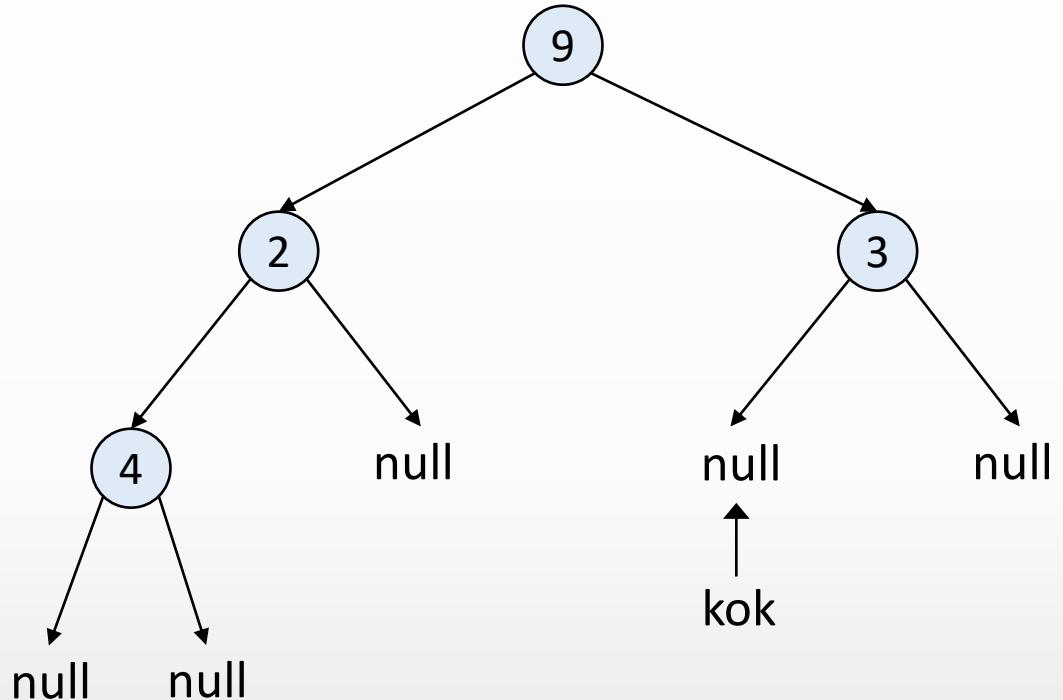
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3



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

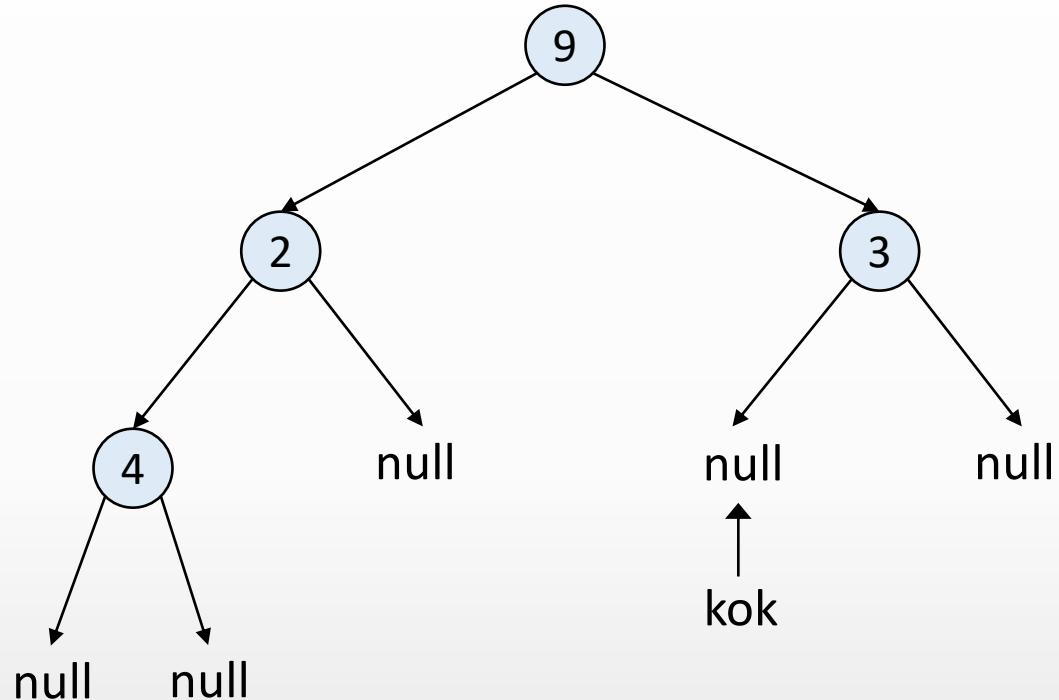


```
1 public void kokOrtada(AgacDugumu kok) {  
2     if(kok == null) {  
3         return;  
4     }  
5     kokOrtada(kok.sol);  
6     System.out.print(kok.veri + " ");  
7     kokOrtada(kok.sag);  
8 }
```

Çıktı: 4 2 9



## Çağırma Yığıtı (Call Stack)



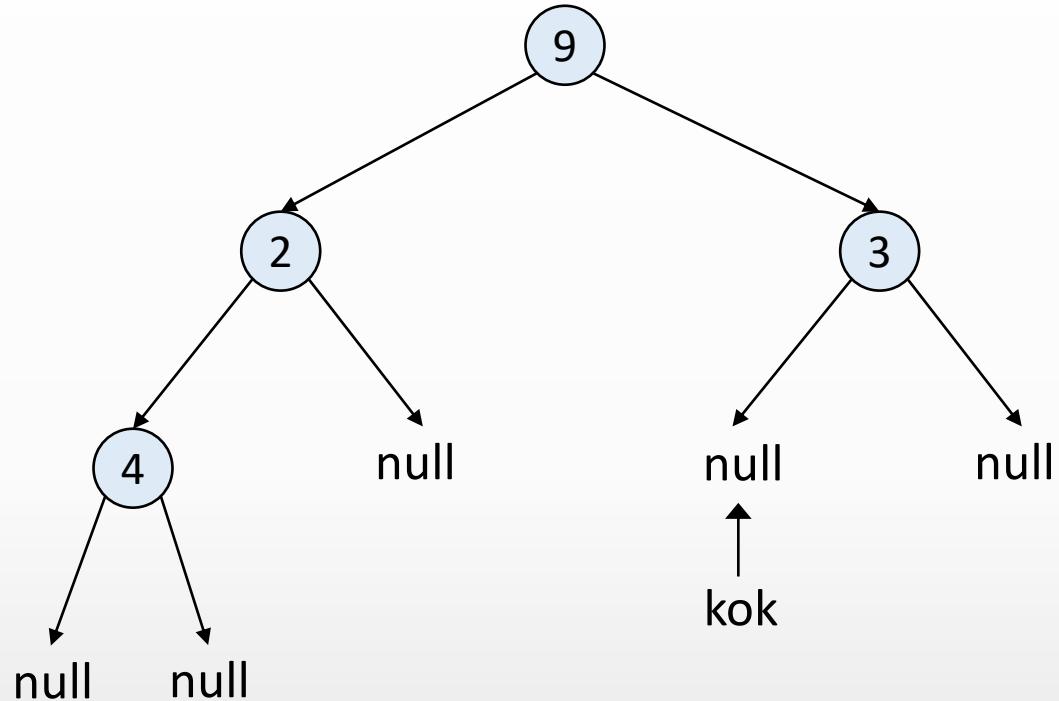
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
kokOrtada()		null

Cıktı: 4 2 9

```
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8 }
```



## Çağırma Yığıtı (Call Stack)



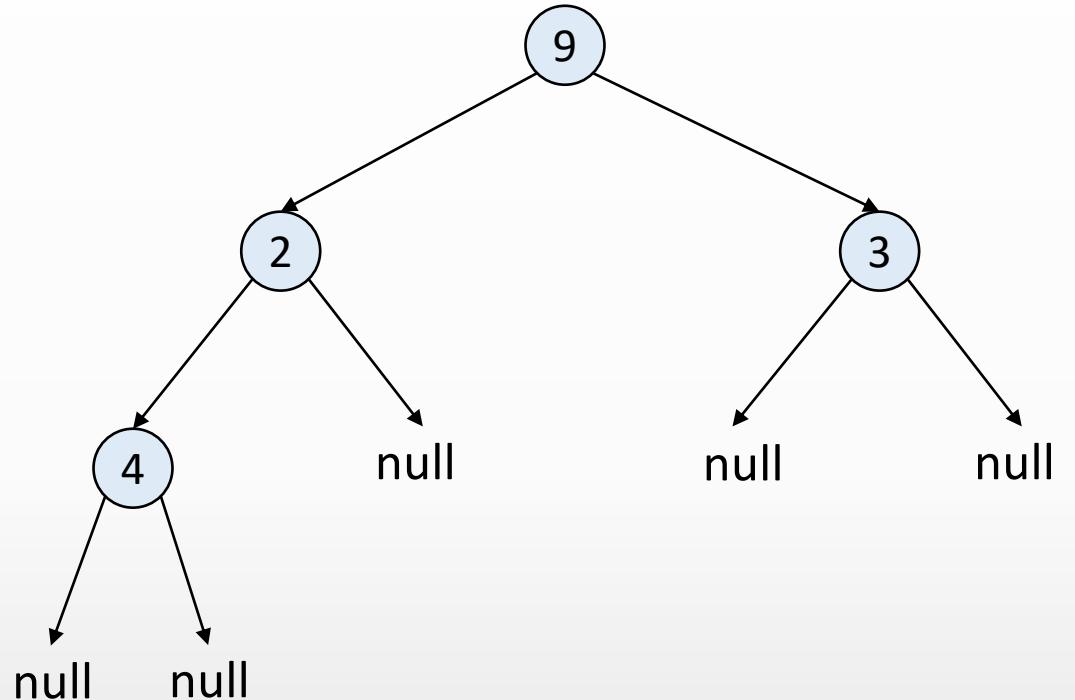
Cıktı: 4 2 9

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3
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## Çağırma Yığıtı (Call Stack)



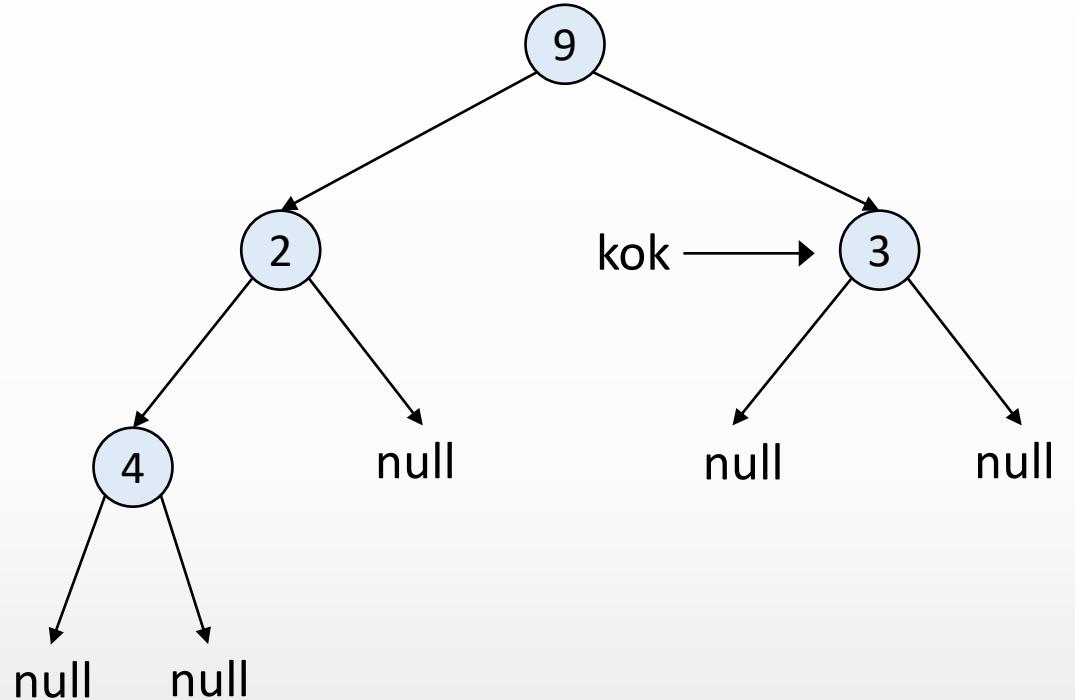
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
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Cıktı: 4 2 9

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



## Çağırma Yığıtı (Call Stack)

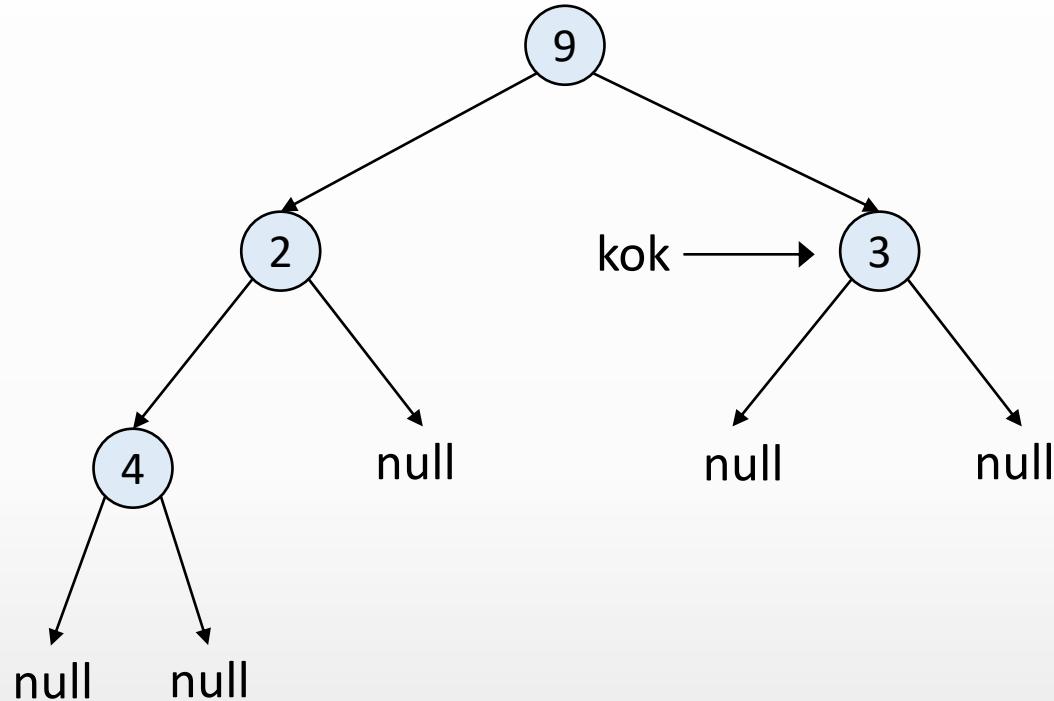


Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	5	3

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



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3



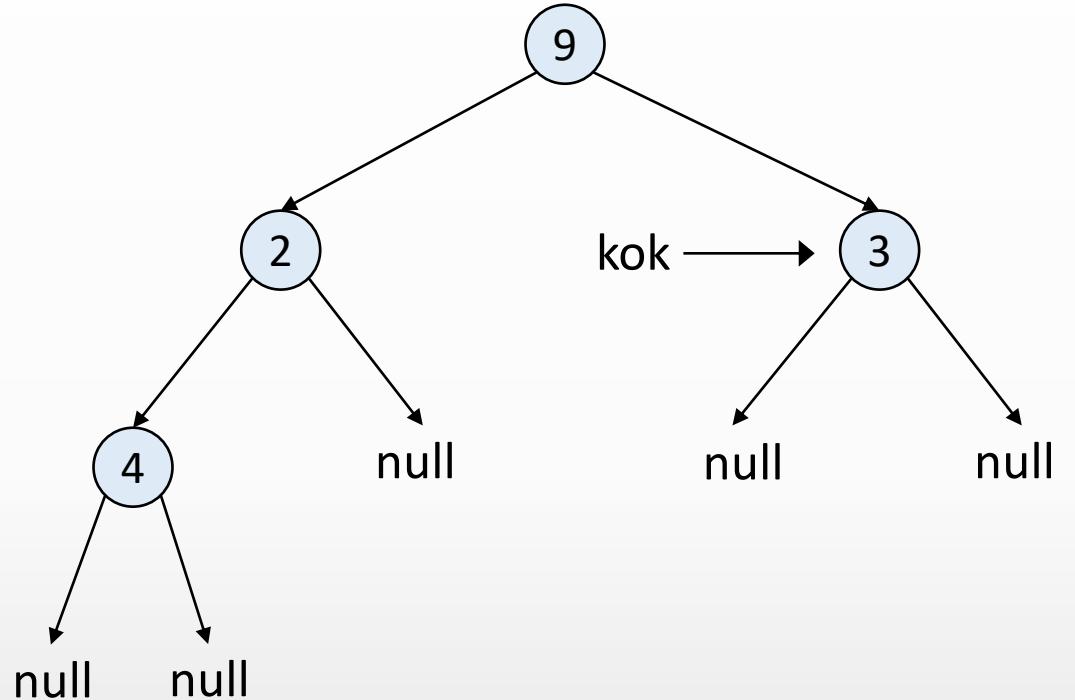
Metot Çağrımı	Satır Numarası	Kök
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```



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3



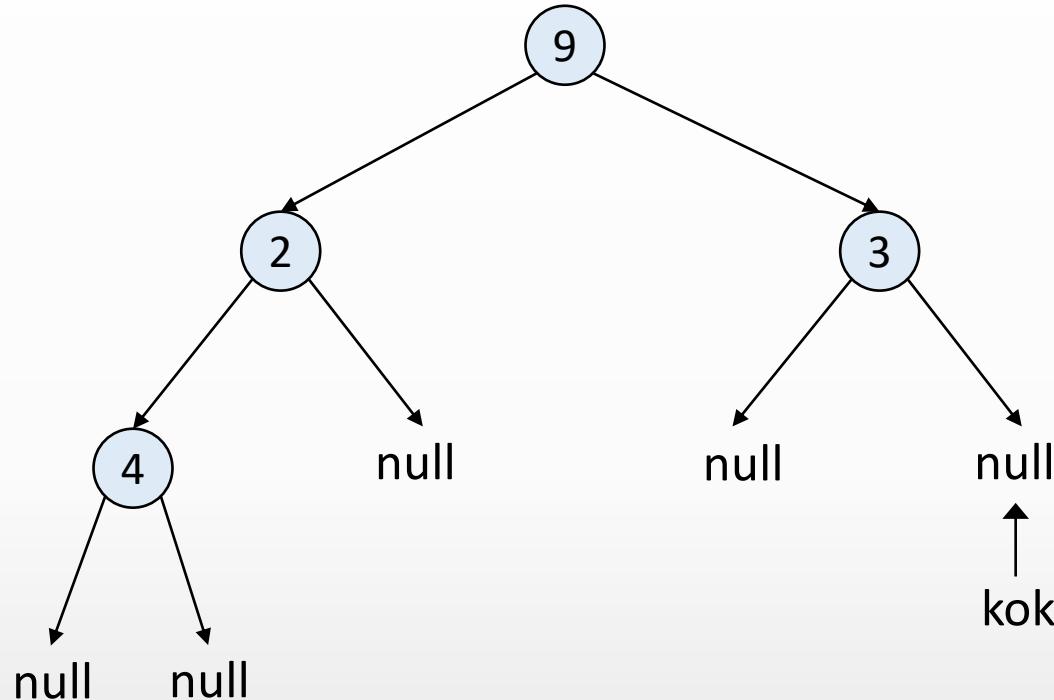
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
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1 public void kokOrtada(AgacDugumu kok) {  
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## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

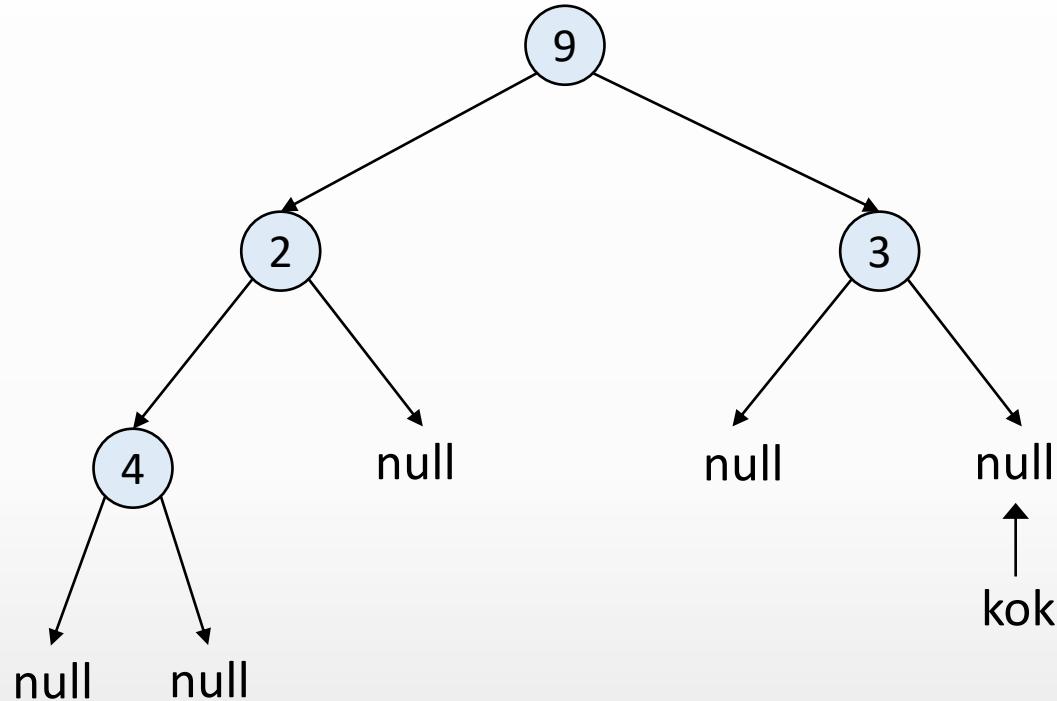
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8 }
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## Çağırma Yığıtı (Call Stack)



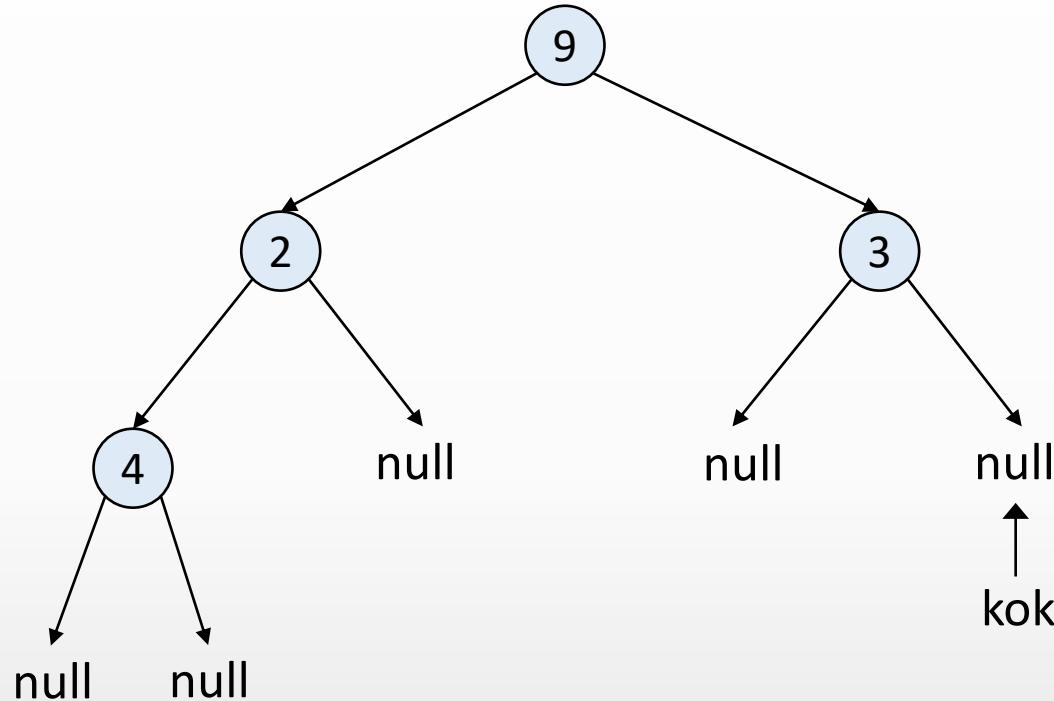
Cıktı: 4 2 9 3

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## Çağırma Yığıtı (Call Stack)



Çıktı: 4 2 9 3



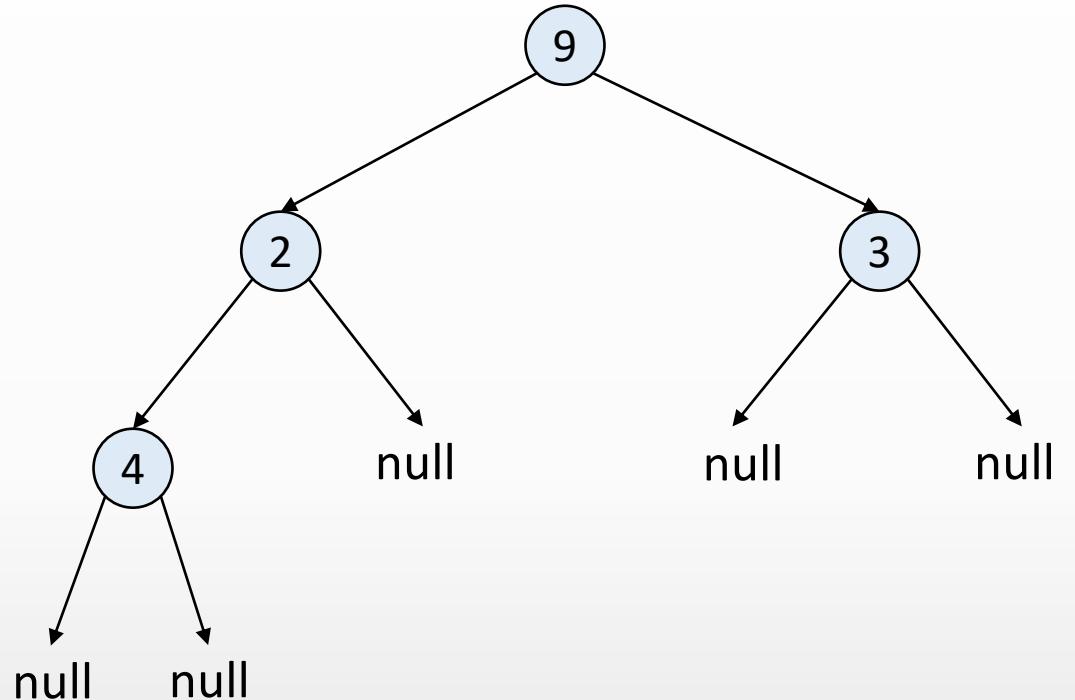
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```



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

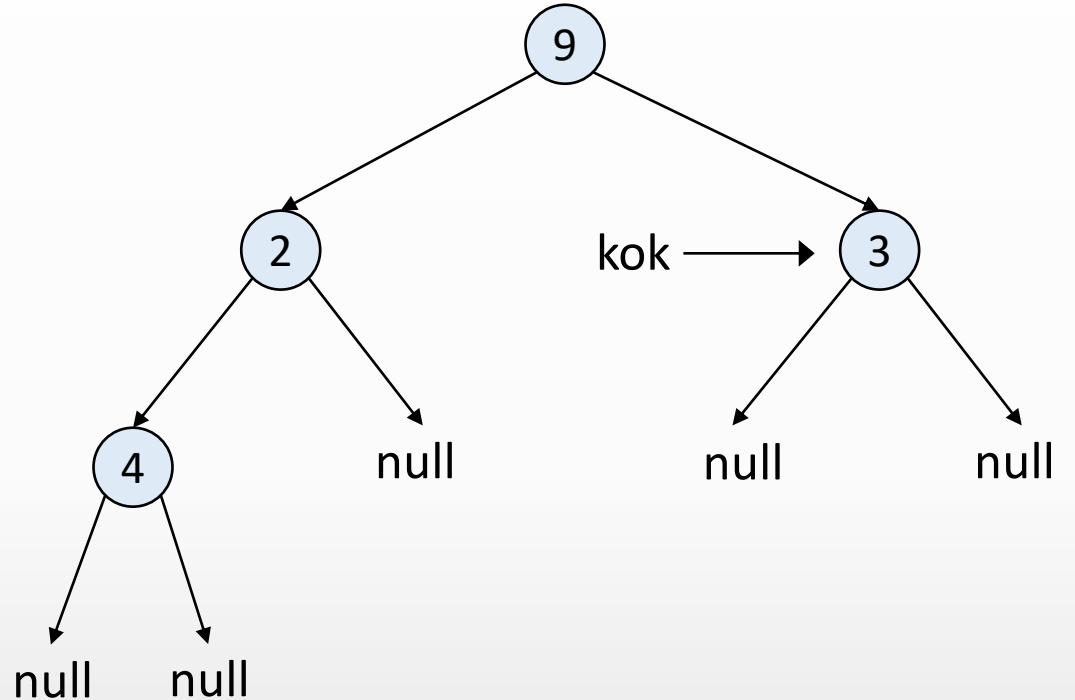


Metot Çağrımı	Satır Numarası	Kök
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8 }
```



## Çağırma Yığıtı (Call Stack)



Cıktı: 4 2 9 3

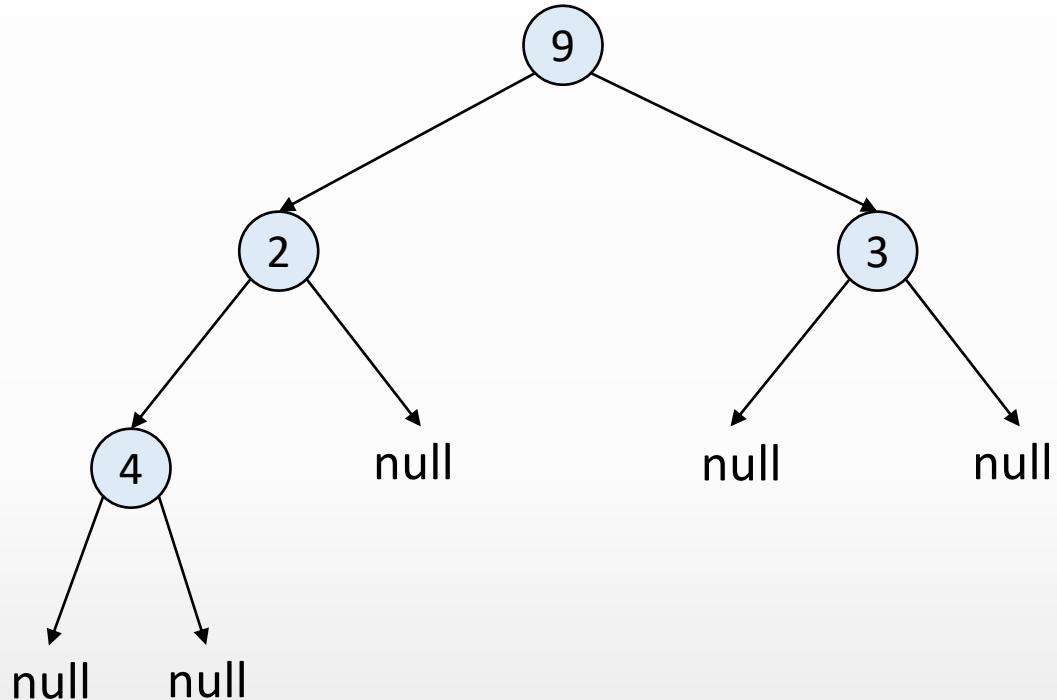
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9
kokOrtada()	7	3

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



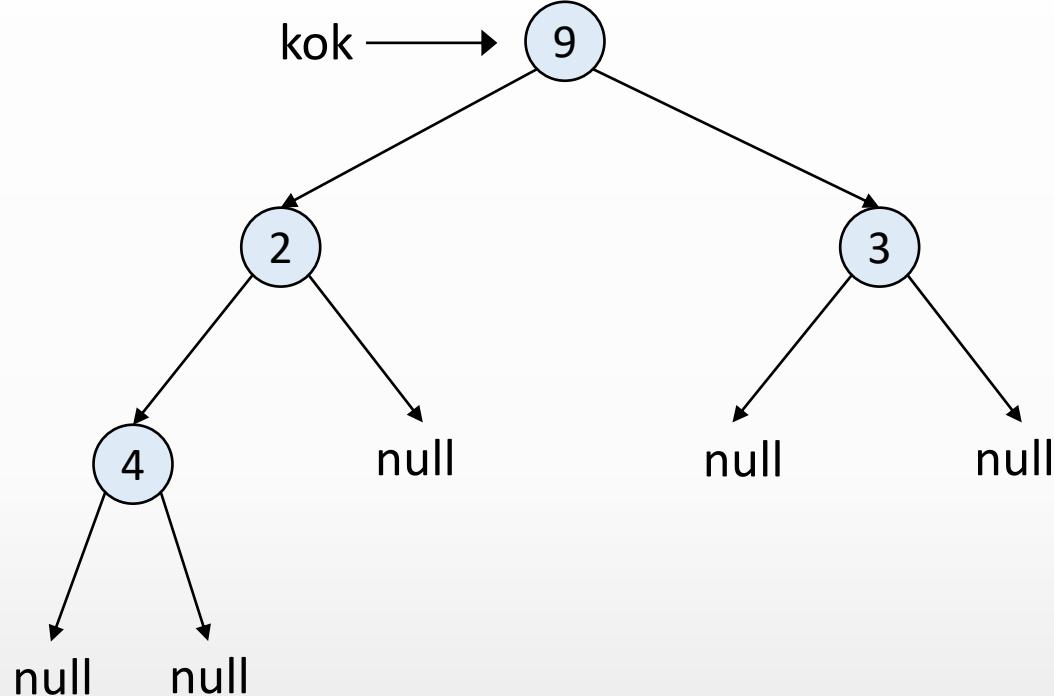
### Çağırma Yığıtı (Call Stack)

Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9



Cıktı: 4 2 9 3

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



Cıktı: 4 2 9 3

### Çağırma Yığıtı (Call Stack)

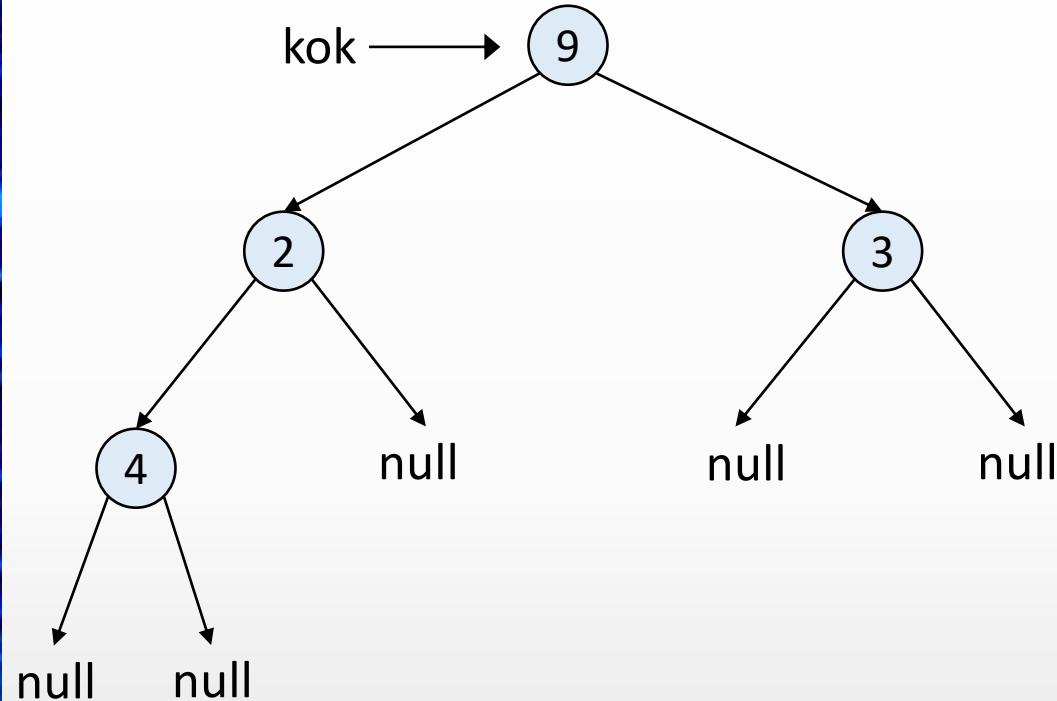
Metot Çağrımı	Satır Numarası	Kök
kokOrtada()	7	9

→

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



## Çağırma Yığıtı (Call Stack)



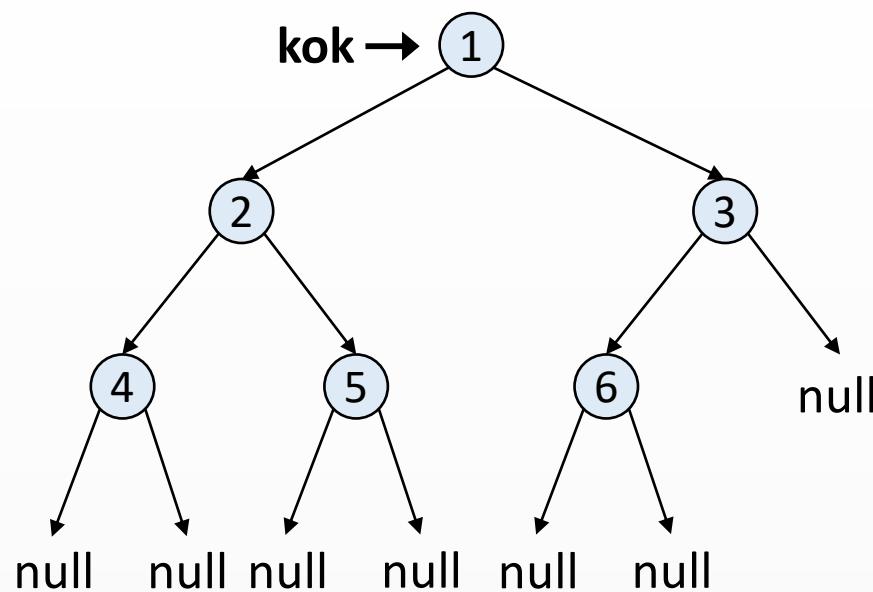
Cıktı: 4 2 9 3

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:

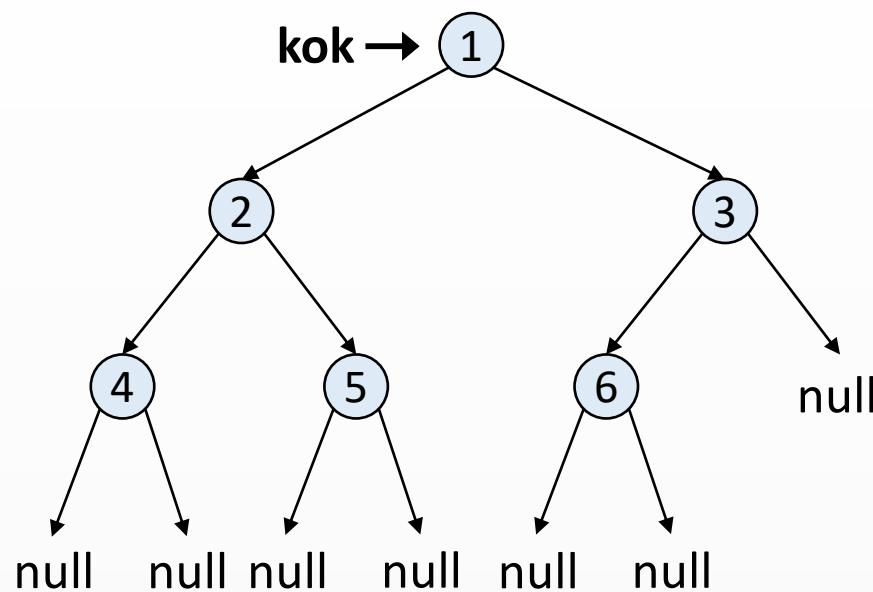
→

```

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;
    }
}

```



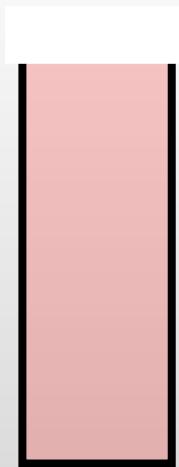
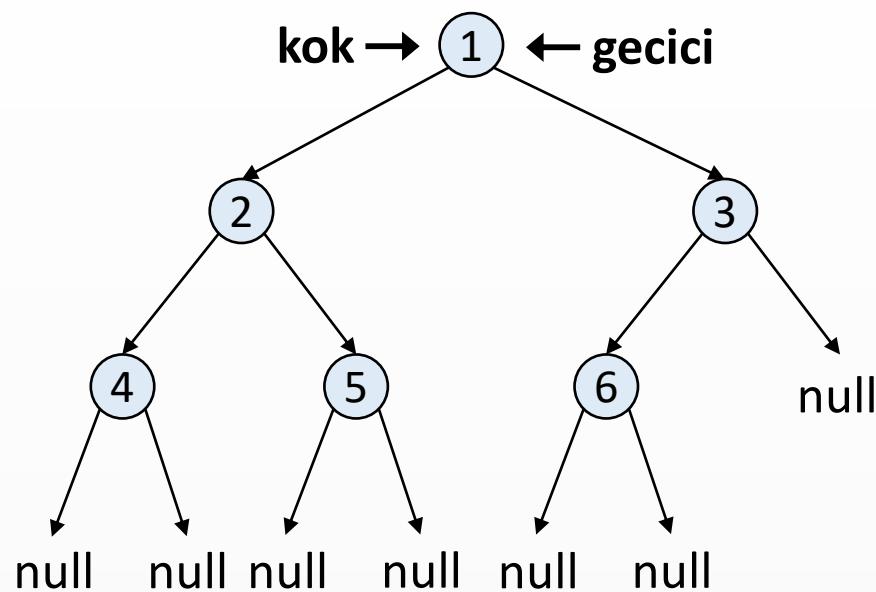


Yığıt

Çıktı:

→

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

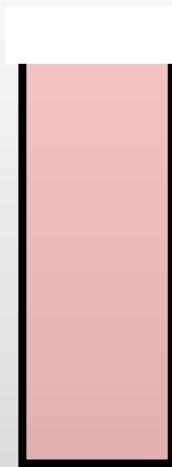
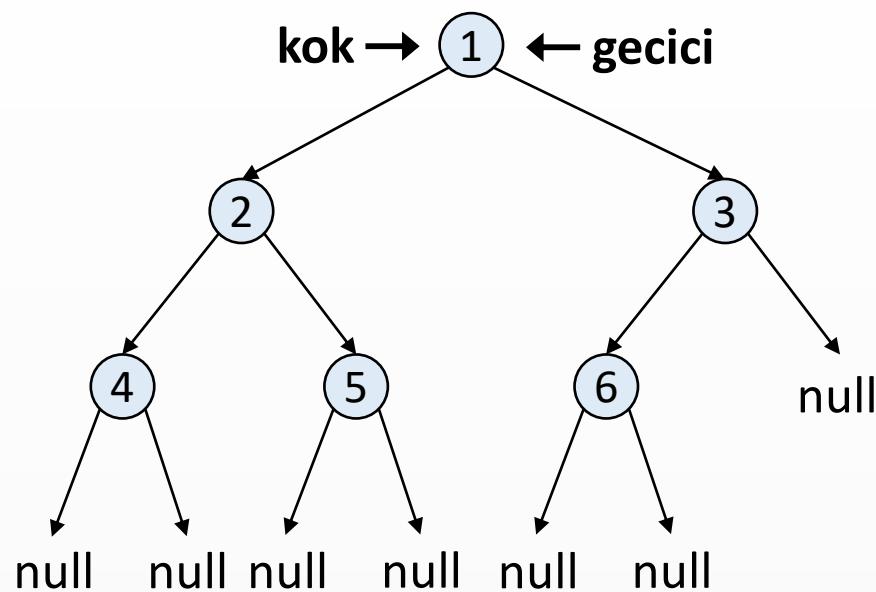


Yığıt

Çıktı:

→

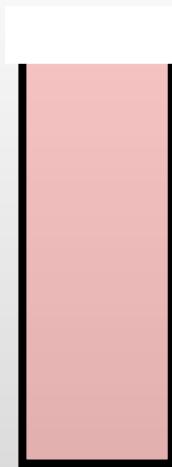
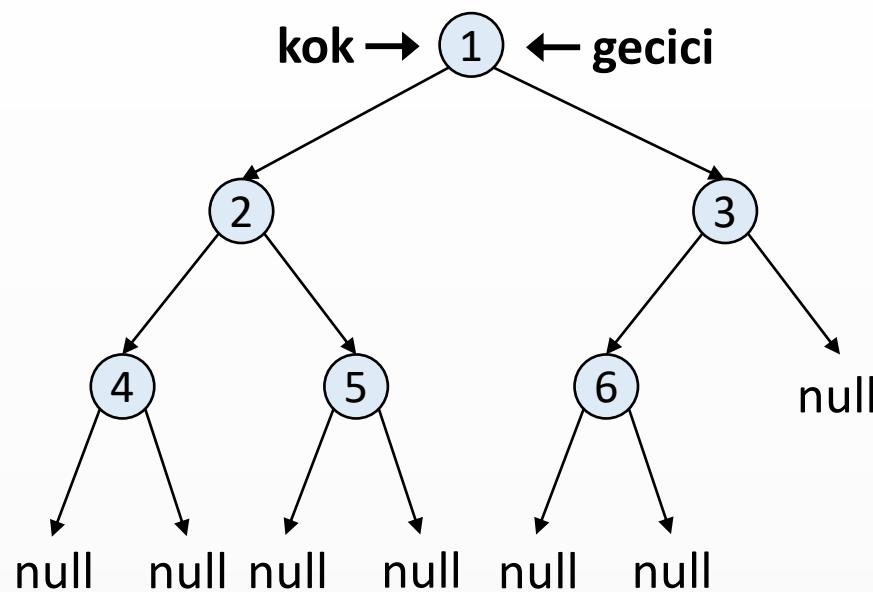
```
if(kok == null) {  
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
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        ecici = ecici.sol;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



Yığıt

Çıktı:

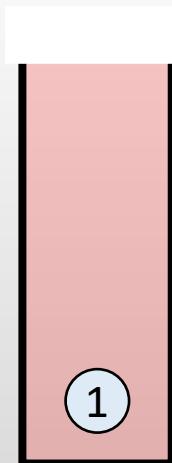
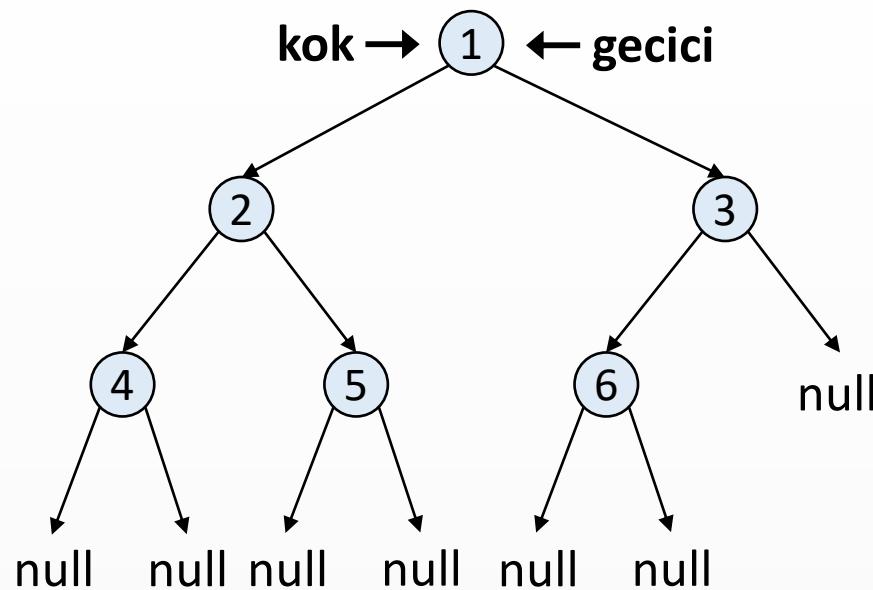
```
if(kok == null) {
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}
Stack<AgacDugumu> yigit = new Stack<>();
AgacDugumu gecici = kok;
→ while(!yigit.isEmpty() || gecici != null) {
    if(ecici != null) {
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Yığıt

Çıktı:

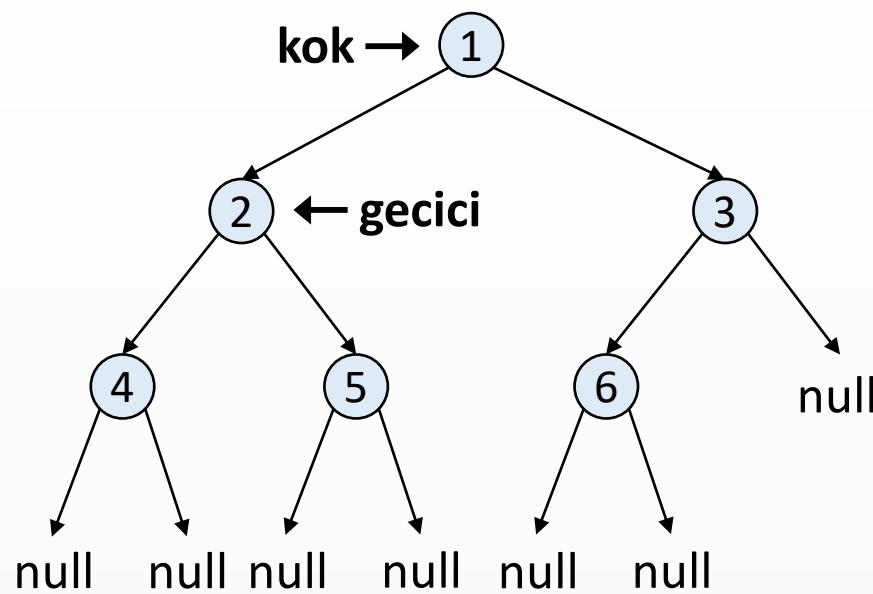
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Yığıt

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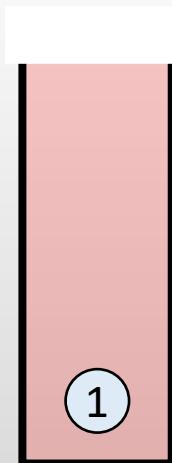
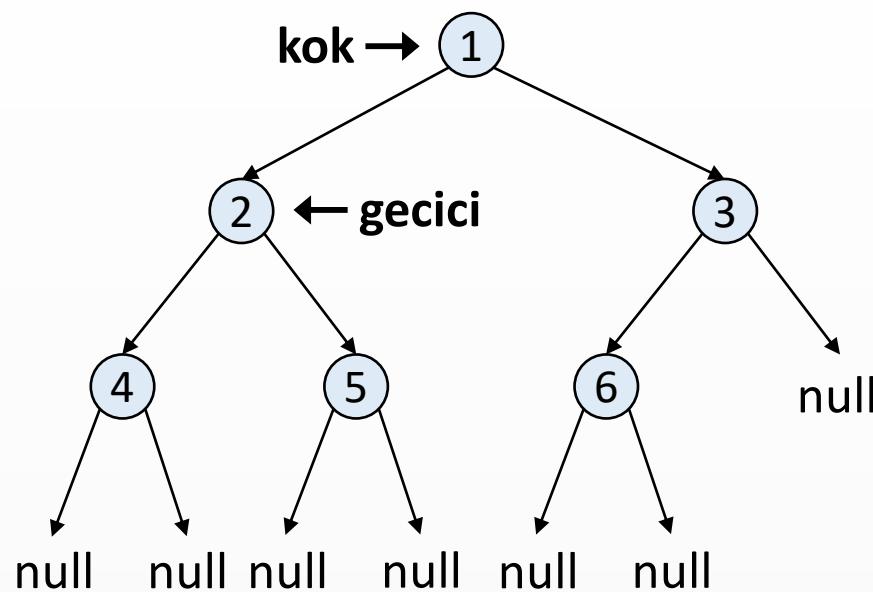
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Yığıt

Çıktı:

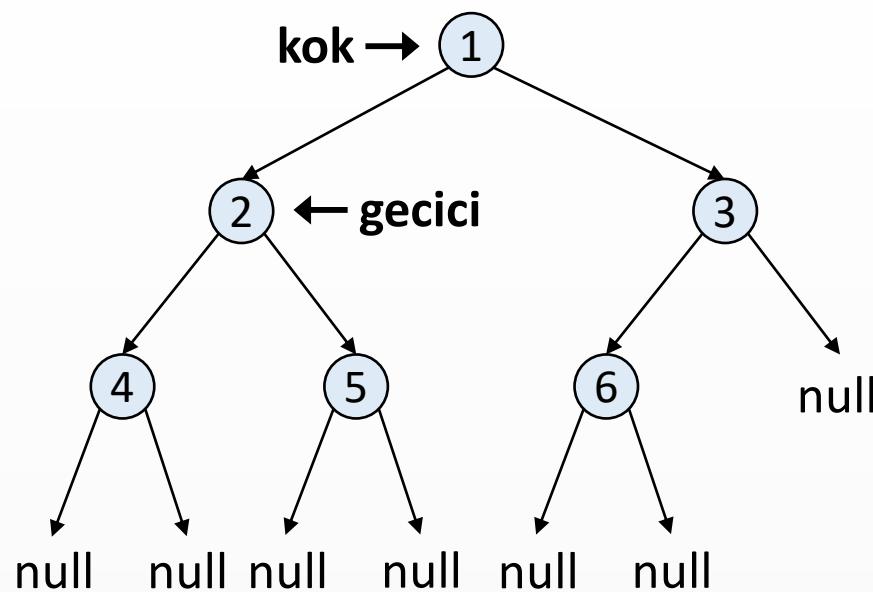
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Yığıt

Çıktı:

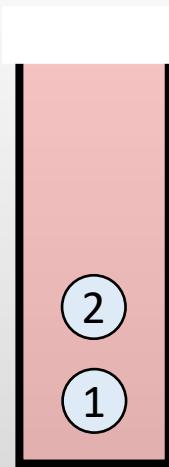
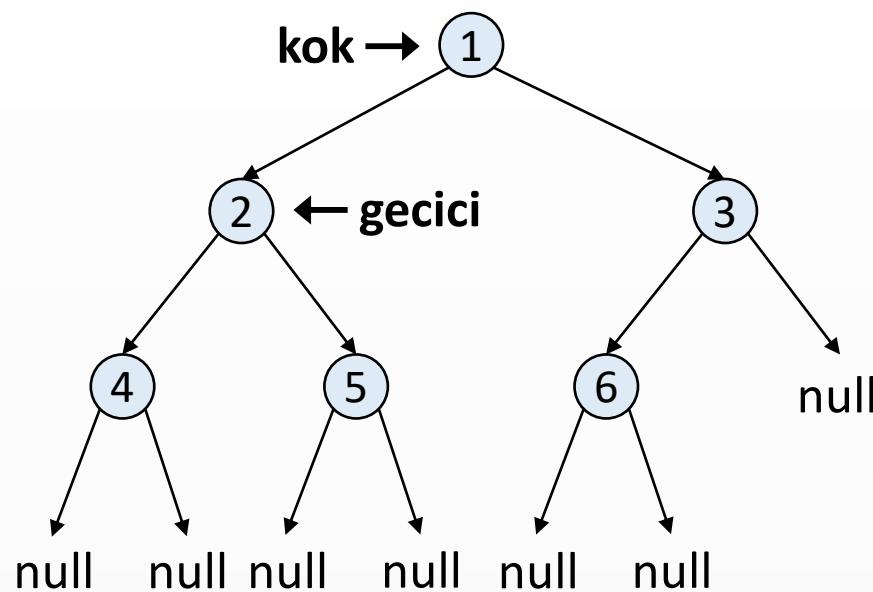
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Yığıt

Çıktı:

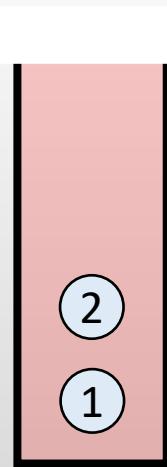
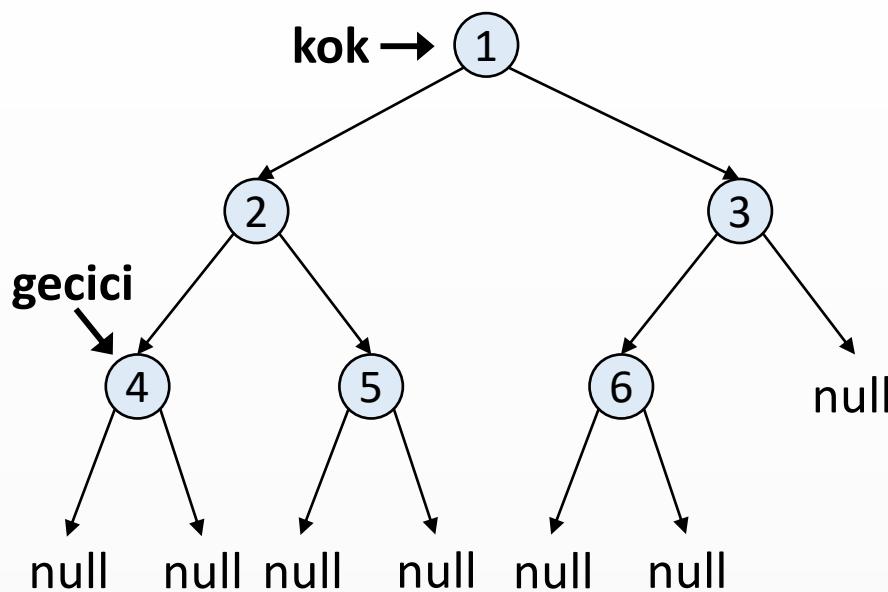
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Yığıt

Çıktı:

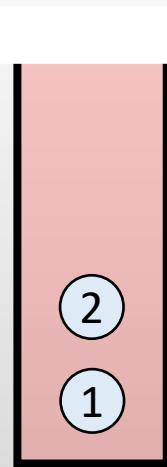
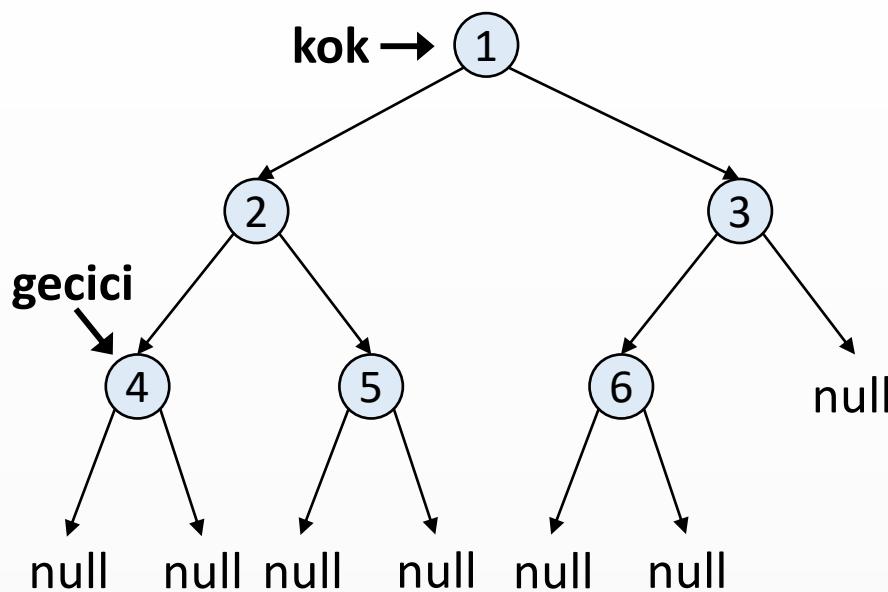
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Yığıt

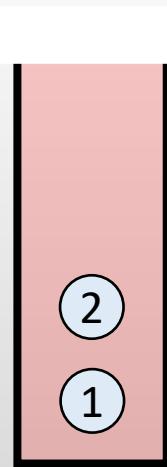
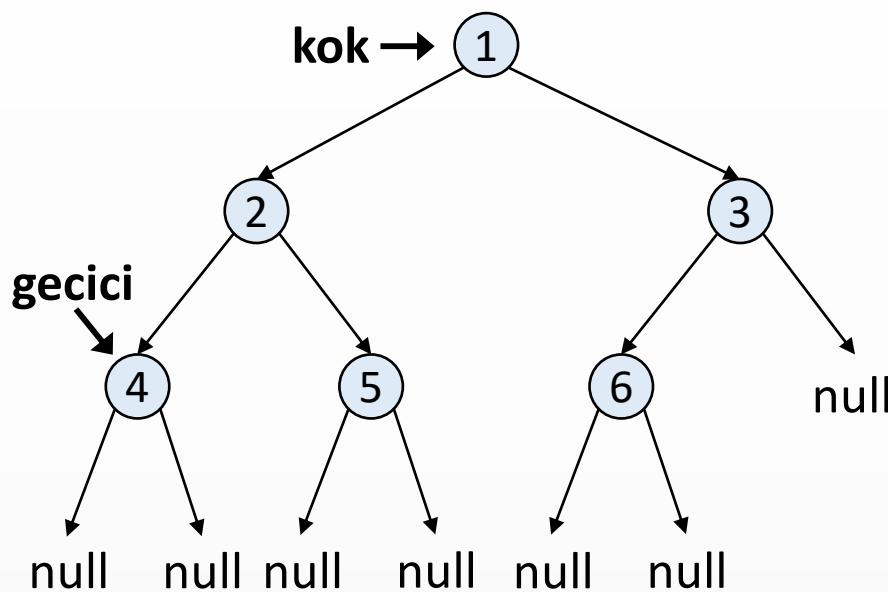
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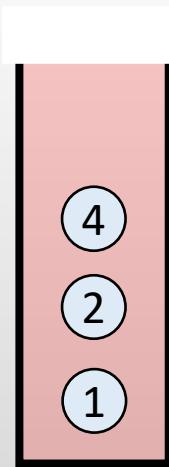
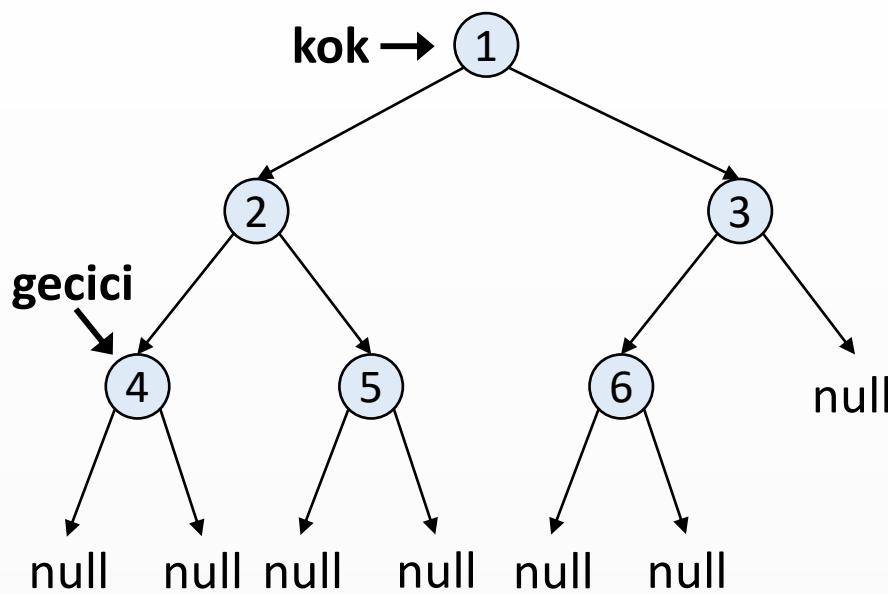
Çıktı:

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



Çıktı:

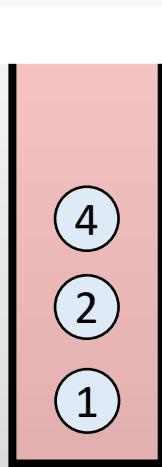
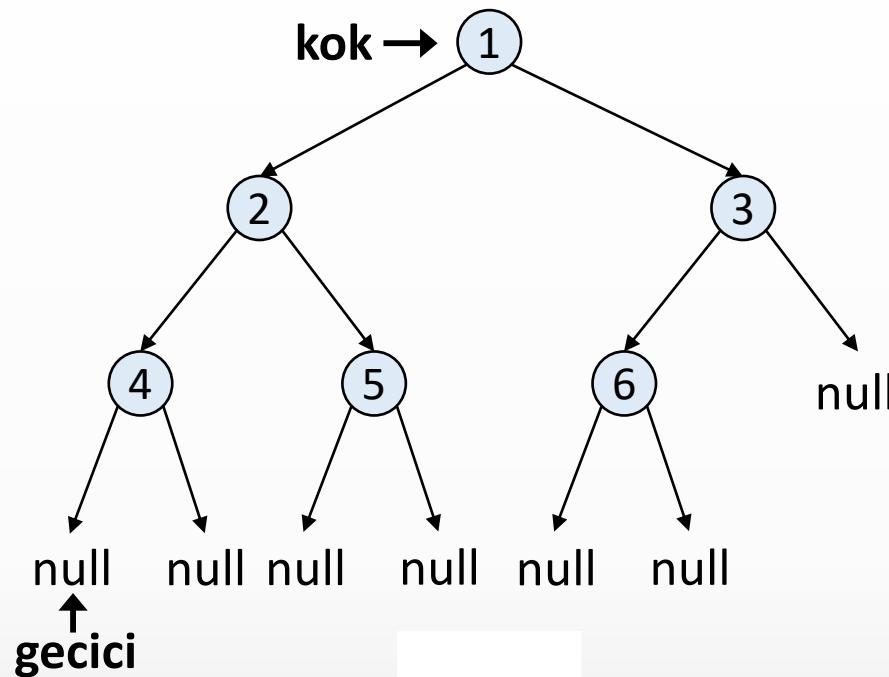
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı:

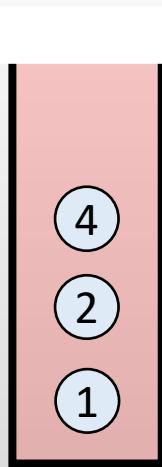
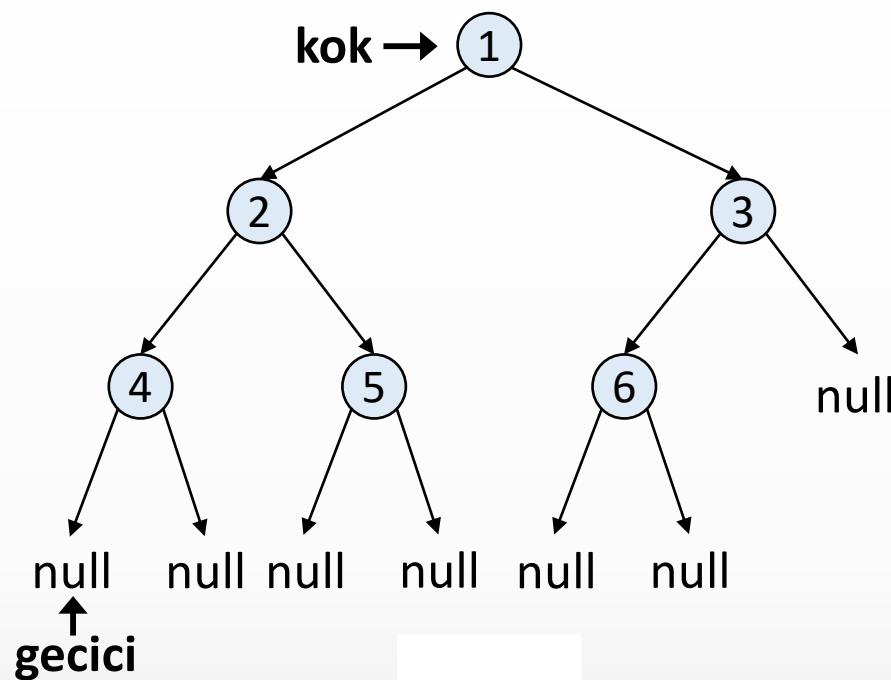
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı:

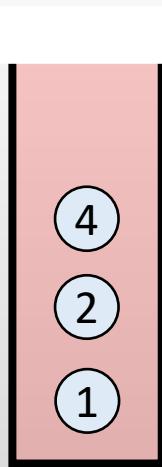
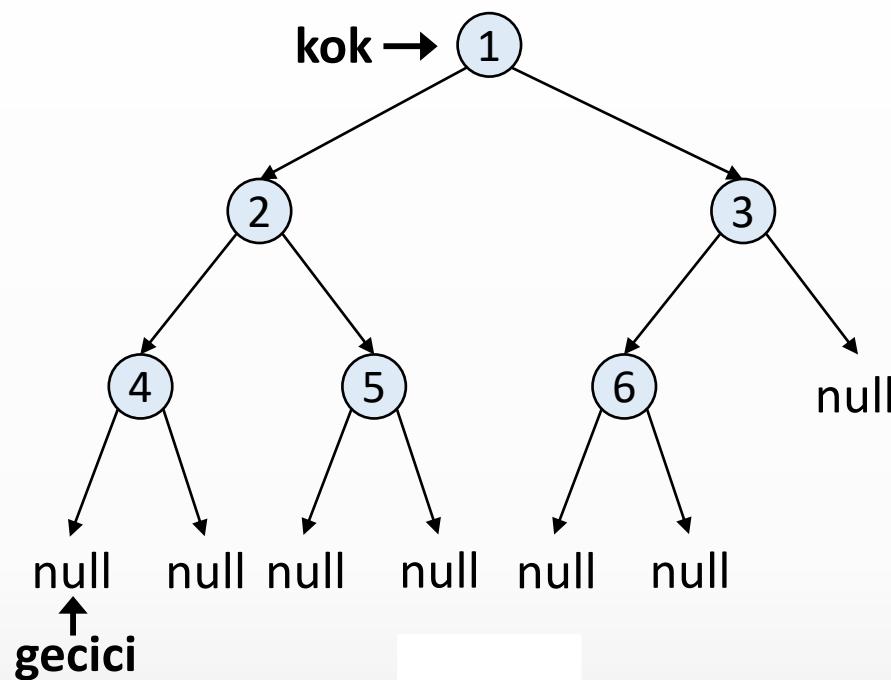
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
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    }  
    else {  
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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



Yığıt

Çıktı:

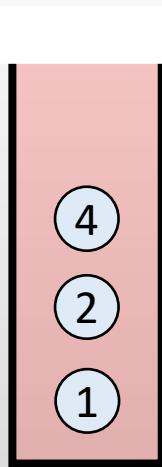
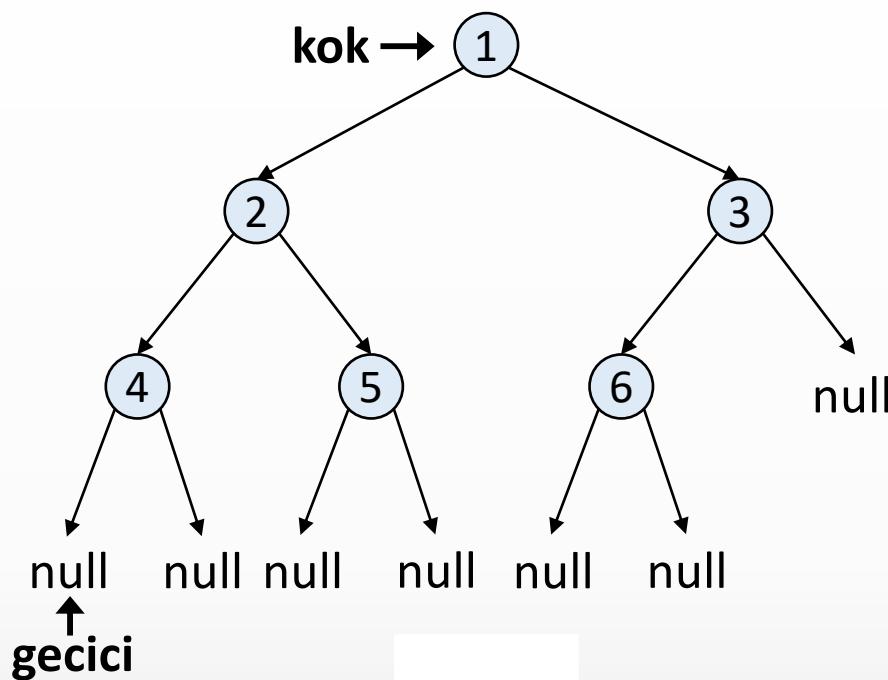
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if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
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    if(ecici != null) {  
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    }  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



Yığıt

Çıktı:

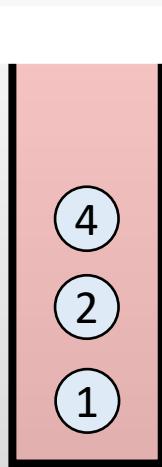
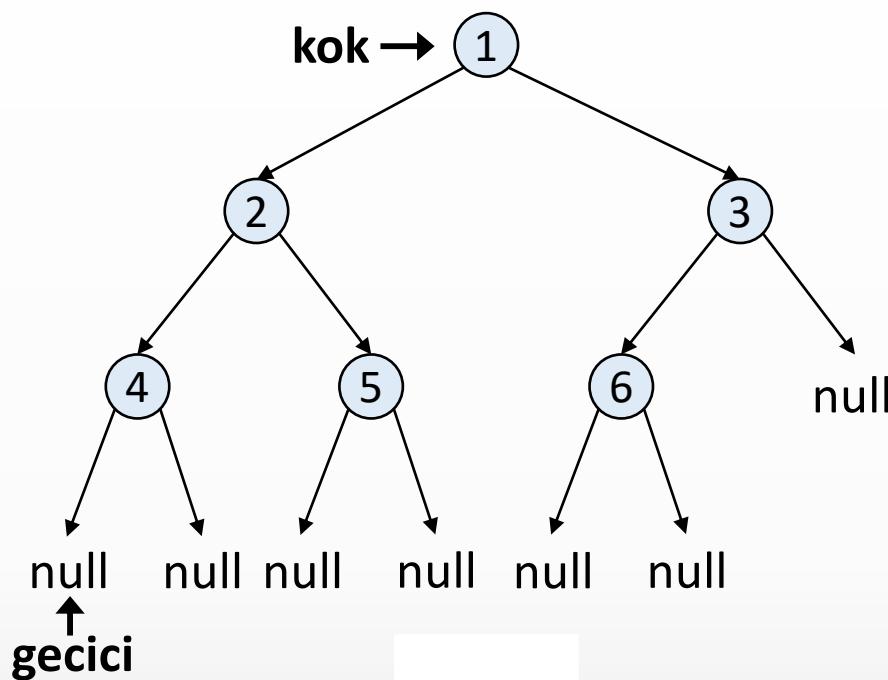
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}  
Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
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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



Yığıt

Çıktı:

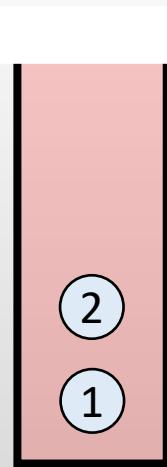
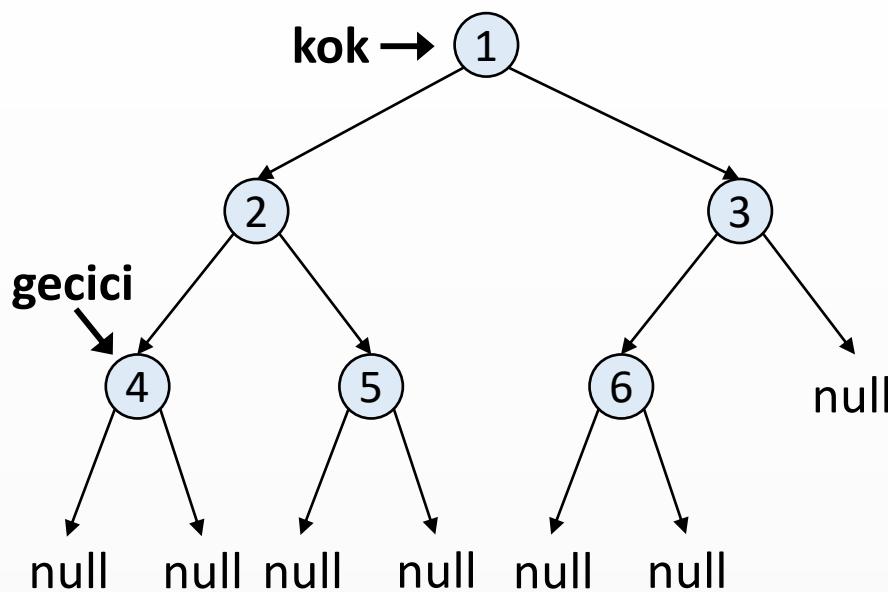
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı:

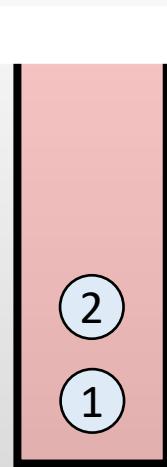
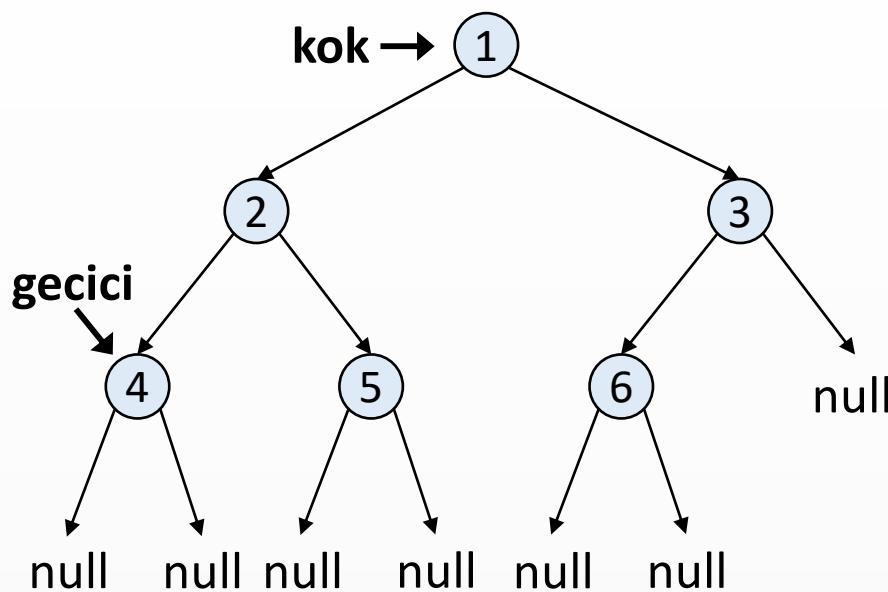
```
if(kok == null) {  
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}  
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AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
 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



Yığıt

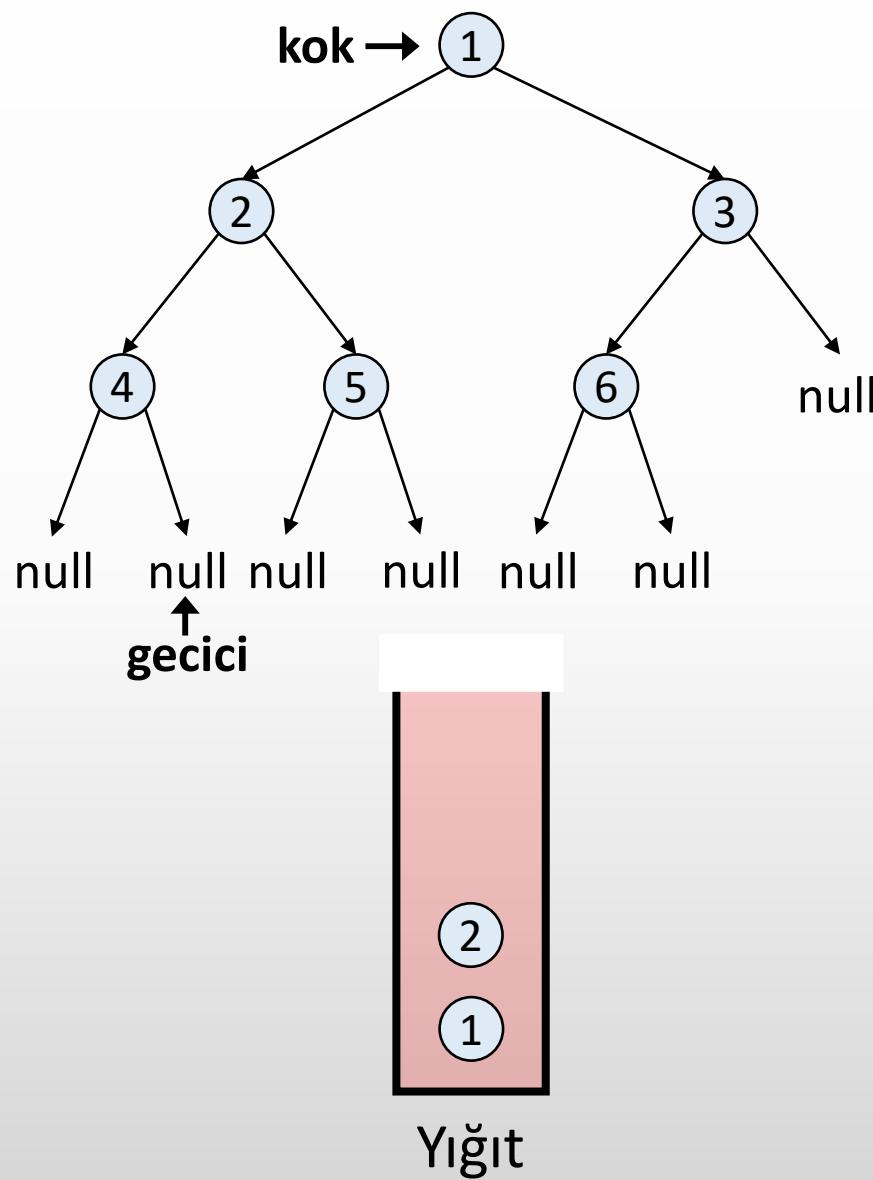
Çıktı:

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



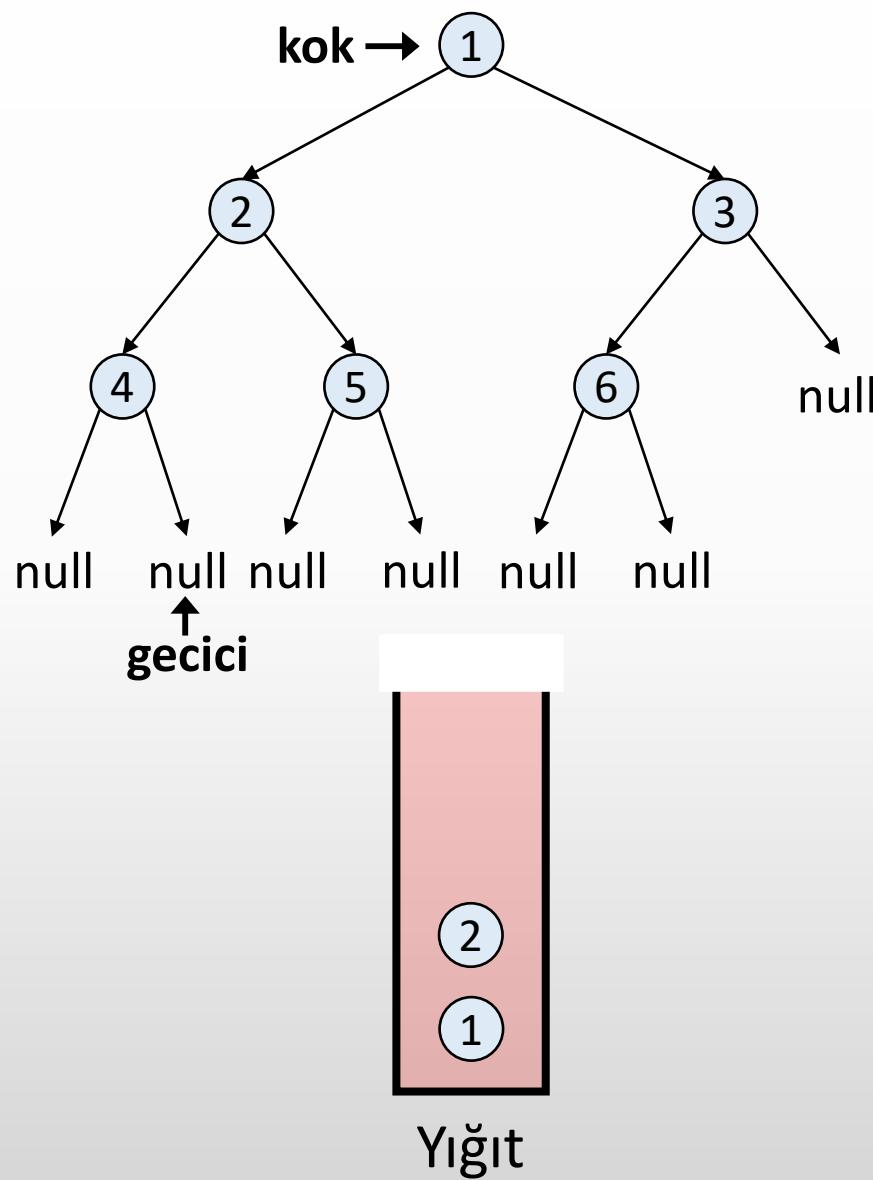
Çıktı: 4

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



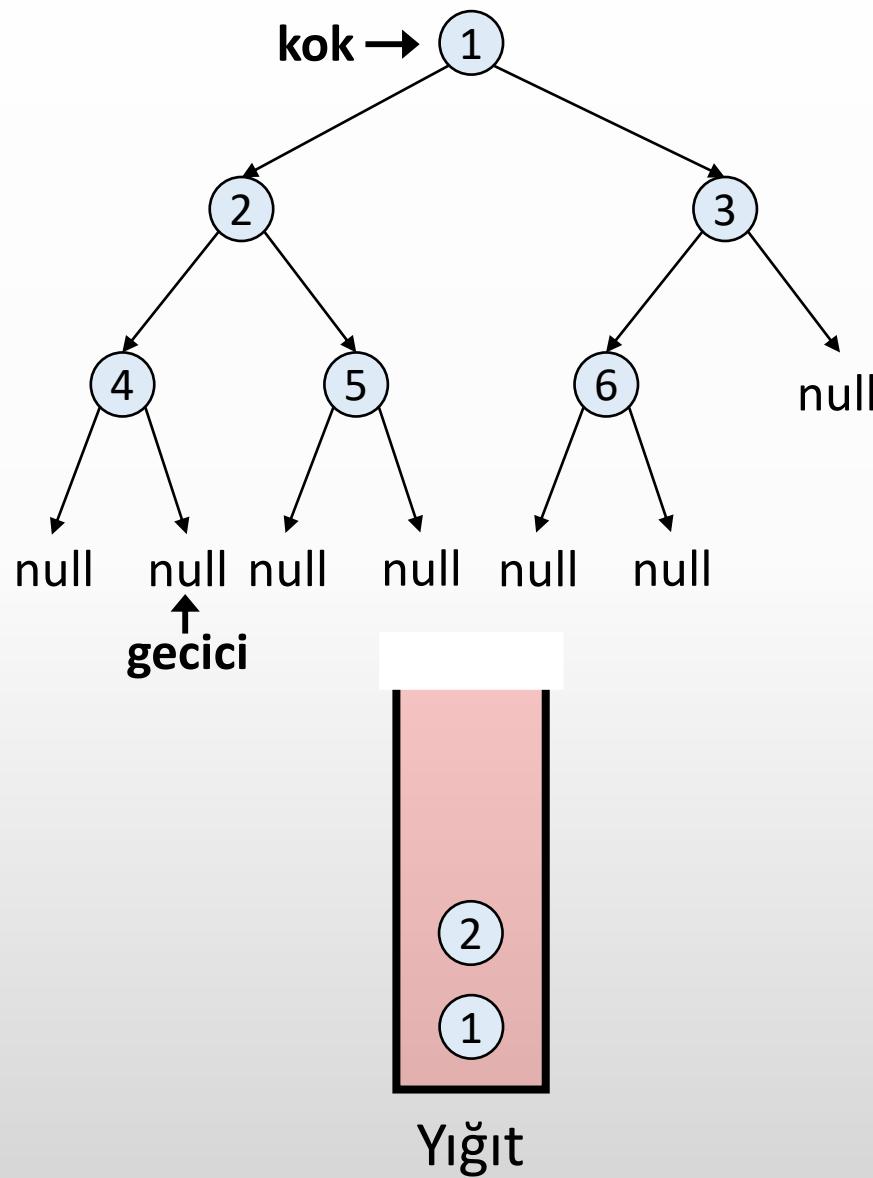
Çıktı: 4

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



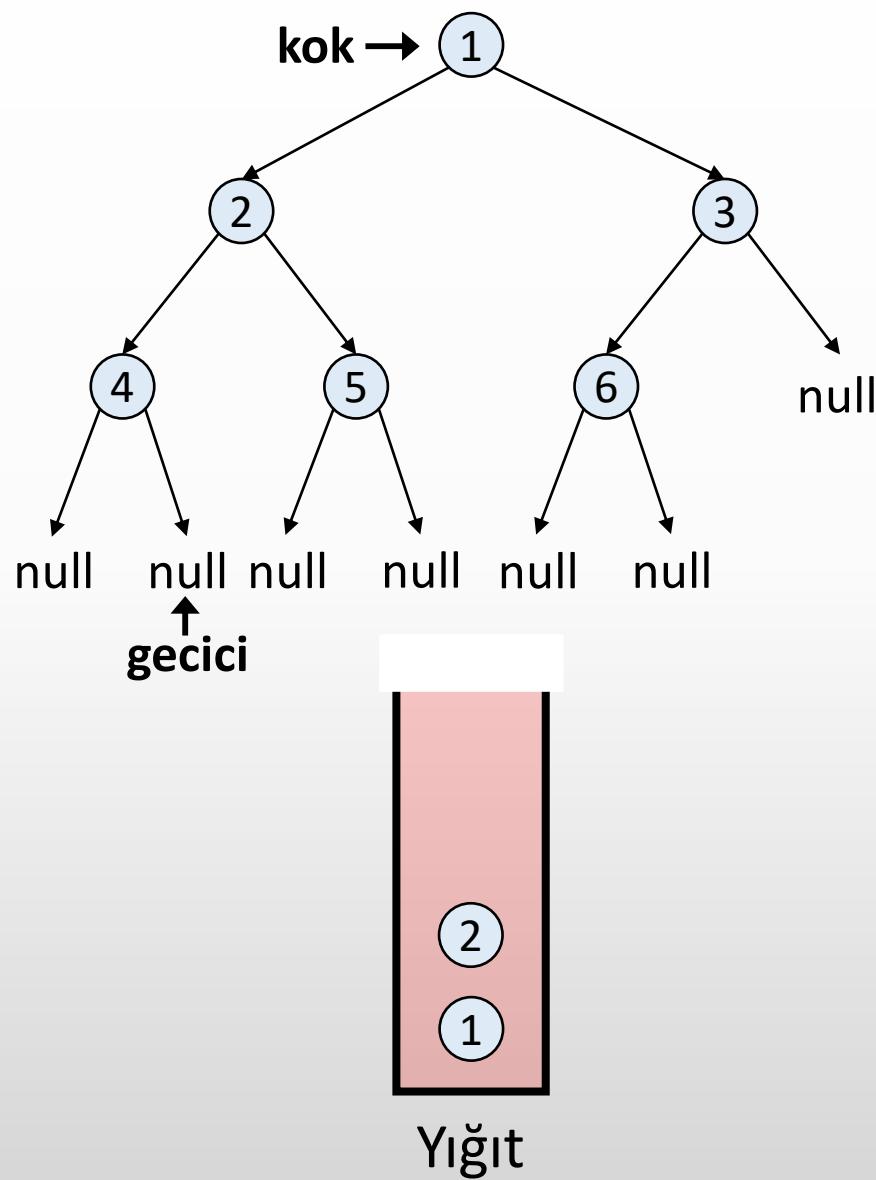
Cıktı: 4

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



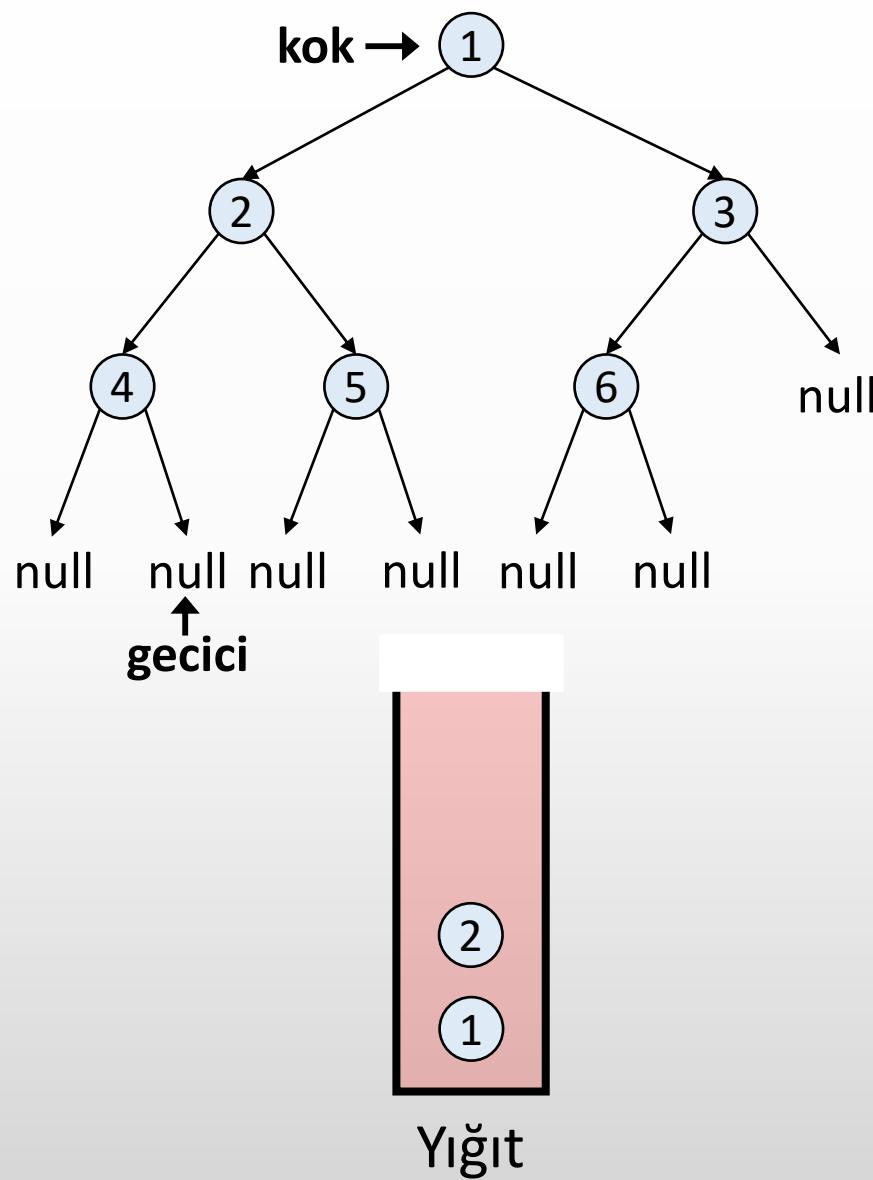
Çıktı: 4

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



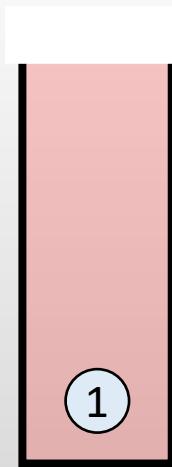
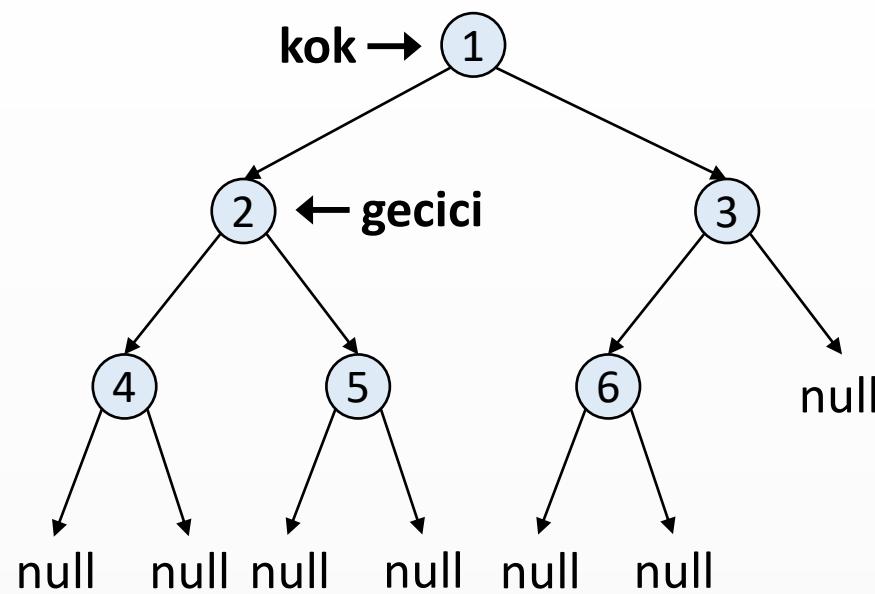
Çıktı: 4

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



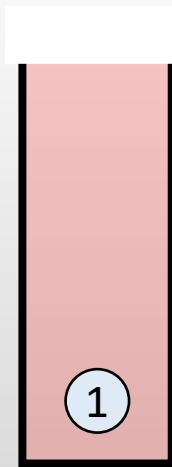
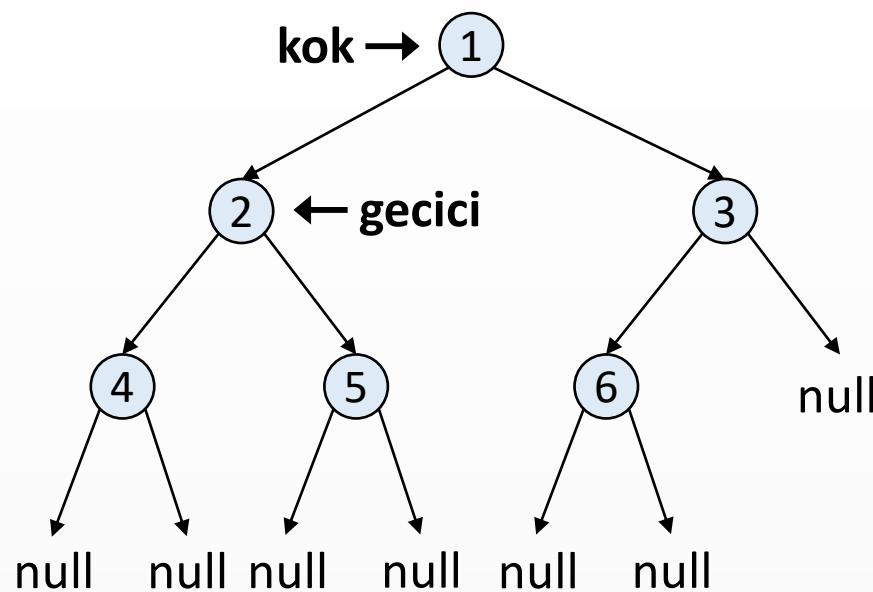
Çıktı: 4

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



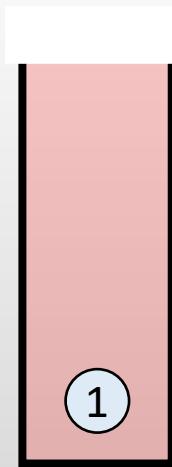
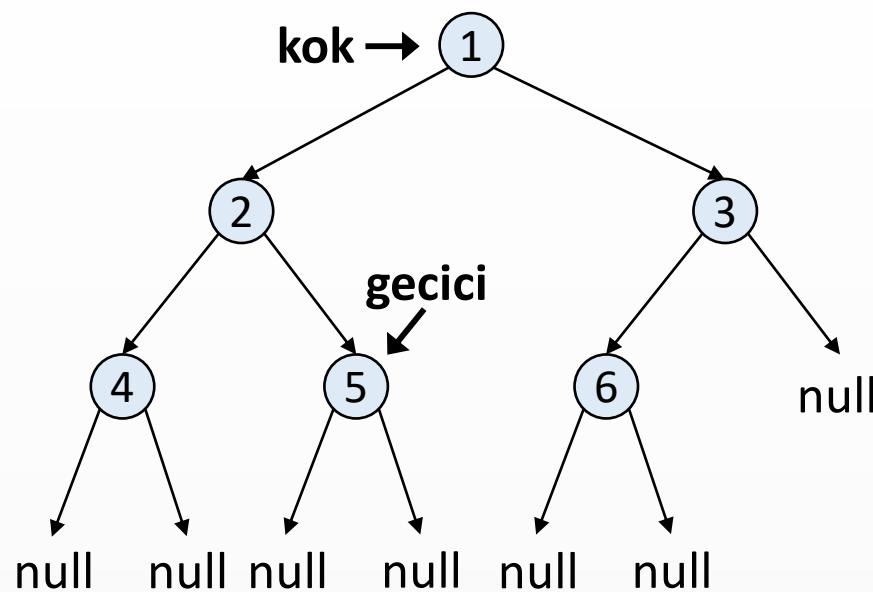
Çıktı: 4

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



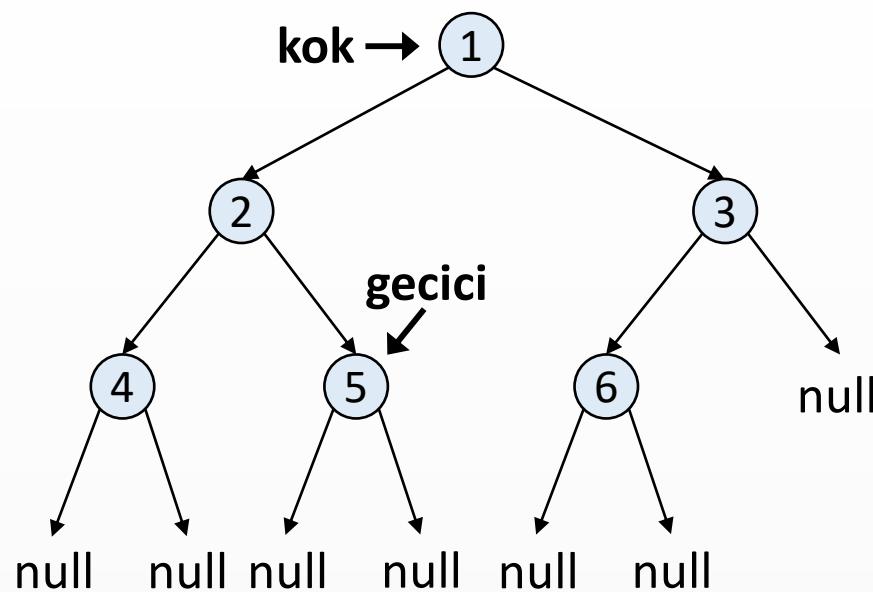
Cıktı: 4 2

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



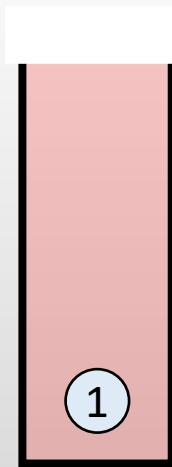
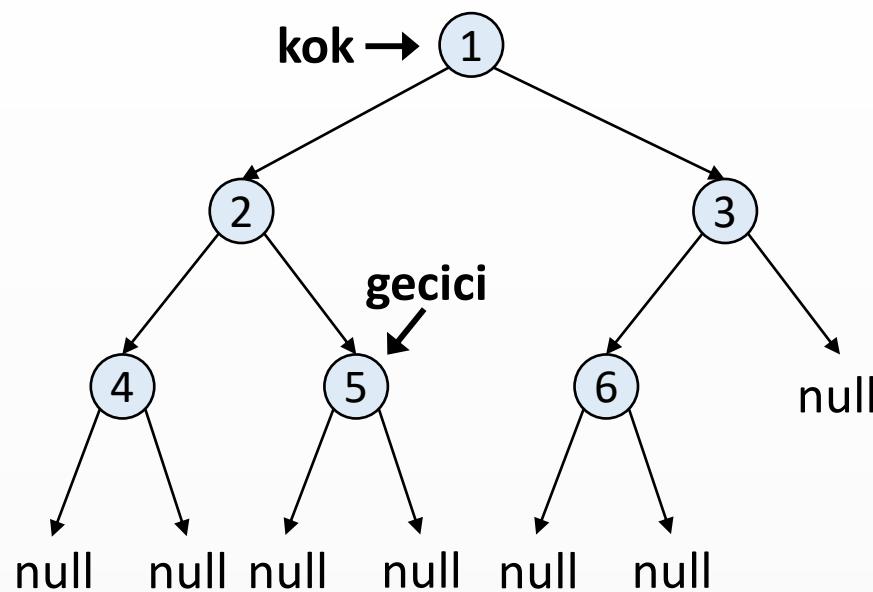
Cıktı: 4 2

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



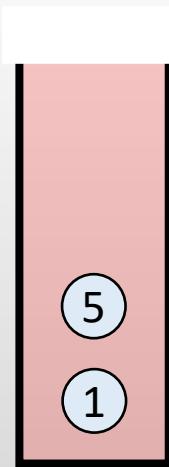
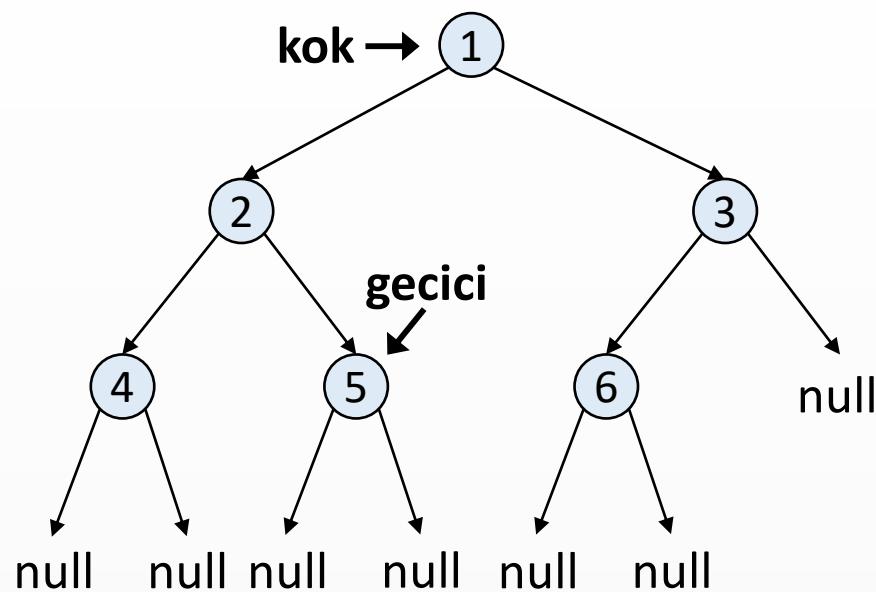
Cıktı: 4 2

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



Cıktı: 4 2

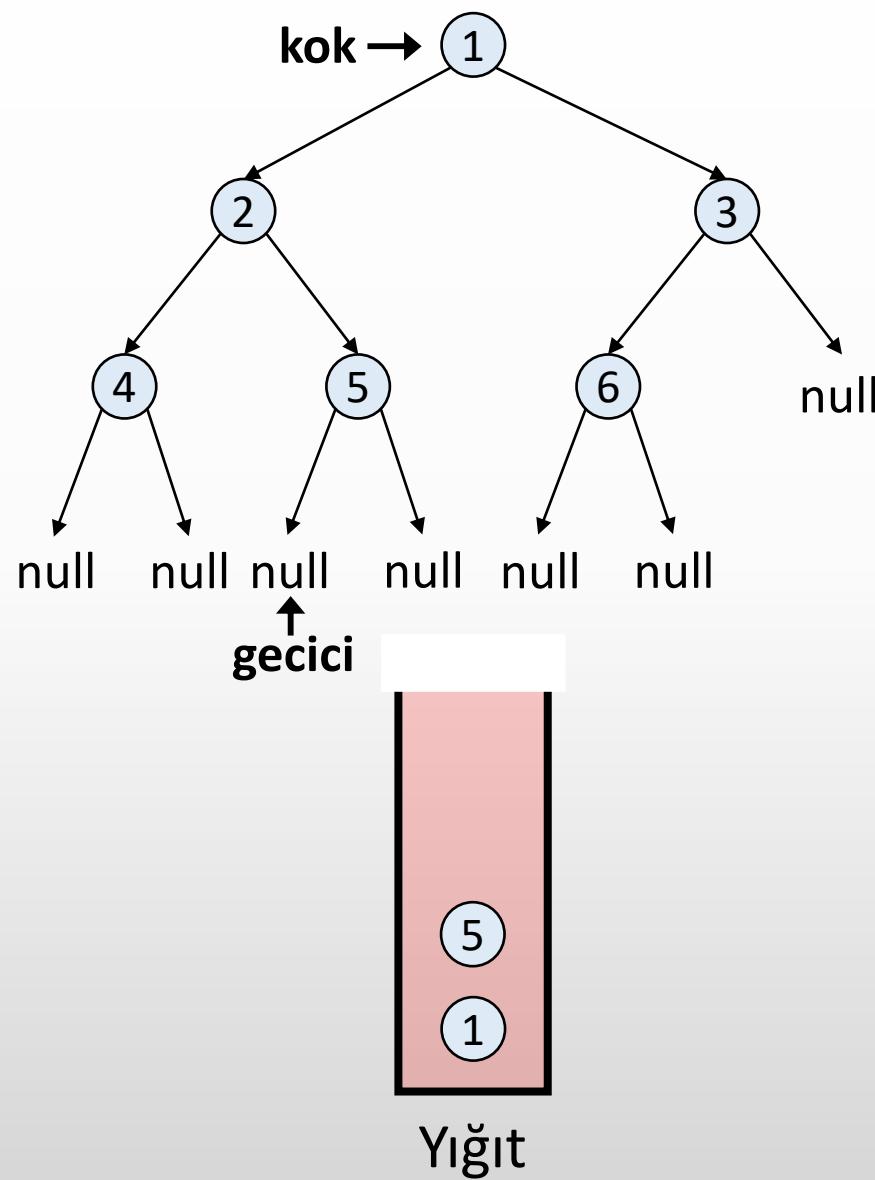
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici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



Yığıt

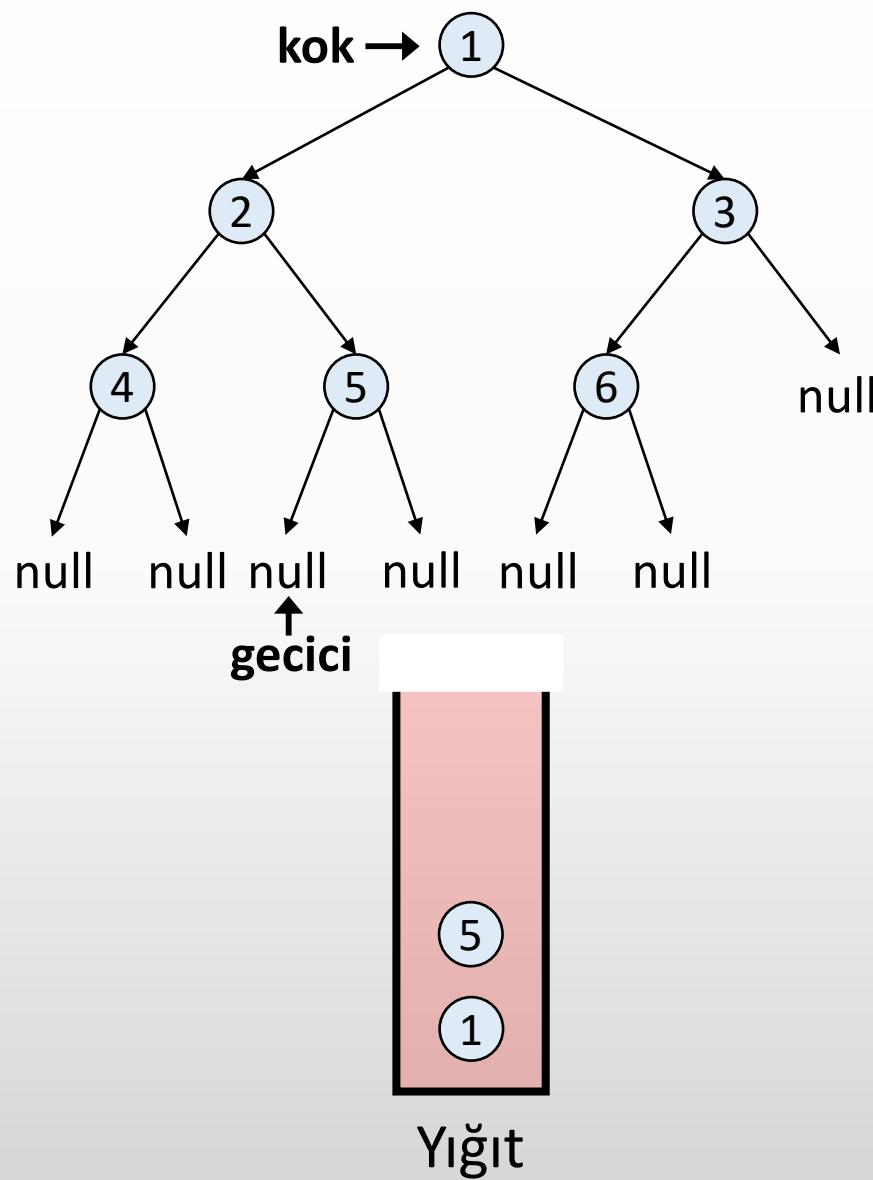
Cıktı: 4 2

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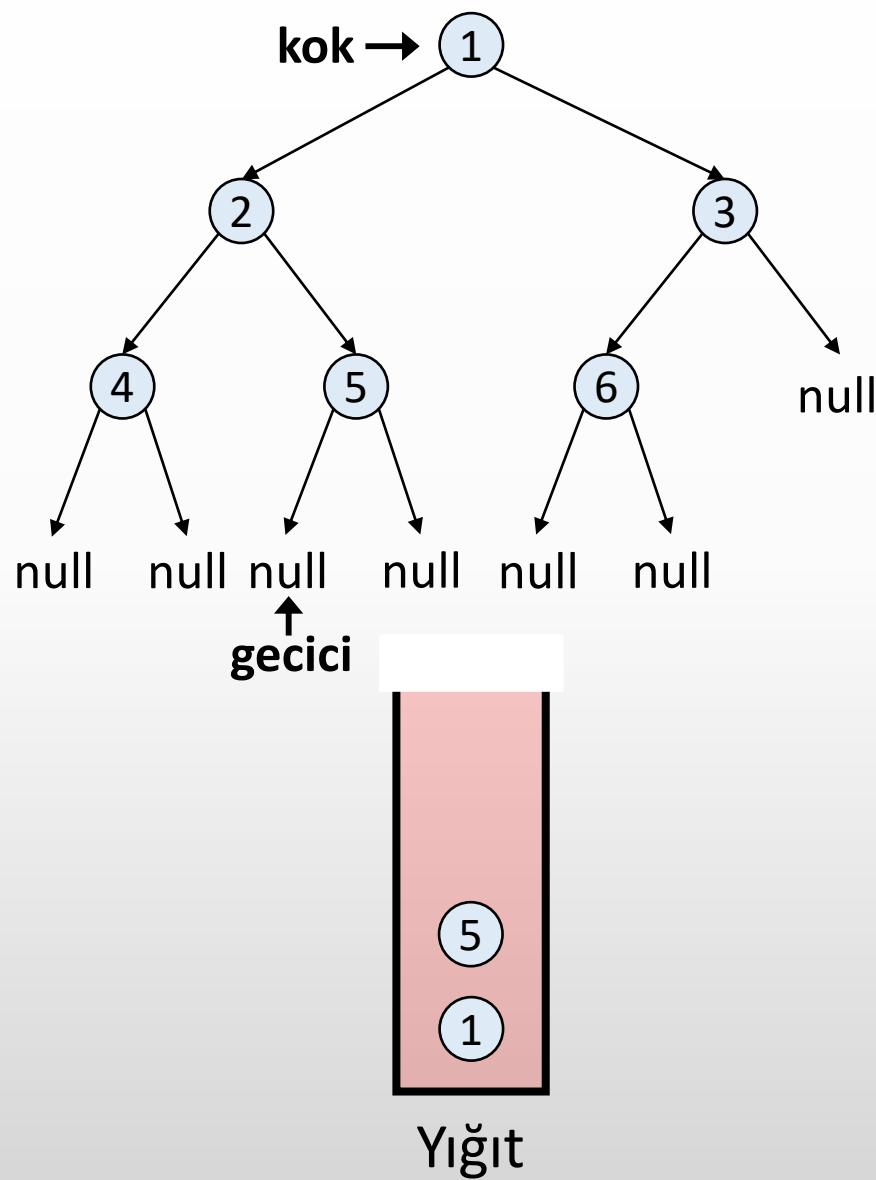
Çıktı: 4 2

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}  
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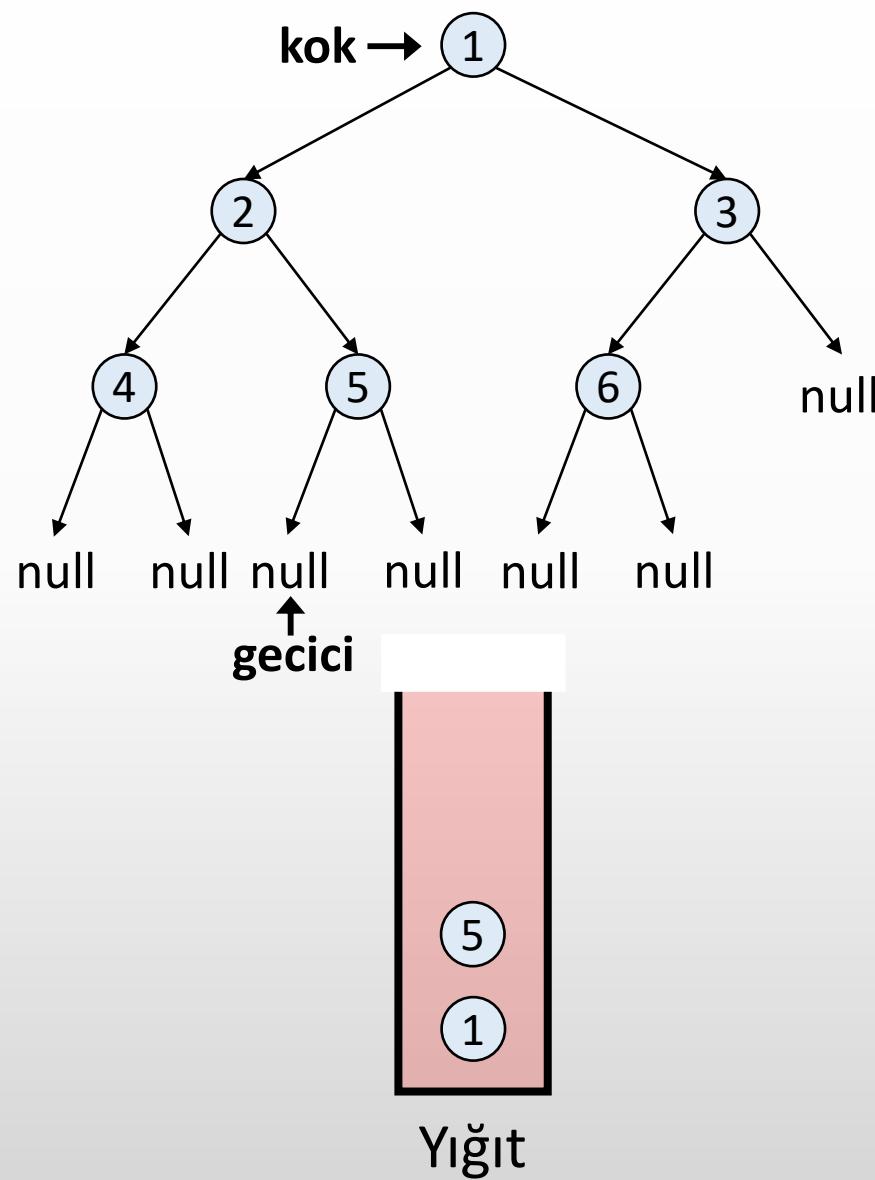
Çıktı: 4 2

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    else {  
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        System.out.print(ecici.veri + " ");  
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    }  
}
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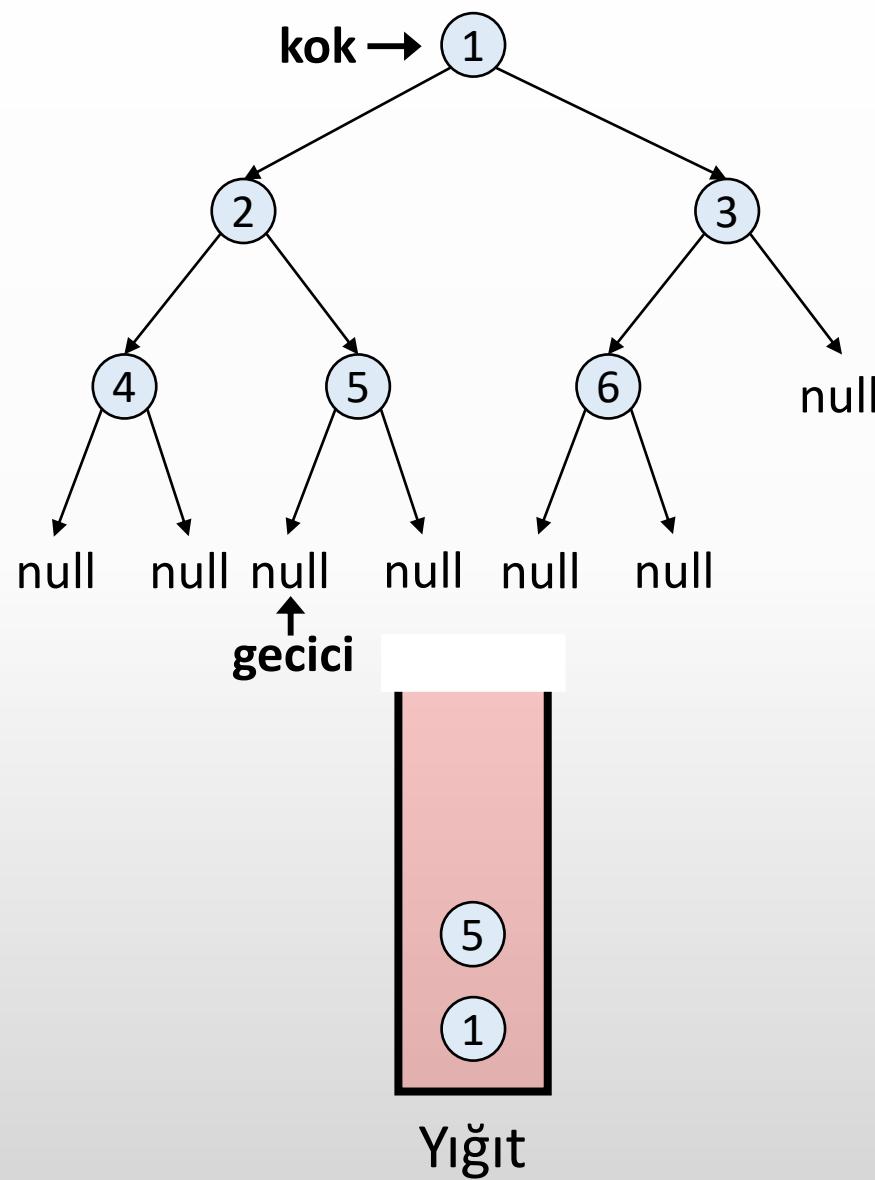
Cıktı: 4 2

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if(kok == null) {  
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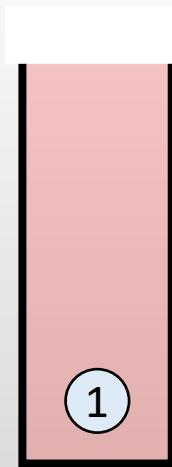
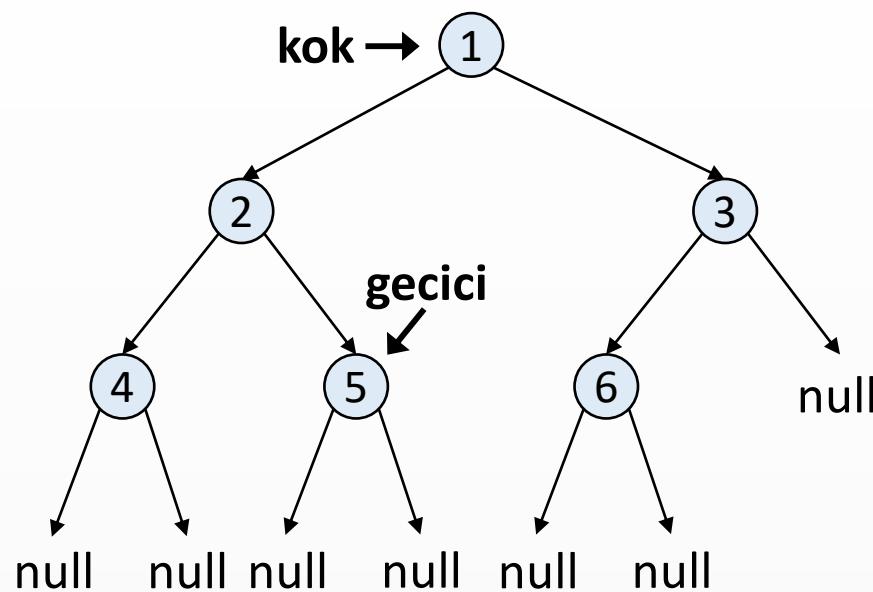
Çıktı: 4 2

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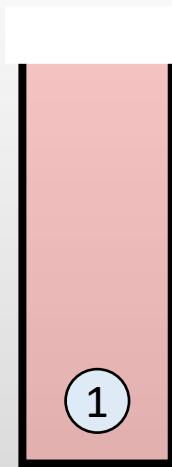
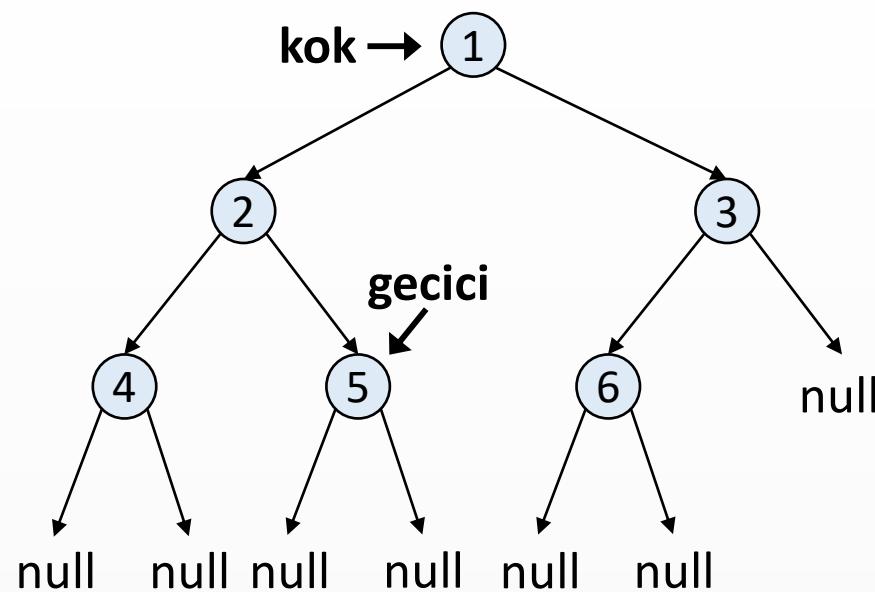
Çıktı: 4 2

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if(kok == null) {  
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```



Cıktı: 4 2

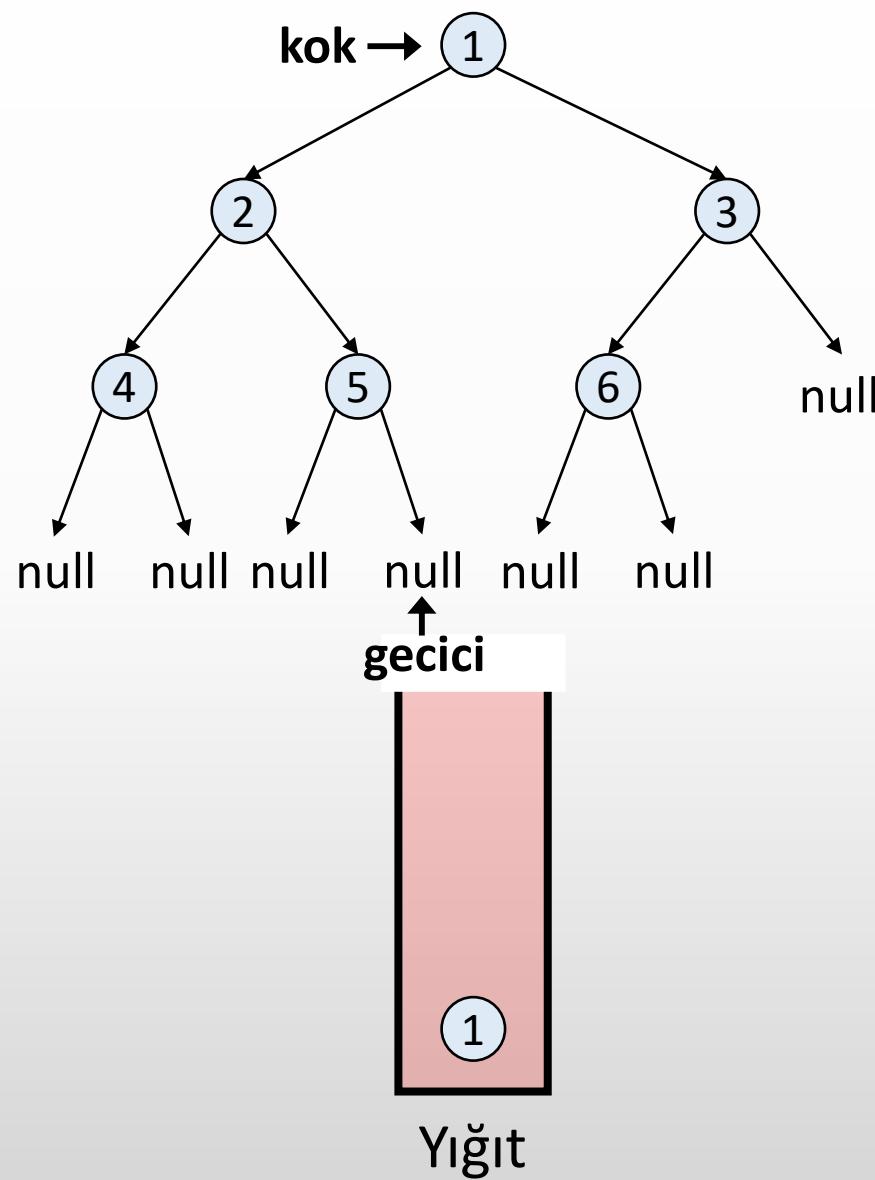
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
 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



Yığıt

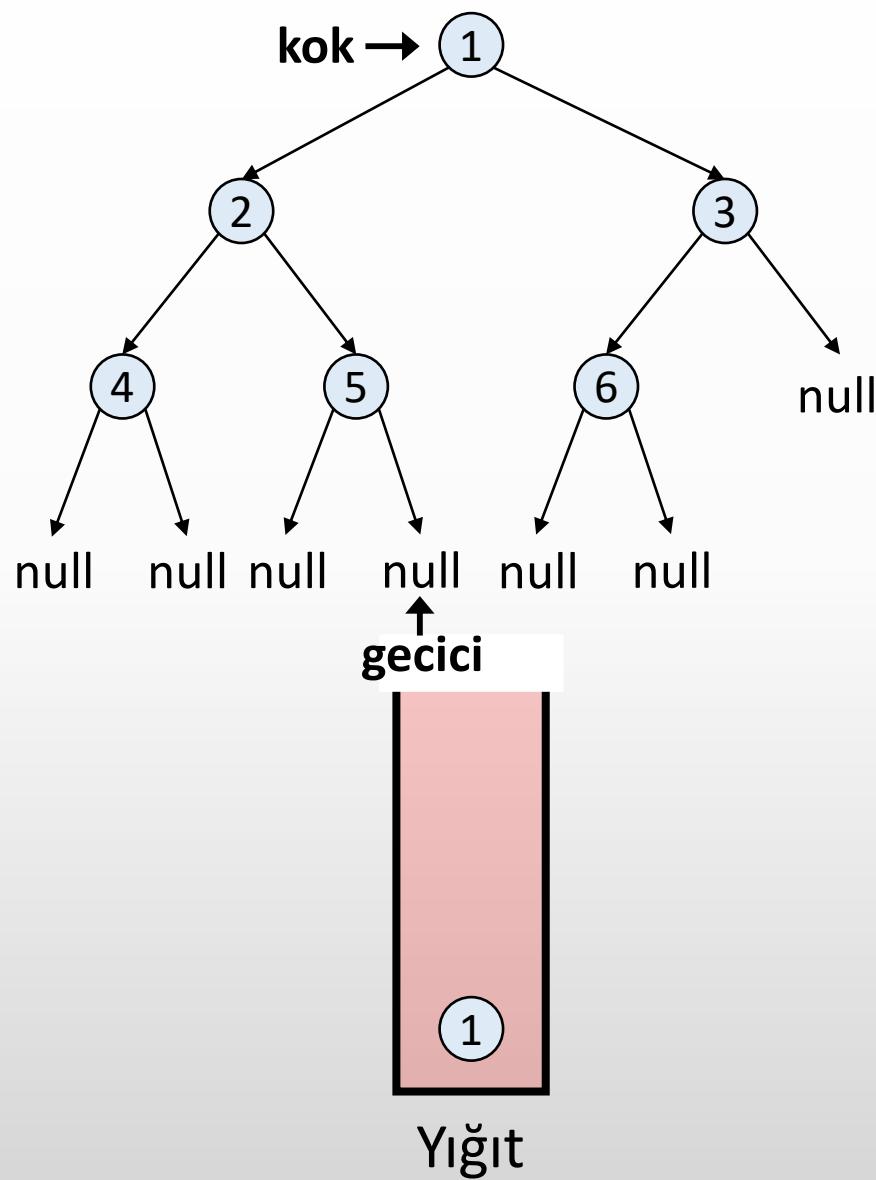
Cıktı: 4 2 5

```
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;  
    }  
}
```



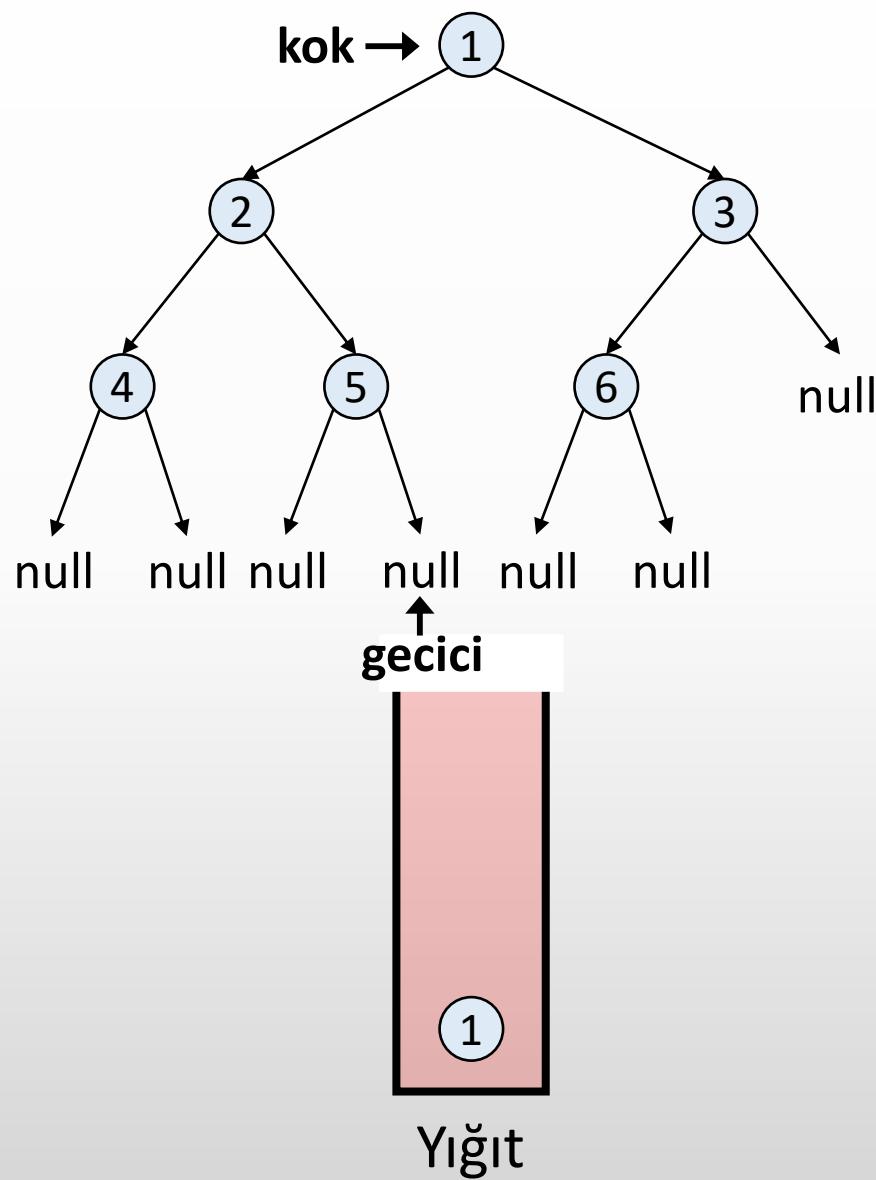
Çıktı: 4 2 5

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



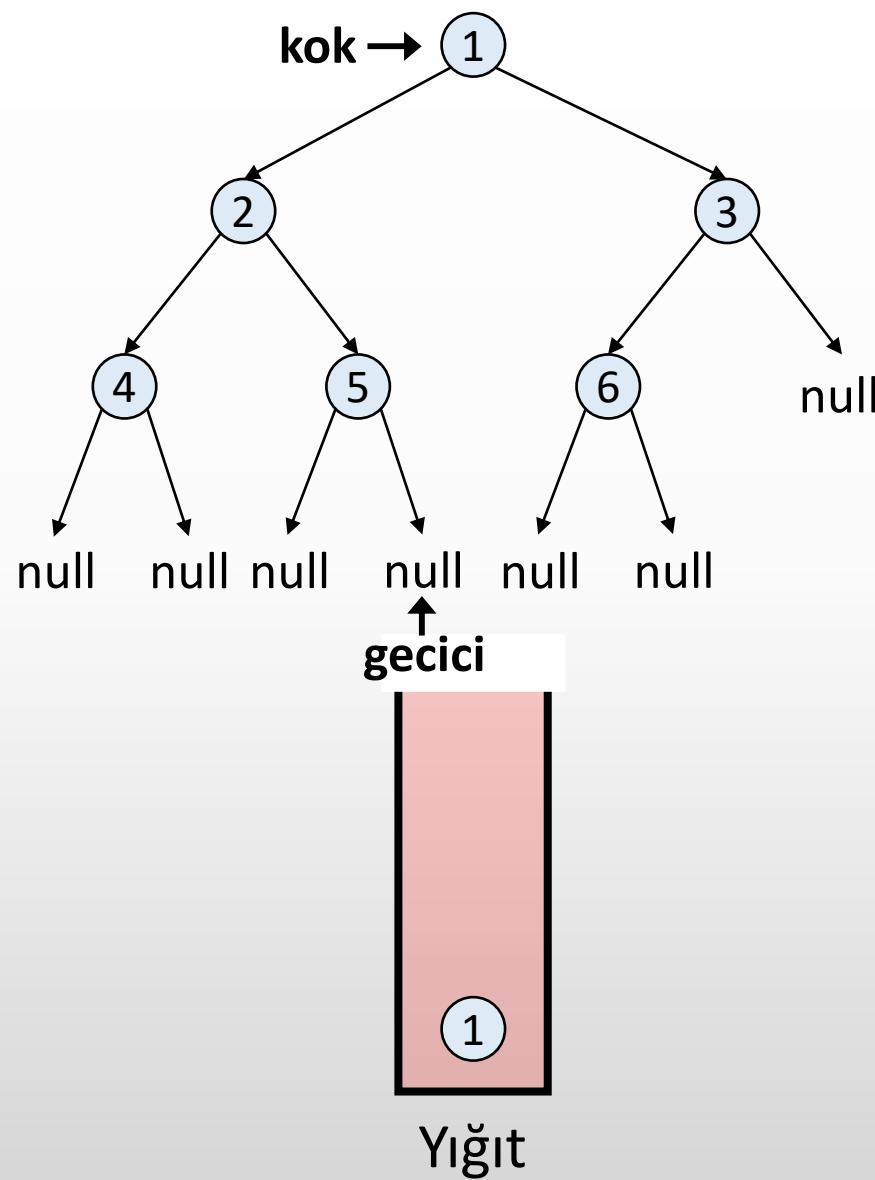
Çıktı: 4 2 5

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if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
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    if(ecici != null) {  
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        System.out.print(ecici.veri + " ");  
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    }  
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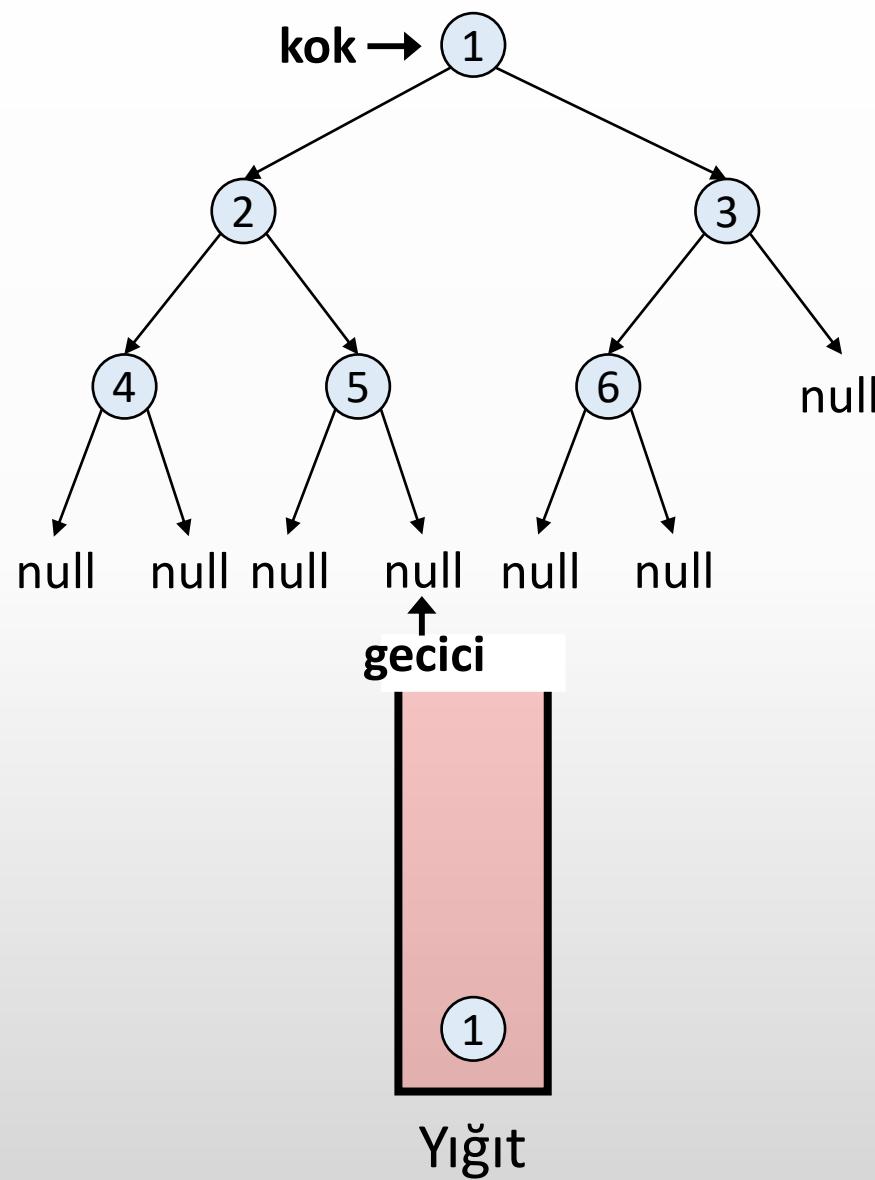
Çıktı: 4 2 5

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



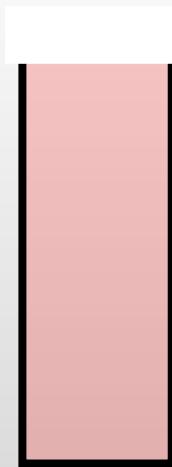
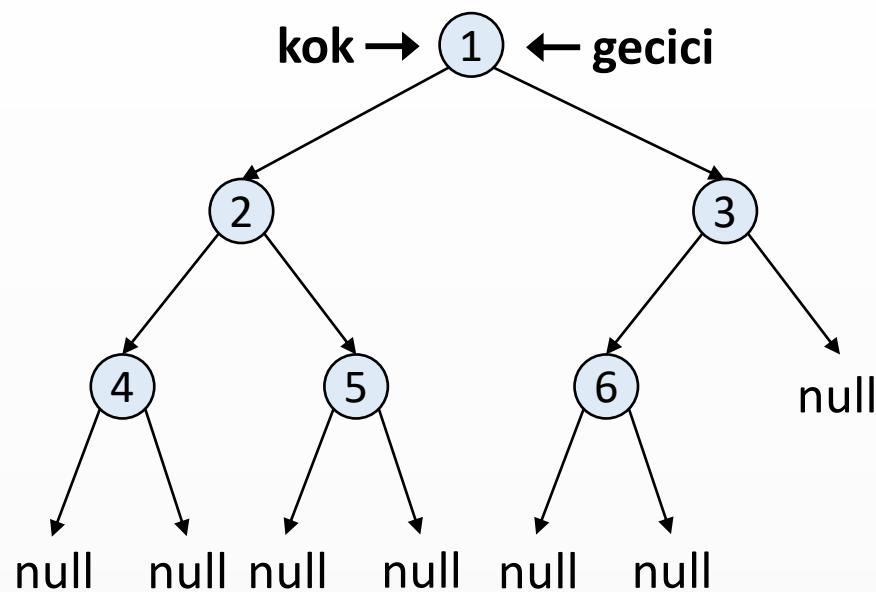
Çıktı: 4 2 5

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



Çıktı: 4 2 5

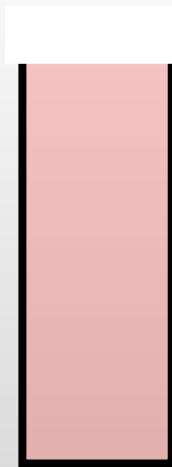
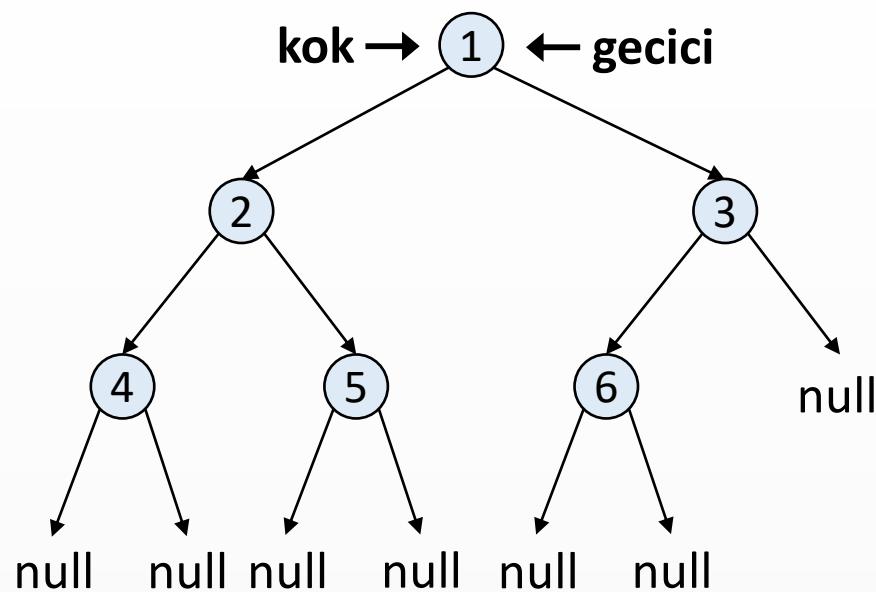
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if(kok == null) {  
    return;  
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Stack<AgacDugumu> yigit = new Stack<>();  
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while(!yigit.isEmpty() || gecici != null) {  
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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



Yığıt

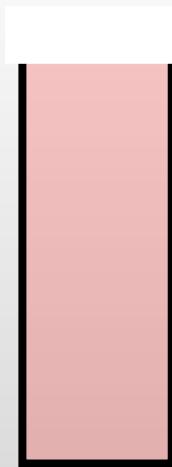
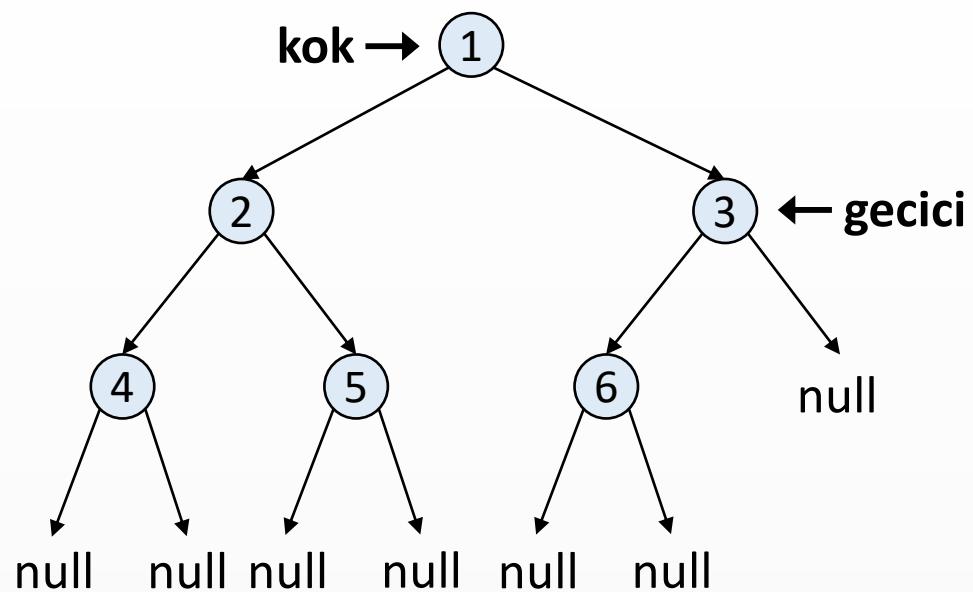
Çıktı: 4 2 5

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



Cıktı: 4 2 5 1

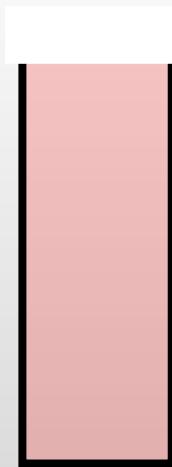
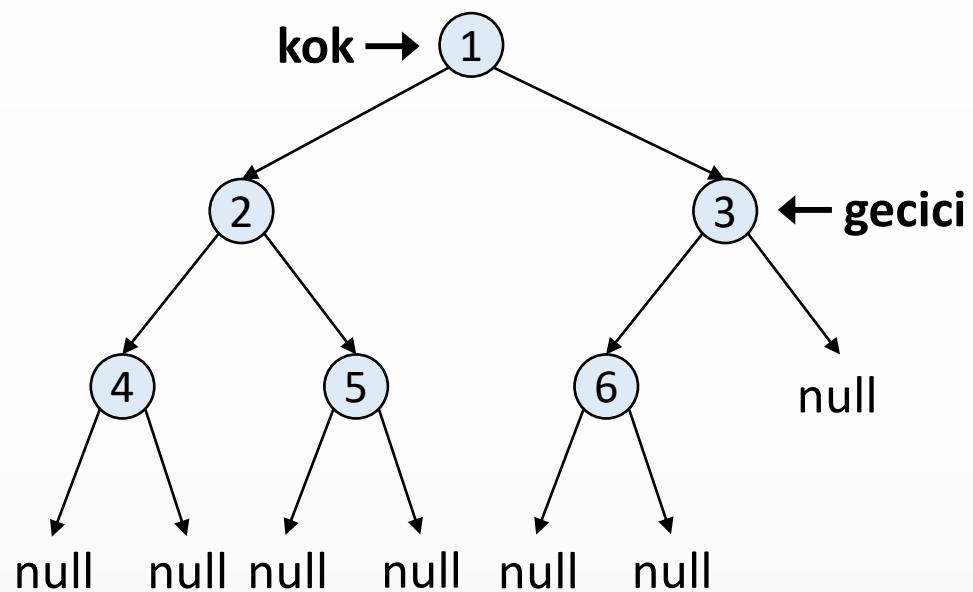
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        gecici = gecici.sol;  
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    else {  
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        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



Yığıt

Cıktı: 4 2 5 1

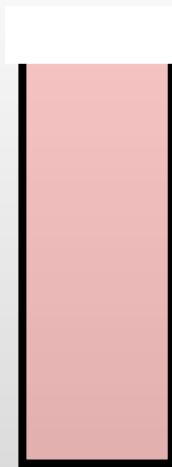
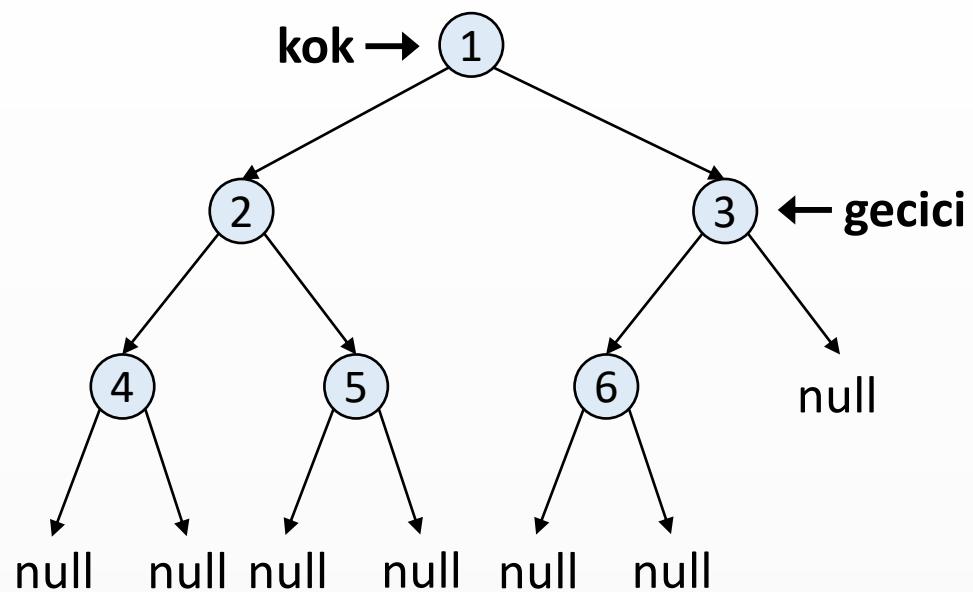
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if(kok == null) {  
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        ecici = ecici.sag;  
    }  
}
```



Yığıt

Cıktı: 4 2 5 1

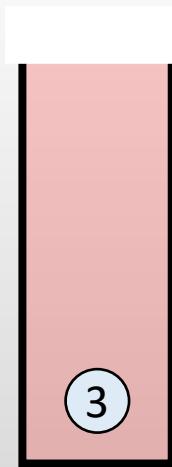
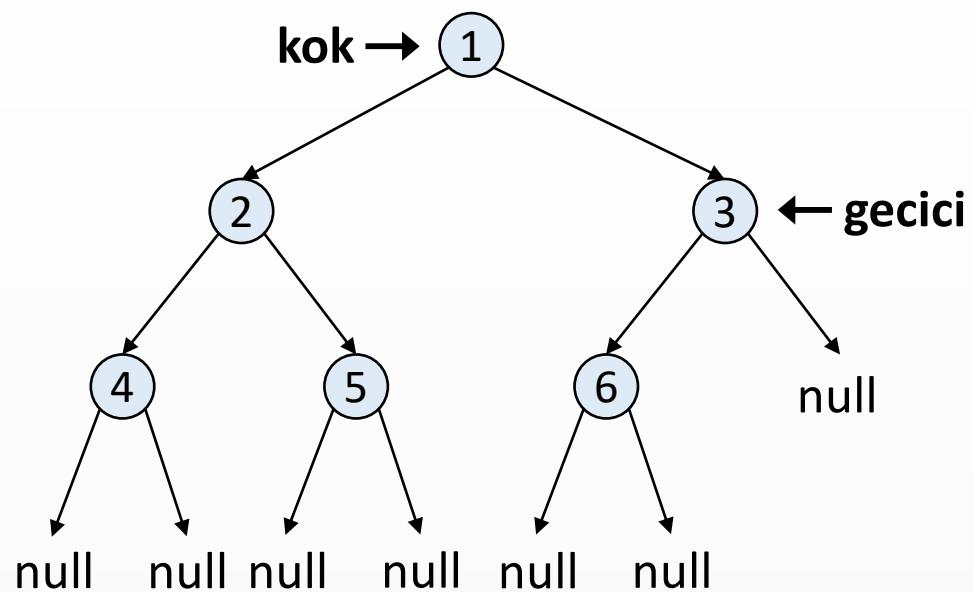
```
if(kok == null) {  
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        gecici = gecici.sag;  
    }  
}
```



Yığıt

Cıktı: 4 2 5 1

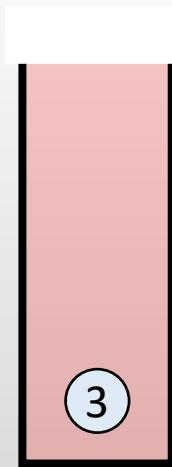
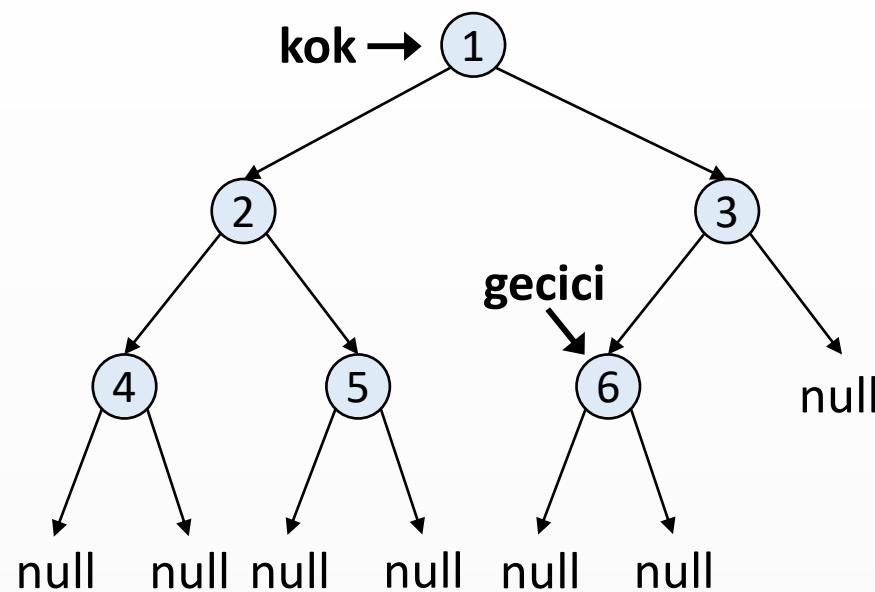
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if(kok == null) {  
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```



Yığıt

Cıktı: 4 2 5 1

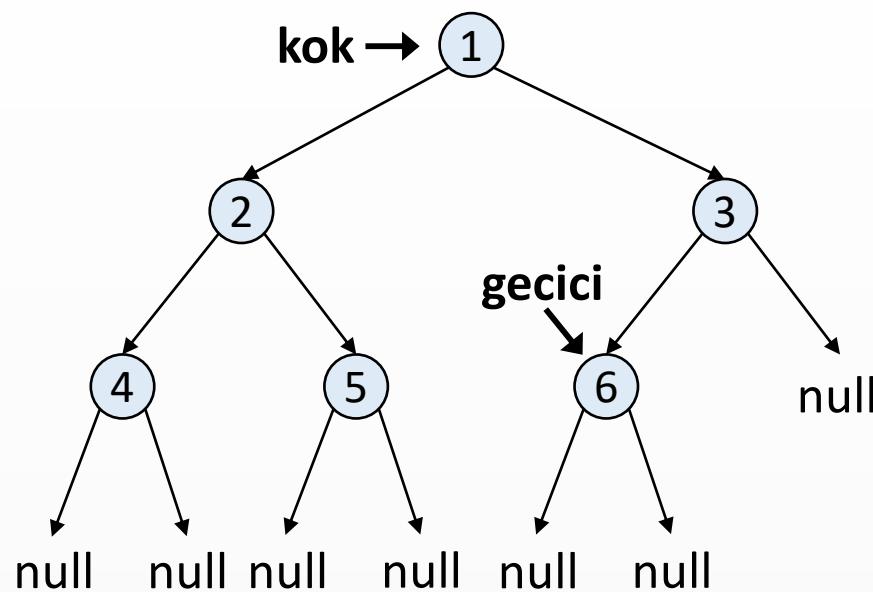
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if(kok == null) {  
    return;  
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        gecici = gecici.sag;  
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```



Yığıt

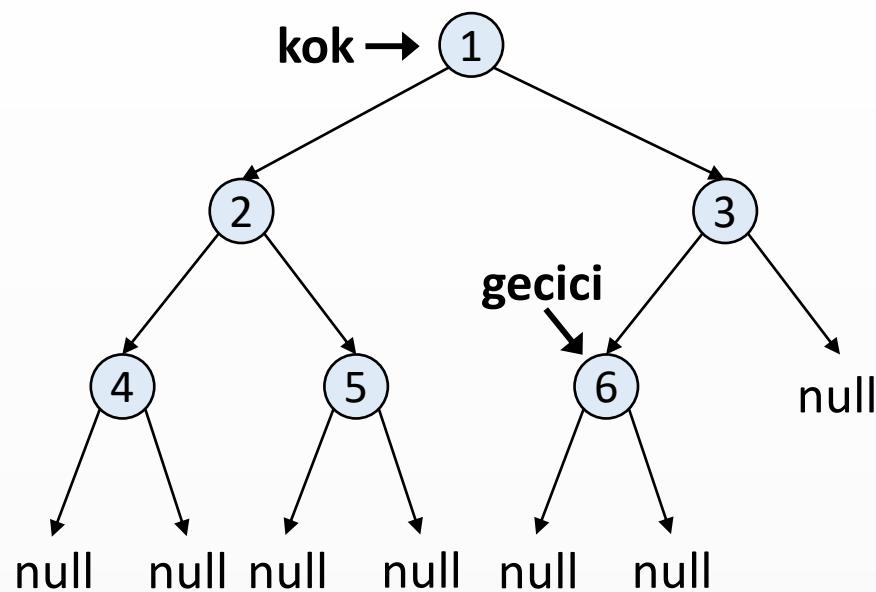
Cıktı: 4 2 5 1

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



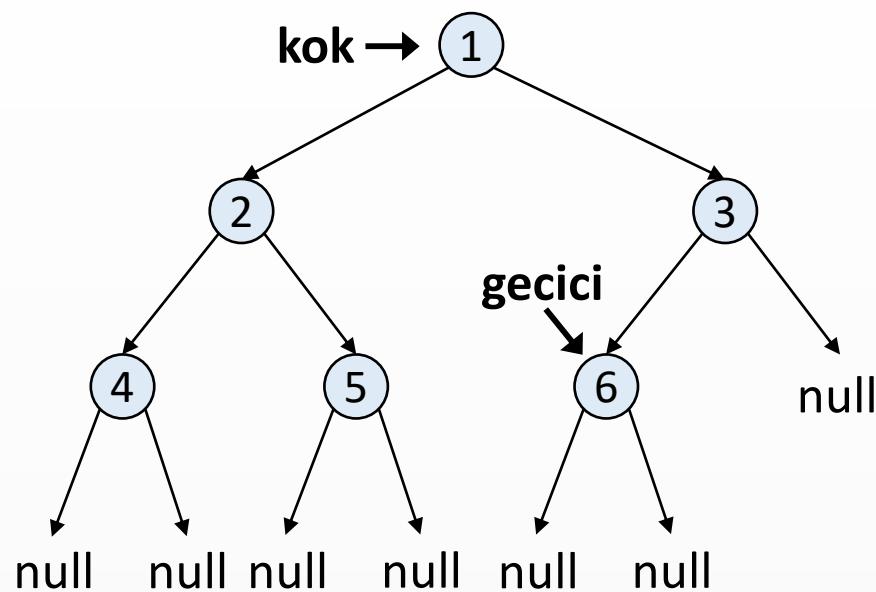
Cıktı: 4 2 5 1

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        System.out.print(gecici.veri + " ");  
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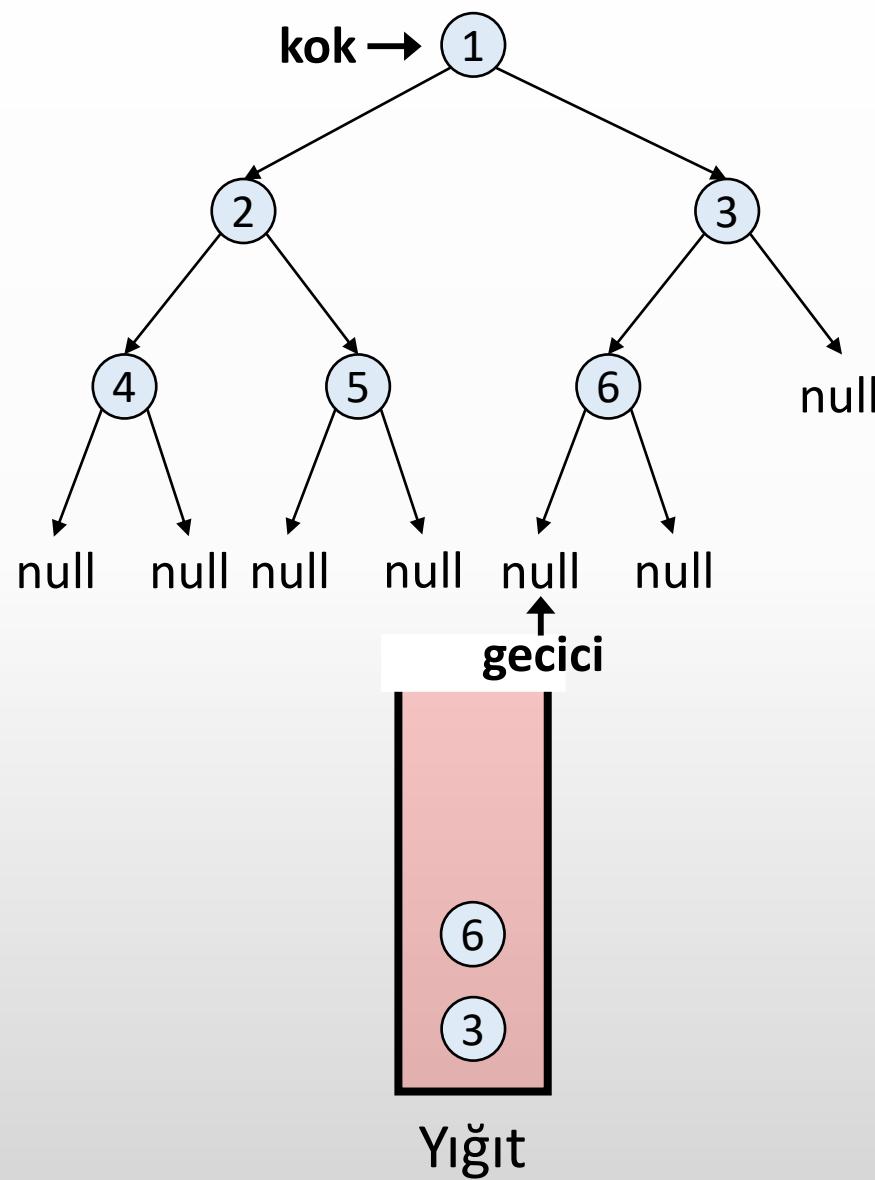
Cıktı: 4 2 5 1

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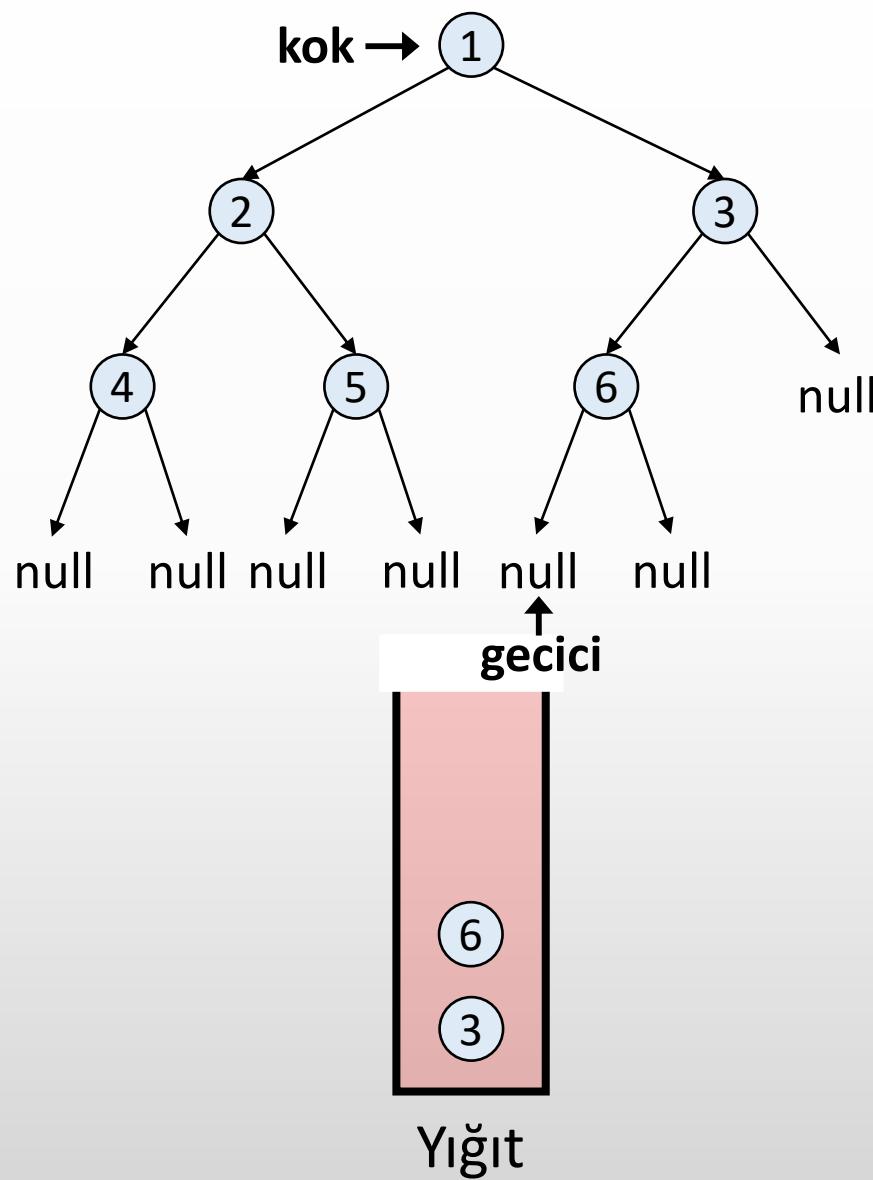
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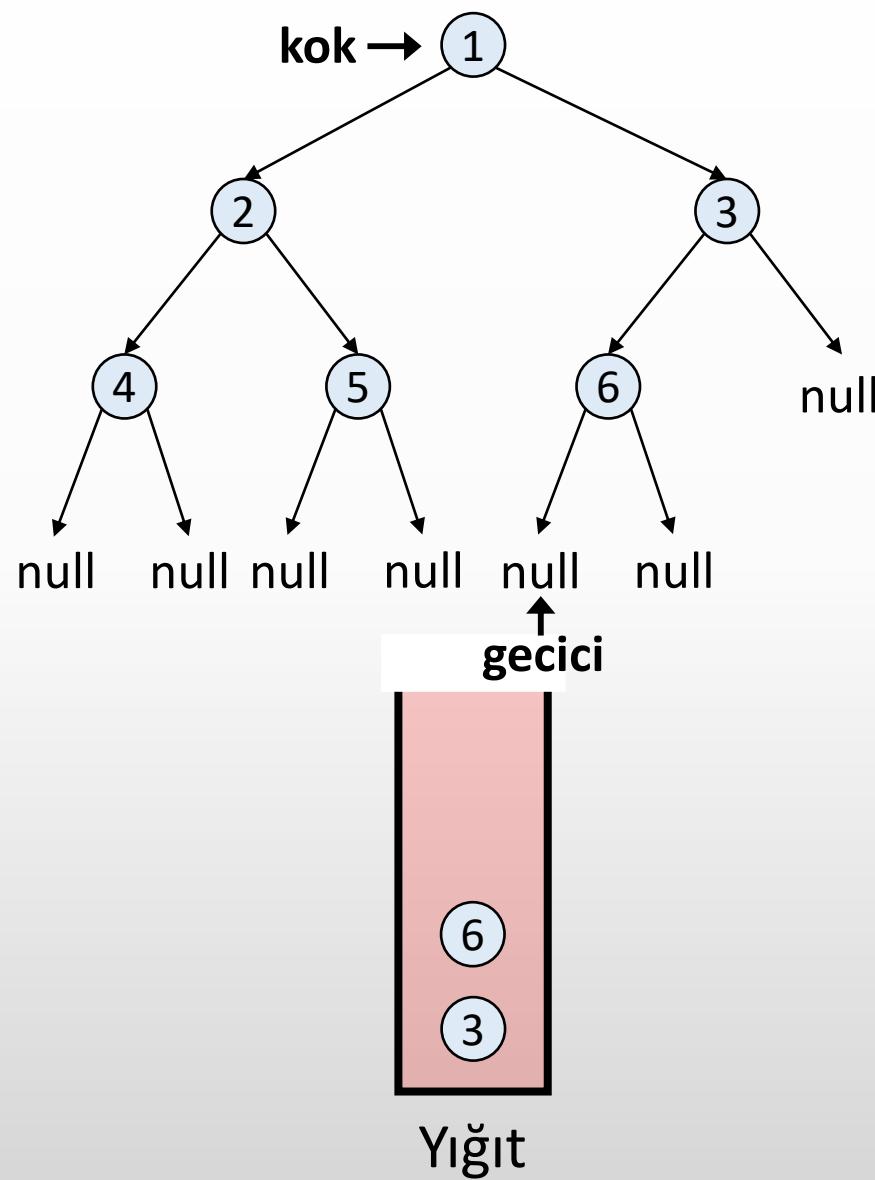
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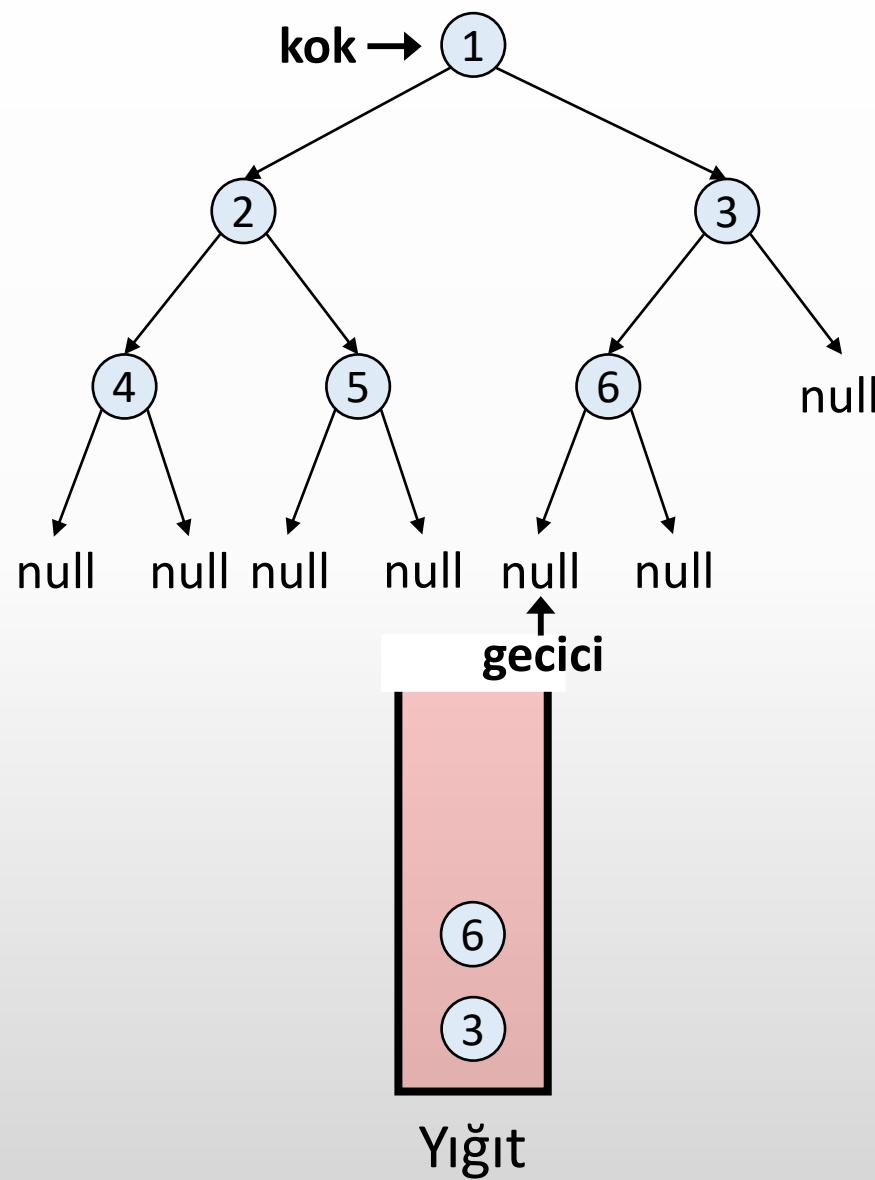
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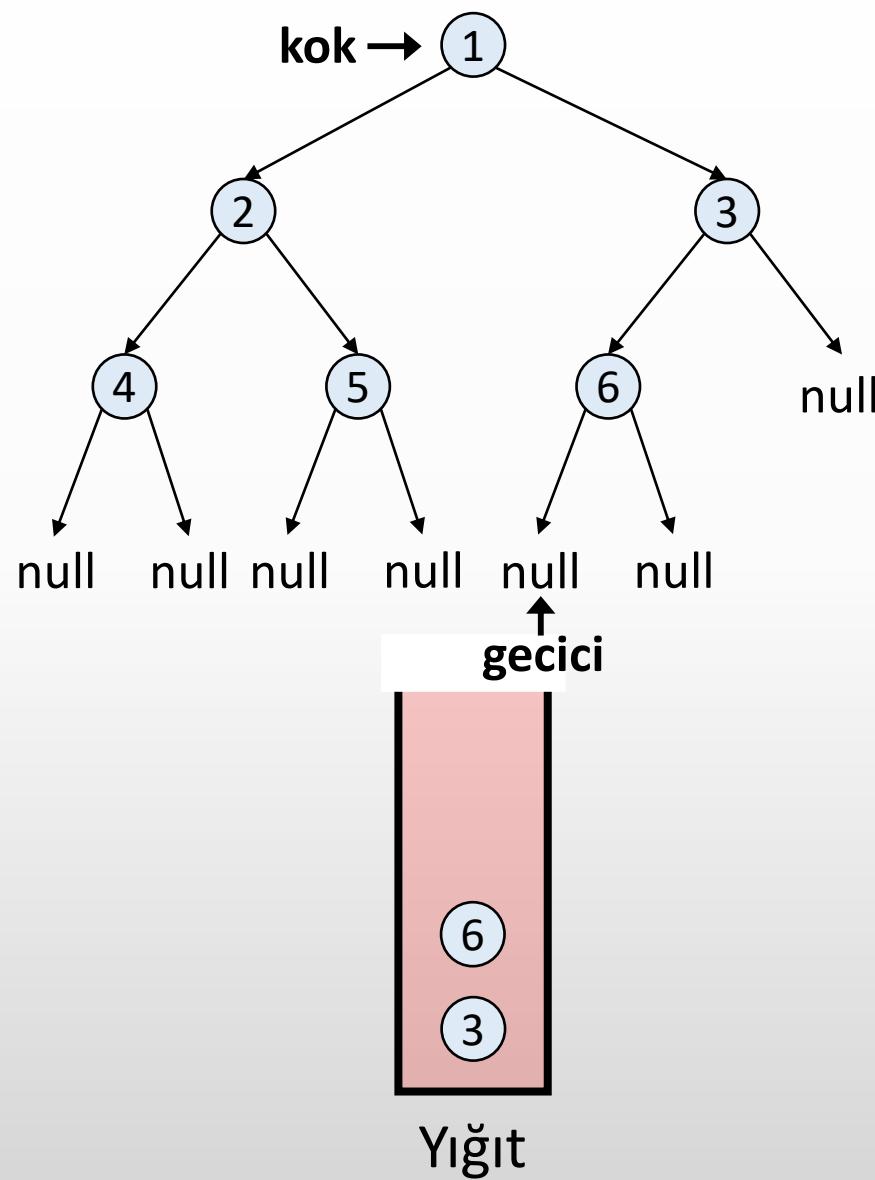
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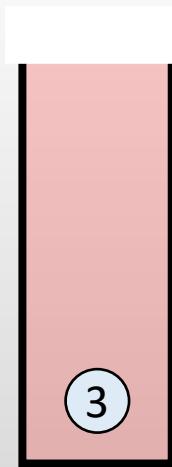
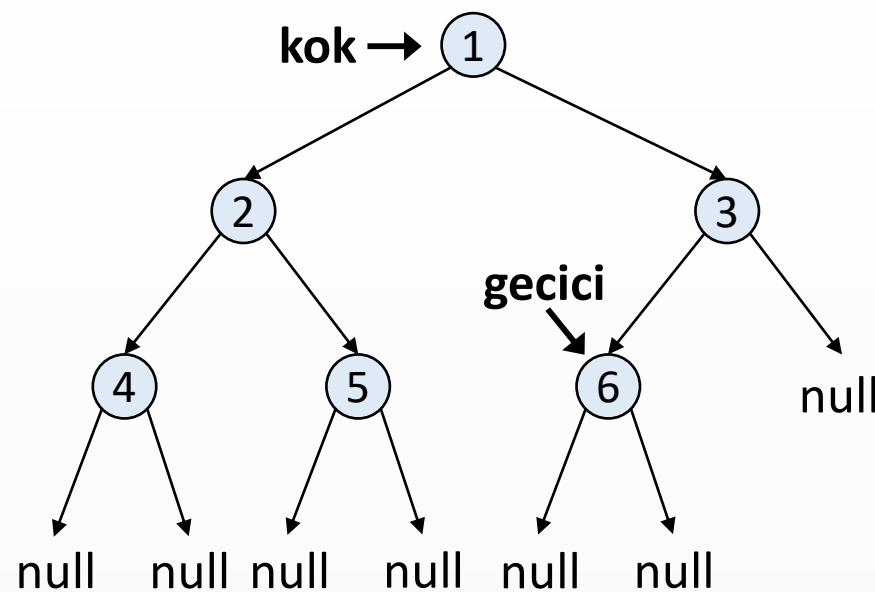
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Çıktı: 4 2 5 1

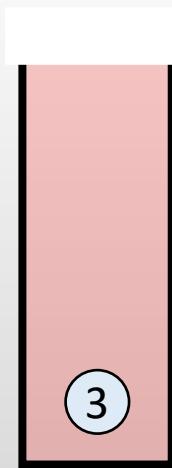
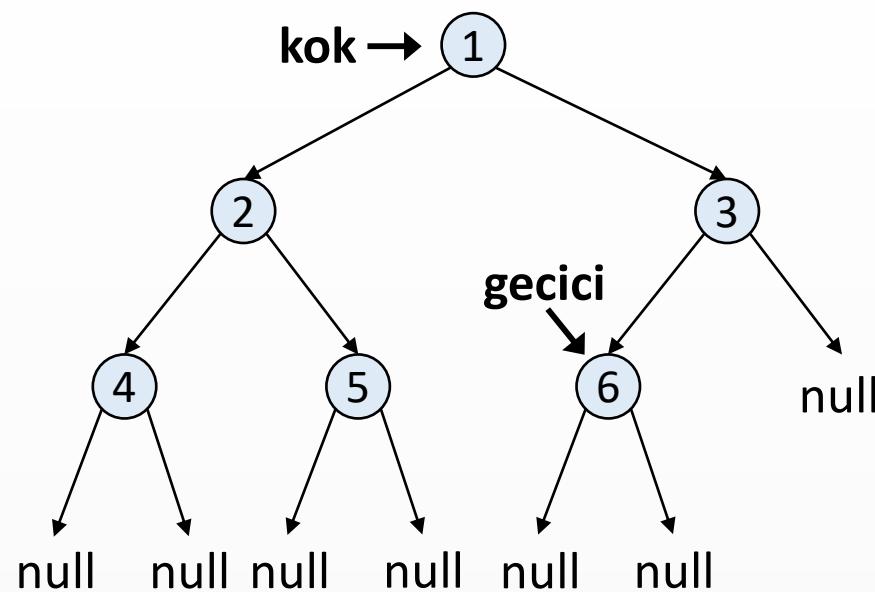
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Yığıt

Cıktı: 4 2 5 1

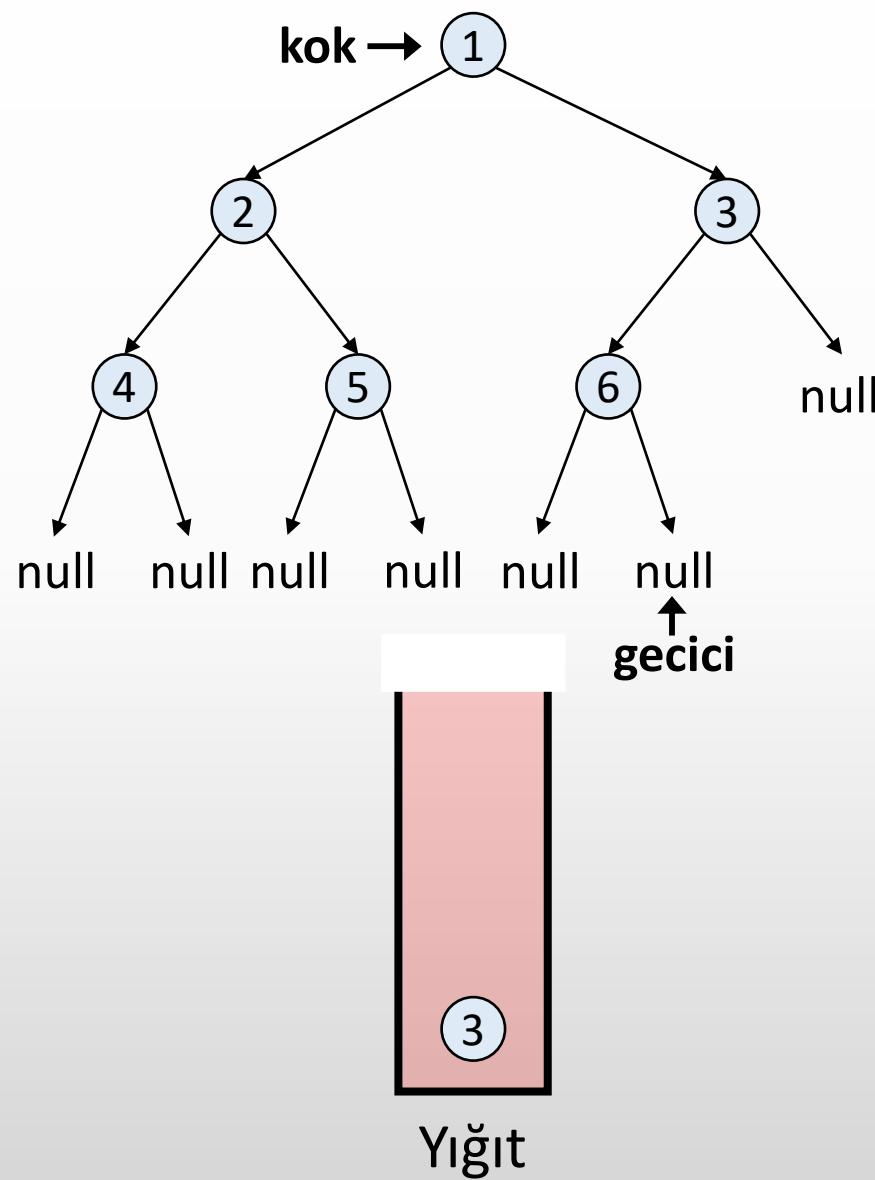
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Yığıt

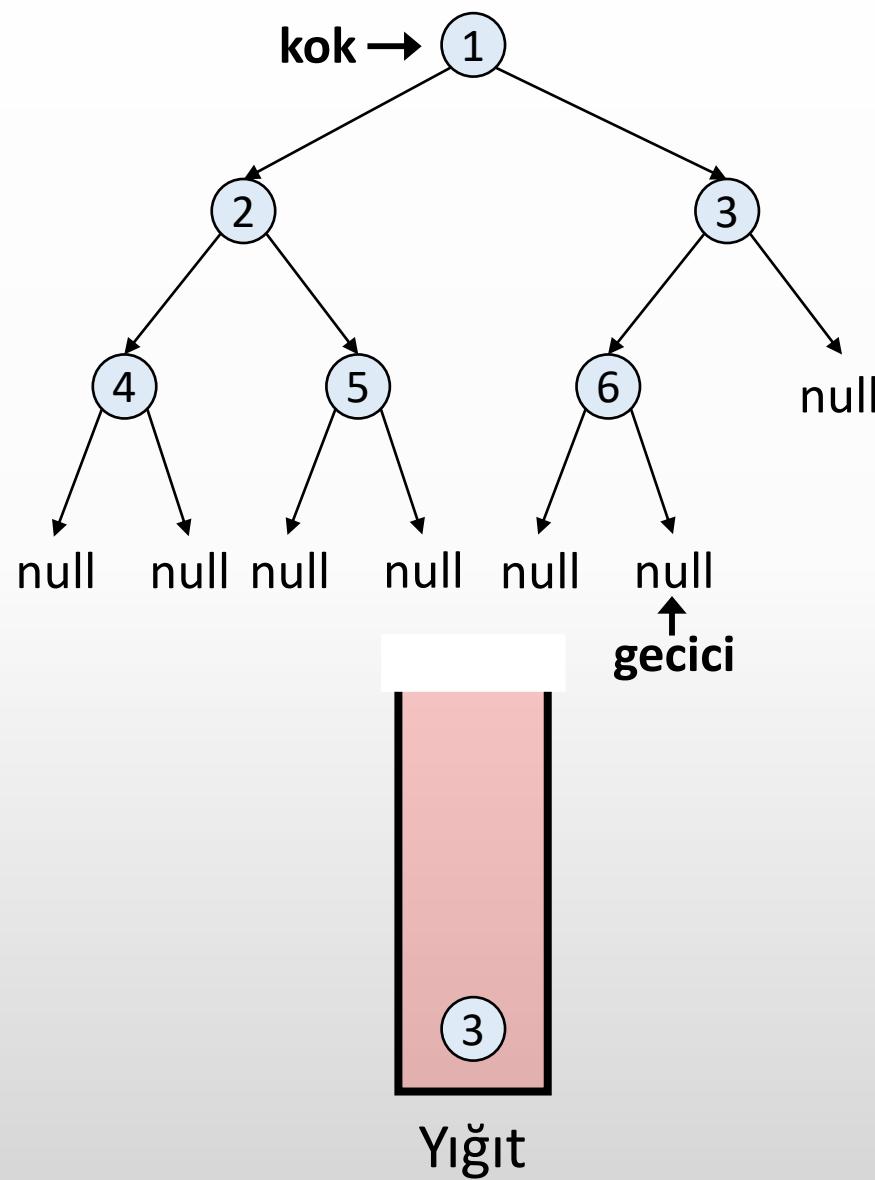
Çıktı: 4 2 5 1 6

```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
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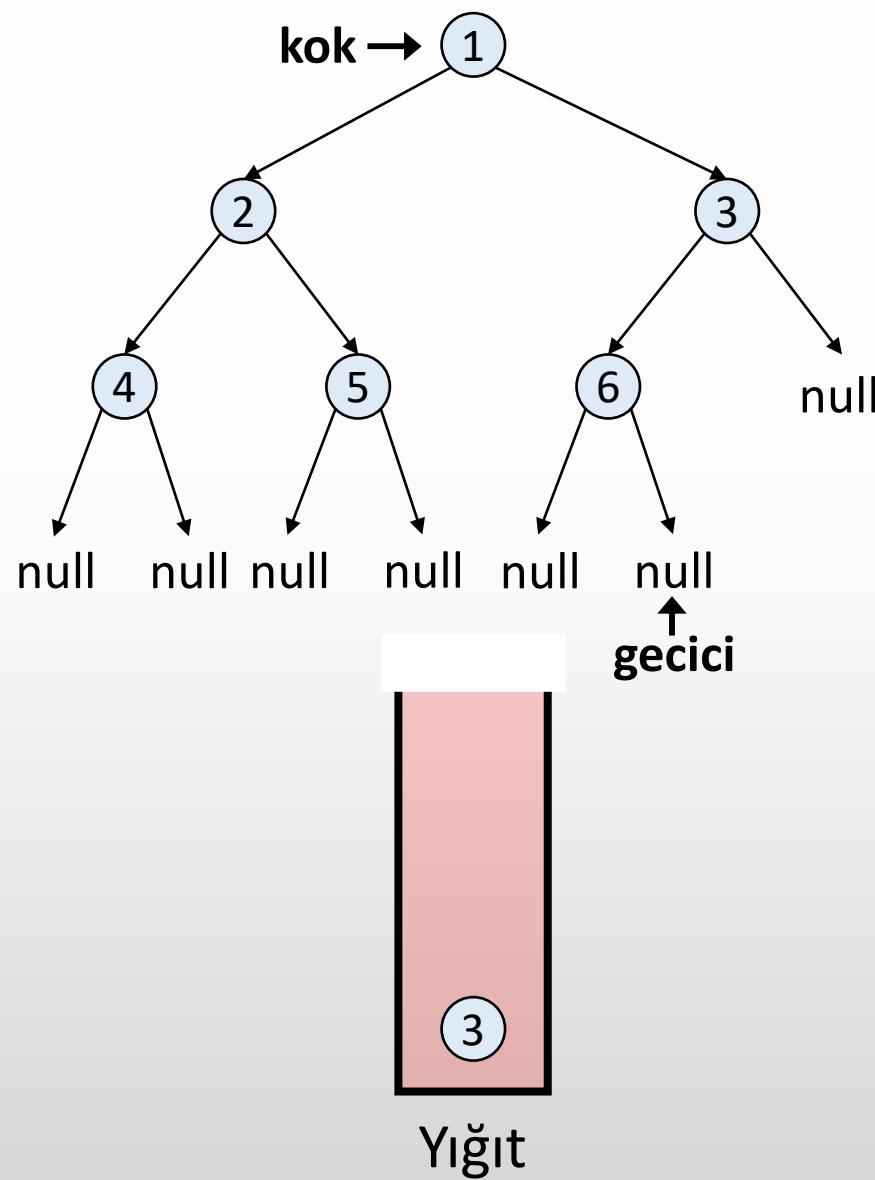
Çıktı: 4 2 5 1 6

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        gecici = gecici.sag;  
    }  
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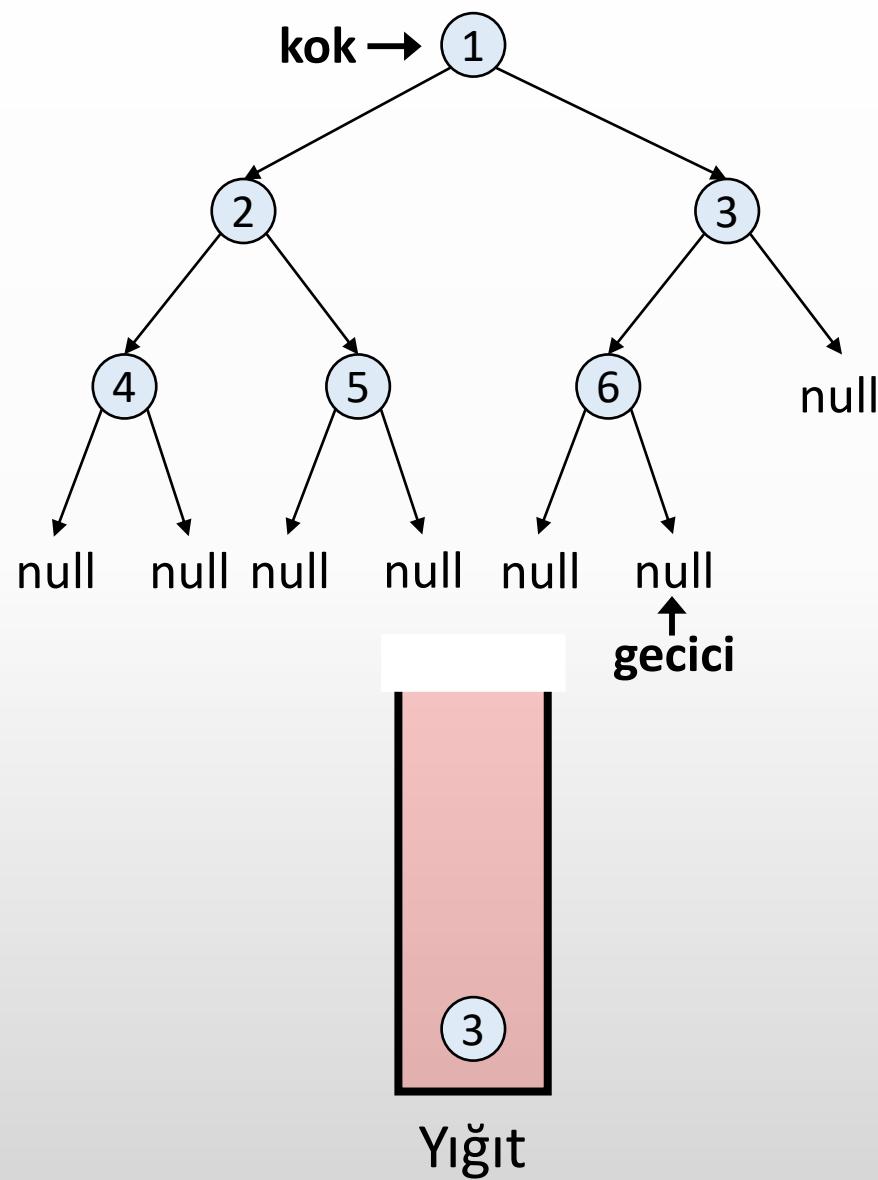
Çıktı: 4 2 5 1 6

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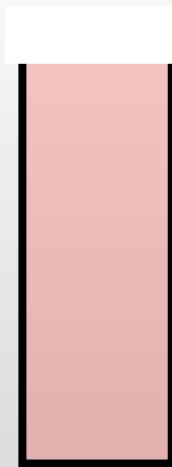
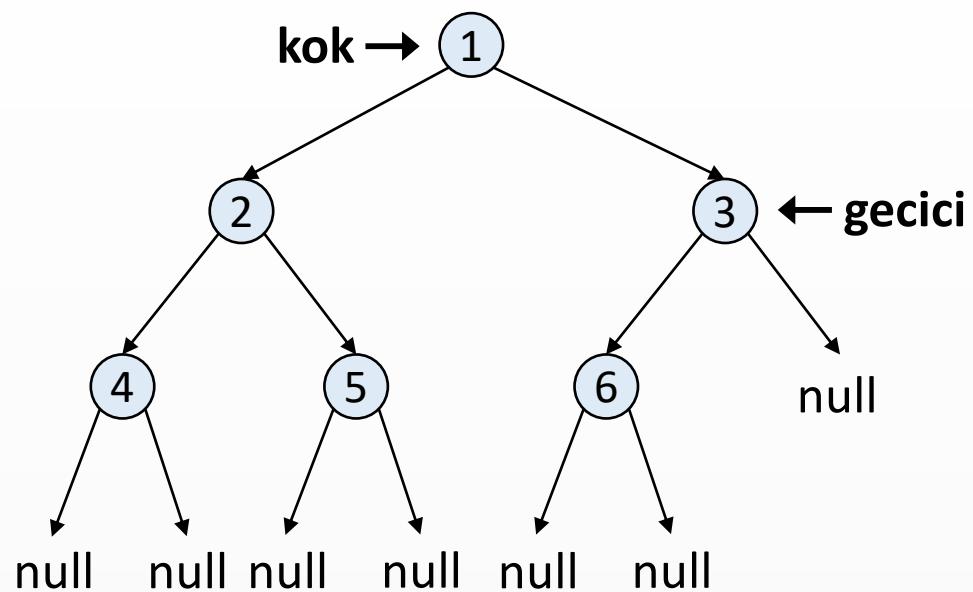
Çıktı: 4 2 5 1 6

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



Çıktı: 4 2 5 1 6

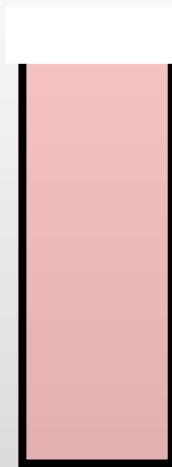
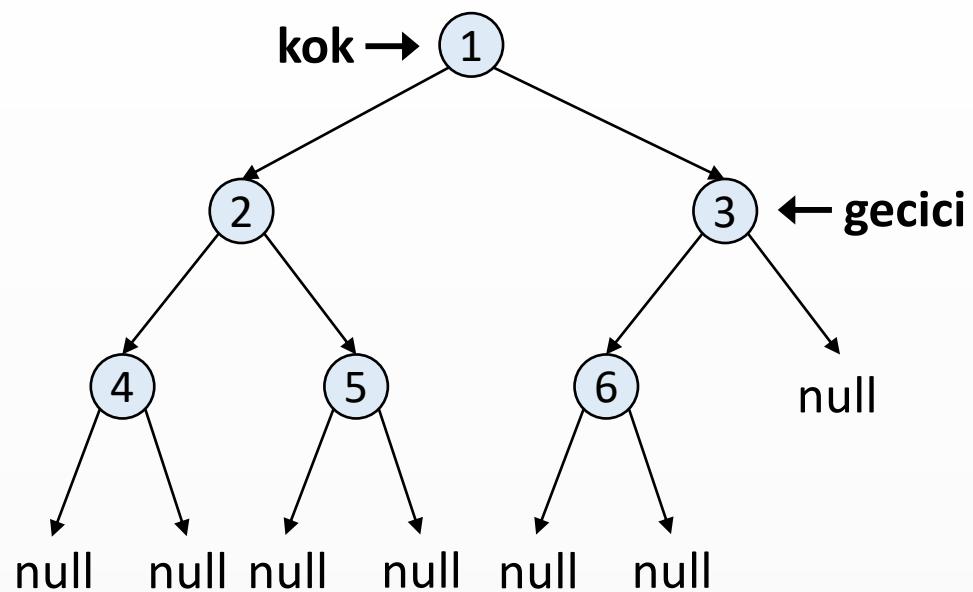
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        gecici = yigit.pop();  
        System.out.print(gecici.veri + " ");  
        gecici = gecici.sag;  
    }  
}
```



Yığıt

Çıktı: 4 2 5 1 6

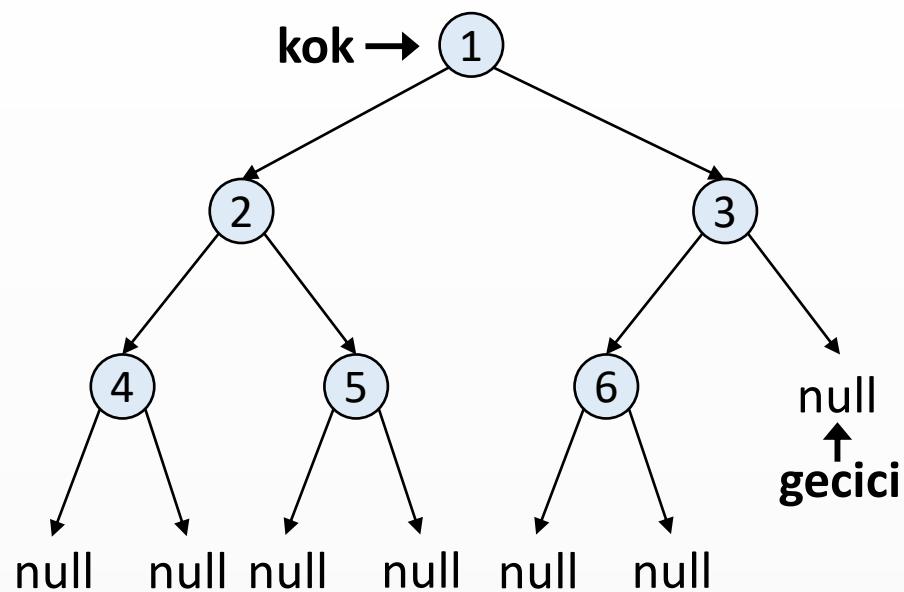
```
if(kok == null) {  
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Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
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        gecici = gecici.sol;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



Yığıt

Çıktı: 4 2 5 1 6 3

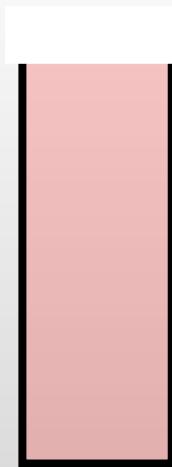
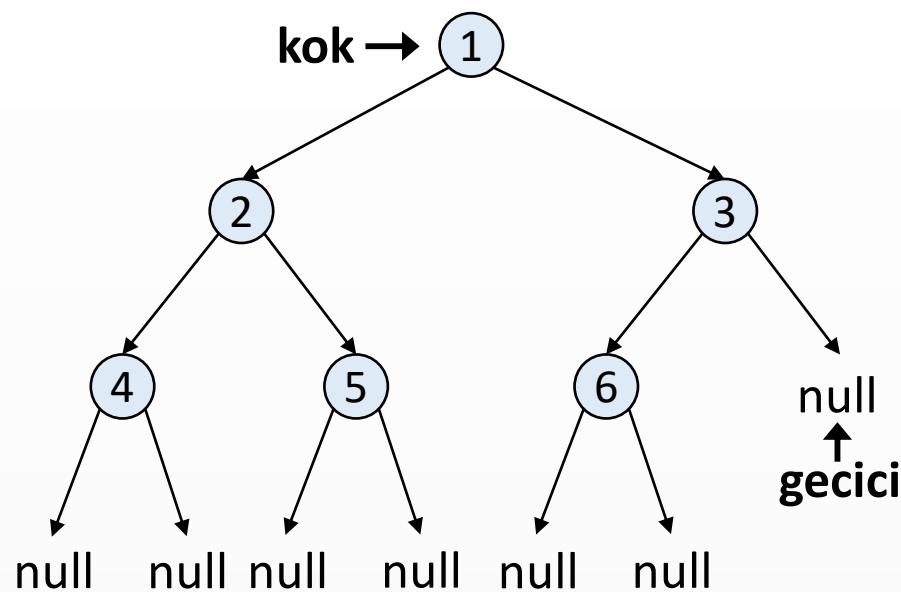
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(ecici != null) {  
        yigit.push(ecici);  
        ecici = ecici.sol;  
    }  
    else {  
        ecici = yigit.pop();  
      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



Yığıt

Çıktı: 4 2 5 1 6 3

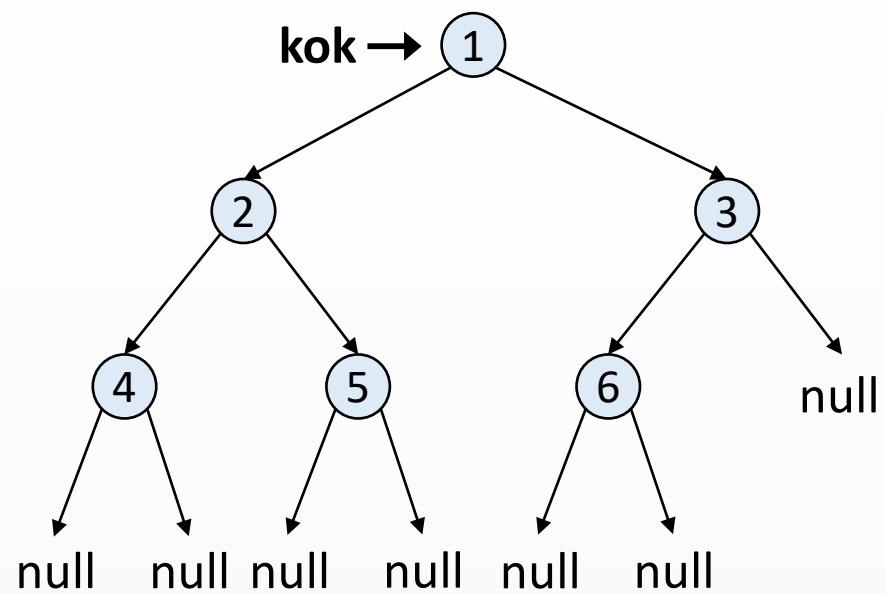
```
if(kok == null) {  
    return;  
}  
Stack<AgacDugumu> yigit = new Stack<>();  
AgacDugumu gecici = kok;  
while(!yigit.isEmpty() || gecici != null) {  
    if(gecici != null) {  
        yigit.push(gecici);  
        gecici = gecici.sol;  
    }  
    else {  
        gecici = yigit.pop();  
 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



Yığıt

Çıktı: 4 2 5 1 6 3

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



Çıktı: 4 2 5 1 6 3



```

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

```

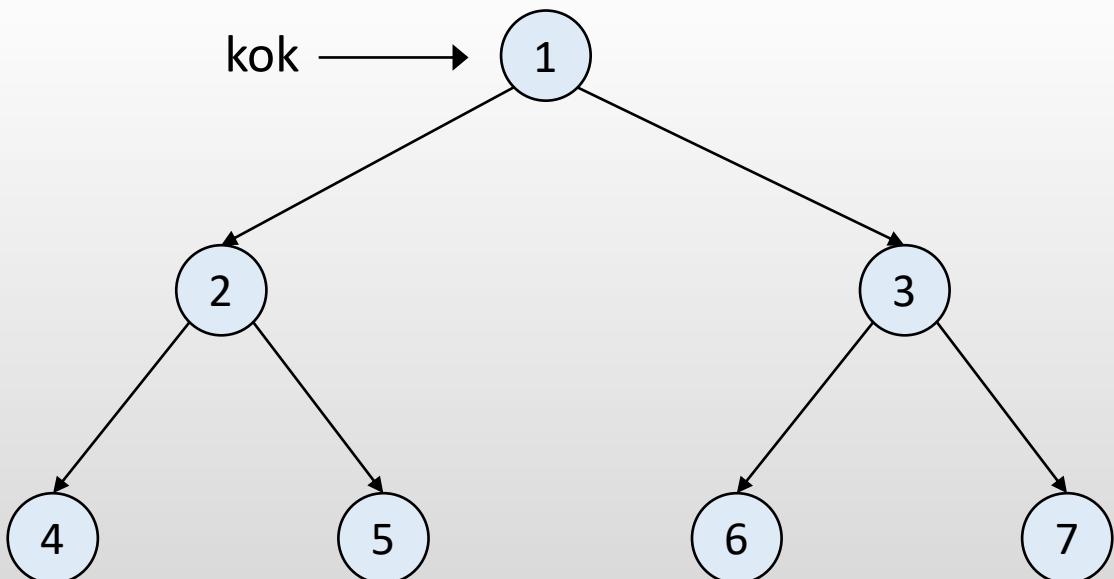
# Kök Sonda (Postorder) Dolaşımı





# Kök Sonda (Postorder) Dolaşımı

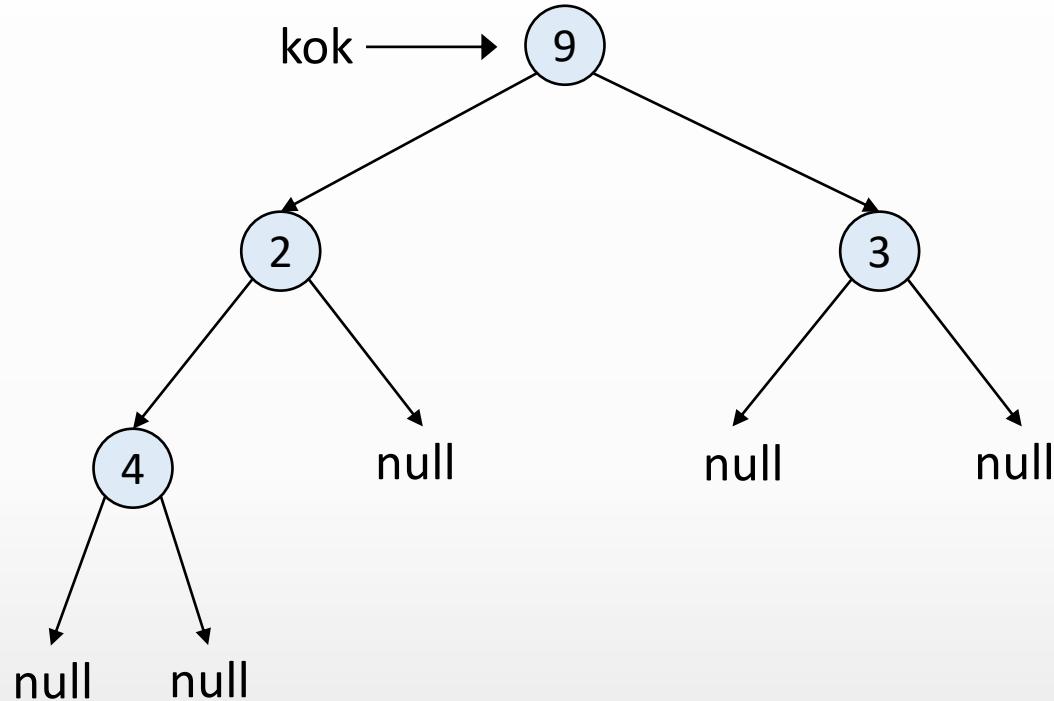
- Kök sonda olacak şekilde sol alt ağacı dolaş.
- Kök sonda olacak şekilde sağ alt ağacı dolaş.
- Kök düğümü ziyaret et.



Kök sonda dolaşımı: 4 5 2 6 7 3 1



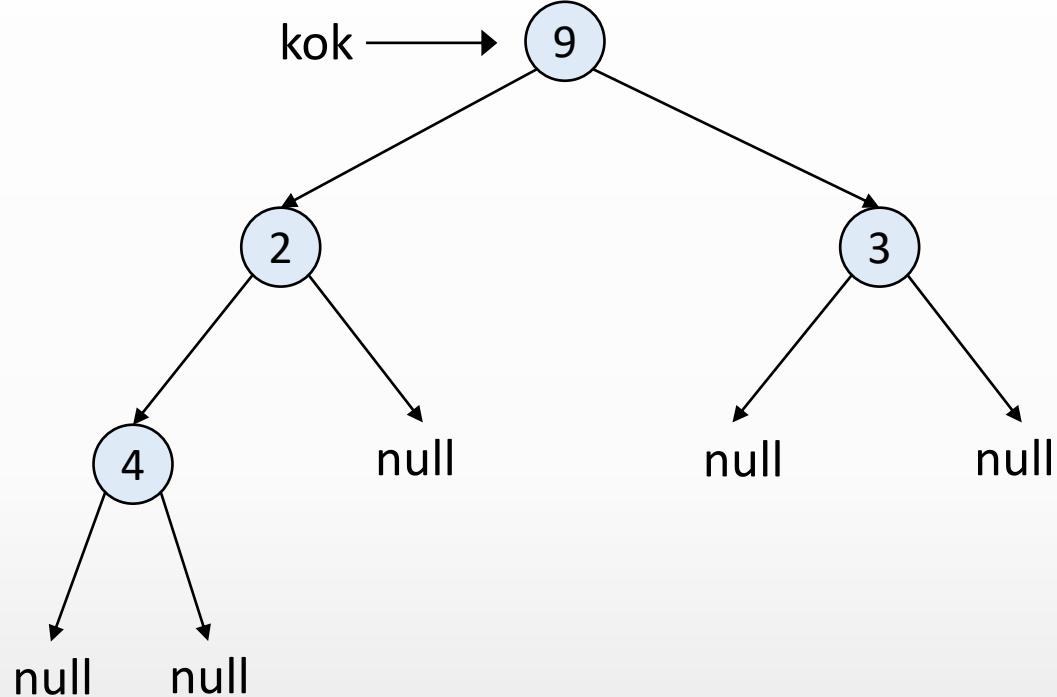
## Çağırma Yığıtı (Call Stack)



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

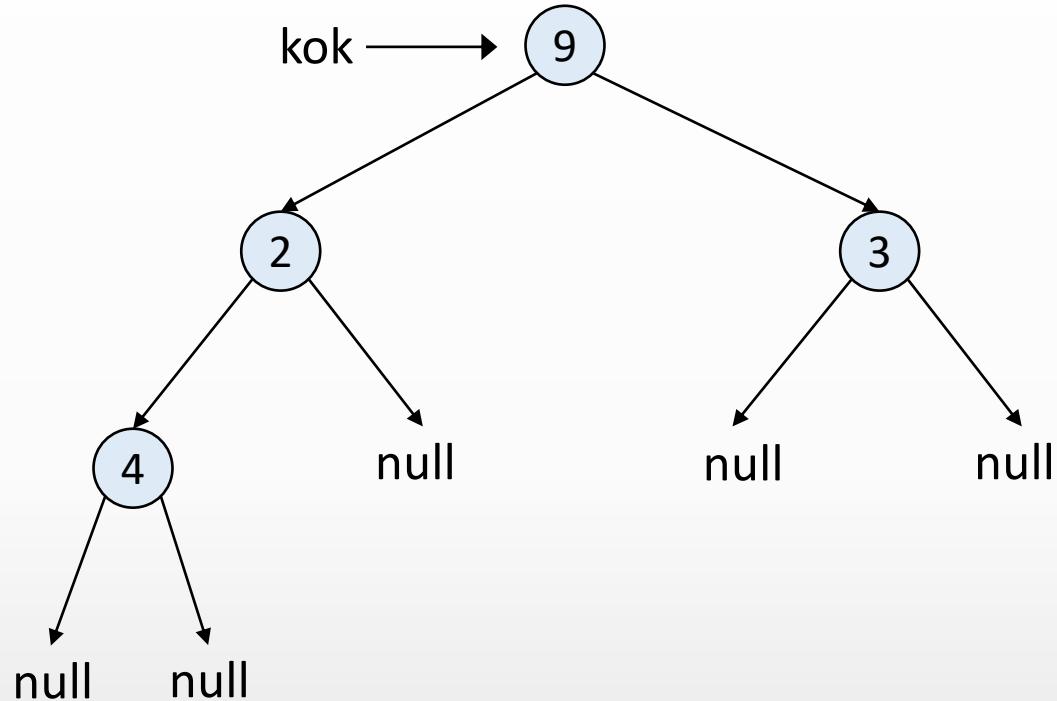
Çıktı:

→

```
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

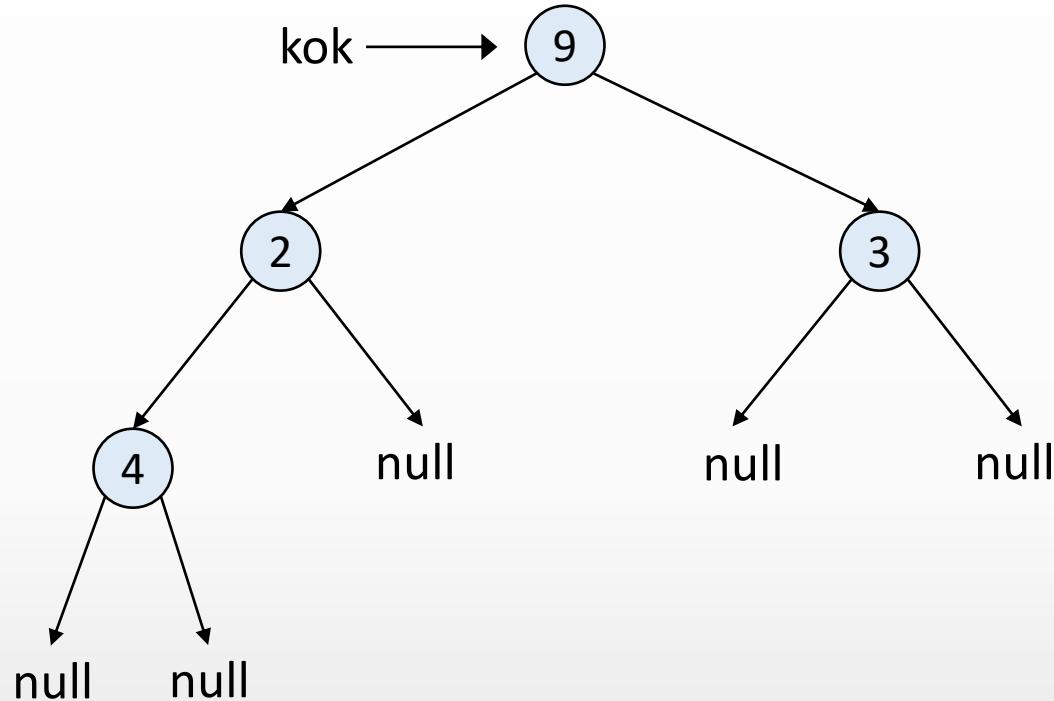
→

```
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 }
```

Çıktı:



## Çağırma Yığıtı (Call Stack)



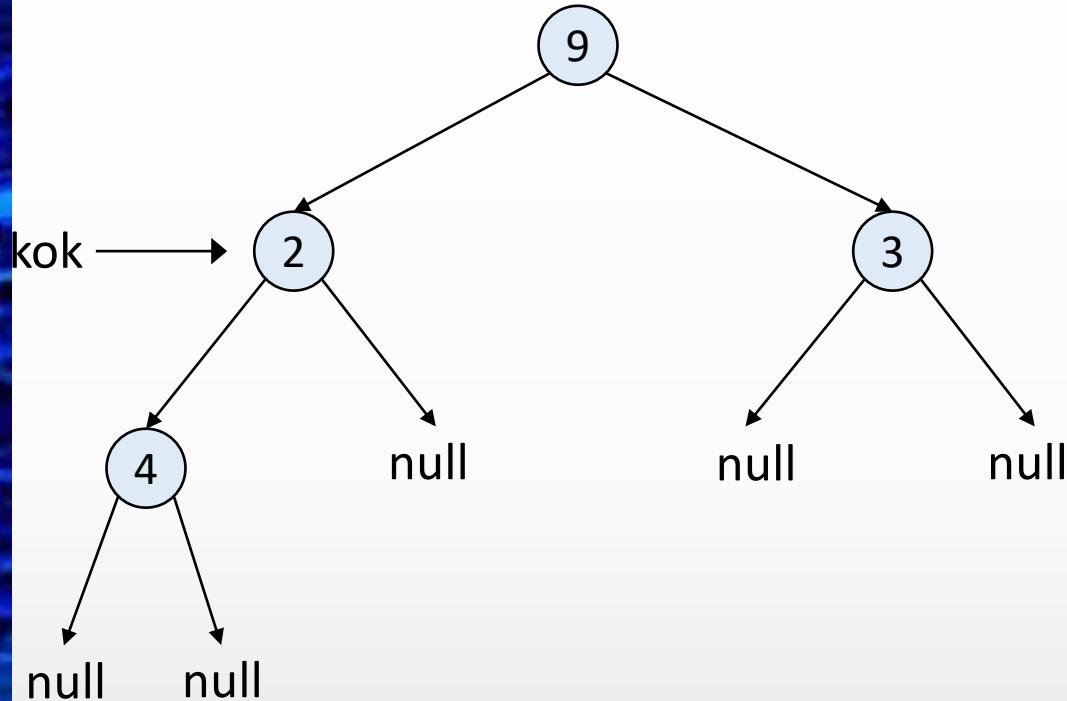
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9

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)



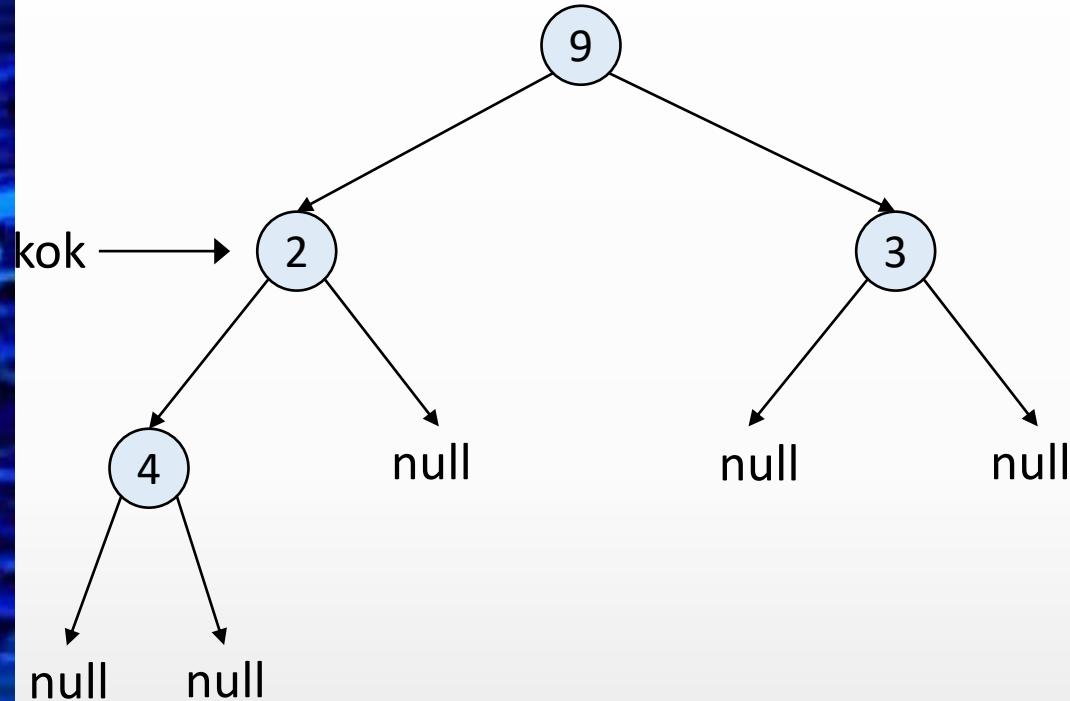
Çıktı:

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

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



## Çağırma Yığıtı (Call Stack)



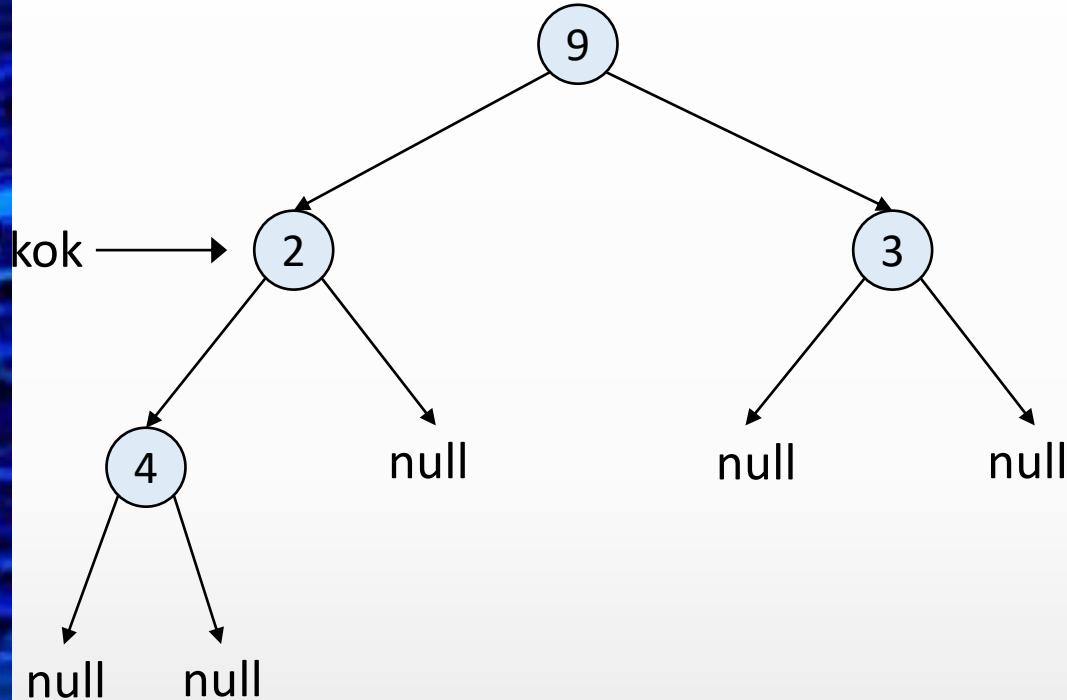
Çıktı:

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1 public void kokSonda(AgacDugumu kok) {  
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Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
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## Çağırma Yığıtı (Call Stack)



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

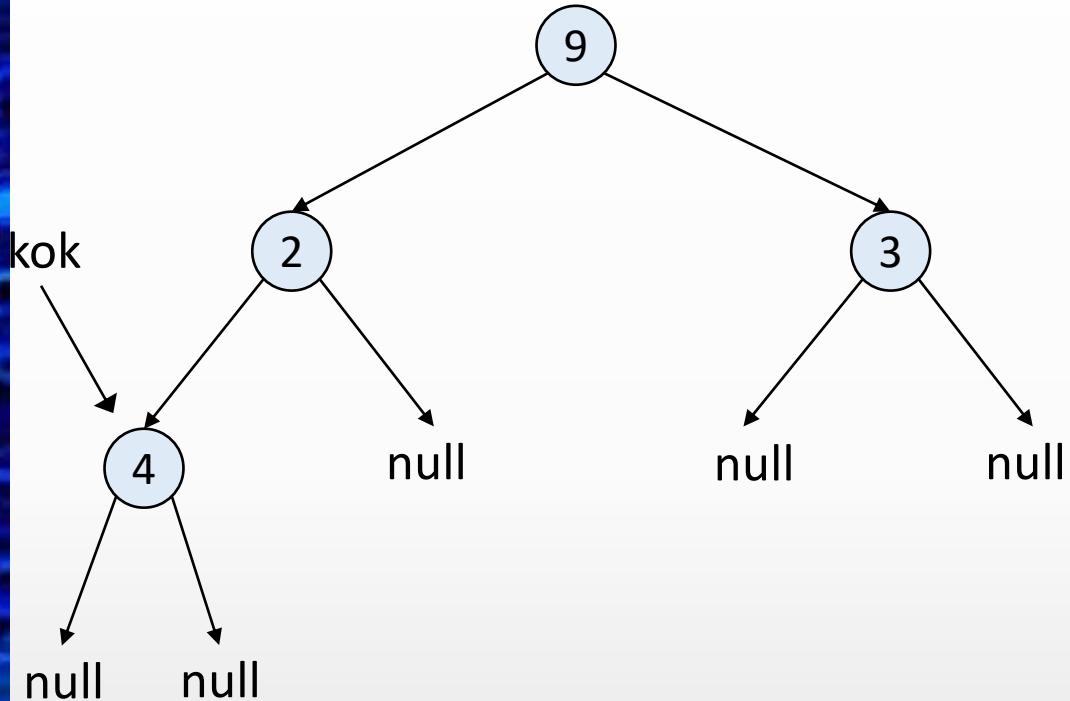
Çıktı:



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



## Çağırma Yığıtı (Call Stack)



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

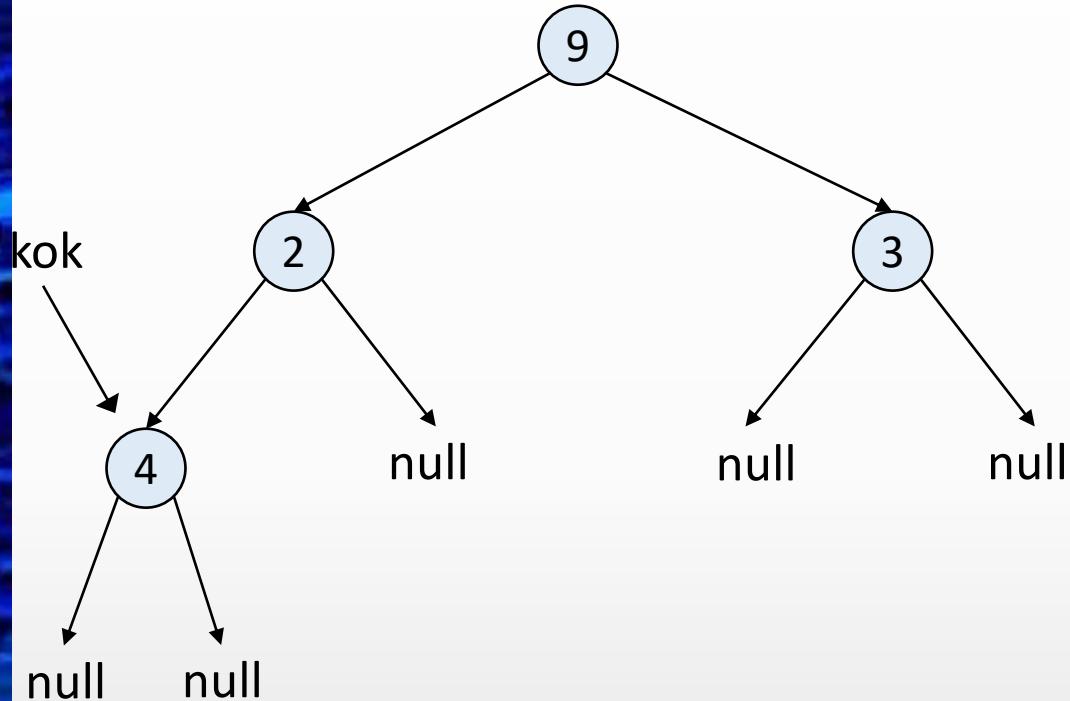


Çıktı:

```
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## Çağırma Yığıtı (Call Stack)



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

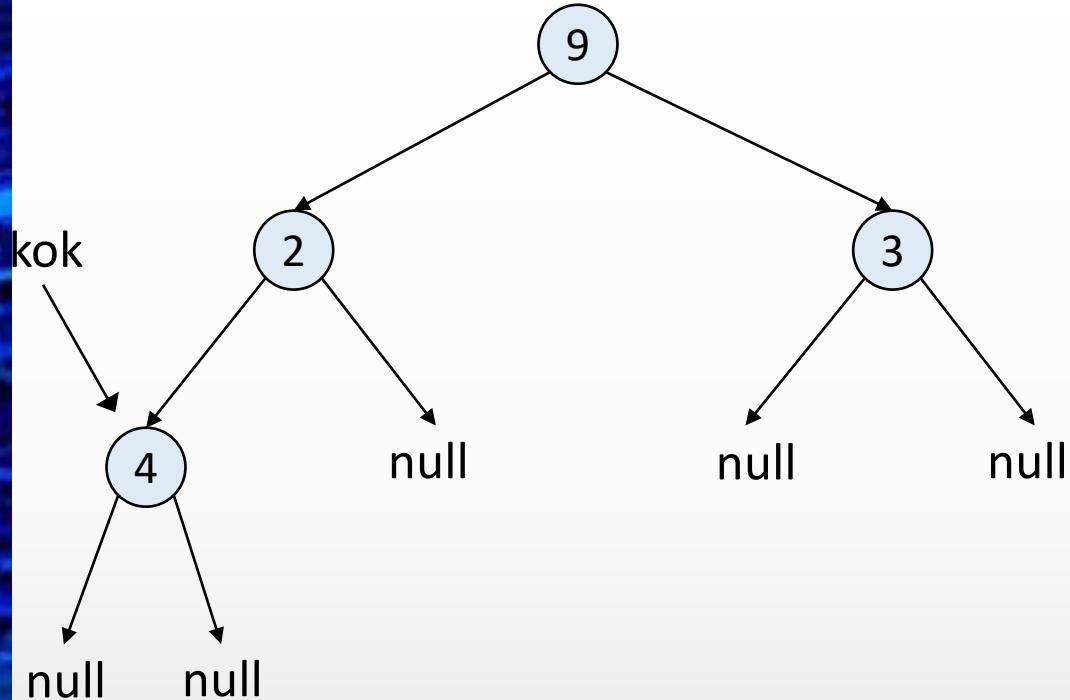


Çıktı:

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



Çıktı:

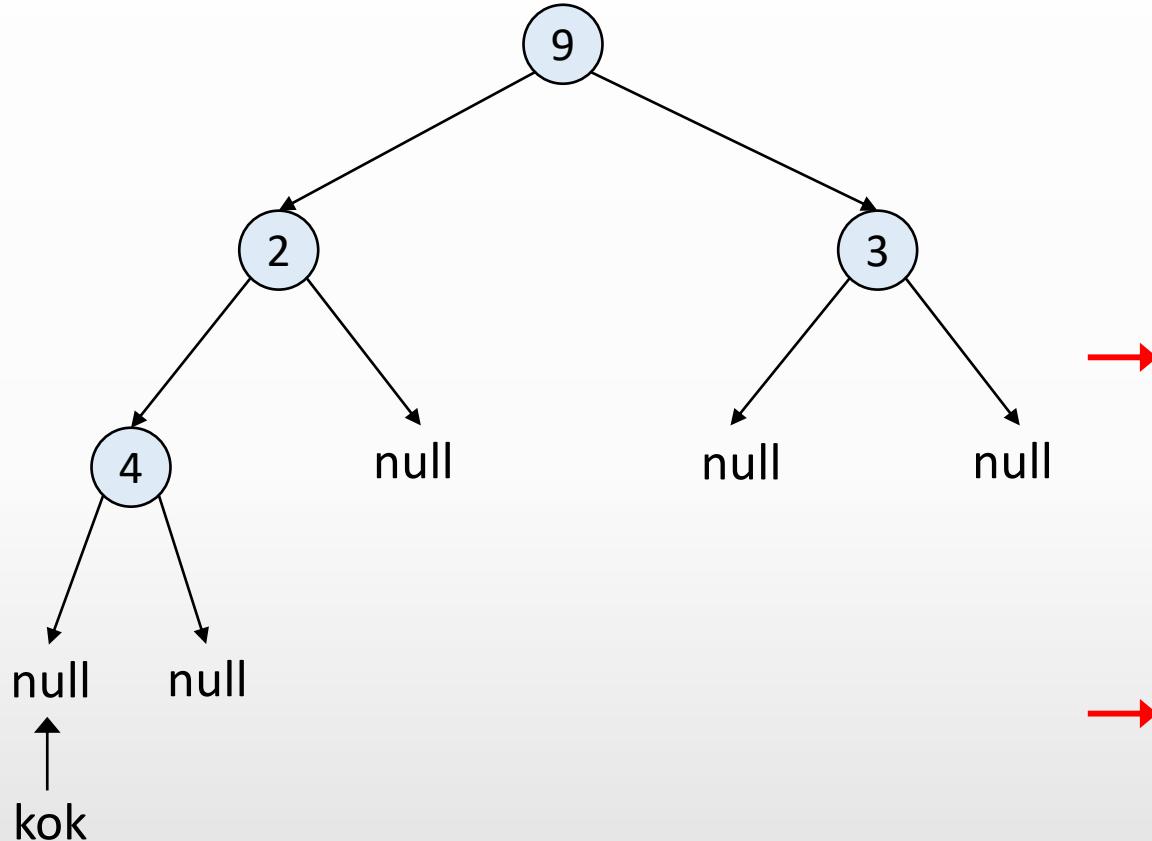


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4

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

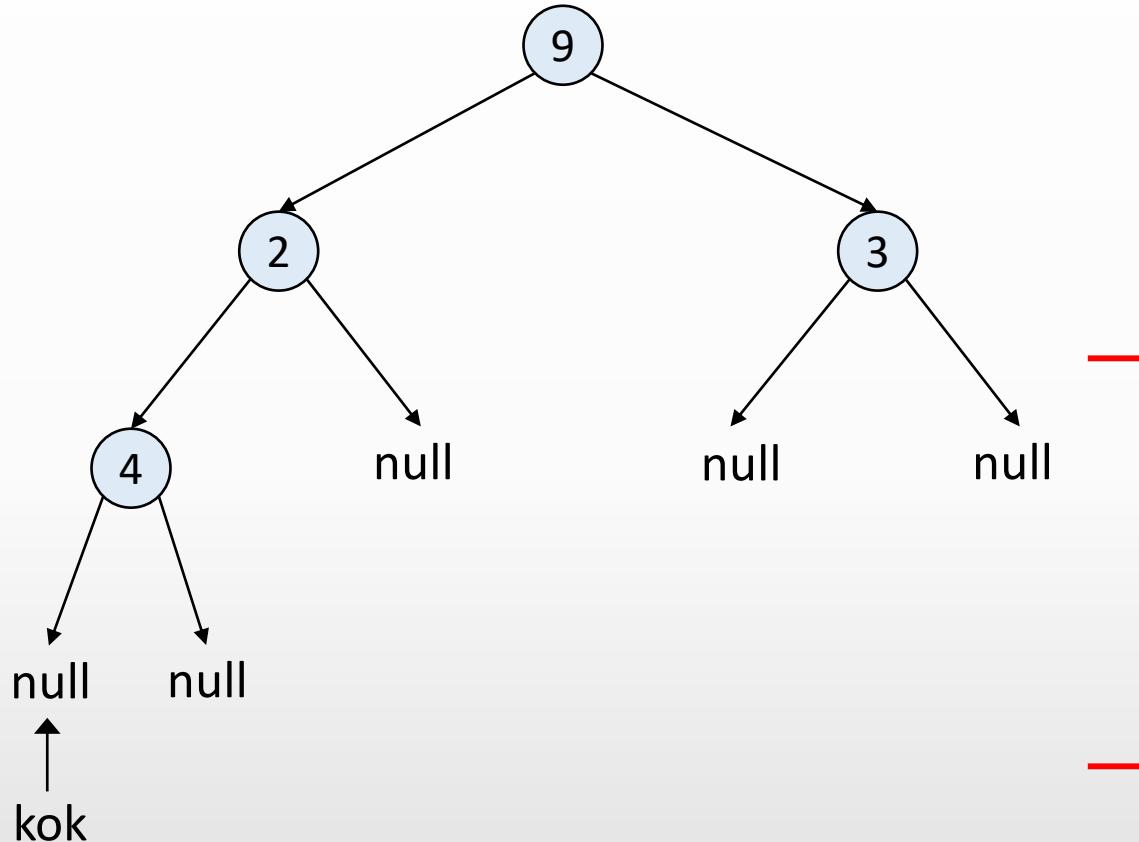


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4
kokSonda()		null

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

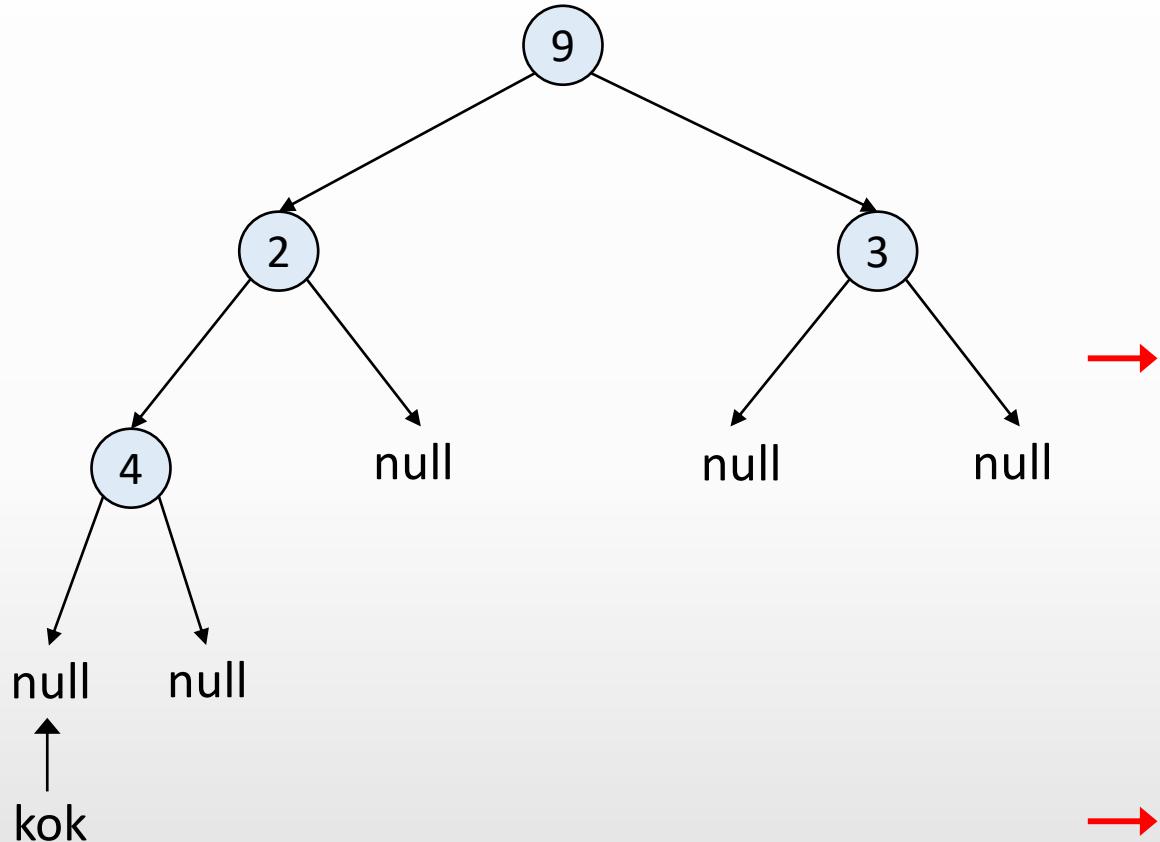


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4
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6     kokSonda(kok.sag);  
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## Çağırma Yığıtı (Call Stack)

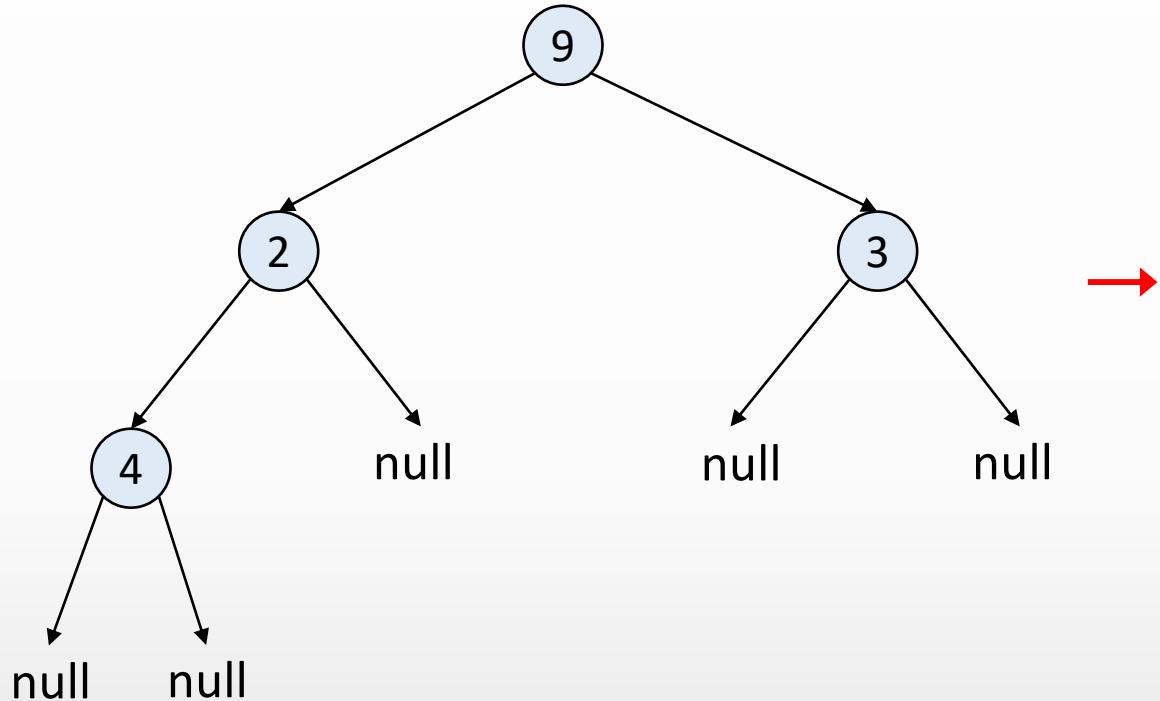


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4
kokSonda()		null

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



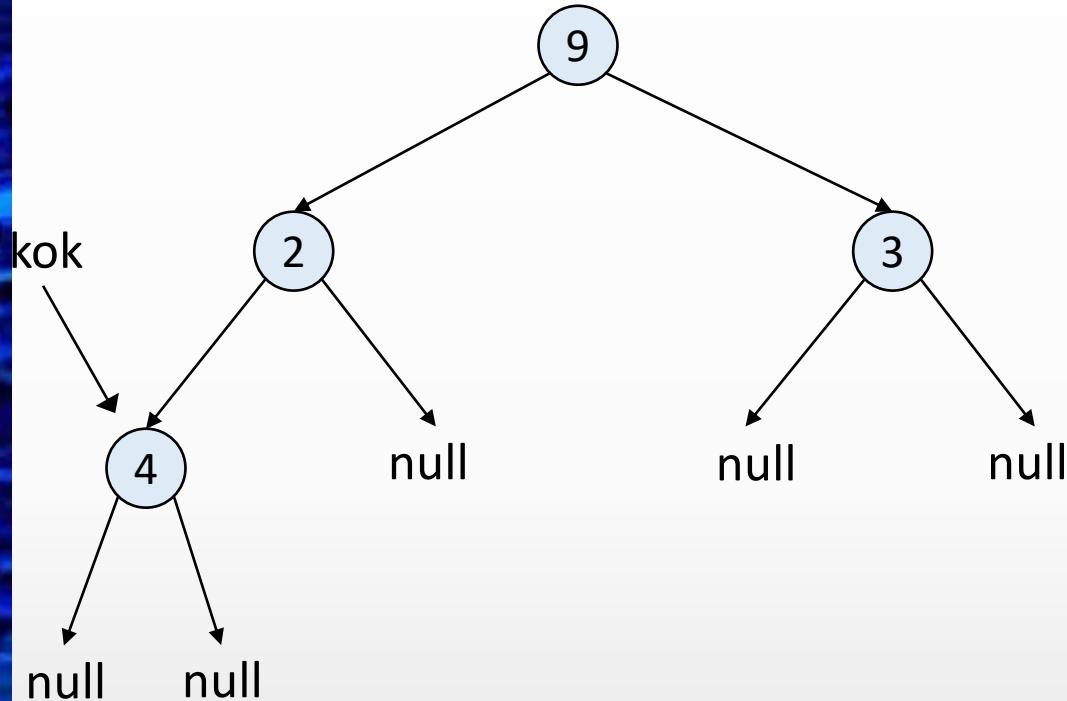
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	5	4

Çıktı:

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8 }
```



## Çağırma Yığıtı (Call Stack)



Çıktı:



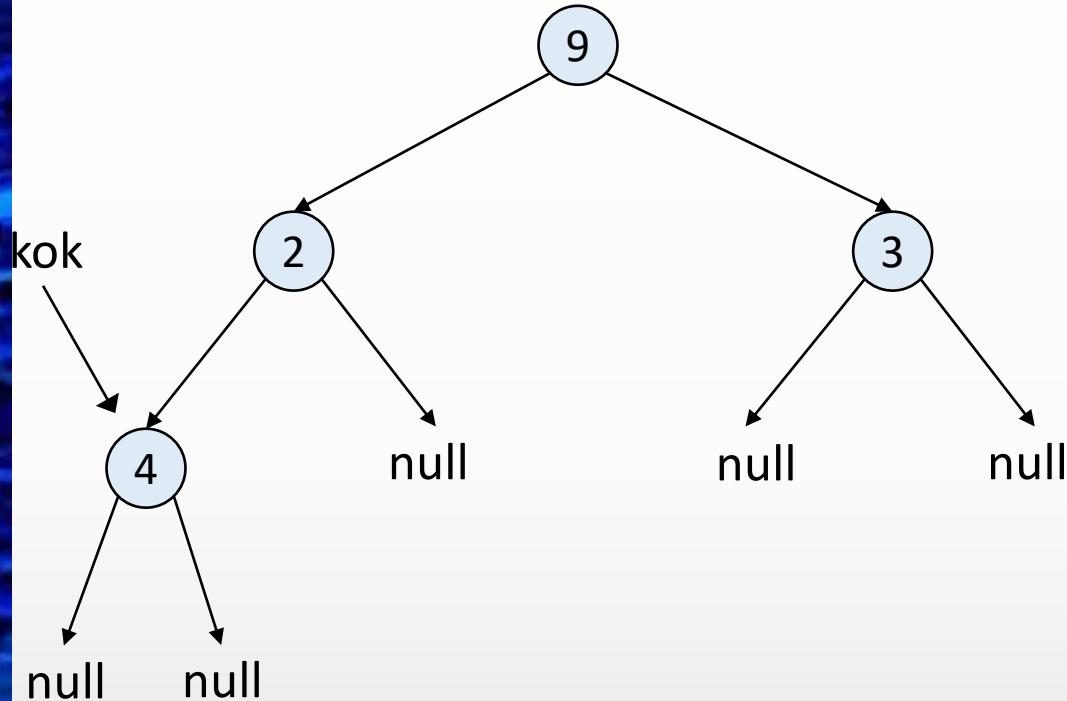
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
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1 public void kokSonda(AgacDugumu kok) {  
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## Çağırma Yığıtı (Call Stack)



Çıktı:



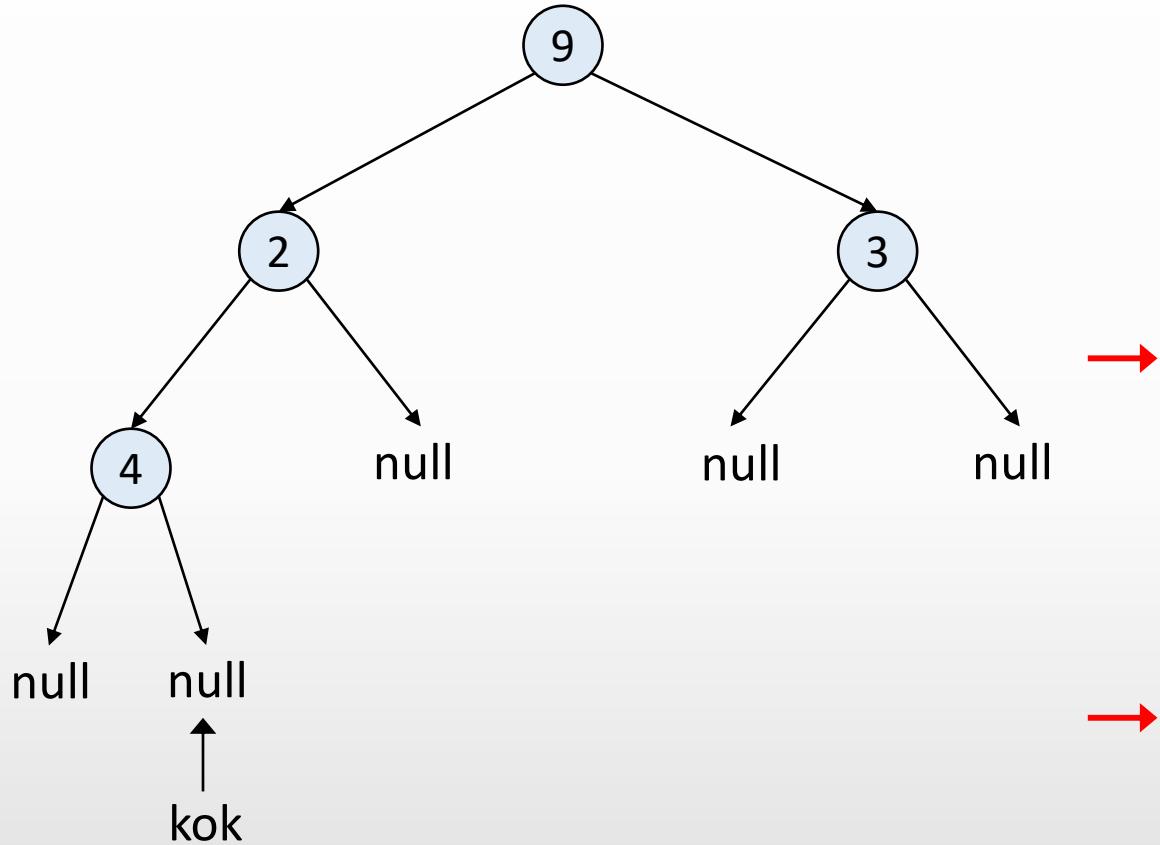
Metot Çağrımı	Satır Numarası	Kök
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## Çağırma Yığıtı (Call Stack)



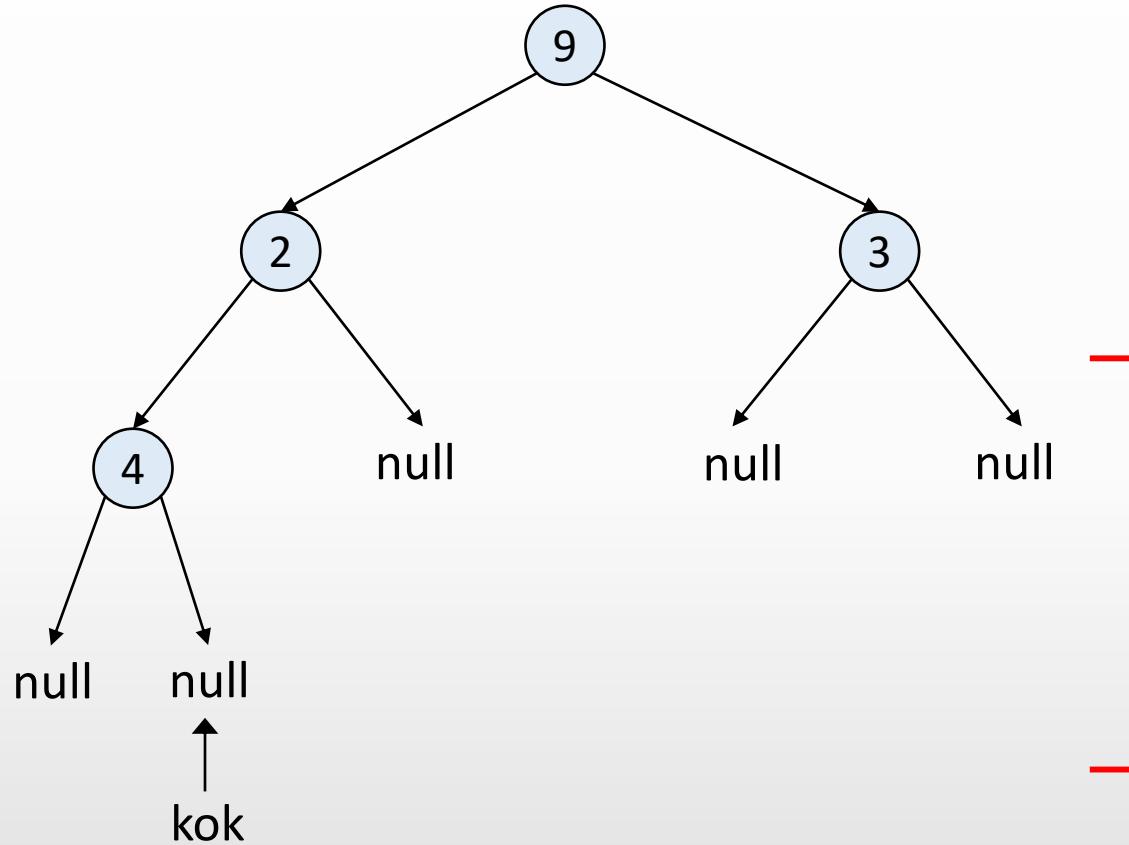
Çıktı:

```
→ 1 public void kokSonda(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
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6     kokSonda(kok.sag);  
7     System.out.print(kok.veri + " ");  
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Metot Çağrımı	Satır Numarası	Kök
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kokSonda()	5	2
kokSonda()	6	4
kokSonda()		null



## Çağırma Yığıtı (Call Stack)



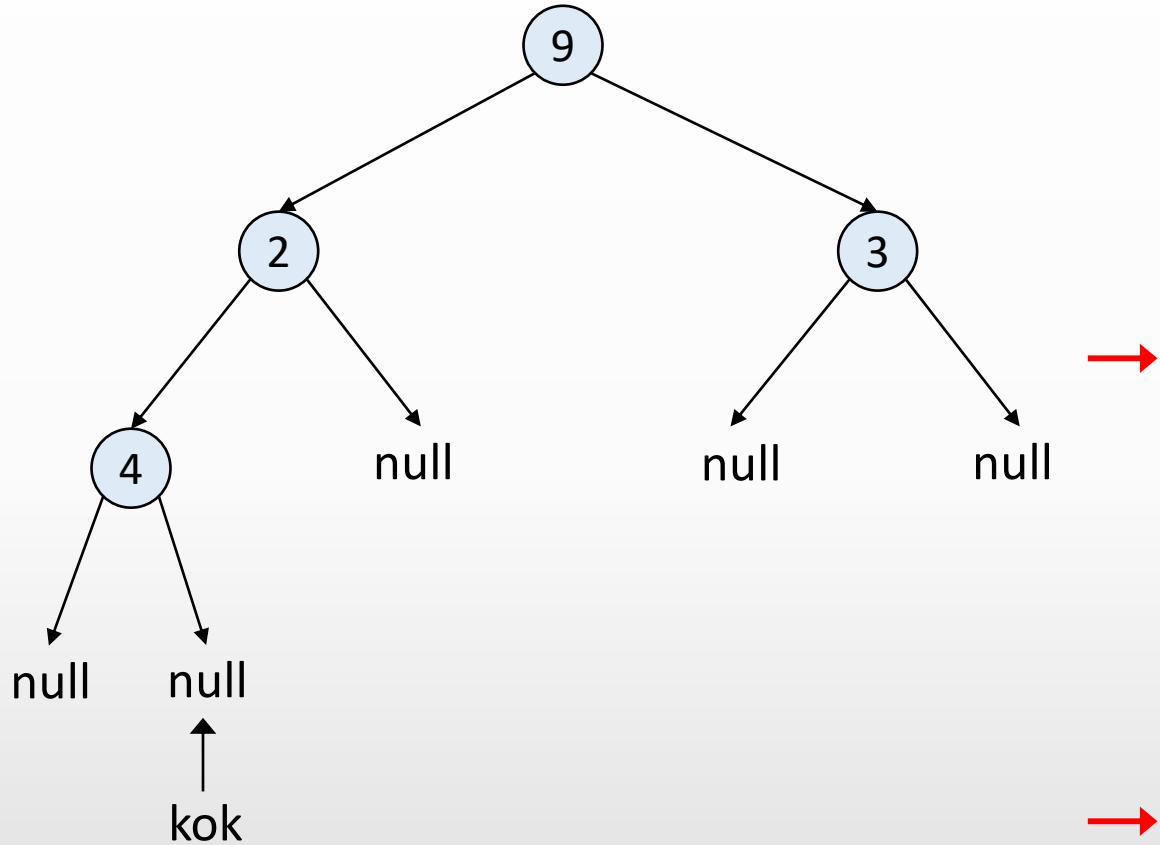
Çıktı:

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

```
1 public void kokSonda(AgacDugumu kok) {  
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6     kokSonda(kok.sag);  
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8 }
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## Çağırma Yığıtı (Call Stack)



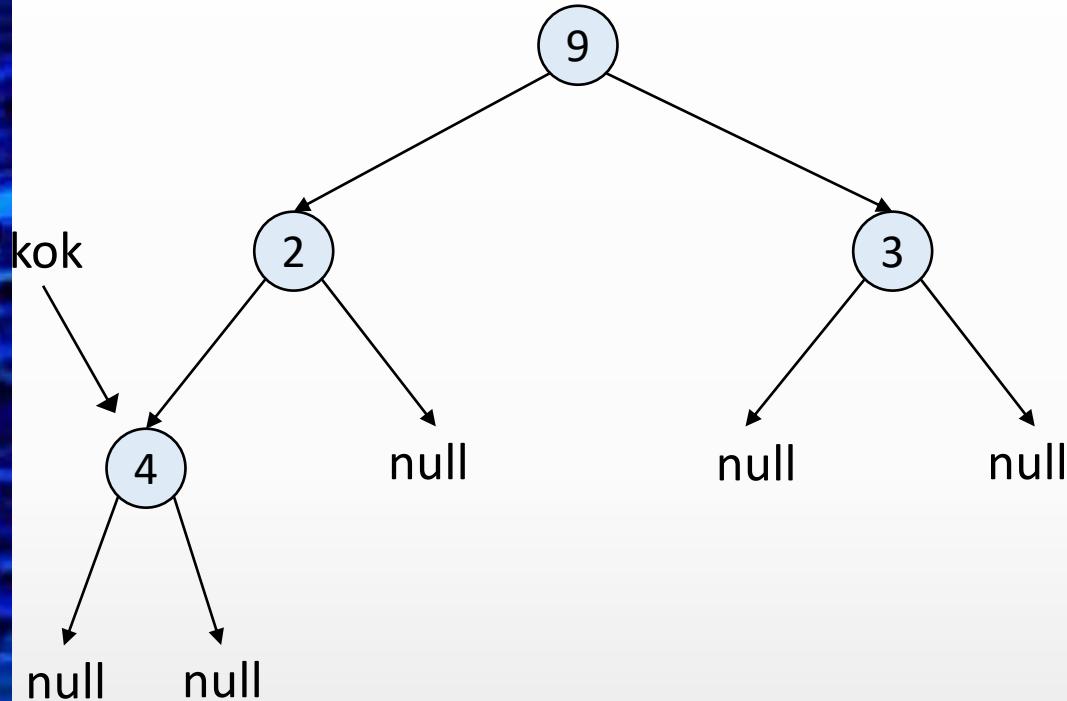
Çıktı:

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



## Çağırma Yığıtı (Call Stack)



Çıktı:



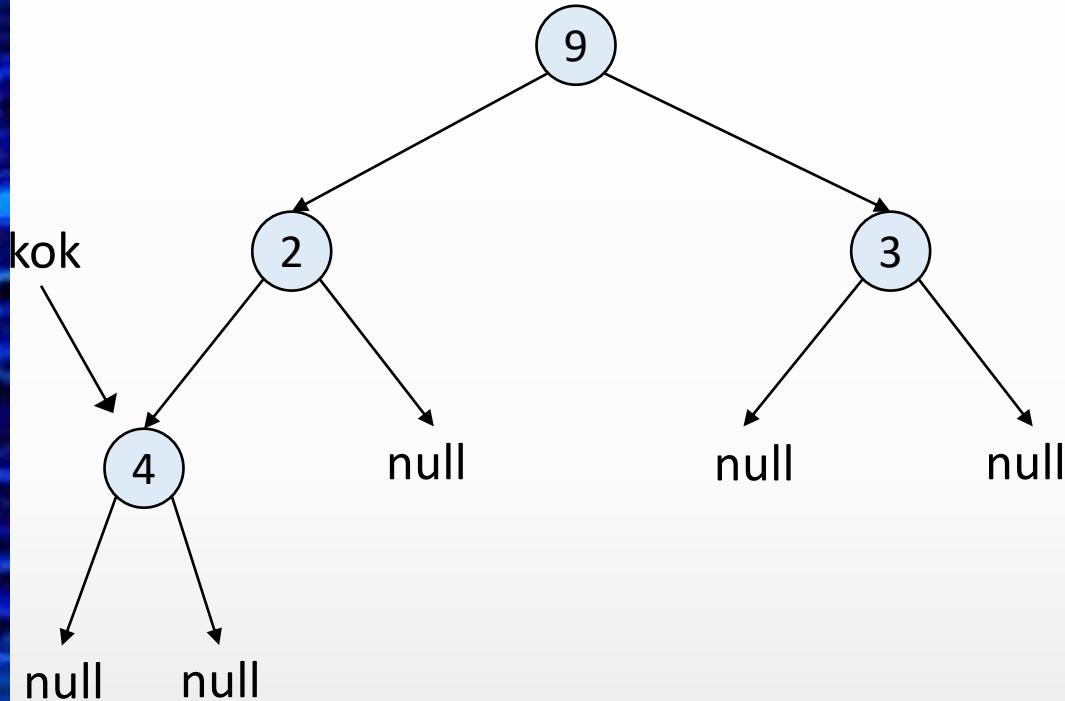
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	4



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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)



Çıktı: 4



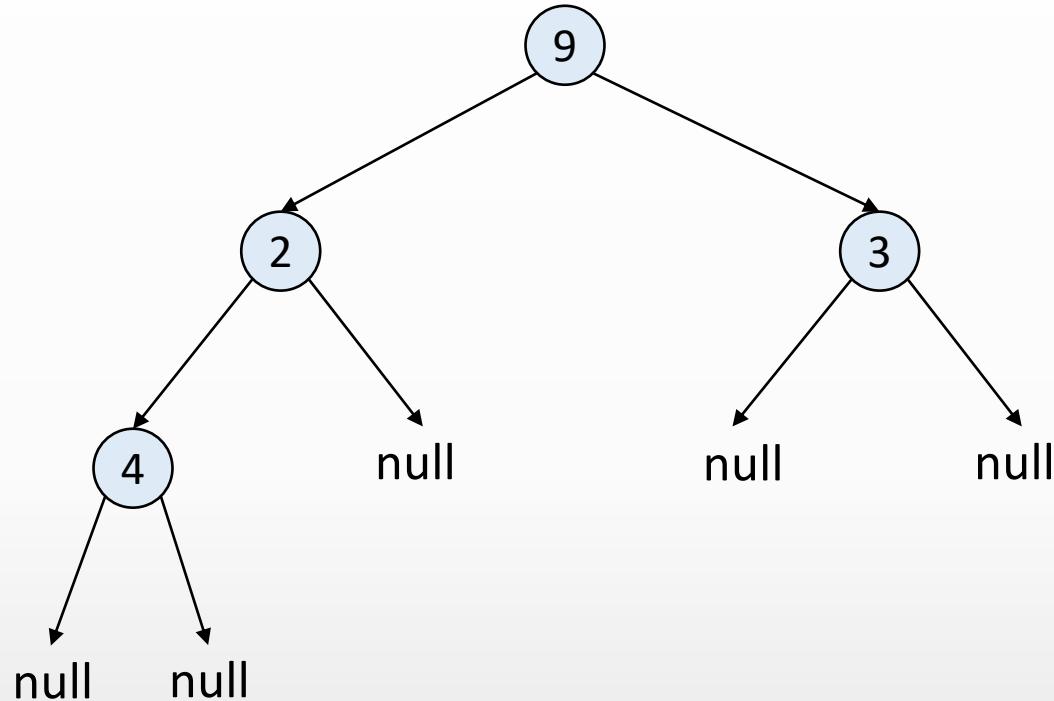
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2
kokSonda()	6	4



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



## Çağırma Yığıtı (Call Stack)



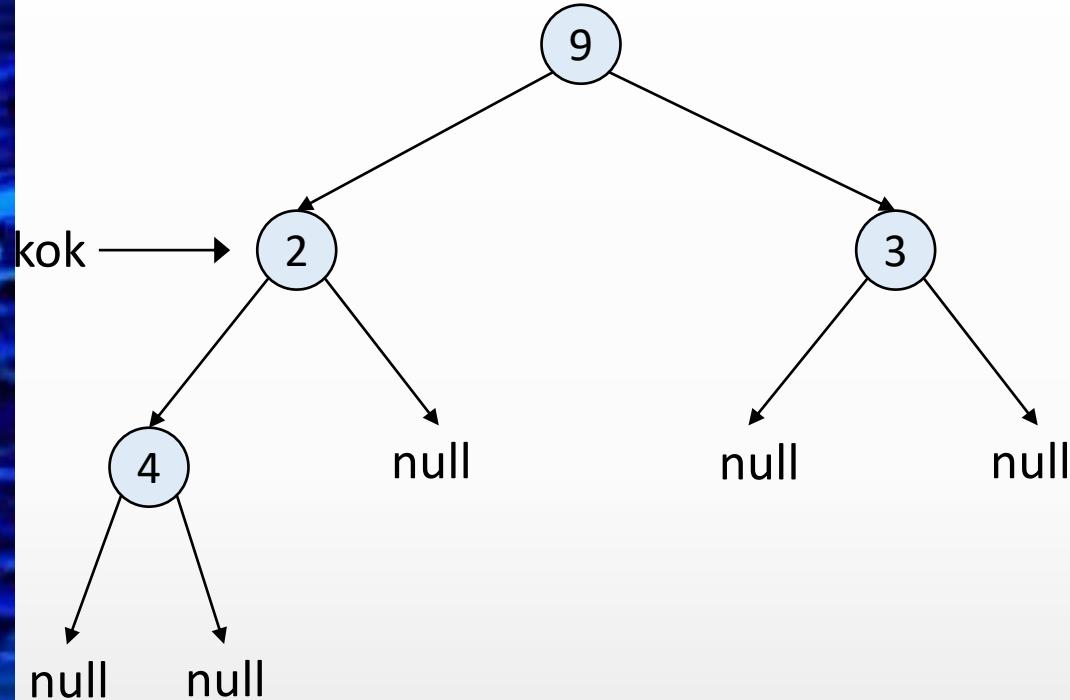
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2

Çıktı: 4

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



## Çağırma Yığıtı (Call Stack)

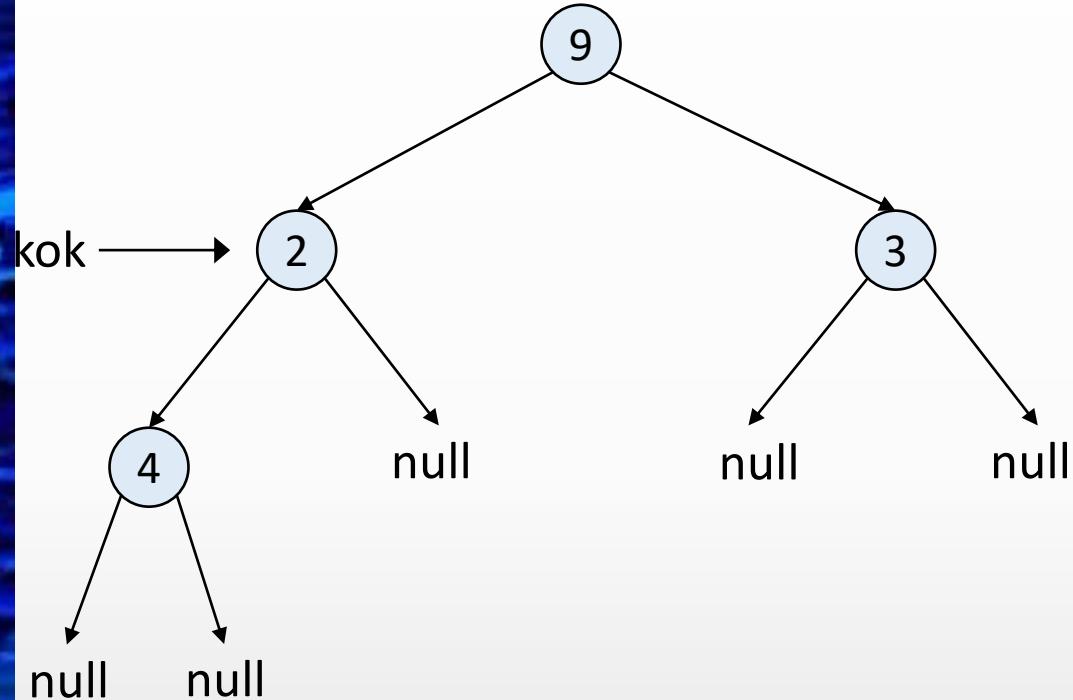


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	5	9
kokSonda()	5	2

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



## Çağırma Yığıtı (Call Stack)



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

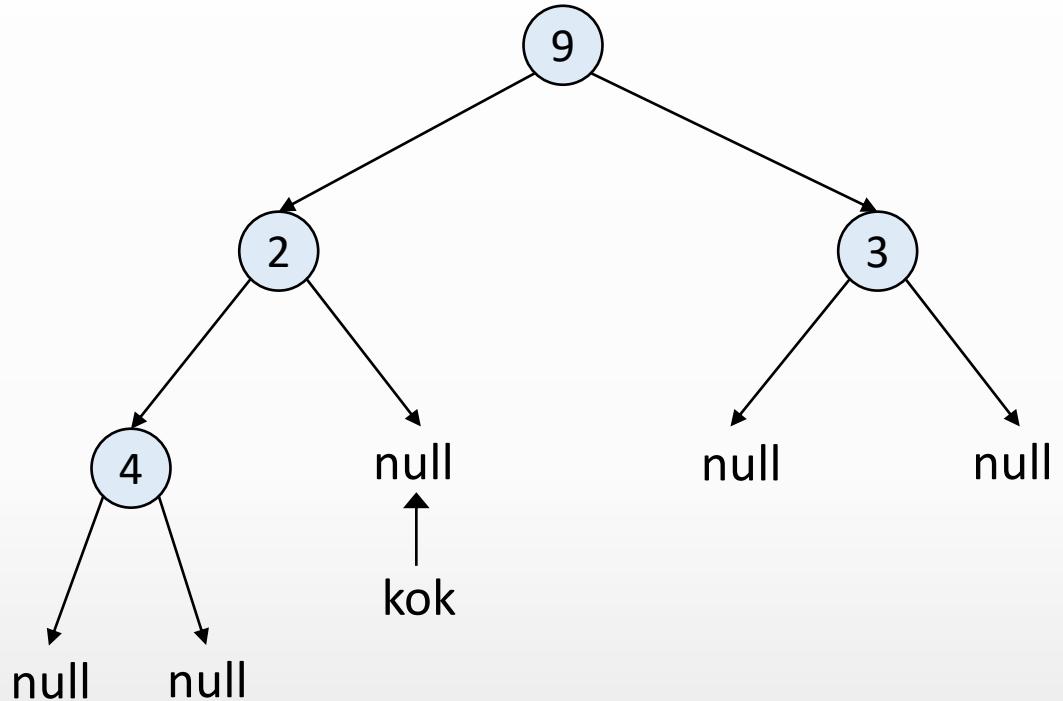


Çıktı: 4

```
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)



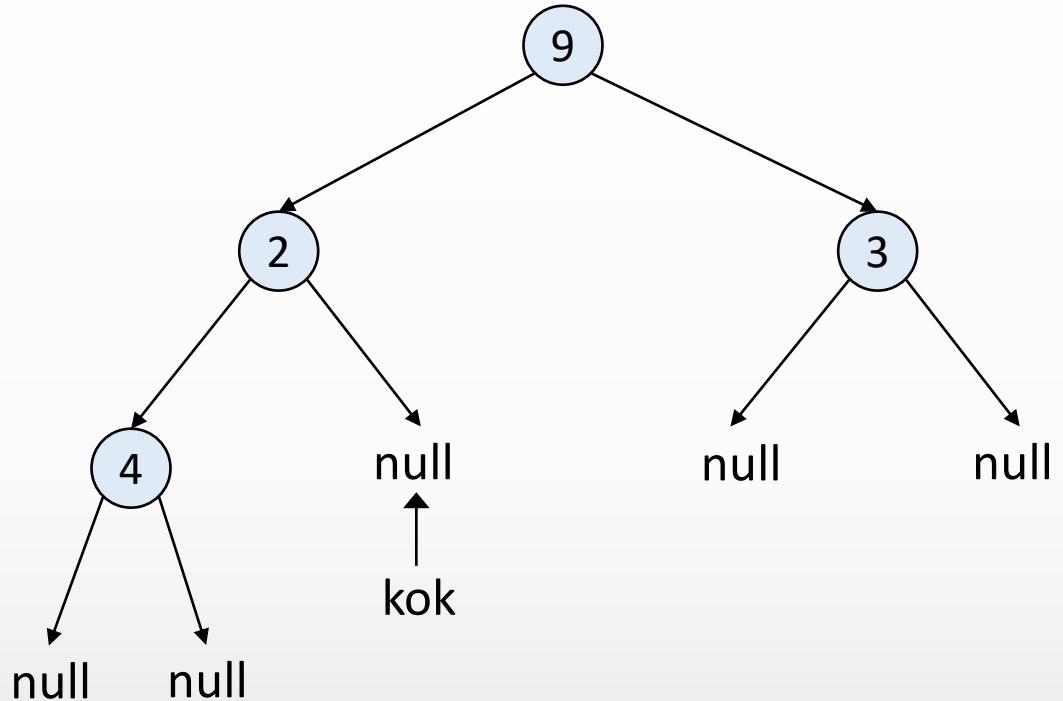
Çıktı: 4

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)



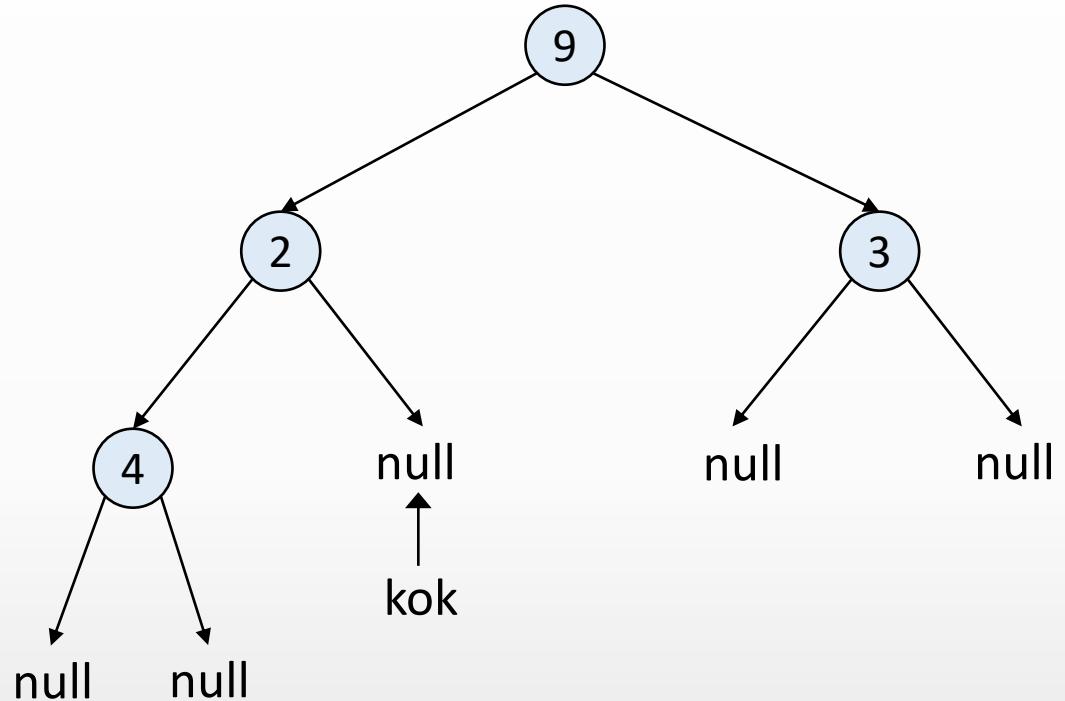
Çıktı: 4

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)



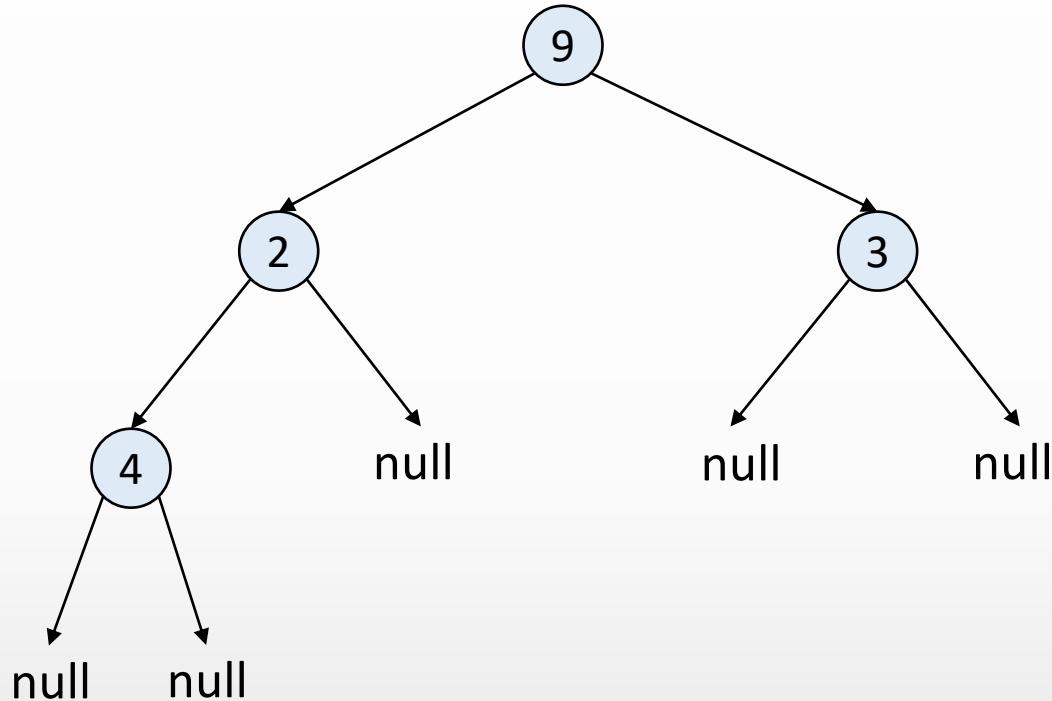
Çıktı: 4

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

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



## Çağırma Yığıtı (Call Stack)



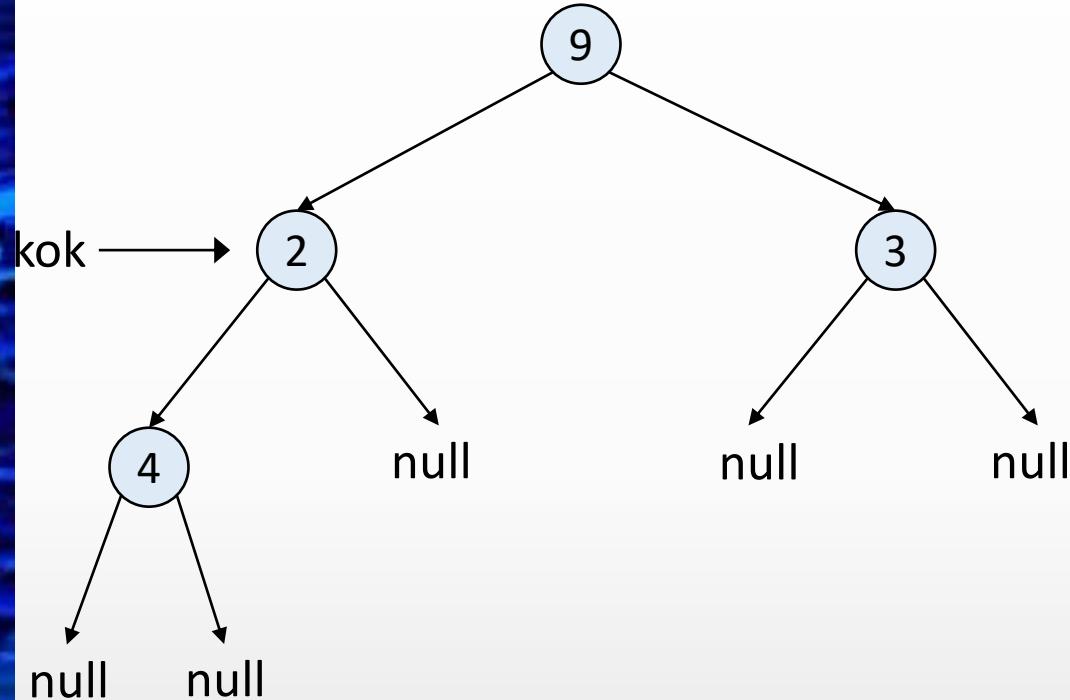
Çıktı: 4

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

```
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()	5	9
kokSonda()	6	2

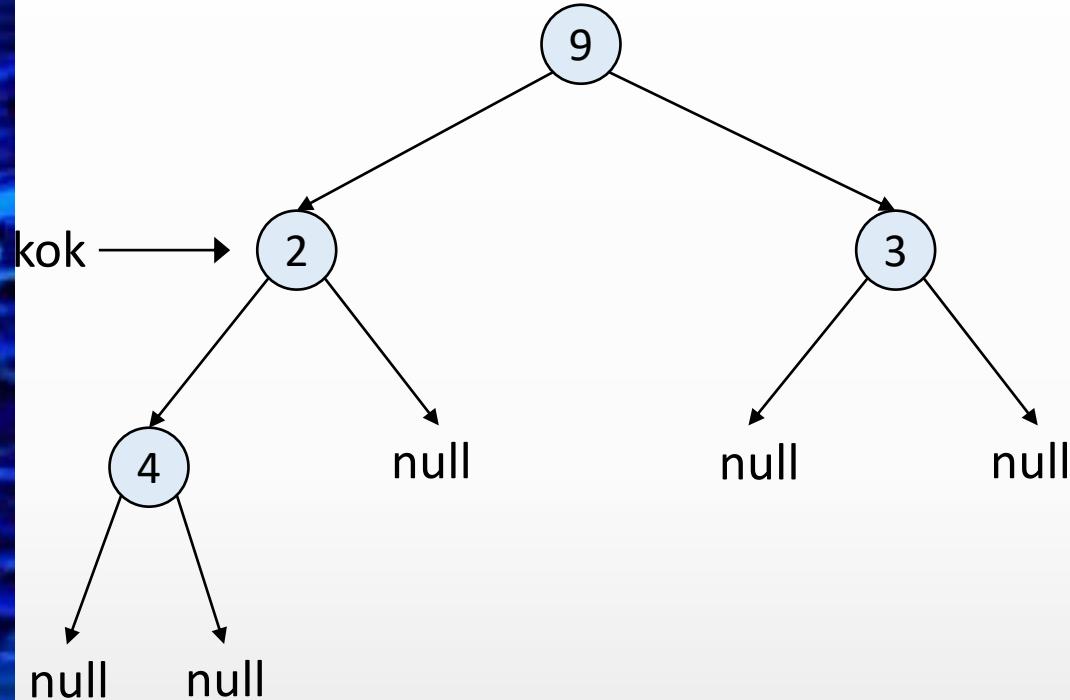


Çıktı: 4

```
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)



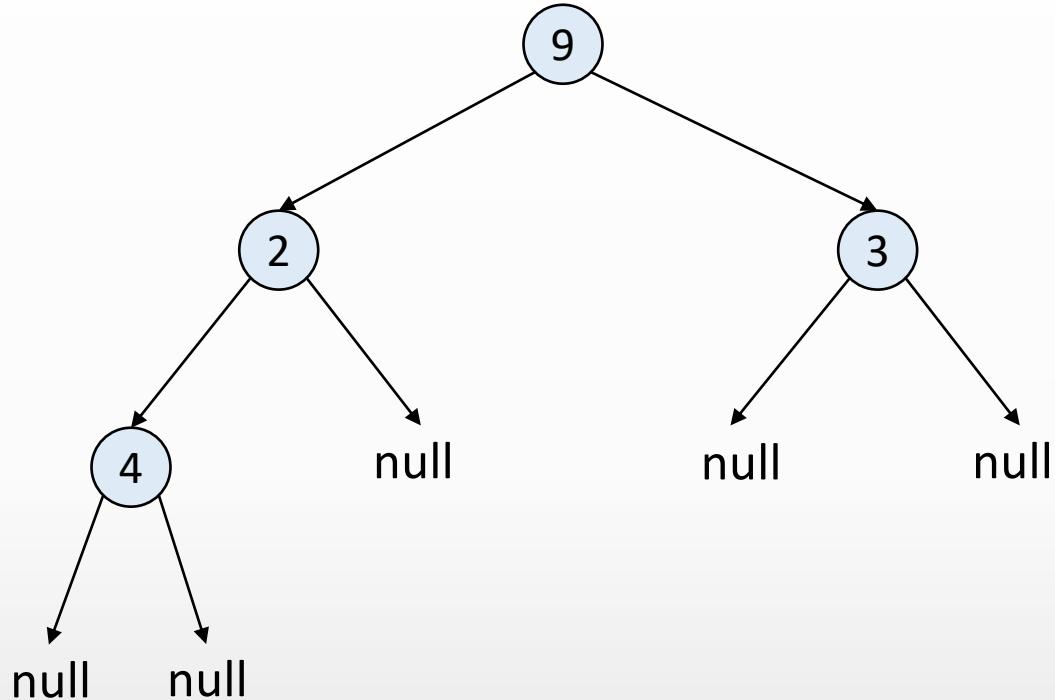
Cıktı: 4 2



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 }
```

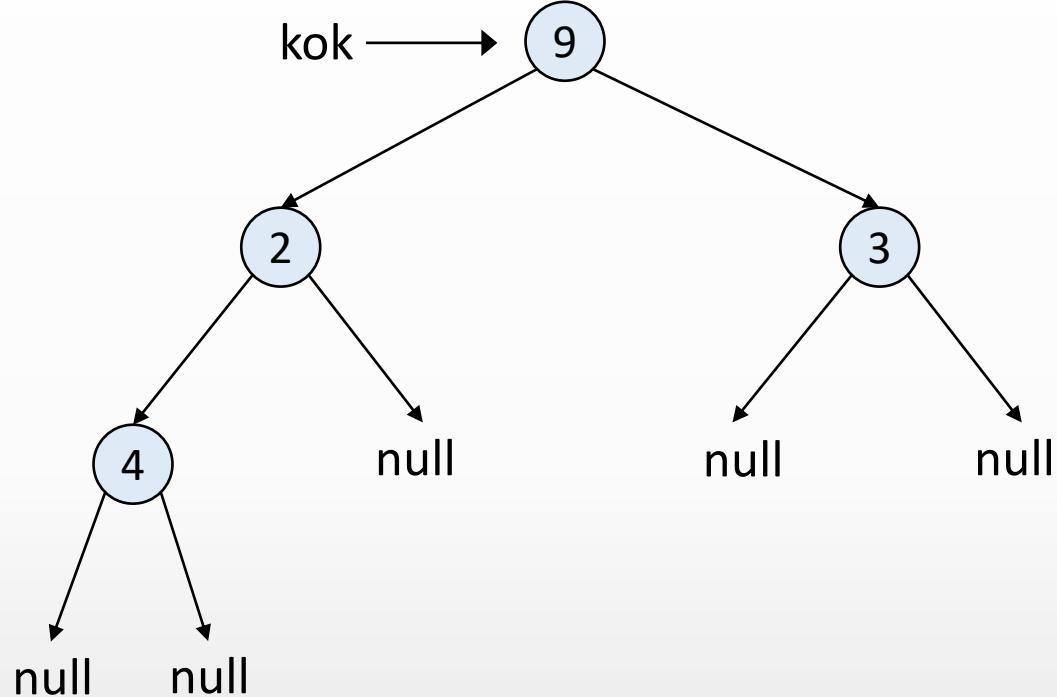


Cıktı: 4 2

### 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 }
```



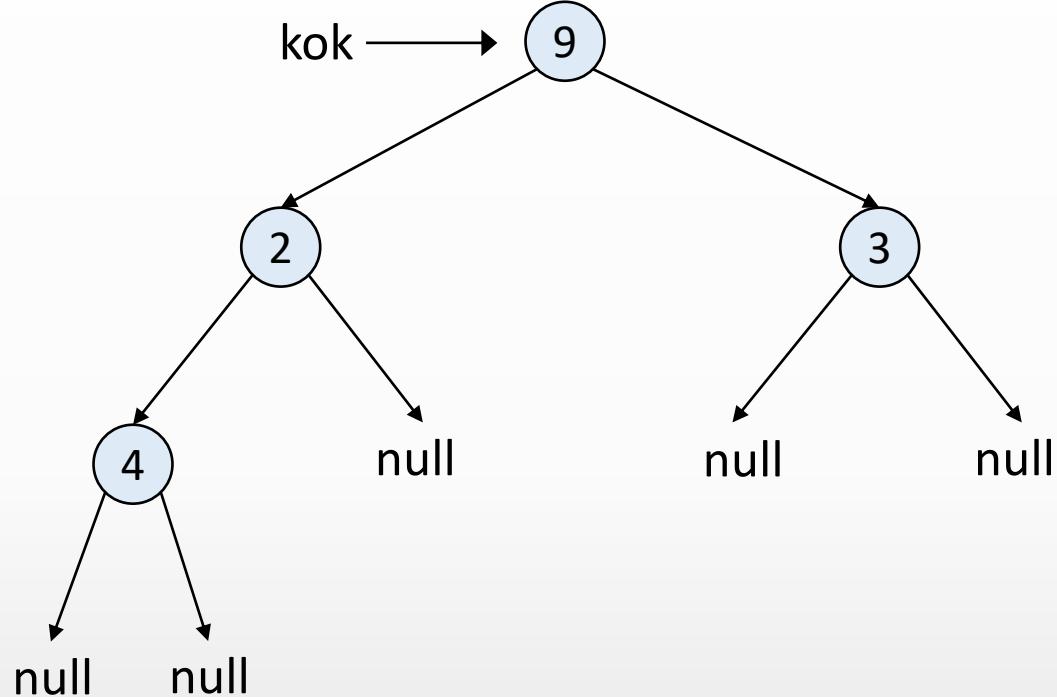
Cıktı: 4 2

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)

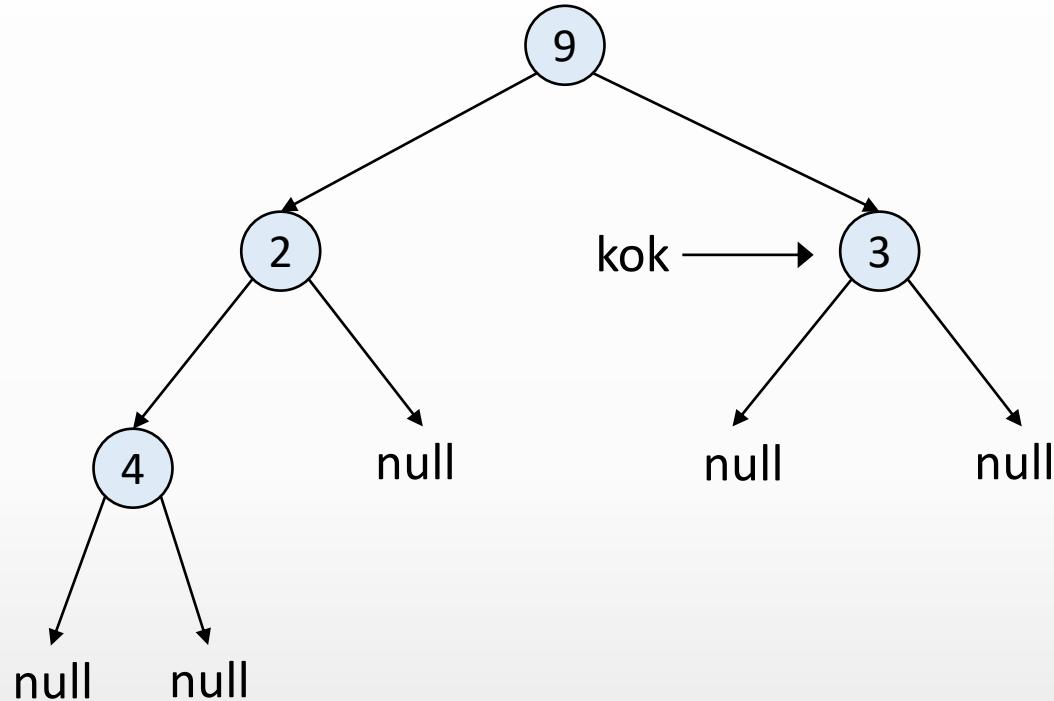
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

```
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)



Cıktı: 4 2



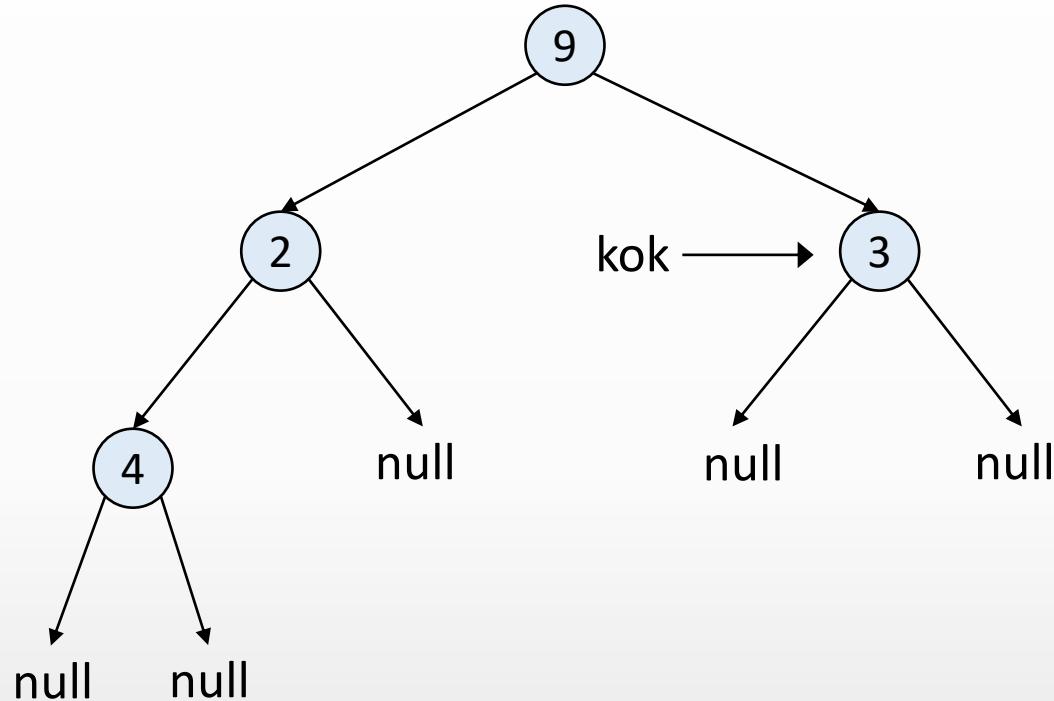
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()		3



```
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



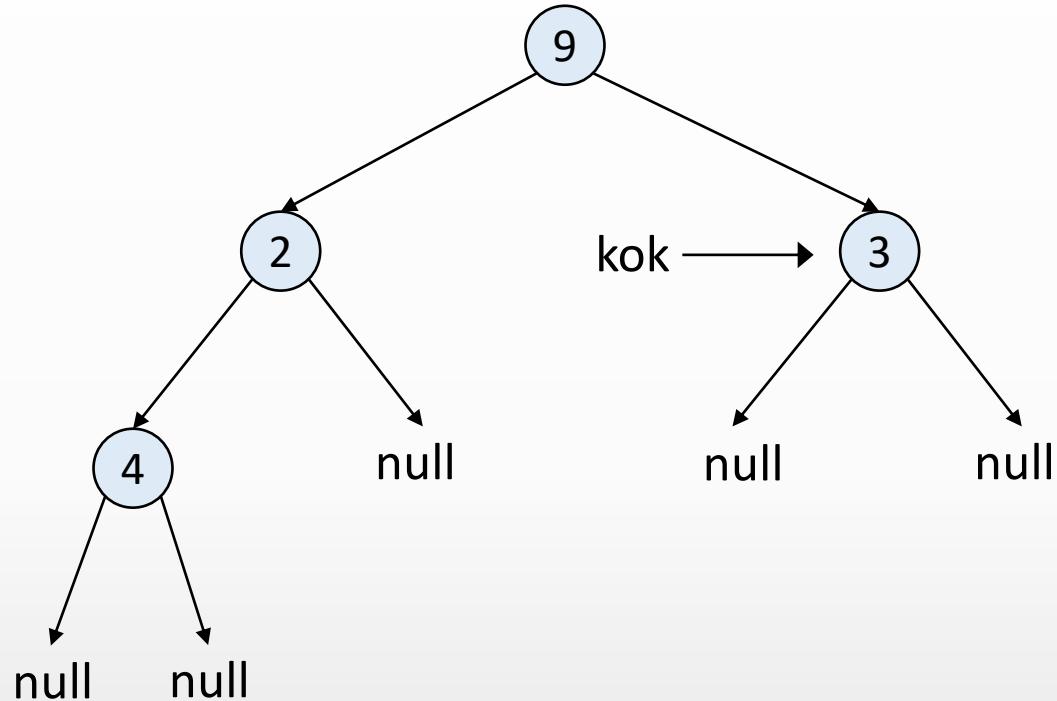
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()		3



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



## Çağırma Yığıtı (Call Stack)

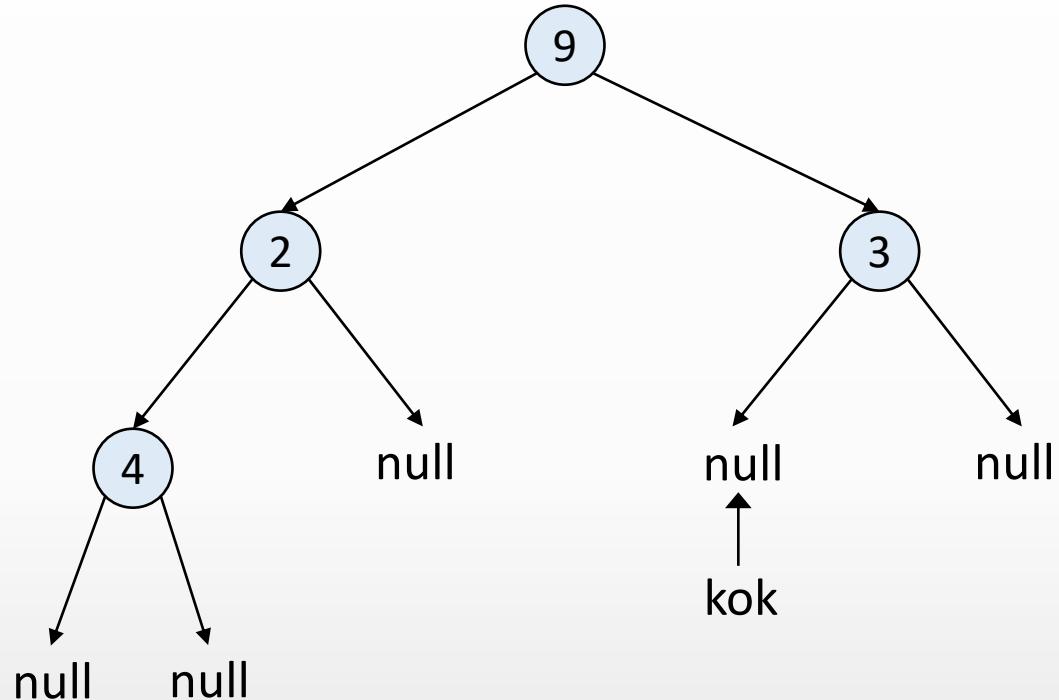


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

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



## Çağırma Yığıtı (Call Stack)



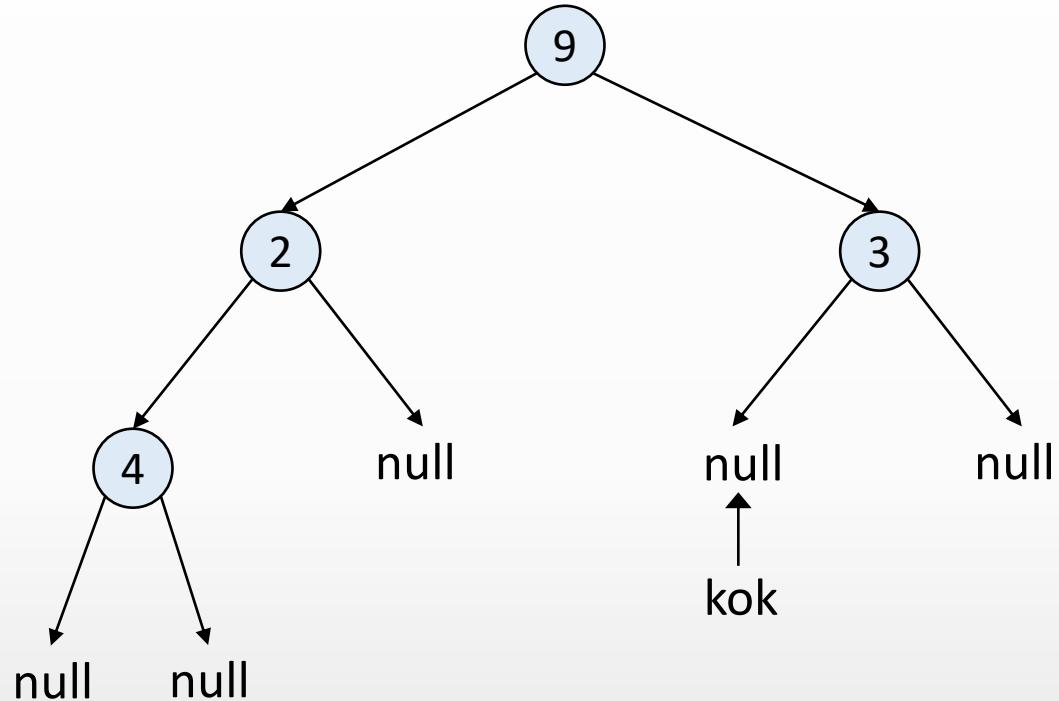
Cıktı: 4 2

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 + " ");  
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## Çağırma Yığıtı (Call Stack)



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

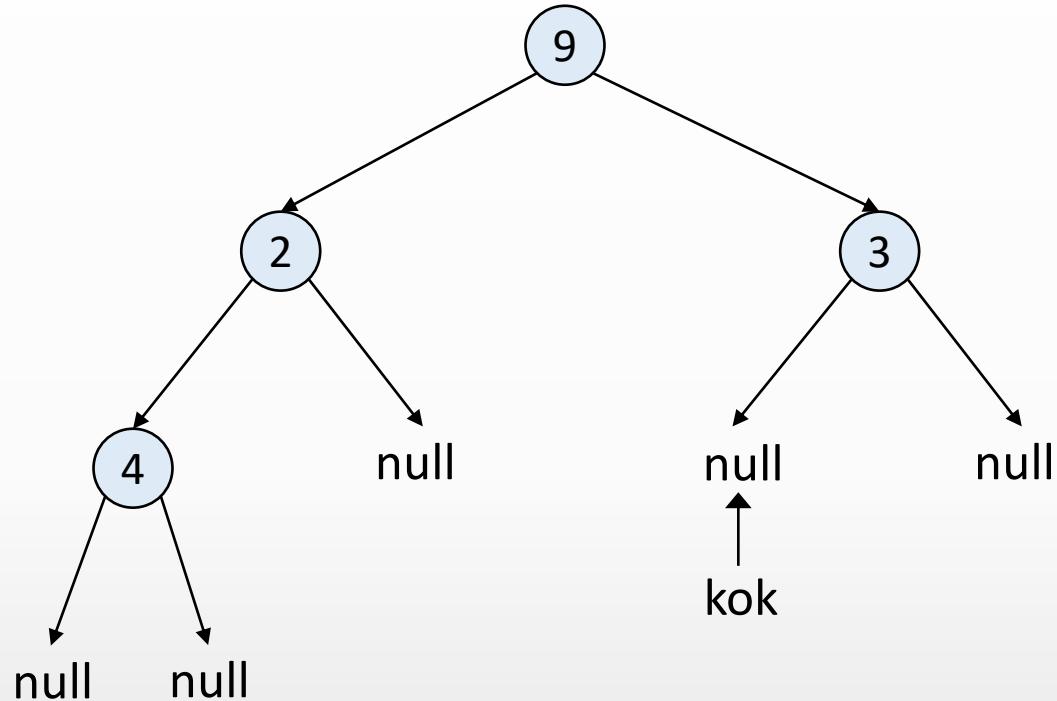


Cıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)



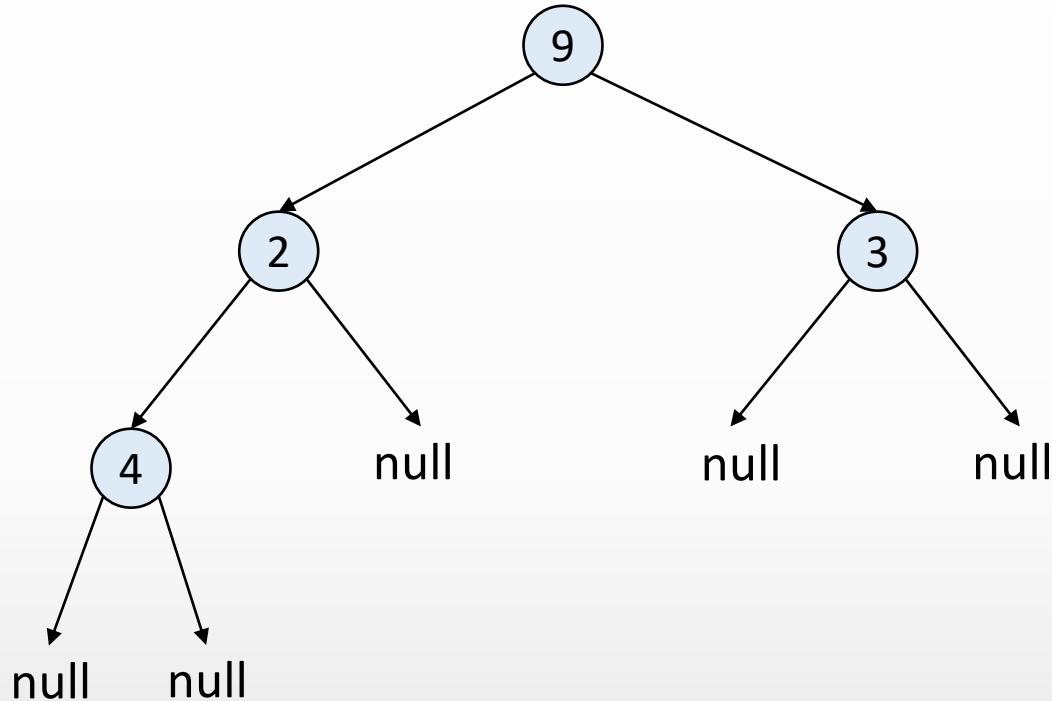
Cıktı: 4 2

Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3
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```
1 public void kokSonda(AgacDugumu kok) {  
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7     System.out.print(kok.veri + " ");  
8 }
```



## Çağırma Yığıtı (Call Stack)



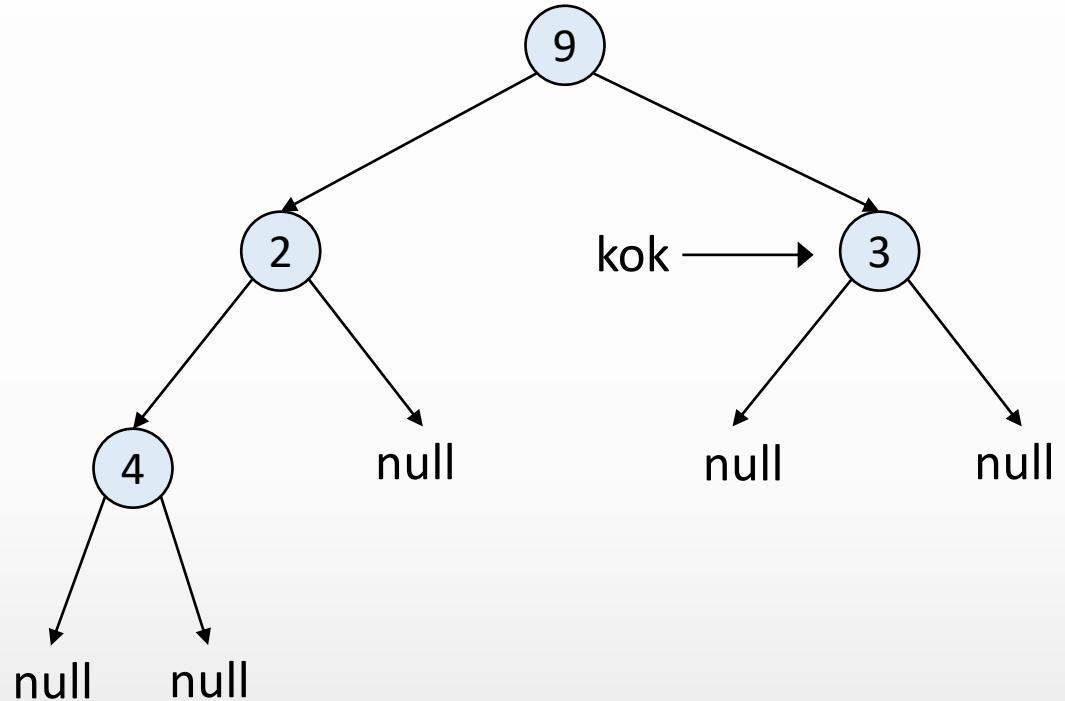
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

Cıktı: 4 2

```
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)

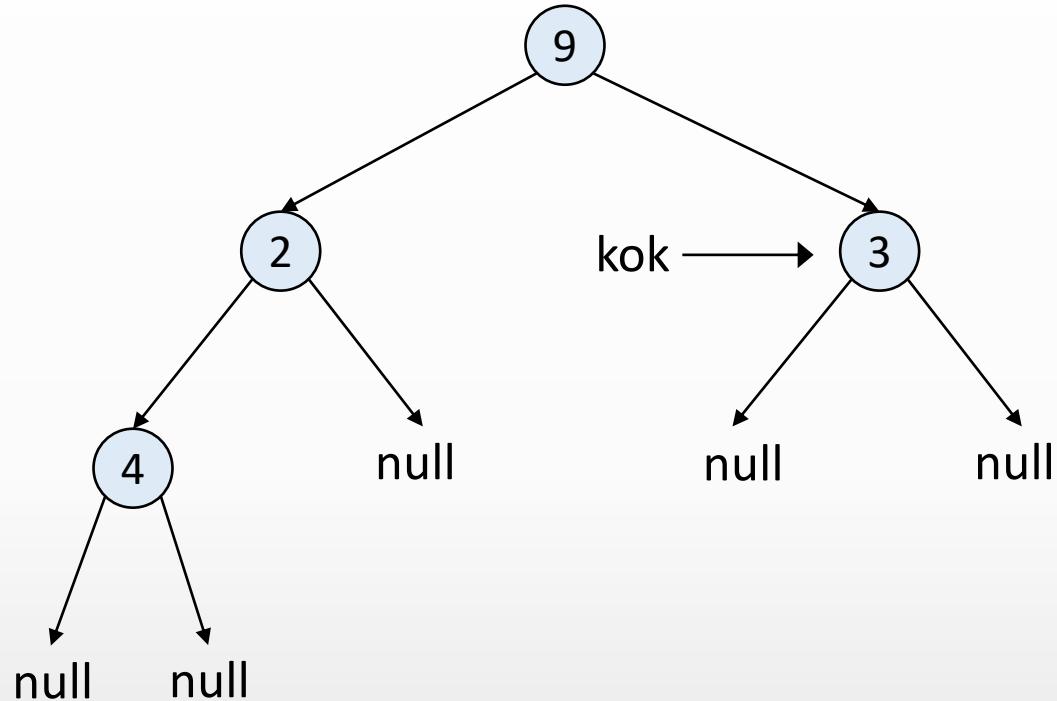


Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	5	3

```
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)



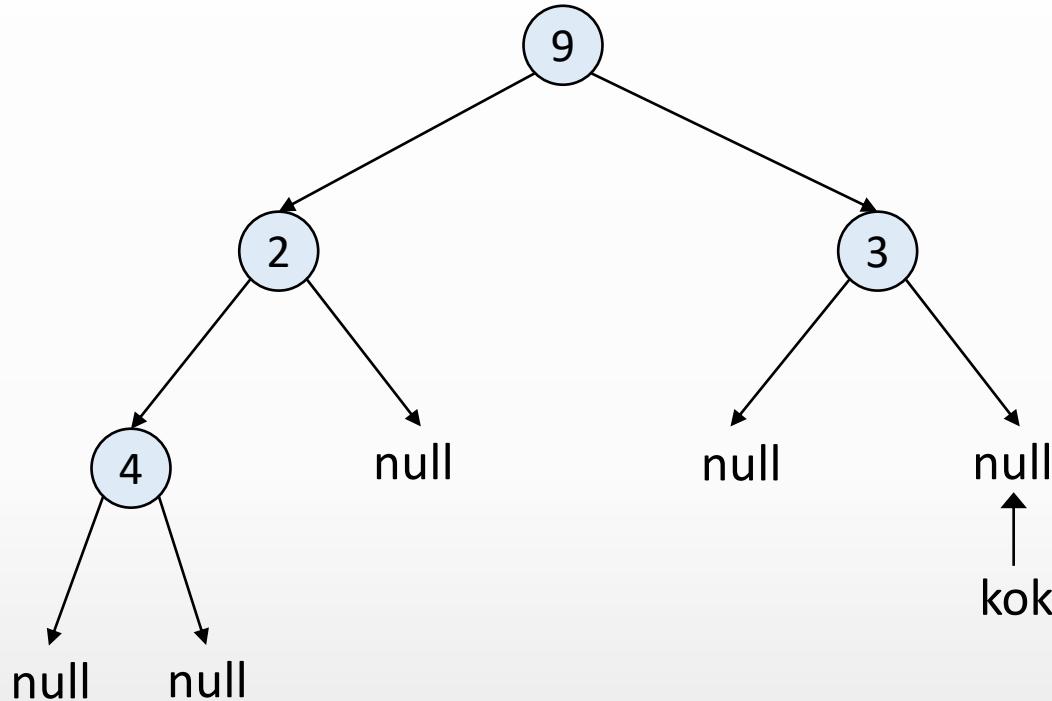
Çıktı: 4 2

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

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



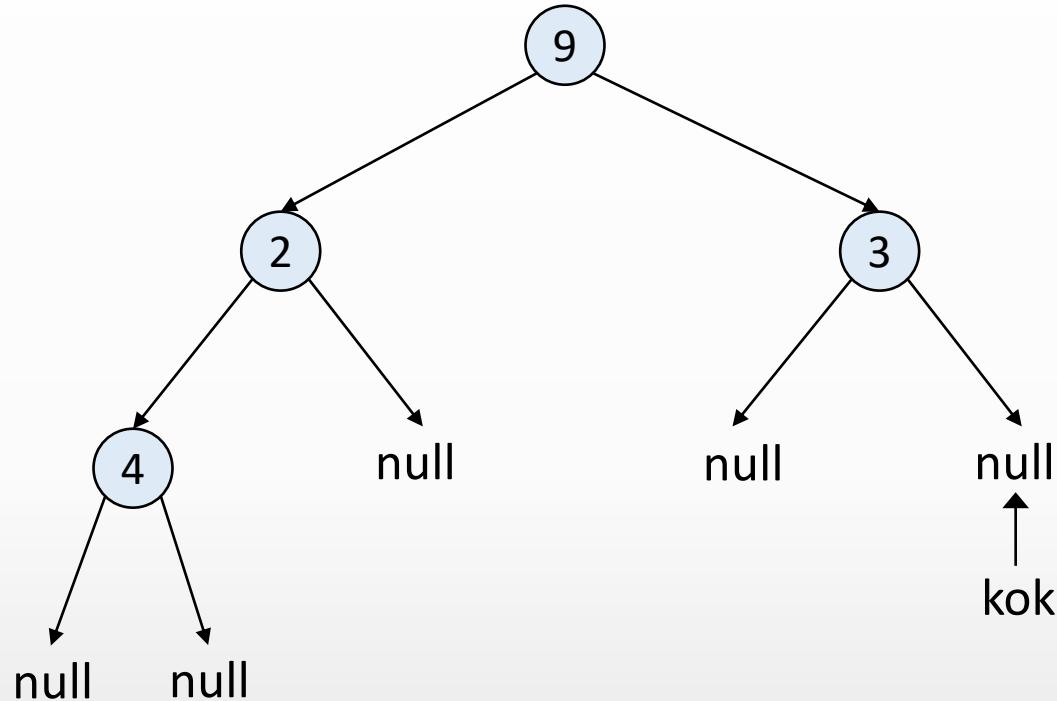
Cıktı: 4 2

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

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



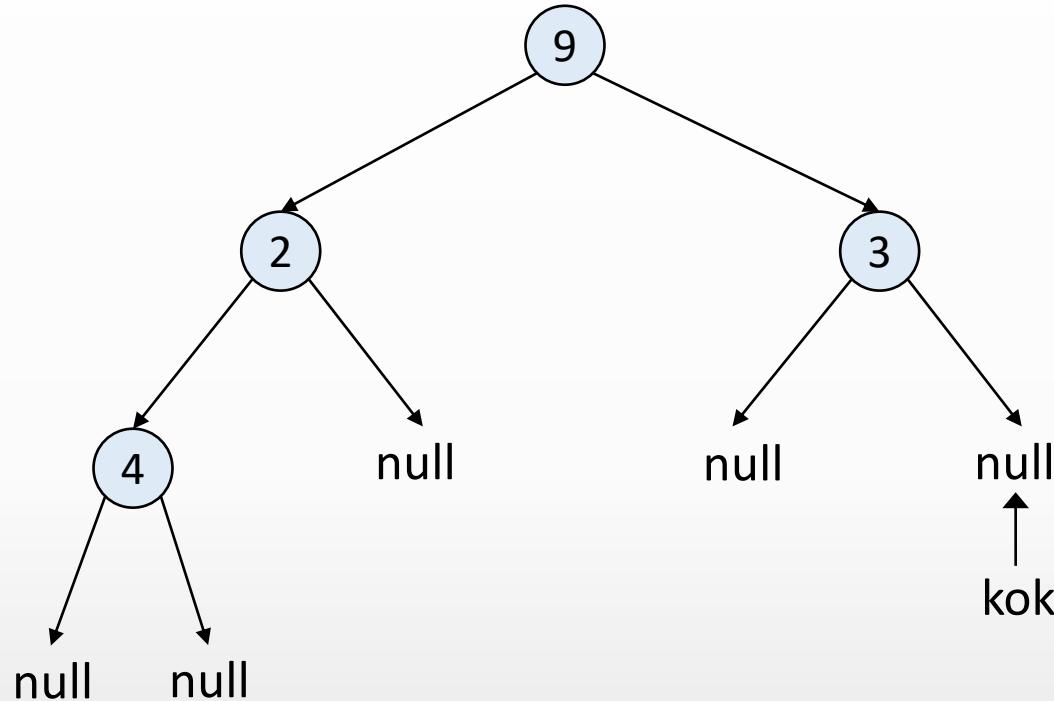
Cıktı: 4 2

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



## Çağırma Yığıtı (Call Stack)



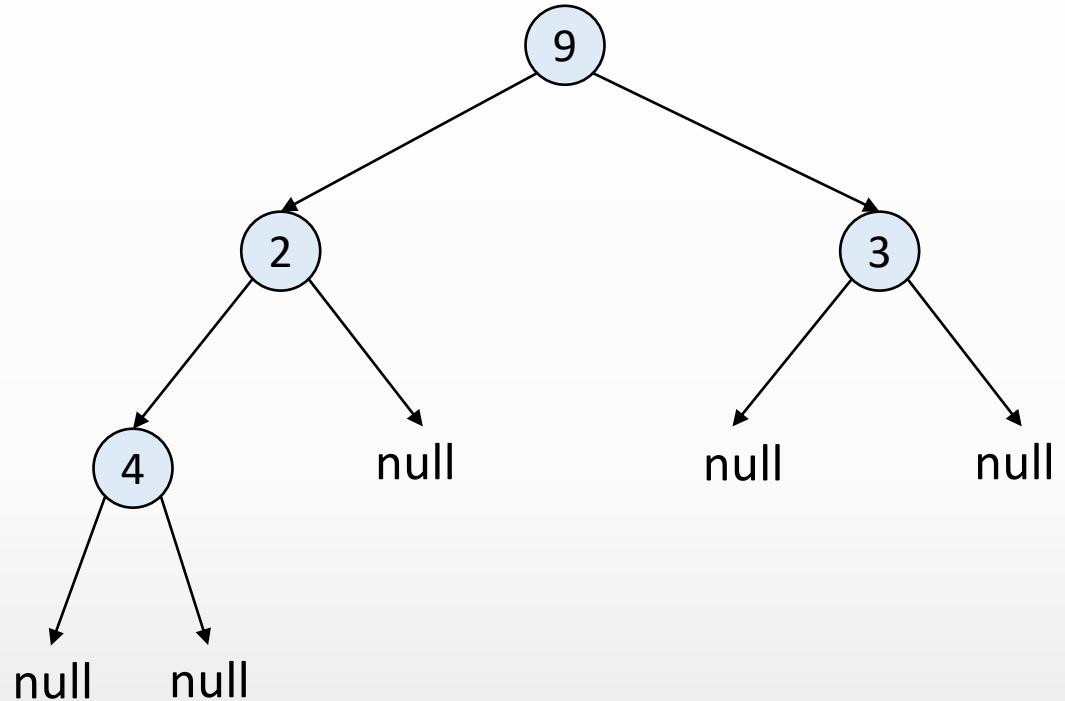
Cıktı: 4 2

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)



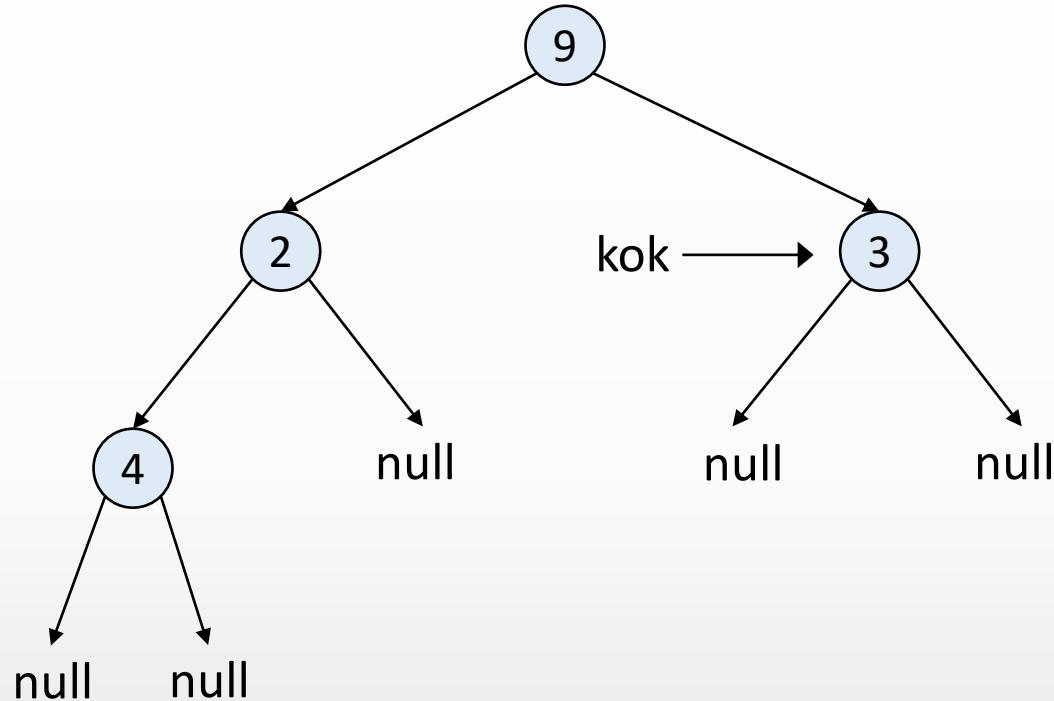
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9
kokSonda()	6	3

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)



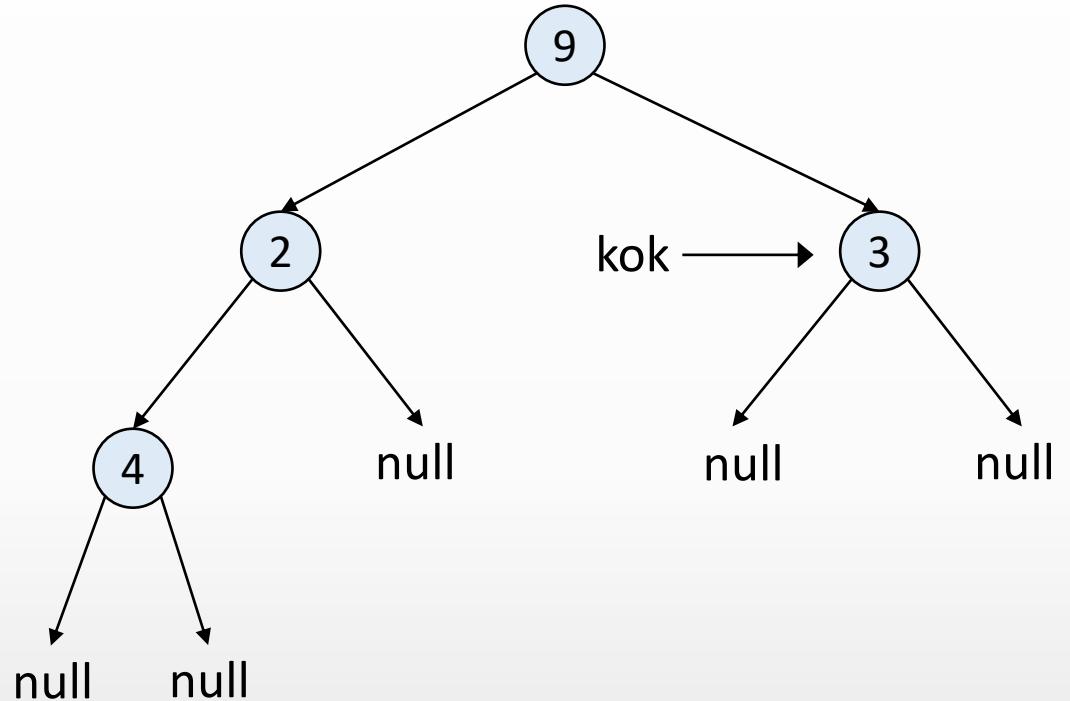
Çıktı: 4 2

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 }
```



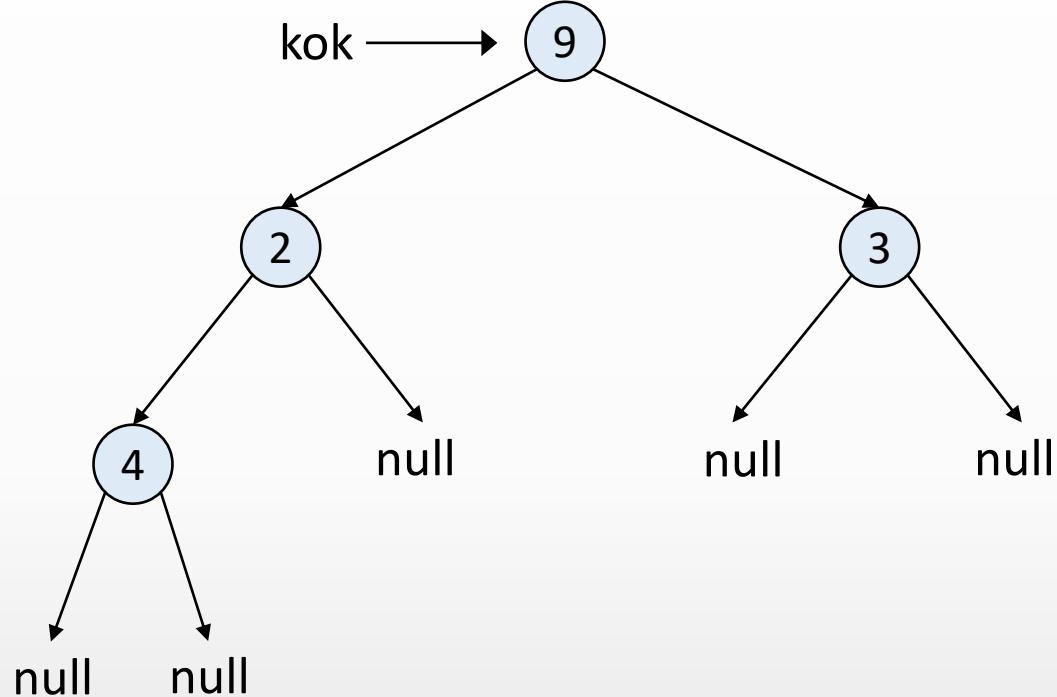
## Çağırma Yığıtı (Call Stack)



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)

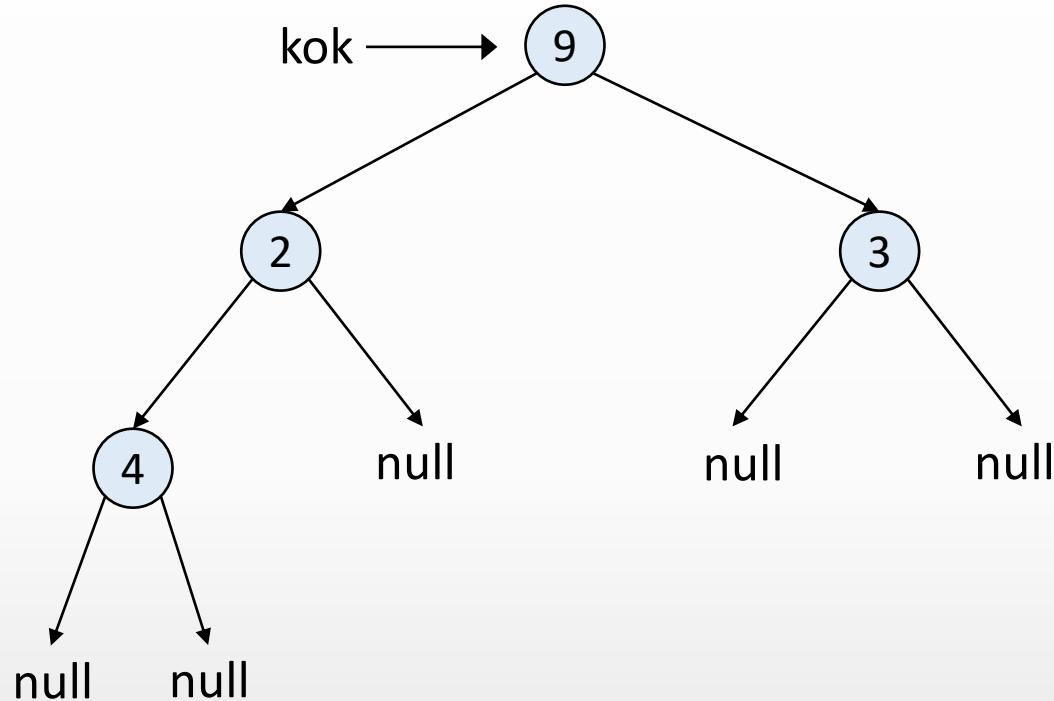
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

```
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)



Çıktı: 4 2 3 9

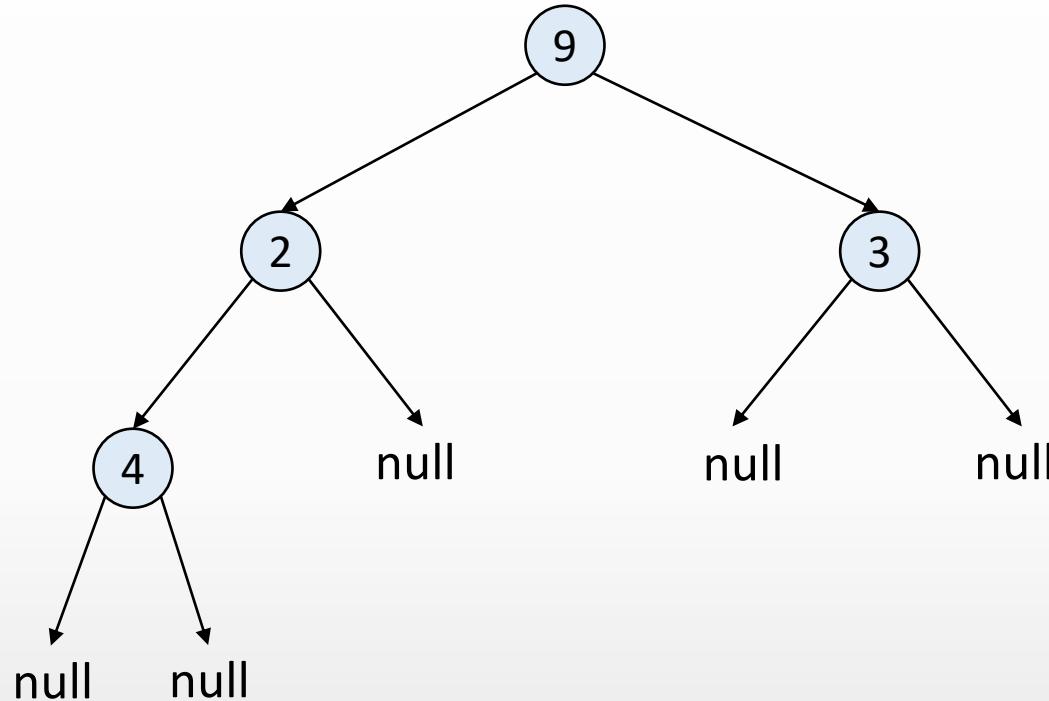
Metot Çağrımı	Satır Numarası	Kök
kokSonda()	6	9

→

```
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 }
```



## Çağrıma Yığıtı (Call Stack)



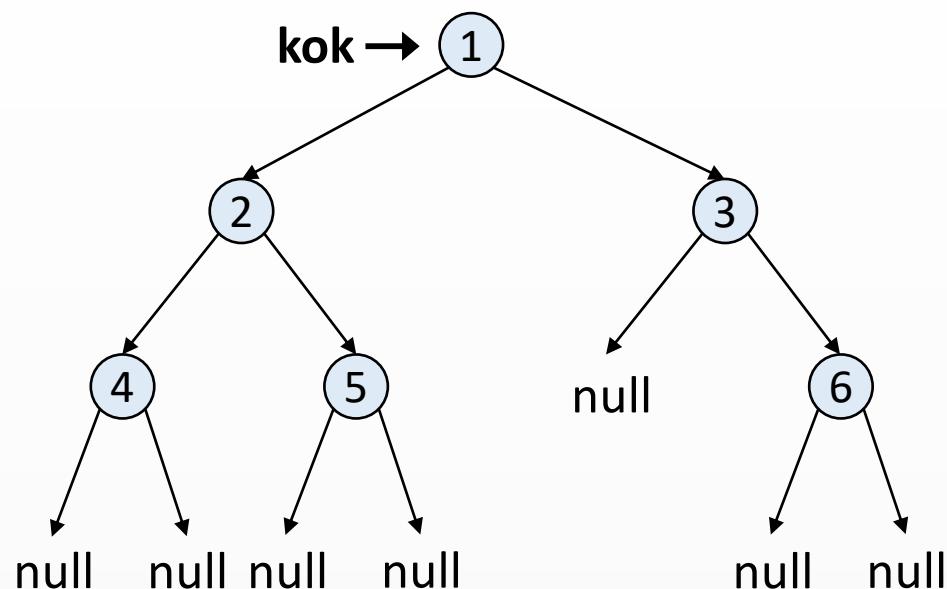
Cıktı: 4 2 3 9

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 }
```

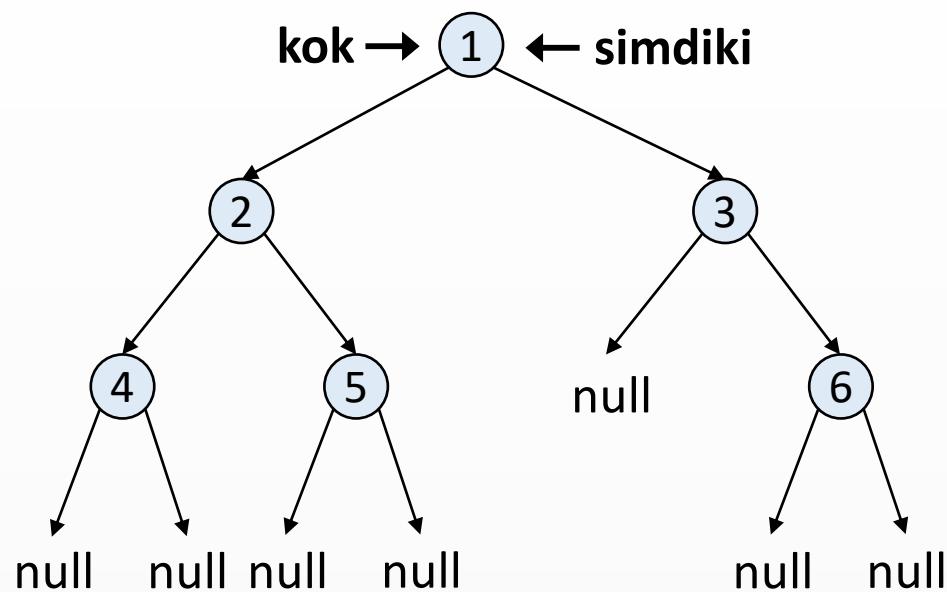
# Yığın ile Kök Sonda Dolaşımı





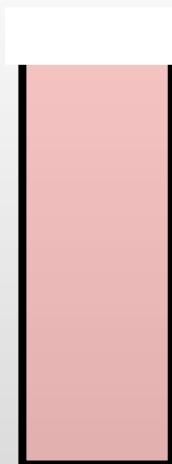
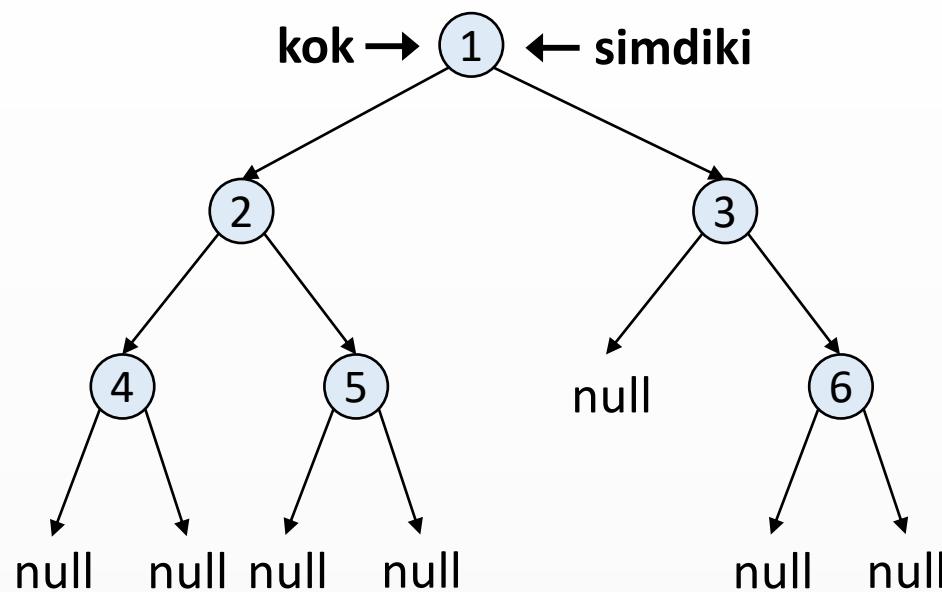
Çıktı:

```
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:

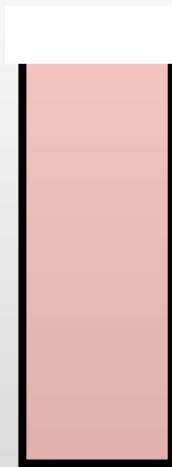
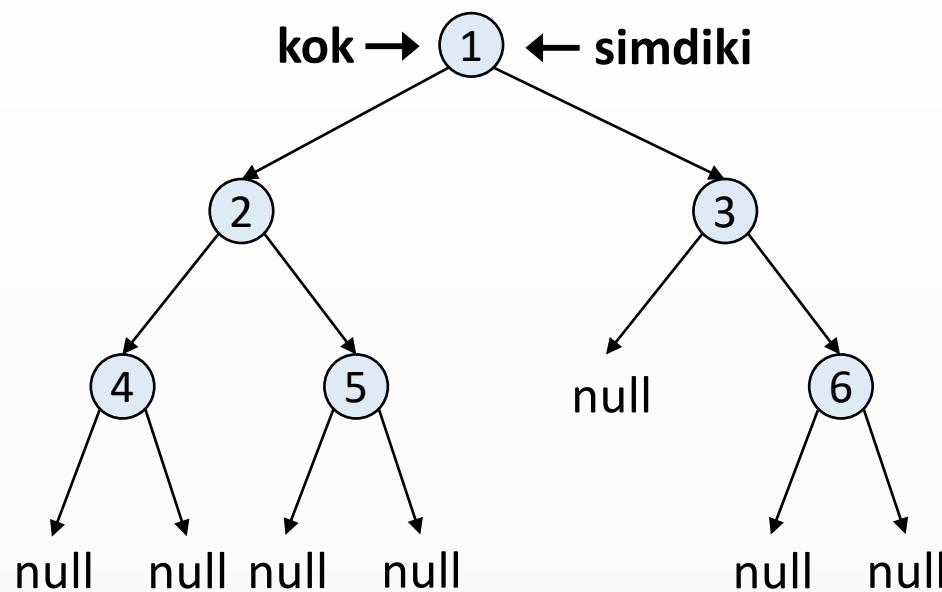
→ AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
**while**(simdiki != null || !yigit.isEmpty()) {  
    **if**(simdiki != null) {  
        yigit.push(simdiki);  
        simdiki = simdiki.sol;  
    }  
    **else** {  
        AgacDugumu gecici = yigit.peek().sag;  
       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

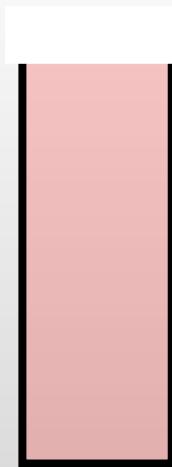
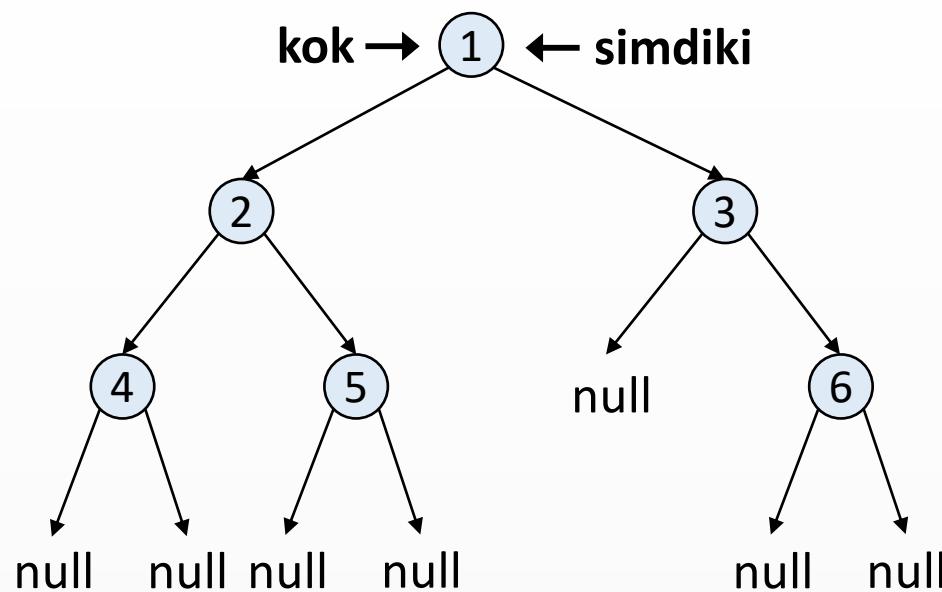
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
    }
    else {
        AgacDugumu gecici = yigit.peek().sag;
        if(gecici == null) {
      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



Yığıt

## Çıktı:

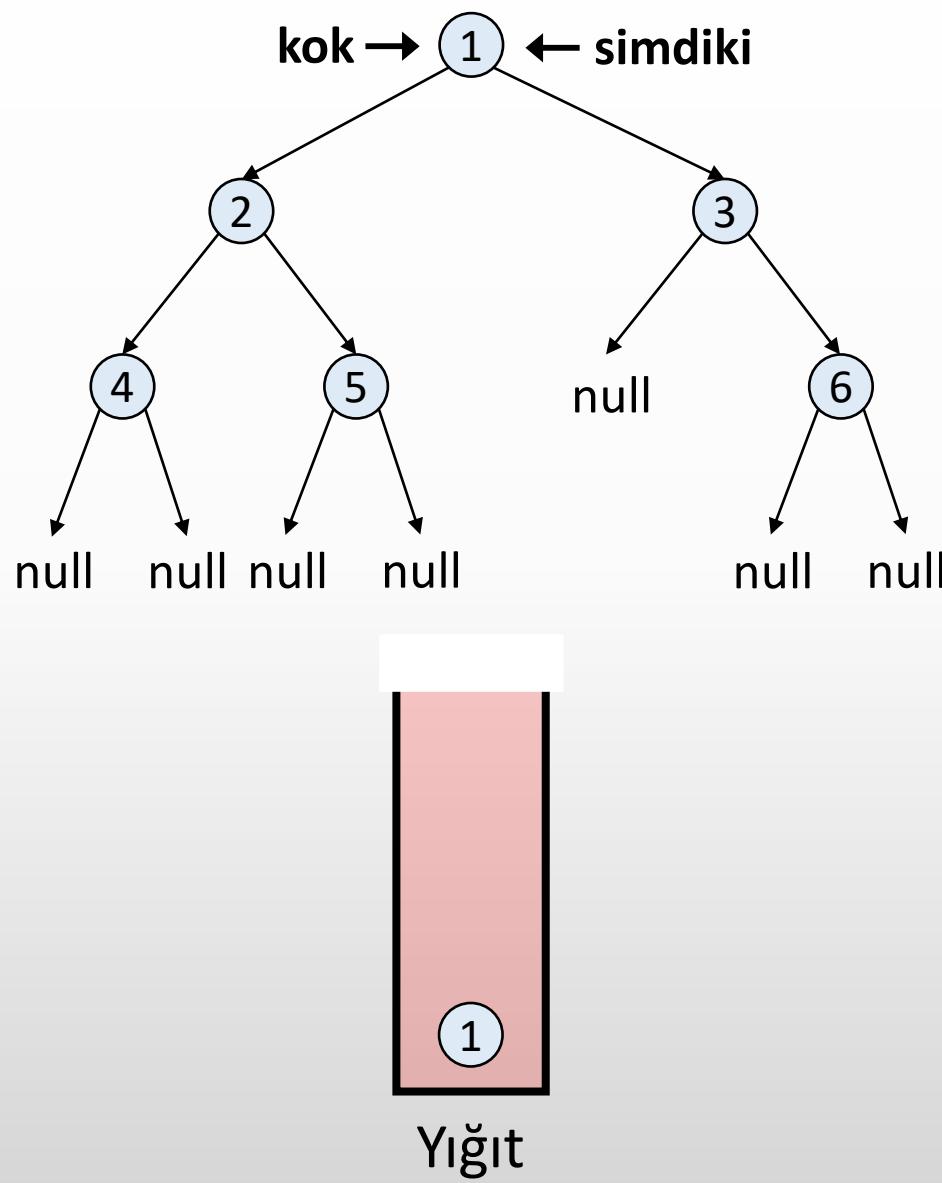
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                  gecici == yigit.peek().sag) {  
                gecici = yigit.pop();  
                System.out.print(gecici.veri + " ");  
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Yığıt

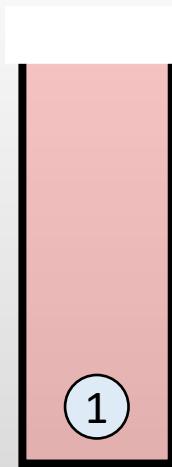
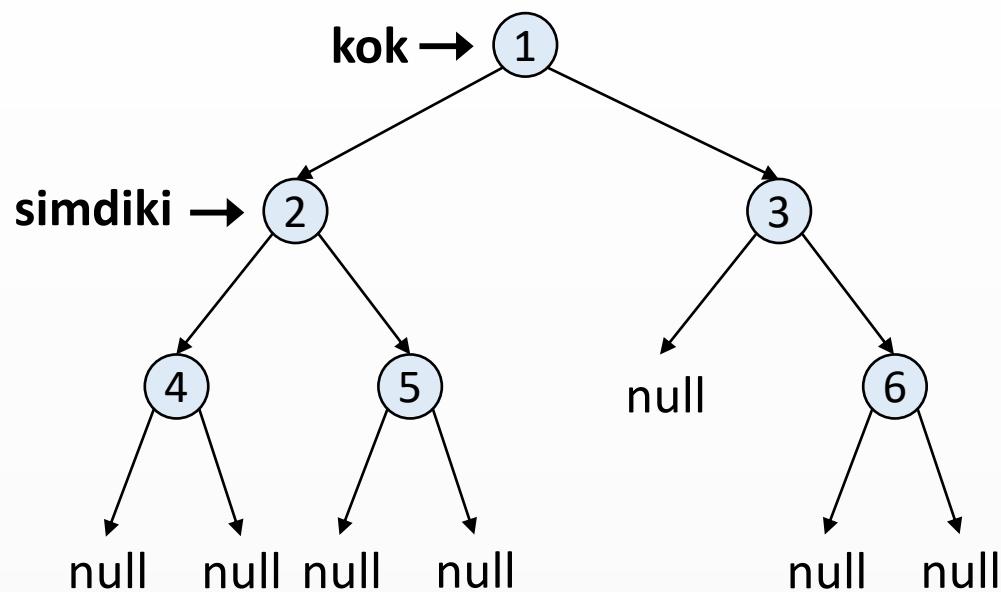
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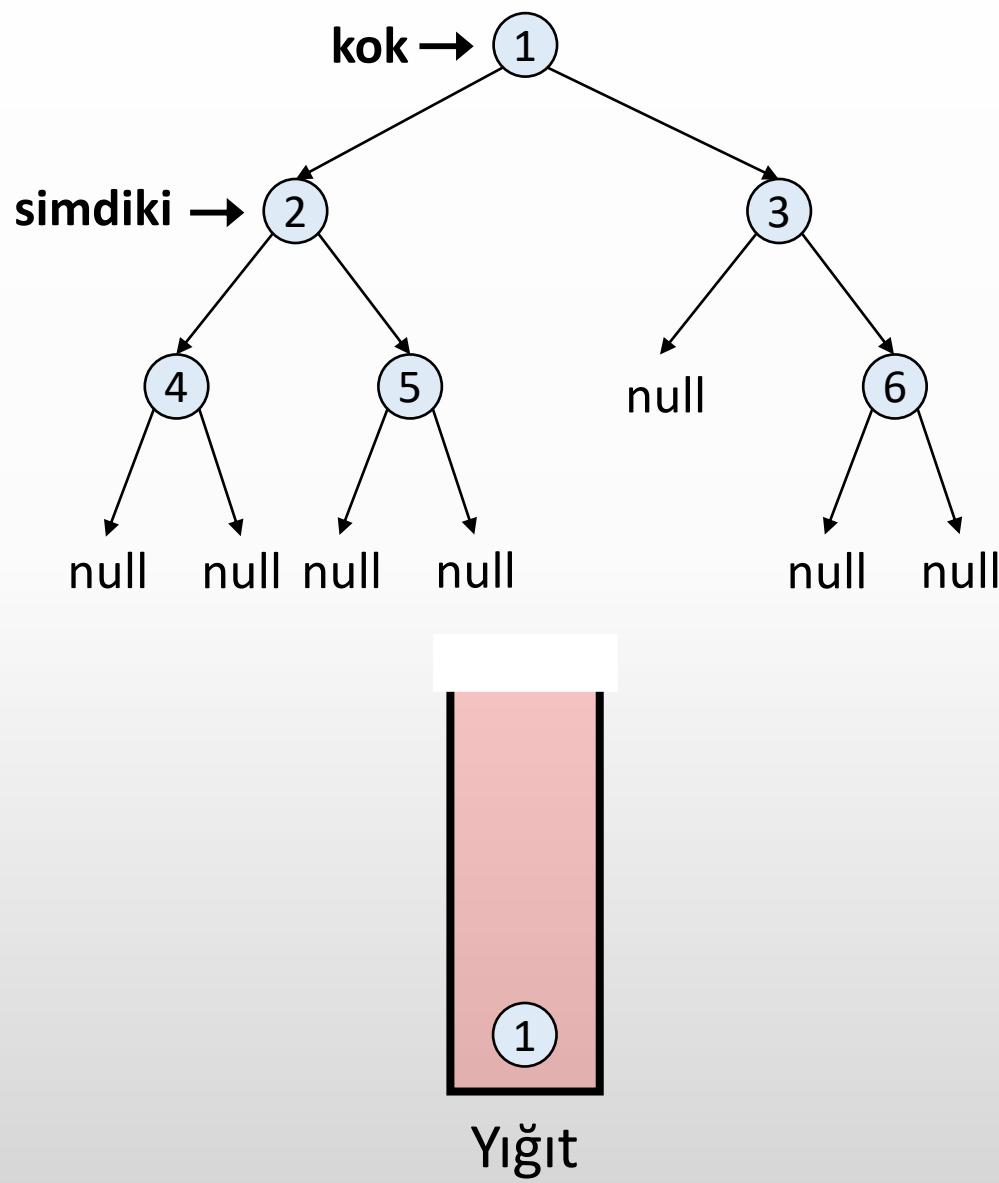
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                gecici = yigit.pop();
                System.out.print(gecici.veri + " ");
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        }
        else {
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        }
    }
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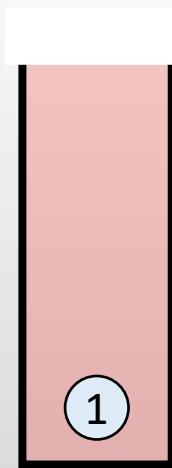
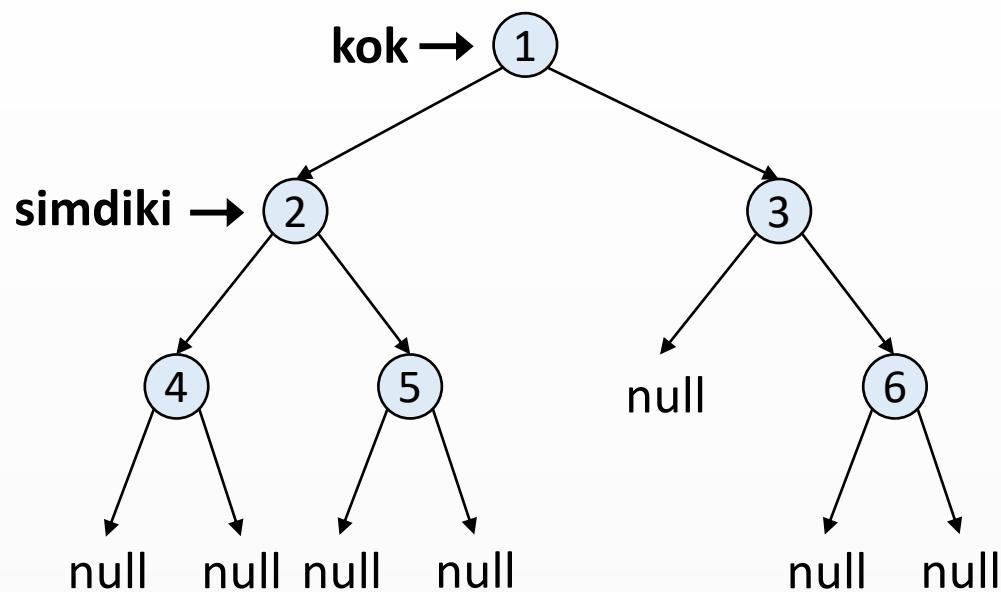
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AgacDugumu simdiki = kok;  
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        }  
    }  
    else {  
        simdiki = gecici;  
    }  
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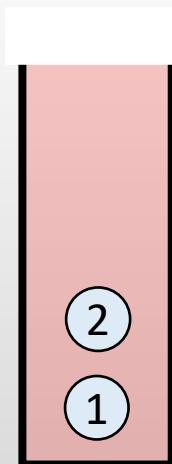
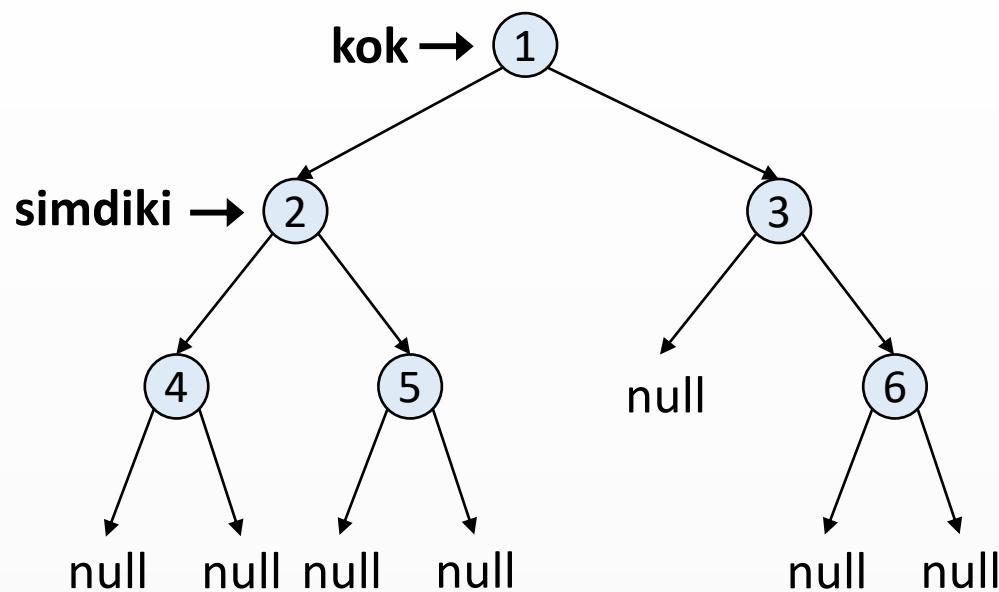
```
AgacDugumu simdiki = kok;  
Stack<AgacDugumu> yigit = new Stack<>();  
→ while(simdiki != null || !yigit.isEmpty()) {  
    if(simdiki != null) {  
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                gecici = yigit.pop();  
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  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



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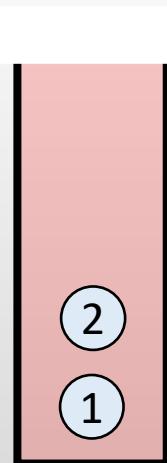
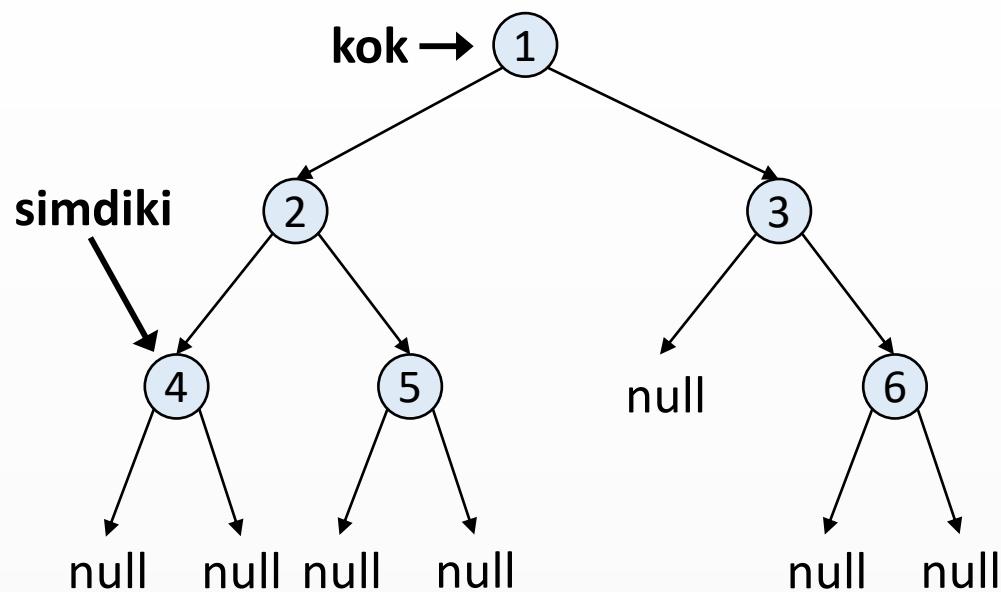
Çıktı:

```
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 + " ");
            }
        }
        else {
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        }
    }
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**Çıktı:**

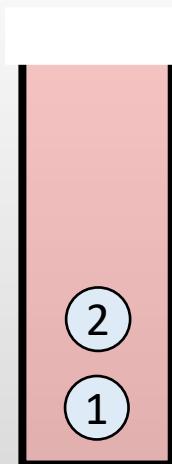
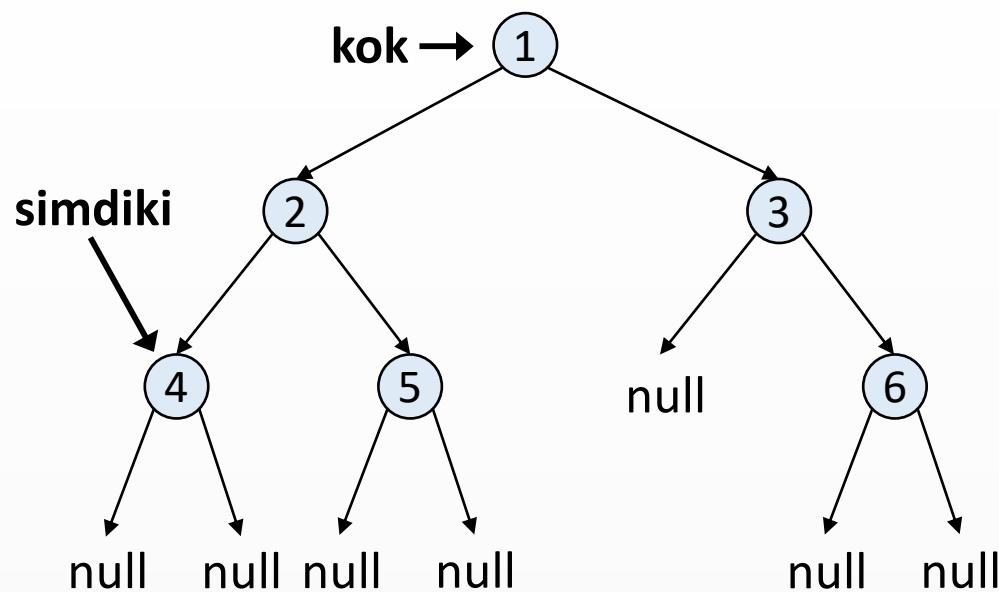
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
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Yığıt

Çıktı:

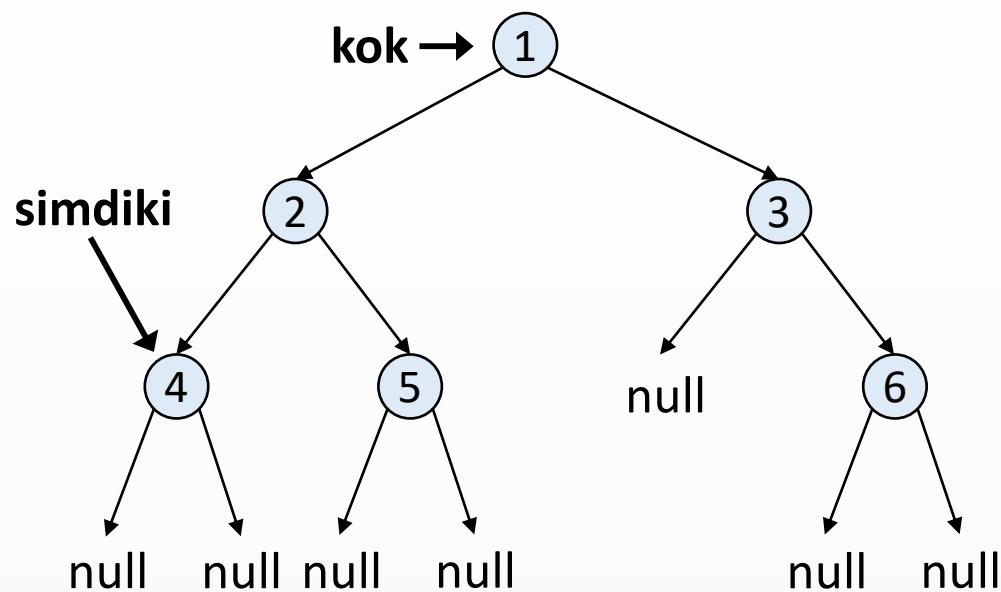
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Yığıt

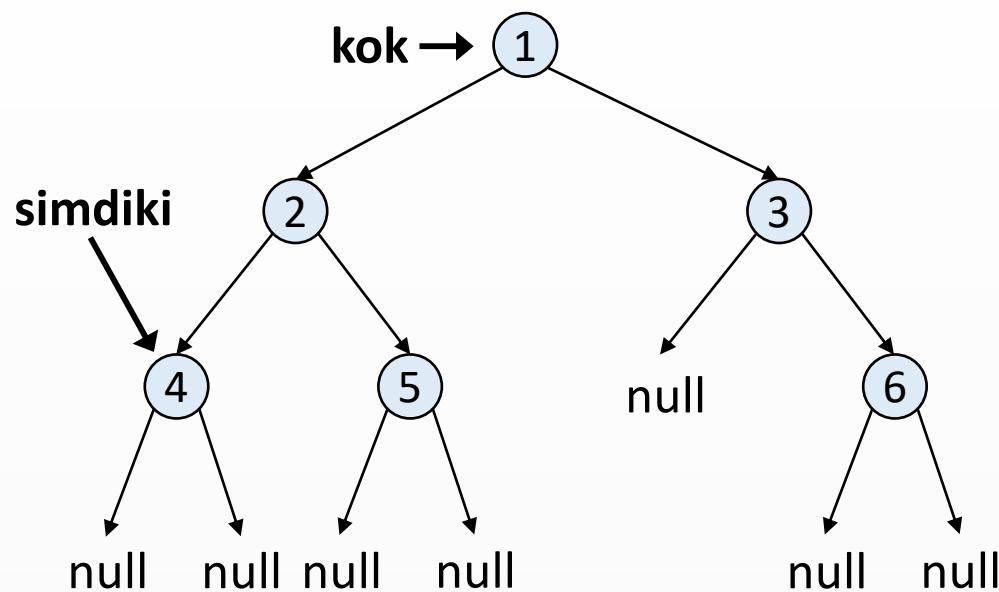
Çıktı:

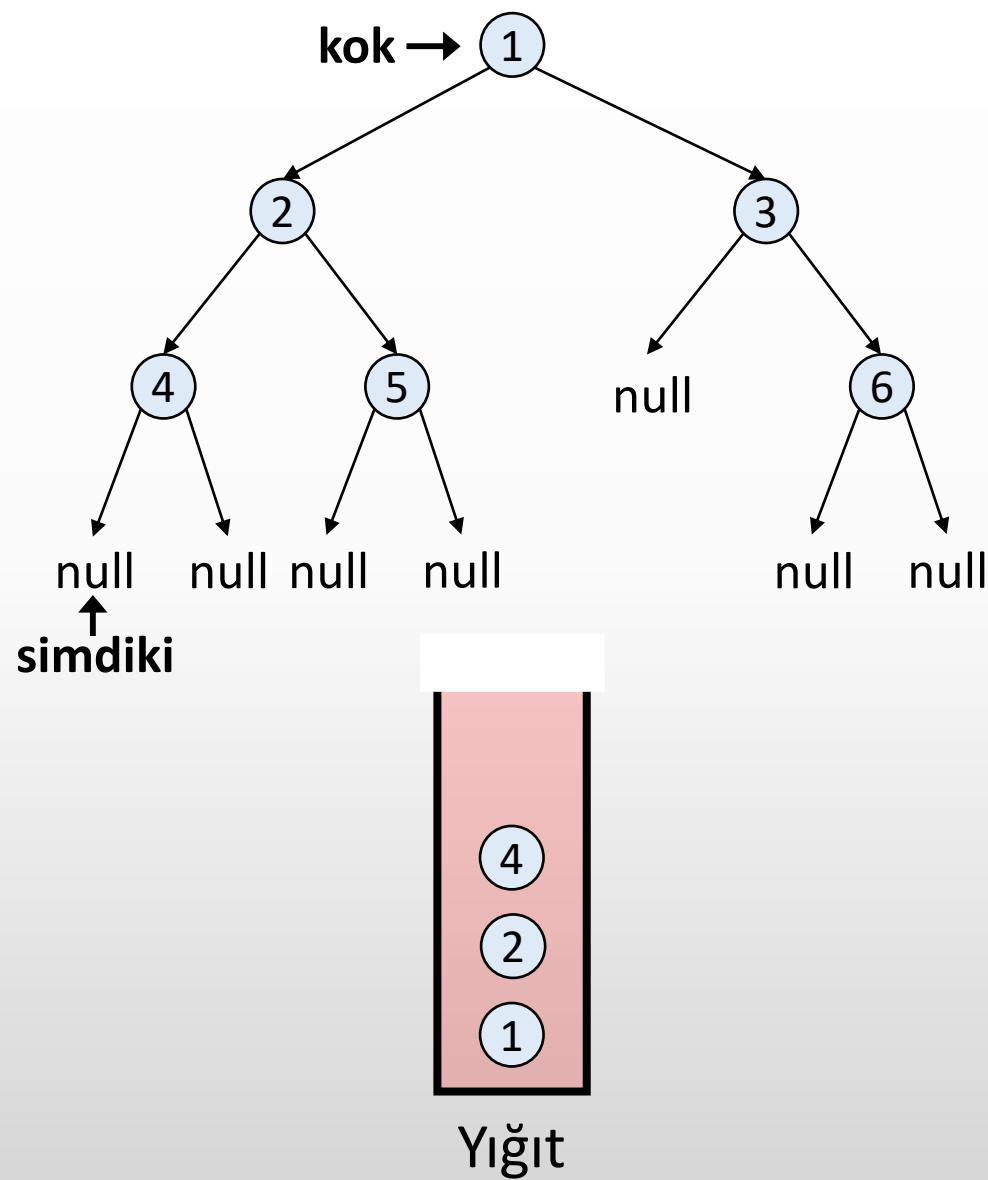
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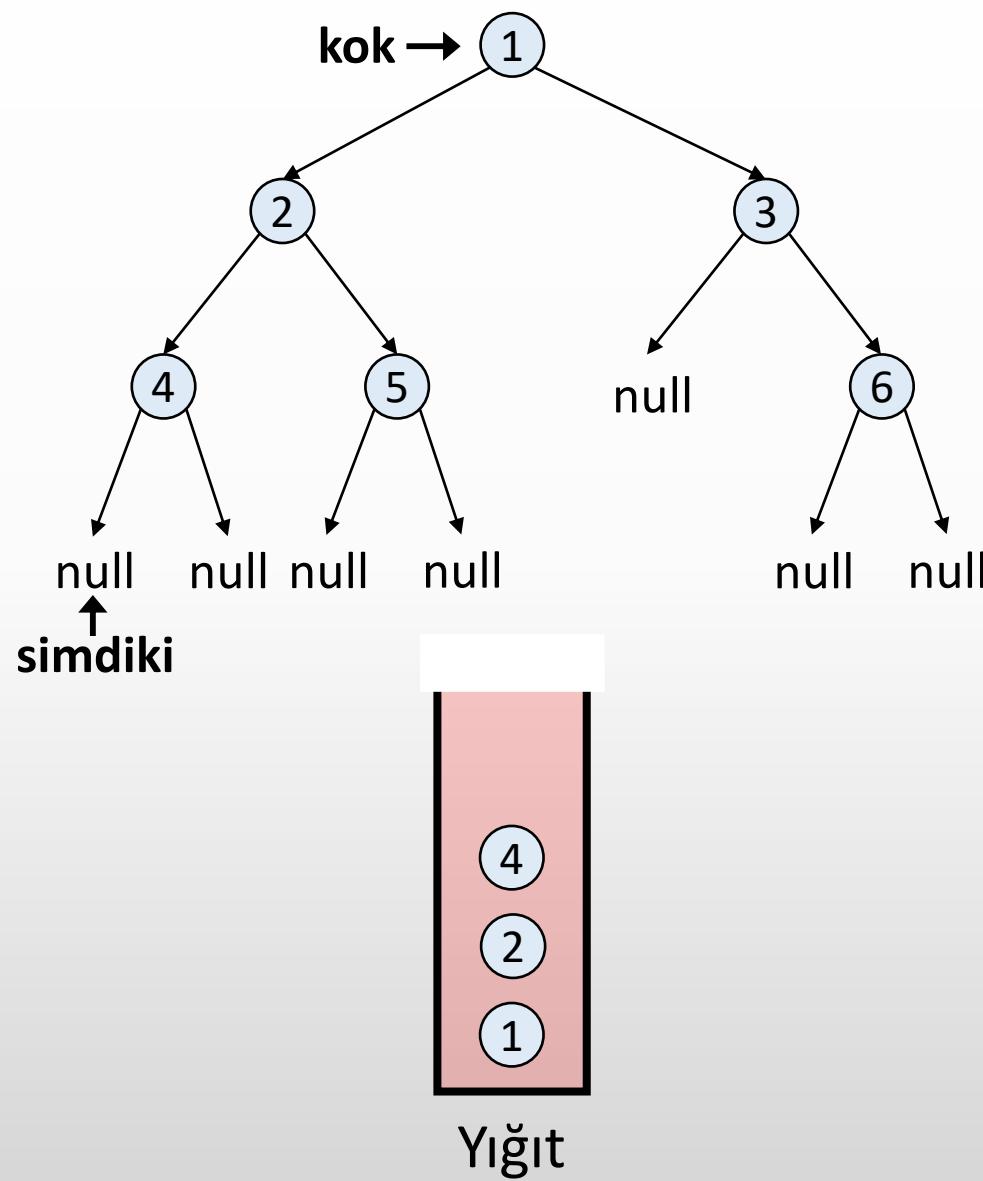
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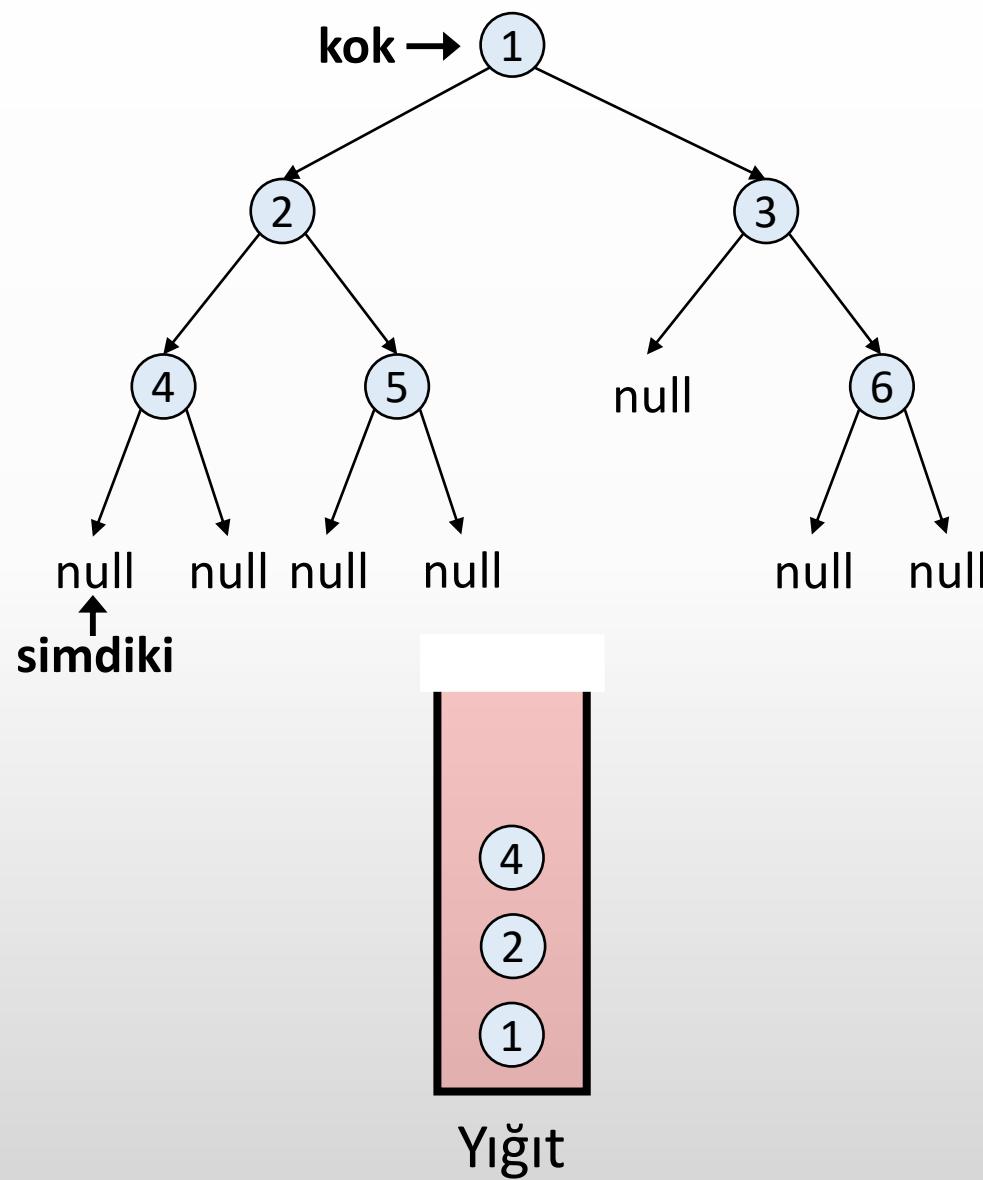
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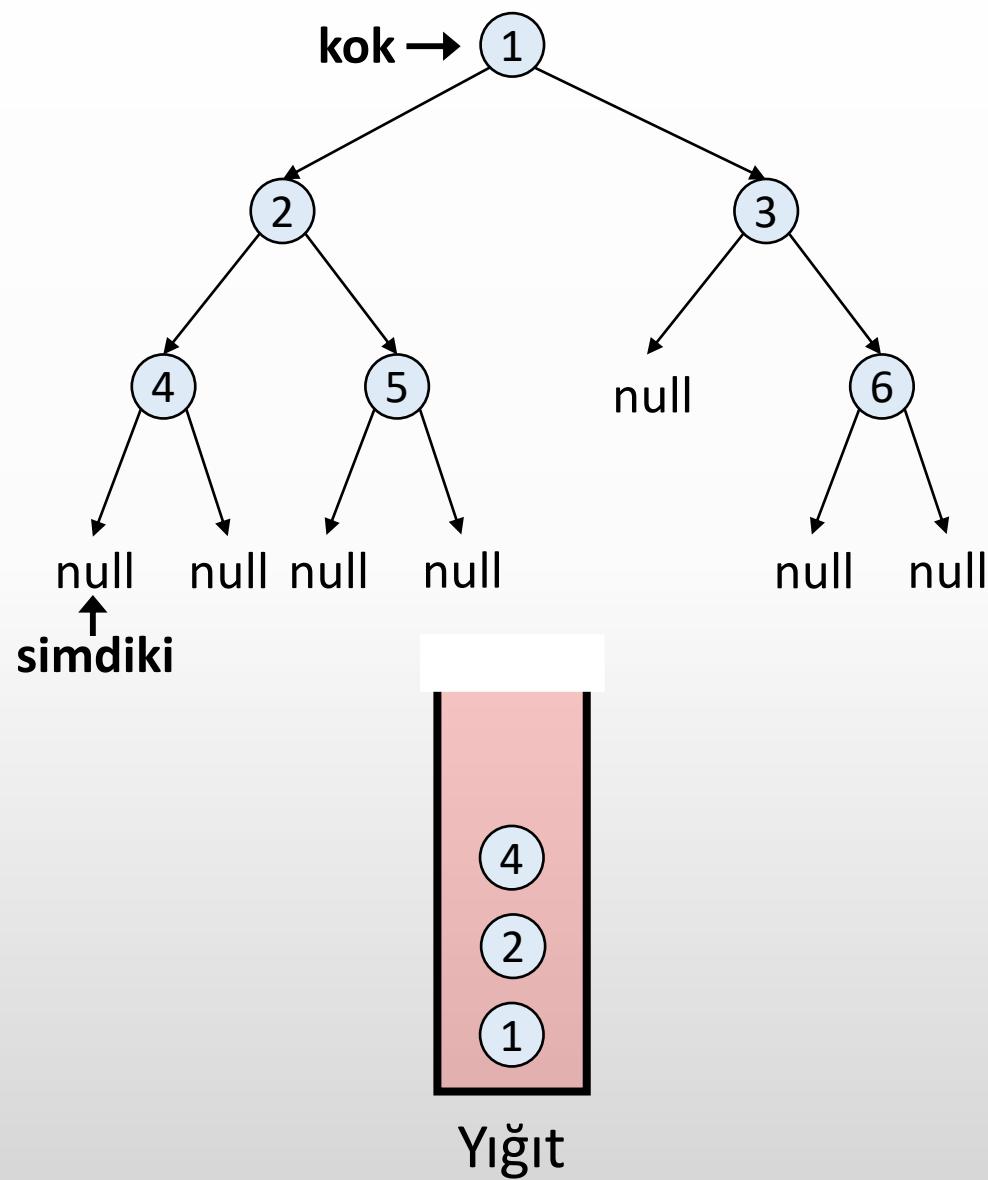
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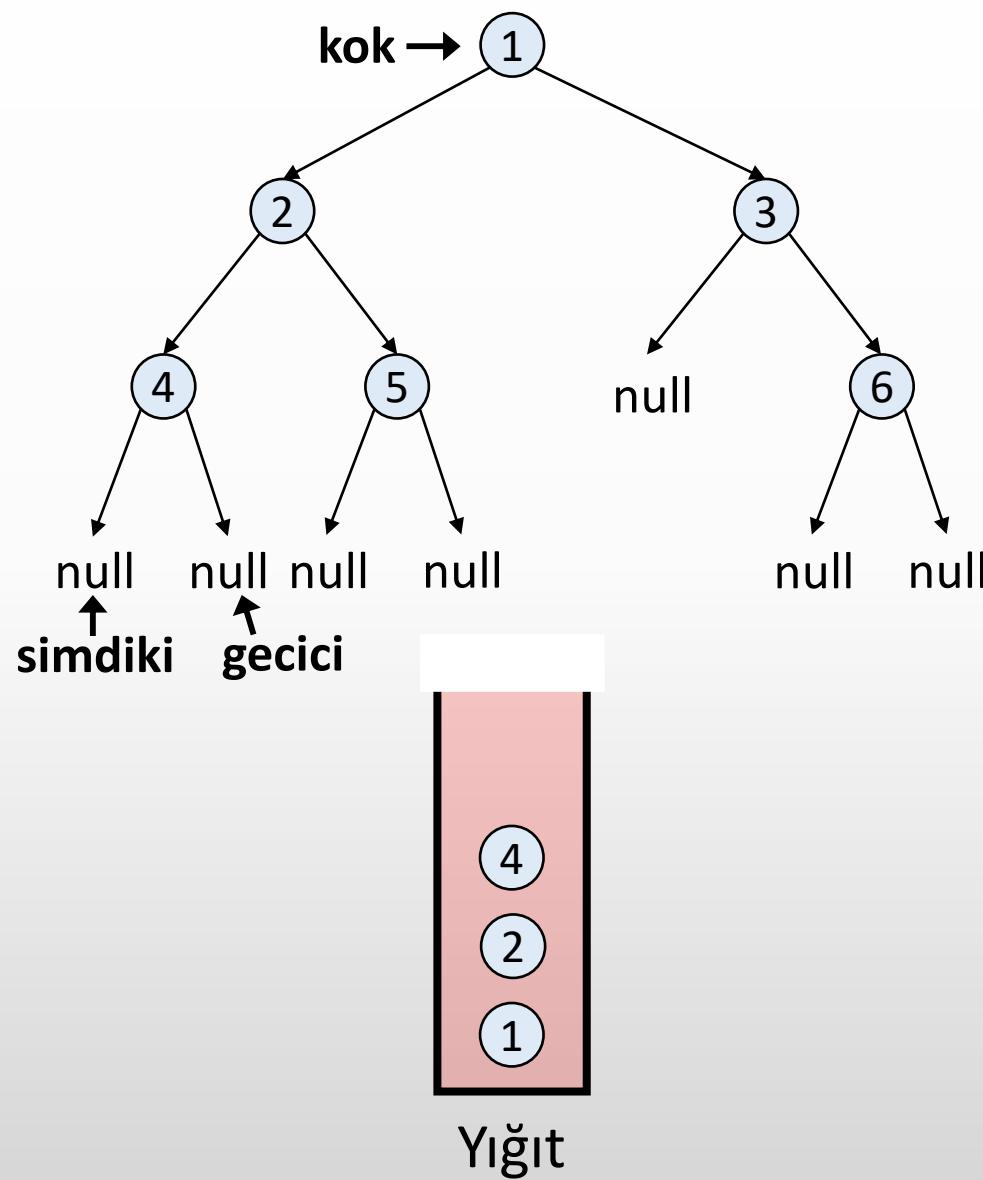
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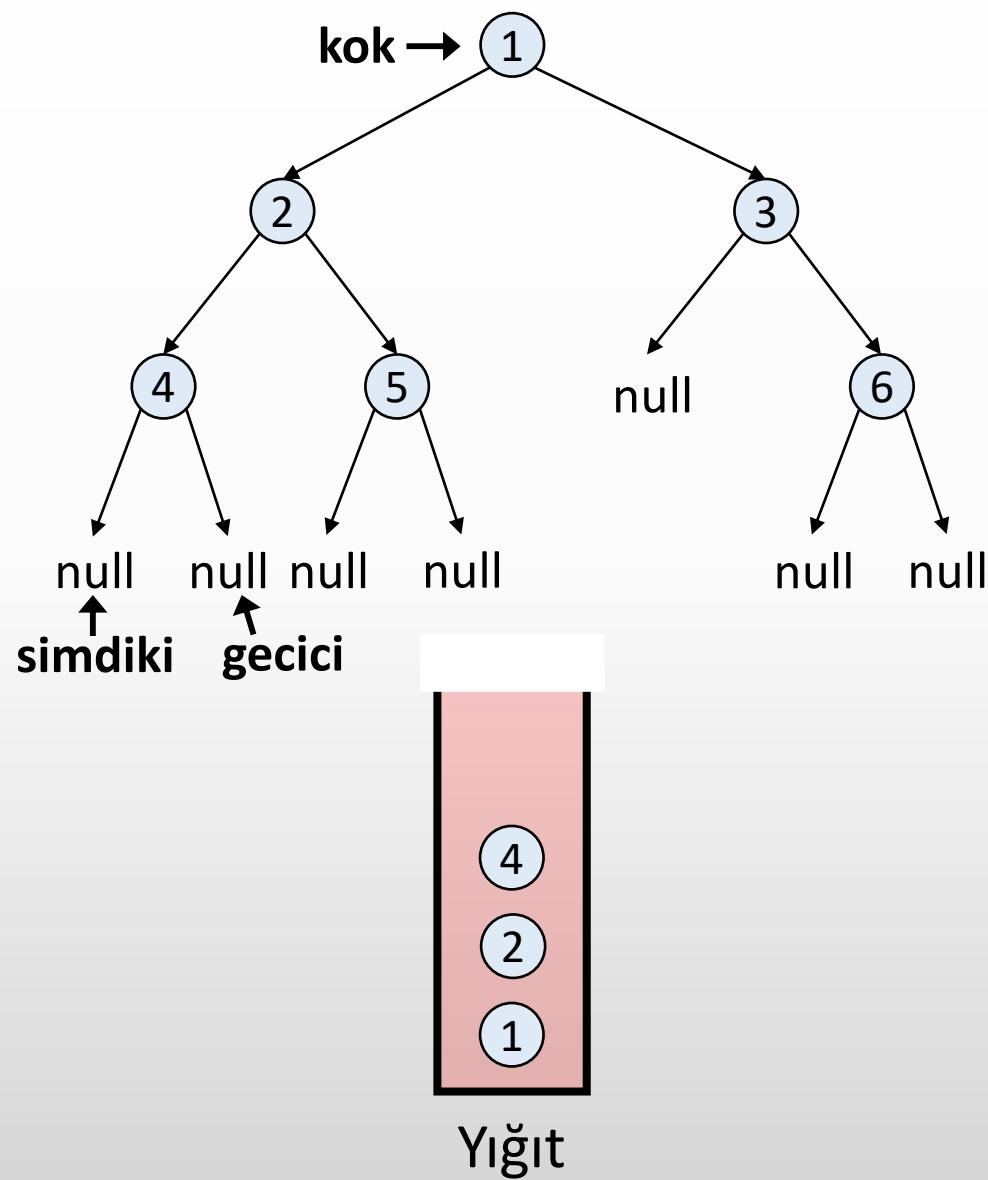
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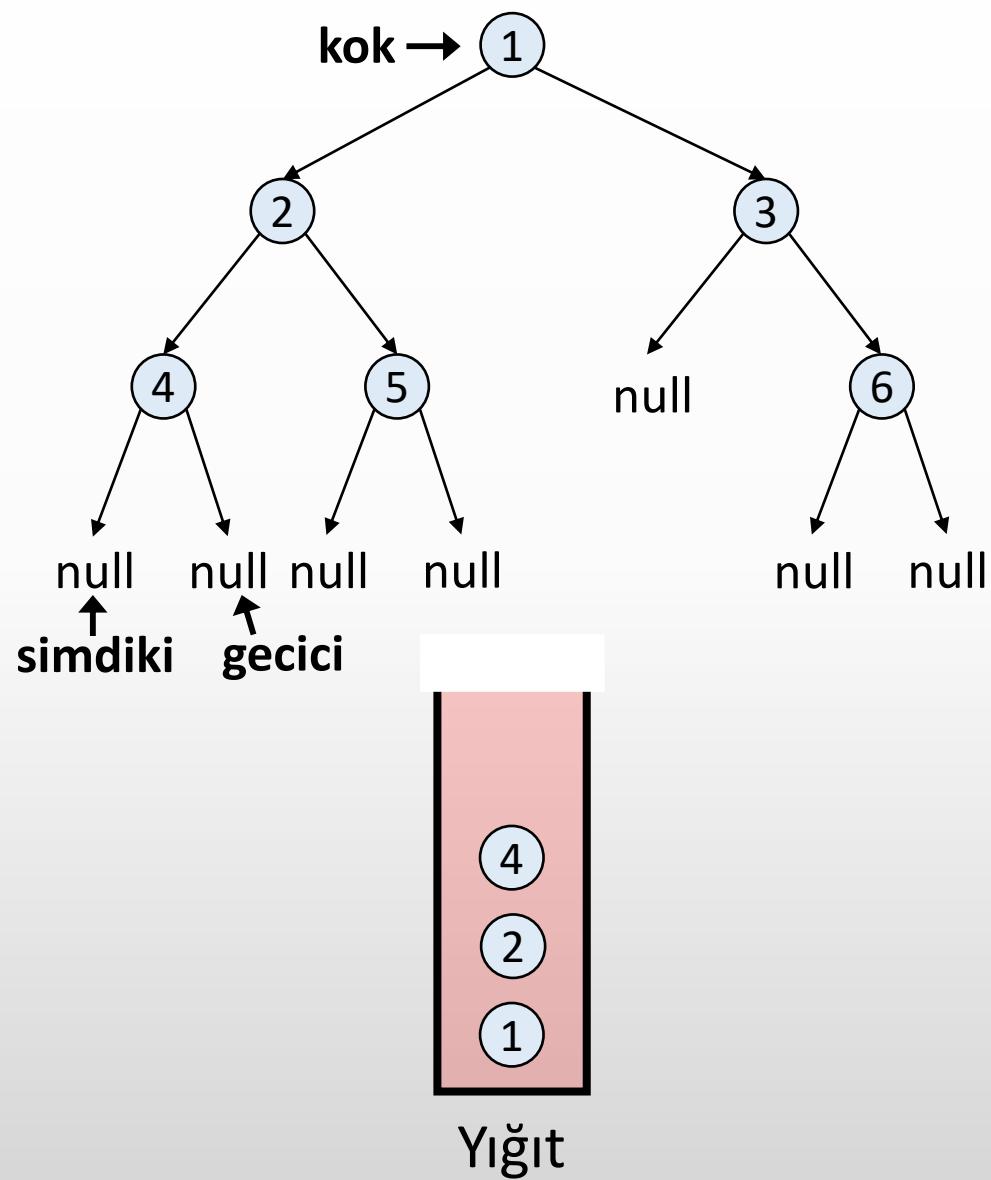
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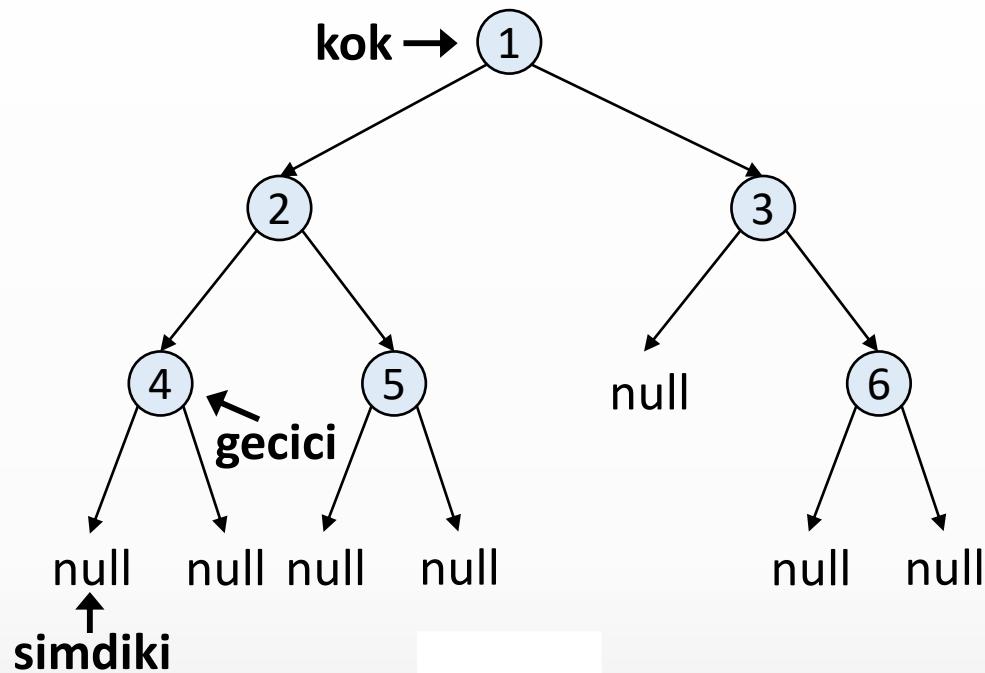
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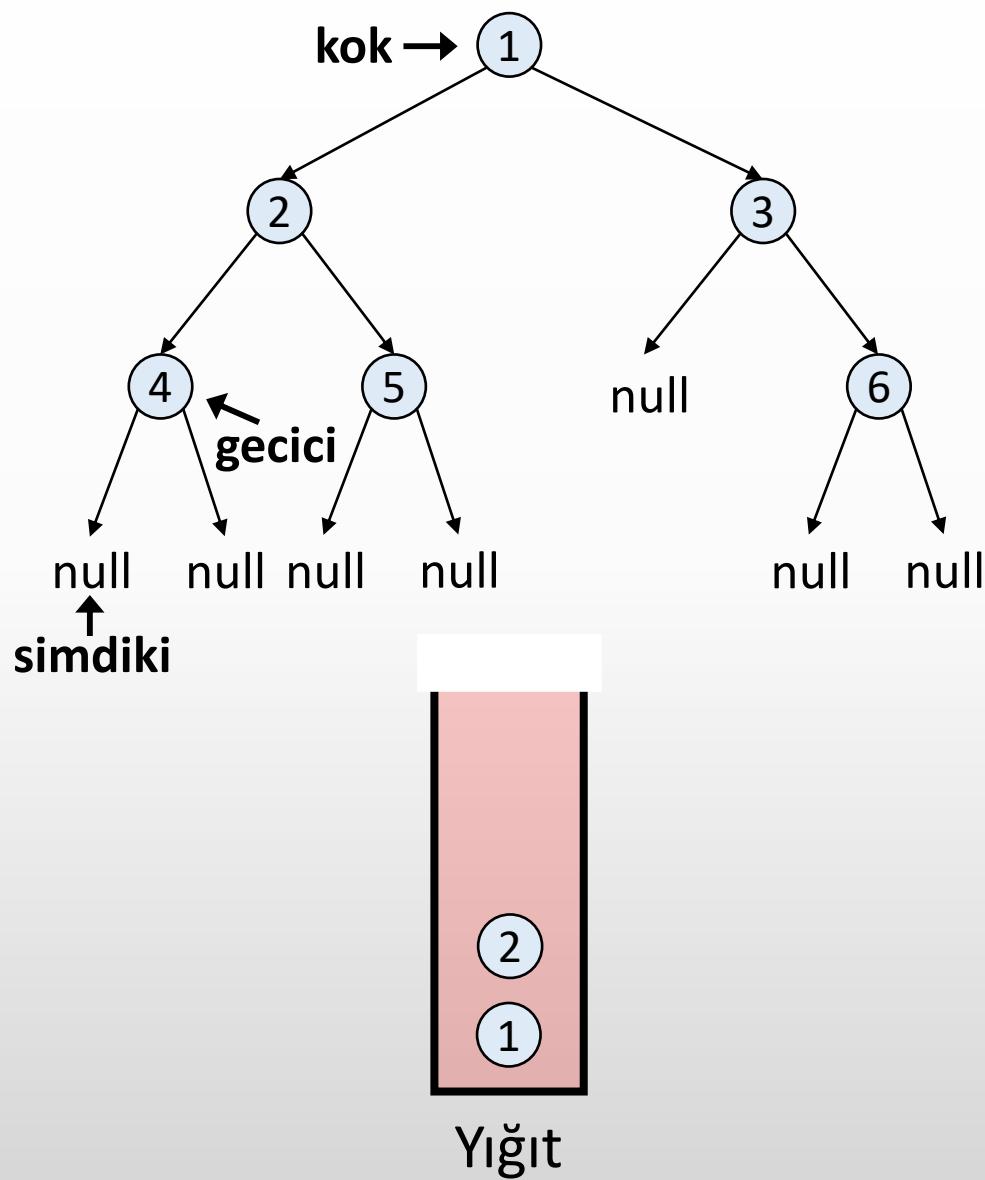
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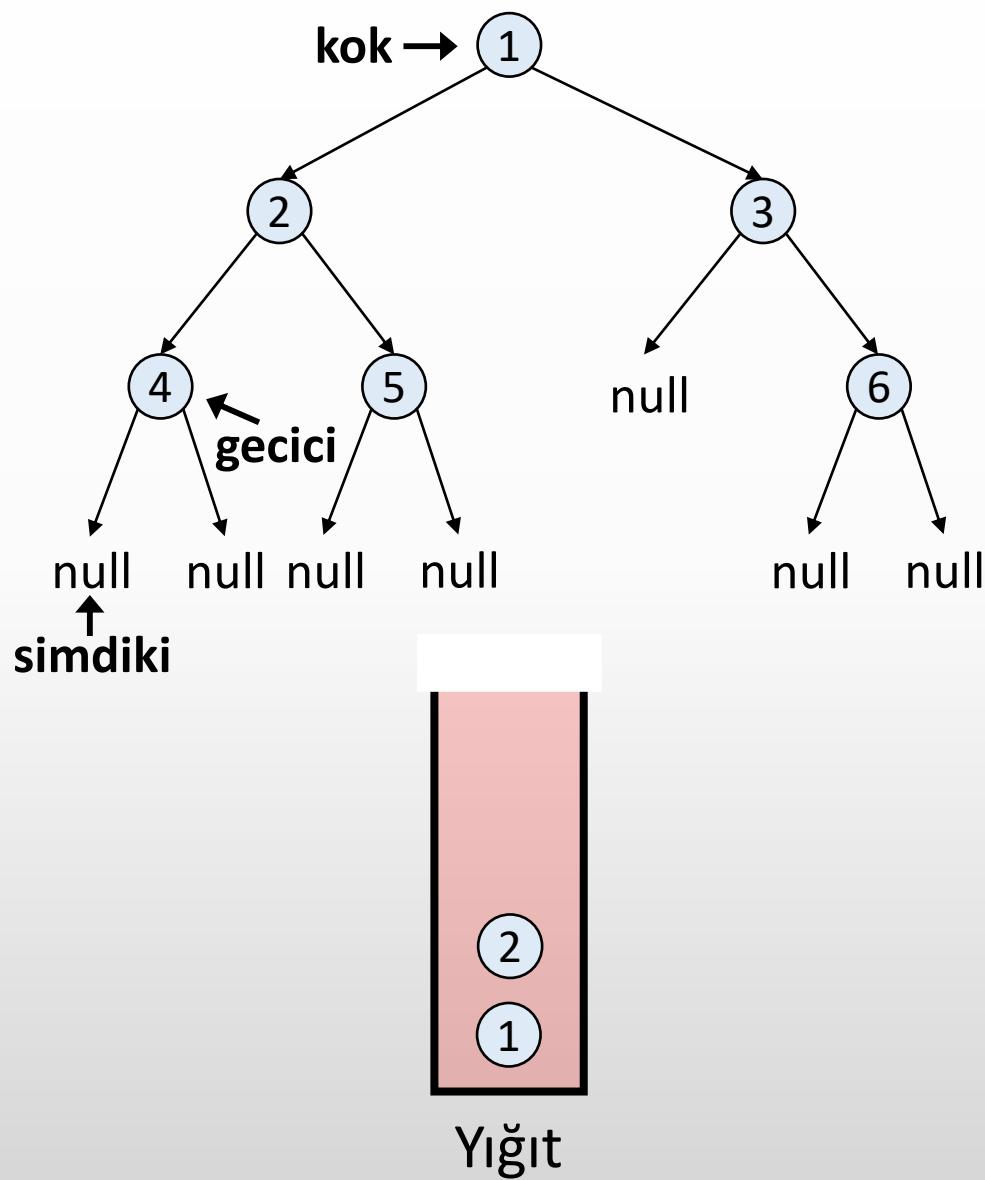
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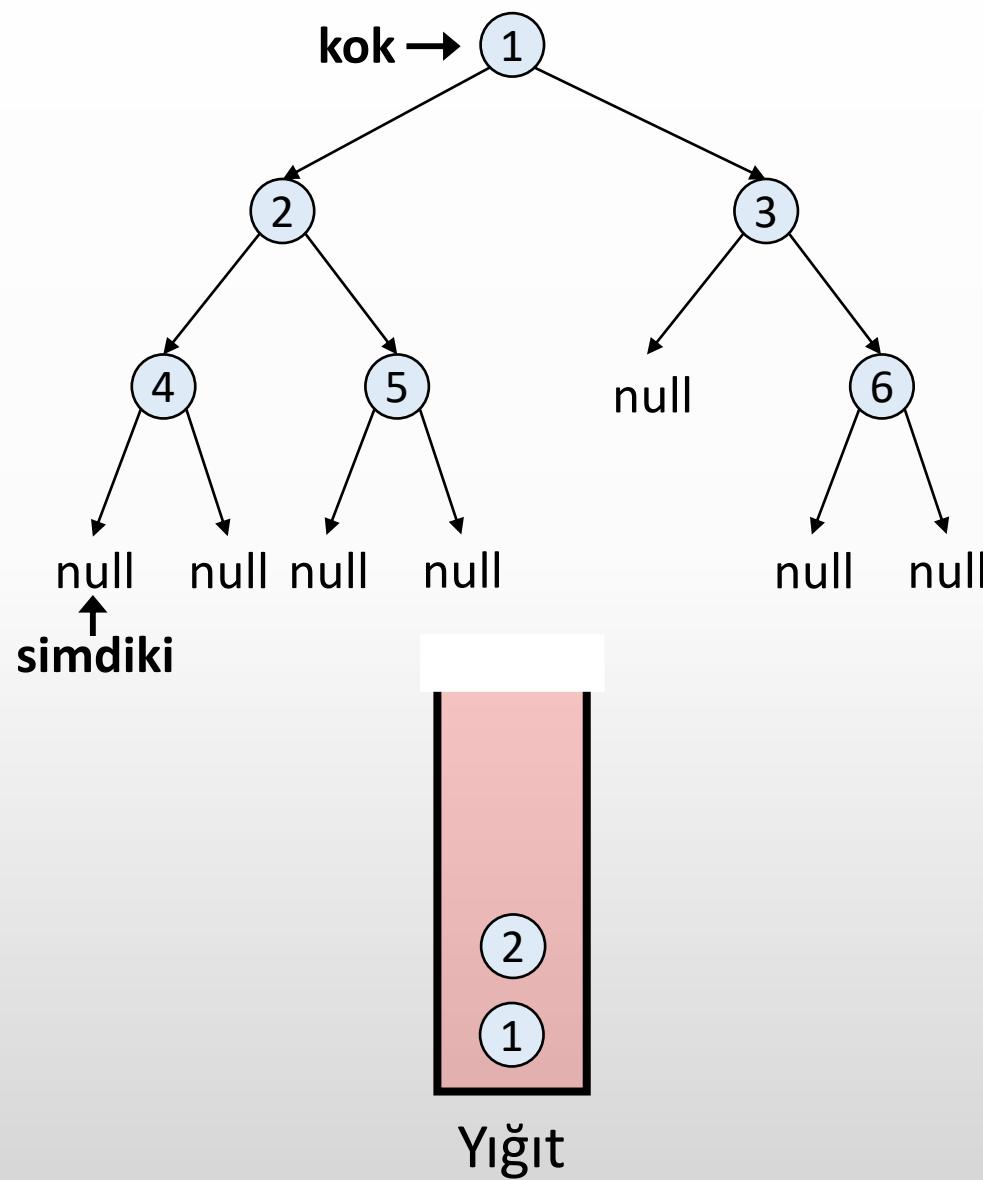
Çıktı: 4

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



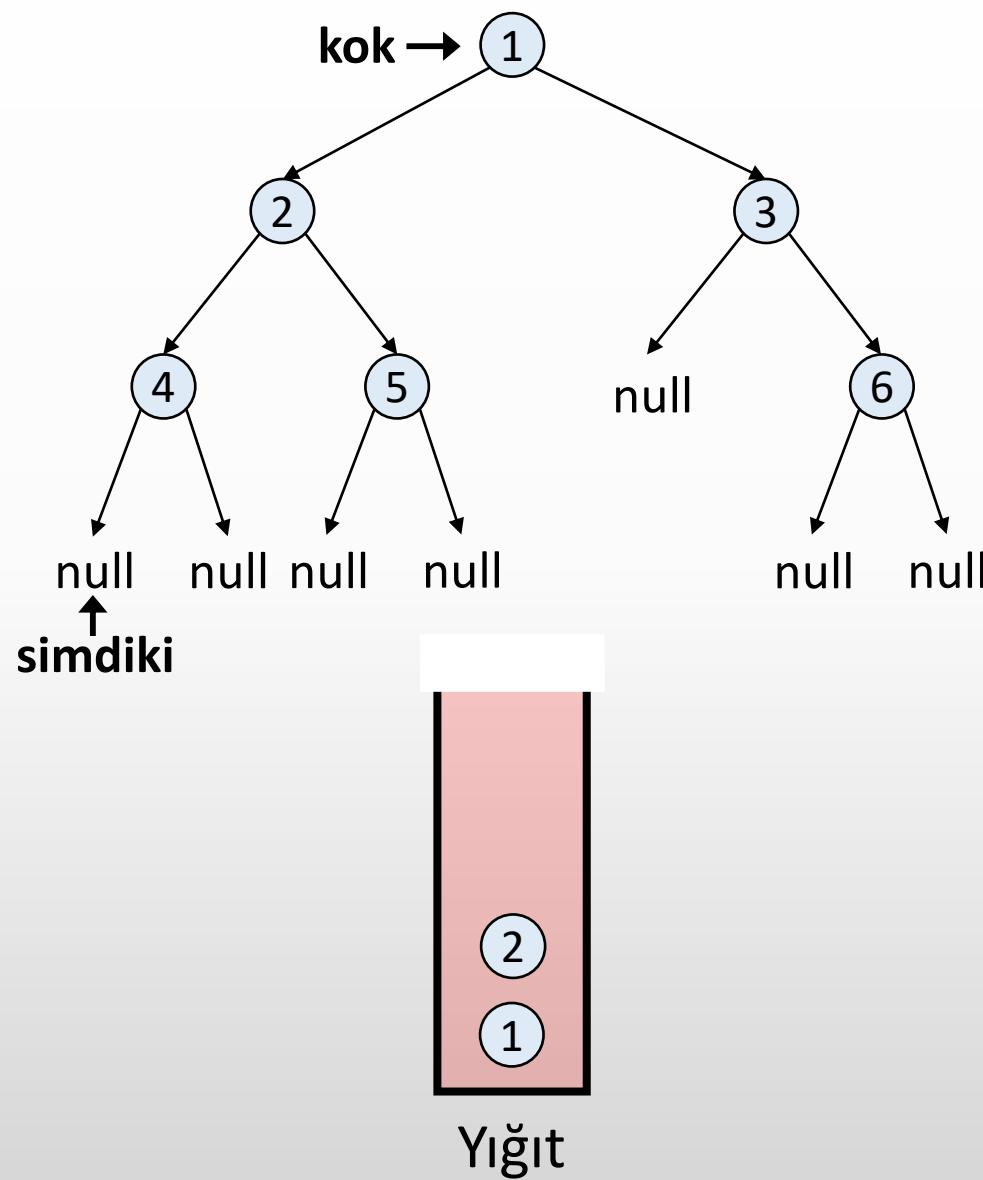
Çıktı: 4

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



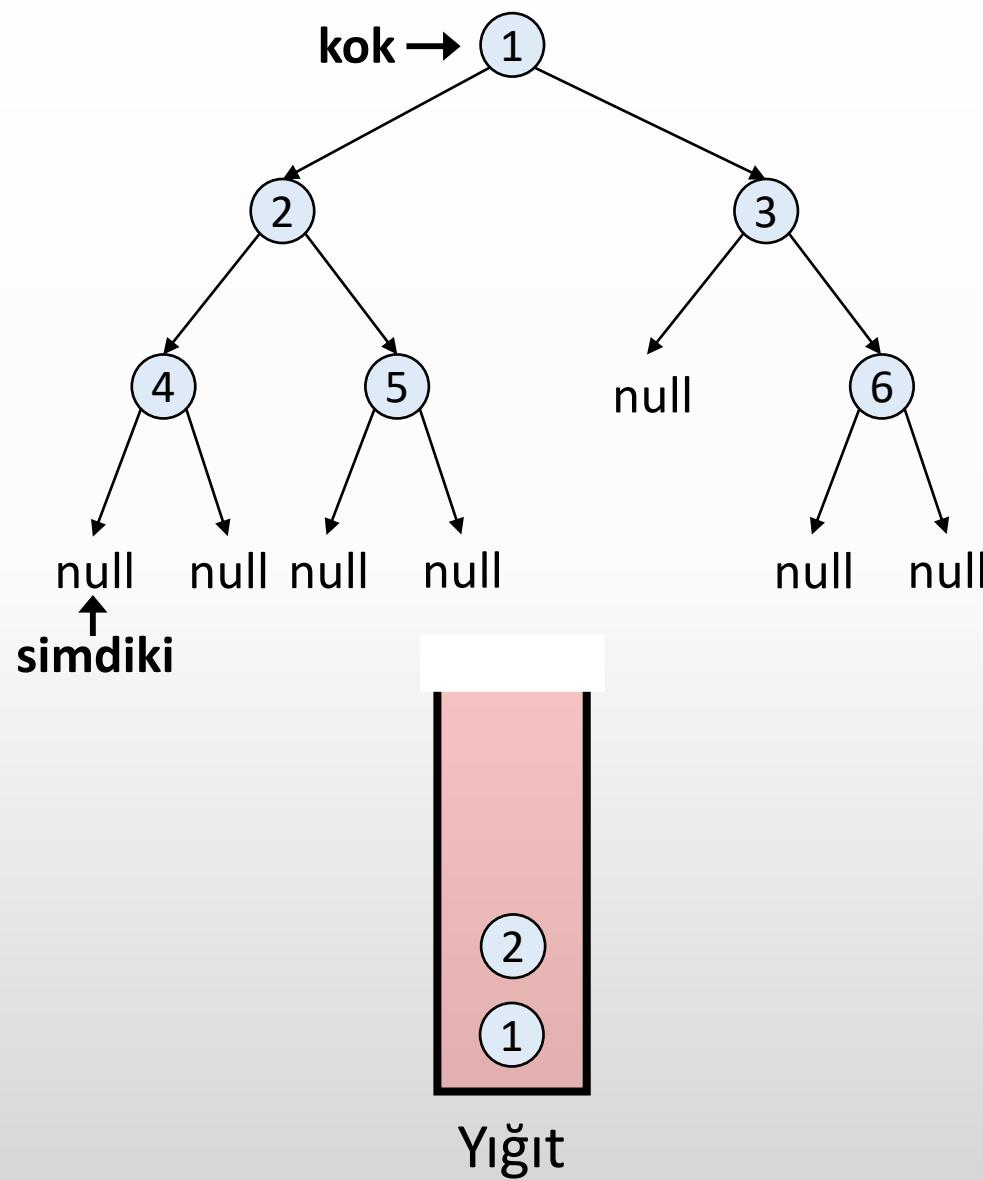
Çıktı: 4

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



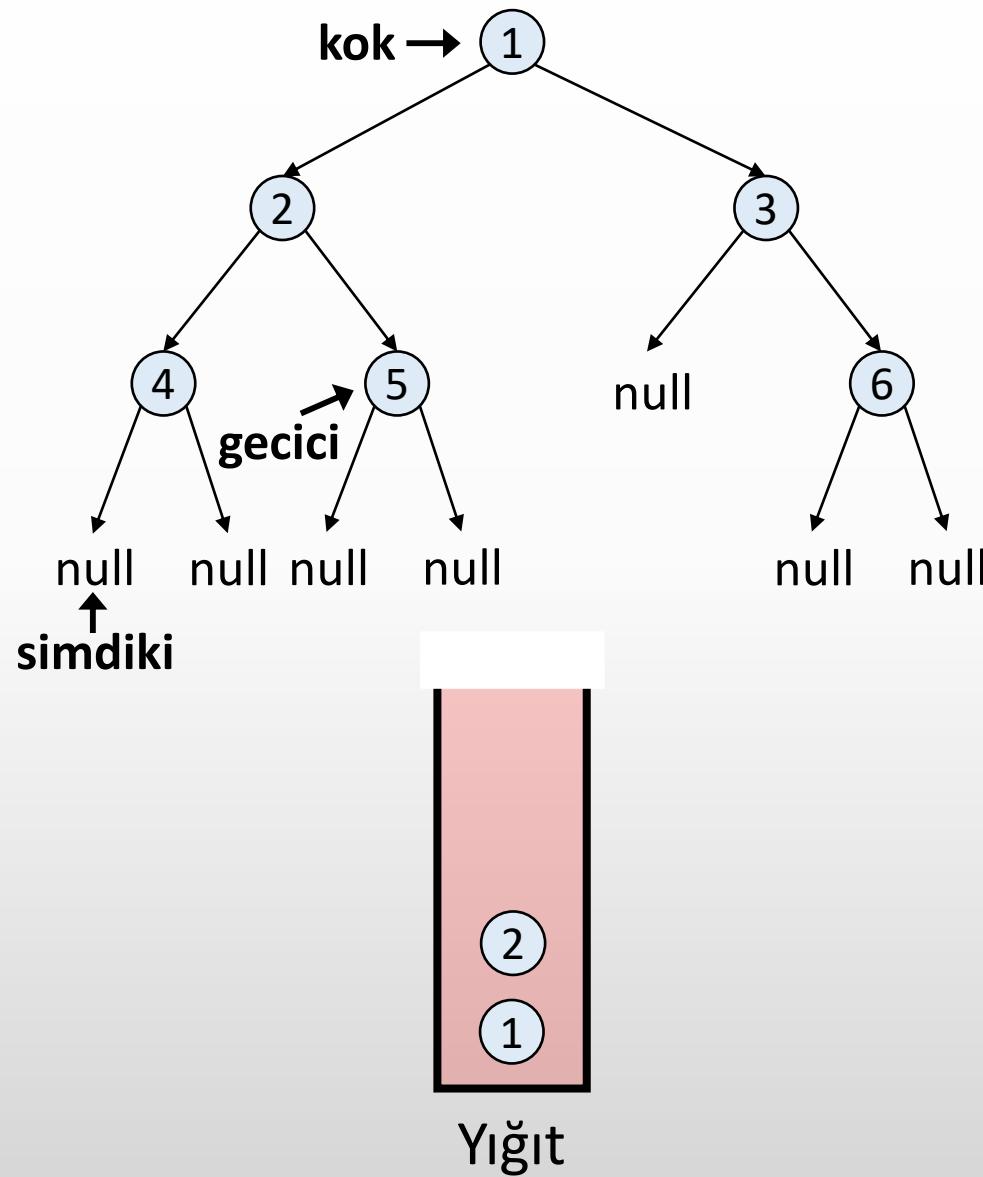
Çıktı: 4

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



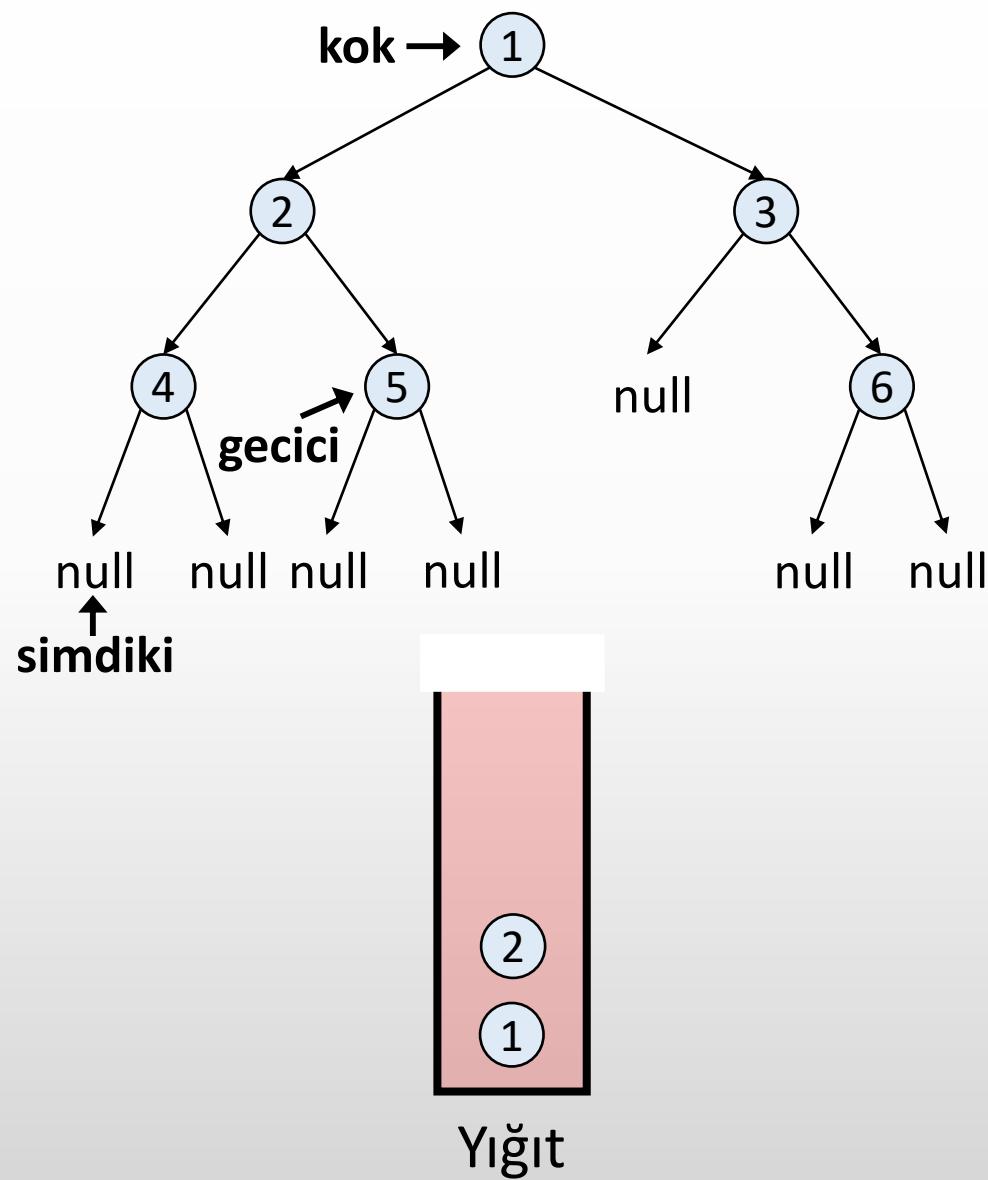
Çıktı: 4

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



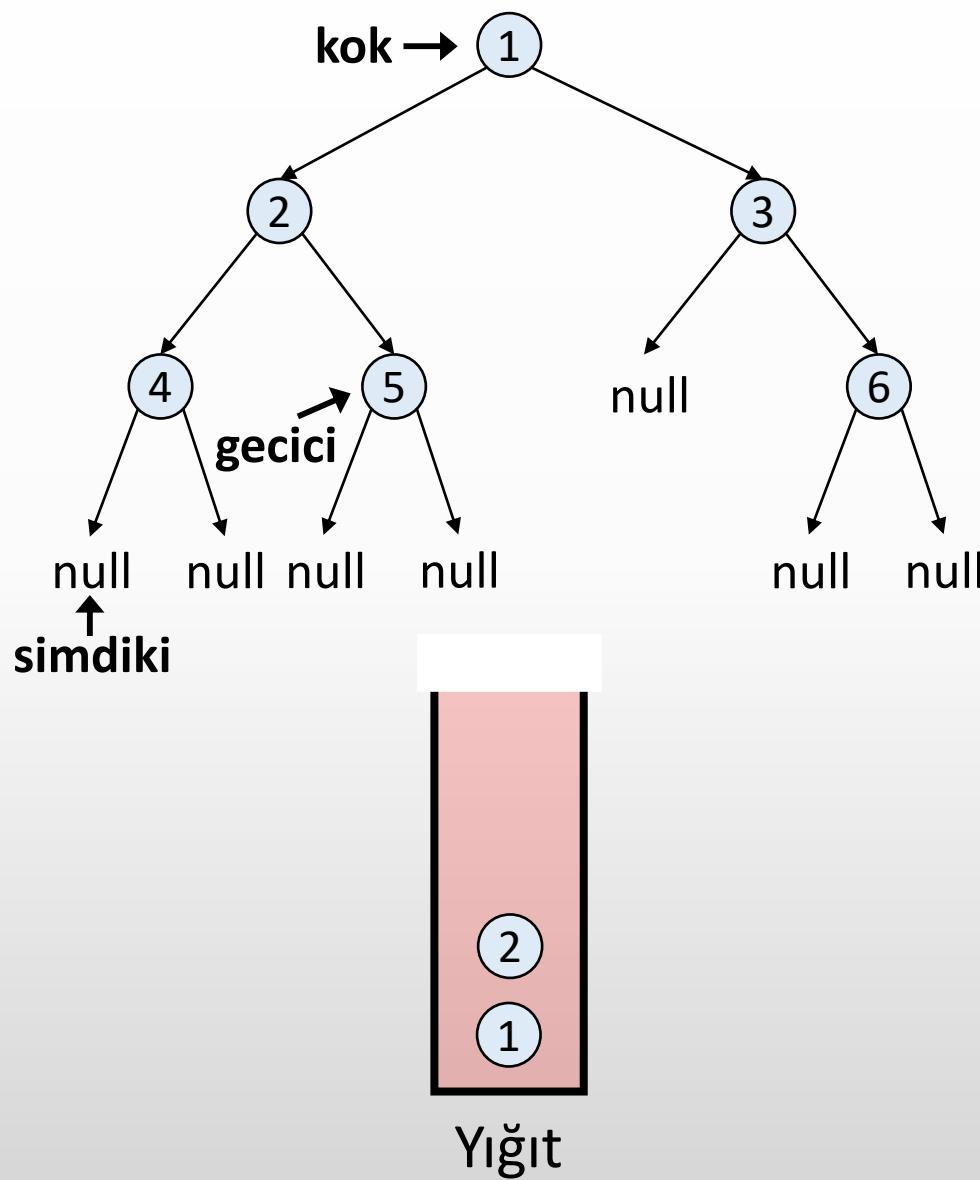
Çıktı: 4

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



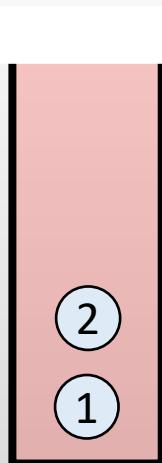
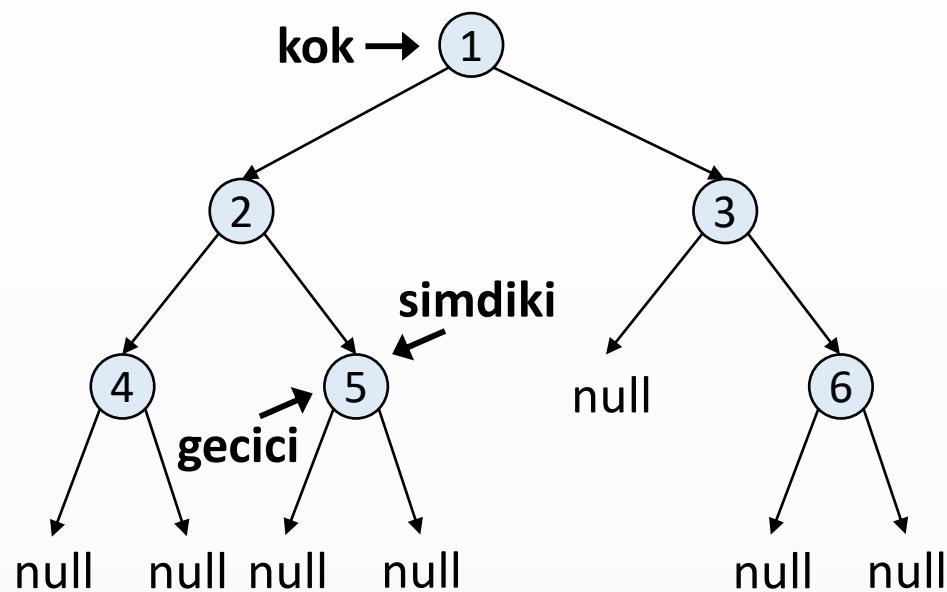
Çıktı: 4

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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;
        }
    }
}
```



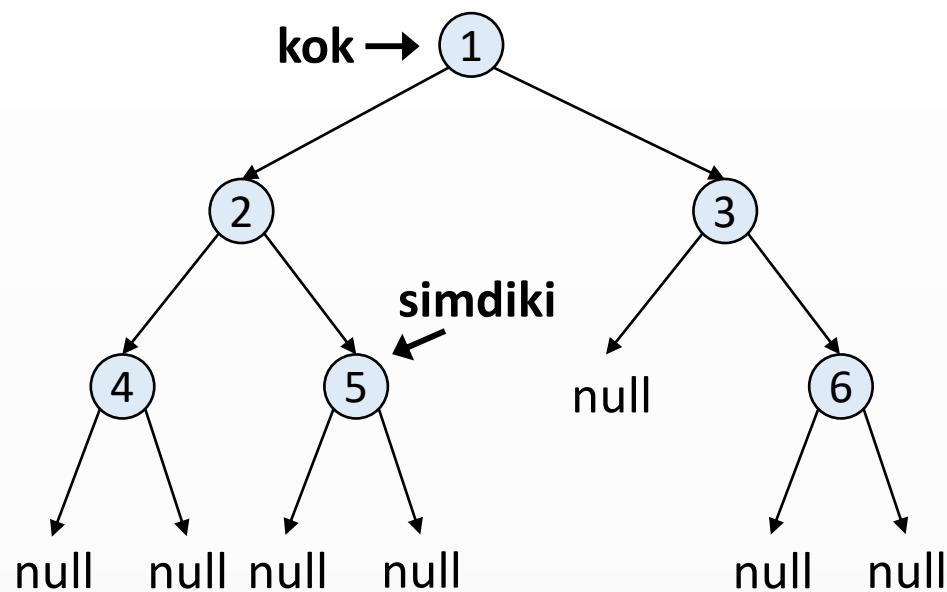
Çıktı: 4

```
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;
        }
    }
}
```



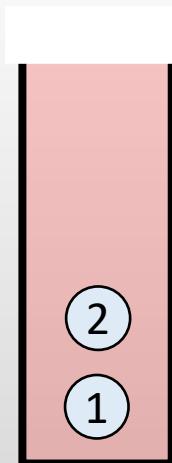
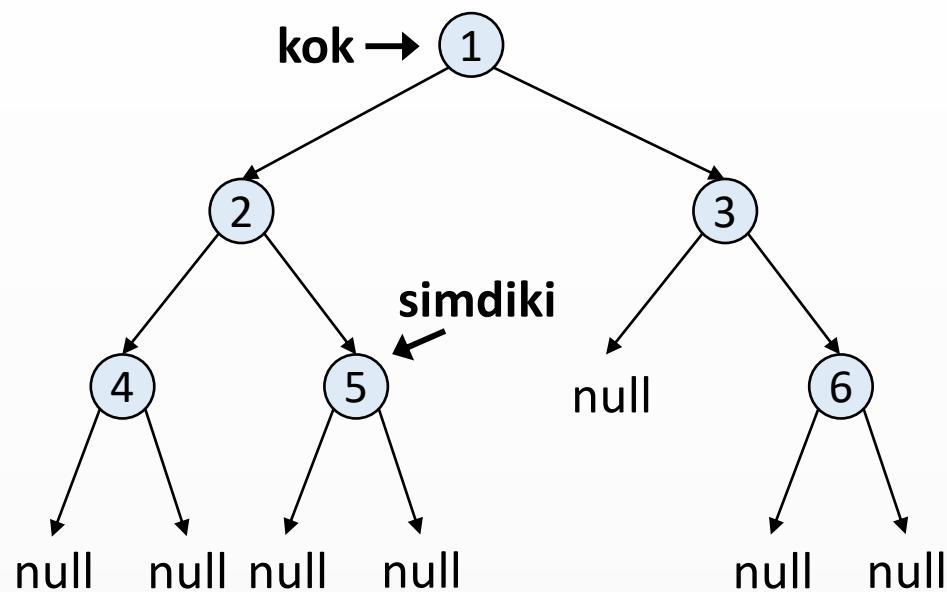
Çıktı: 4

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



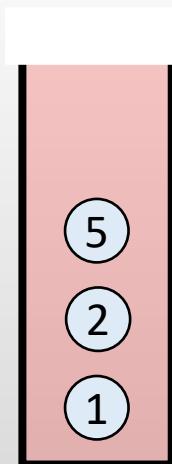
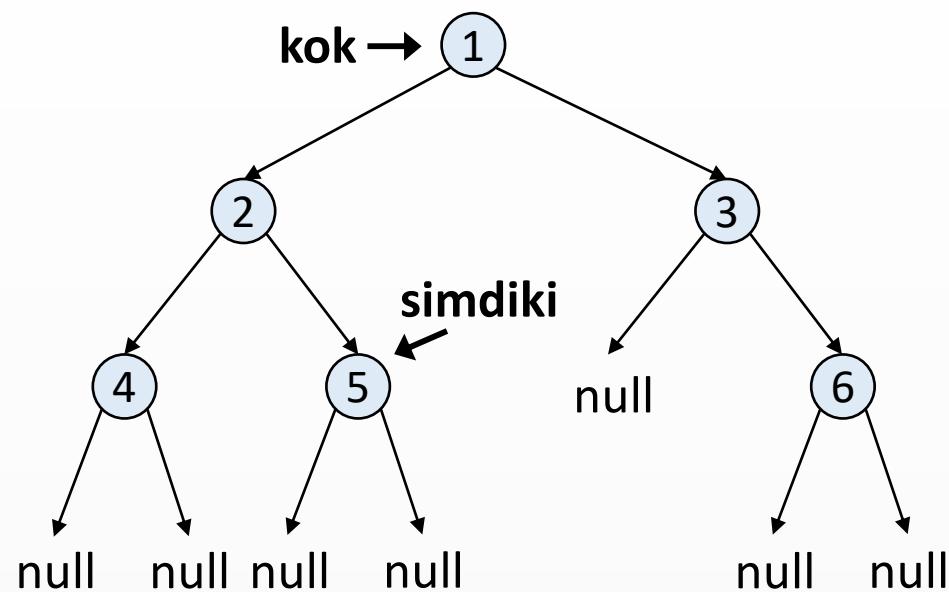
Çıktı: 4

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



**Çıktı: 4**

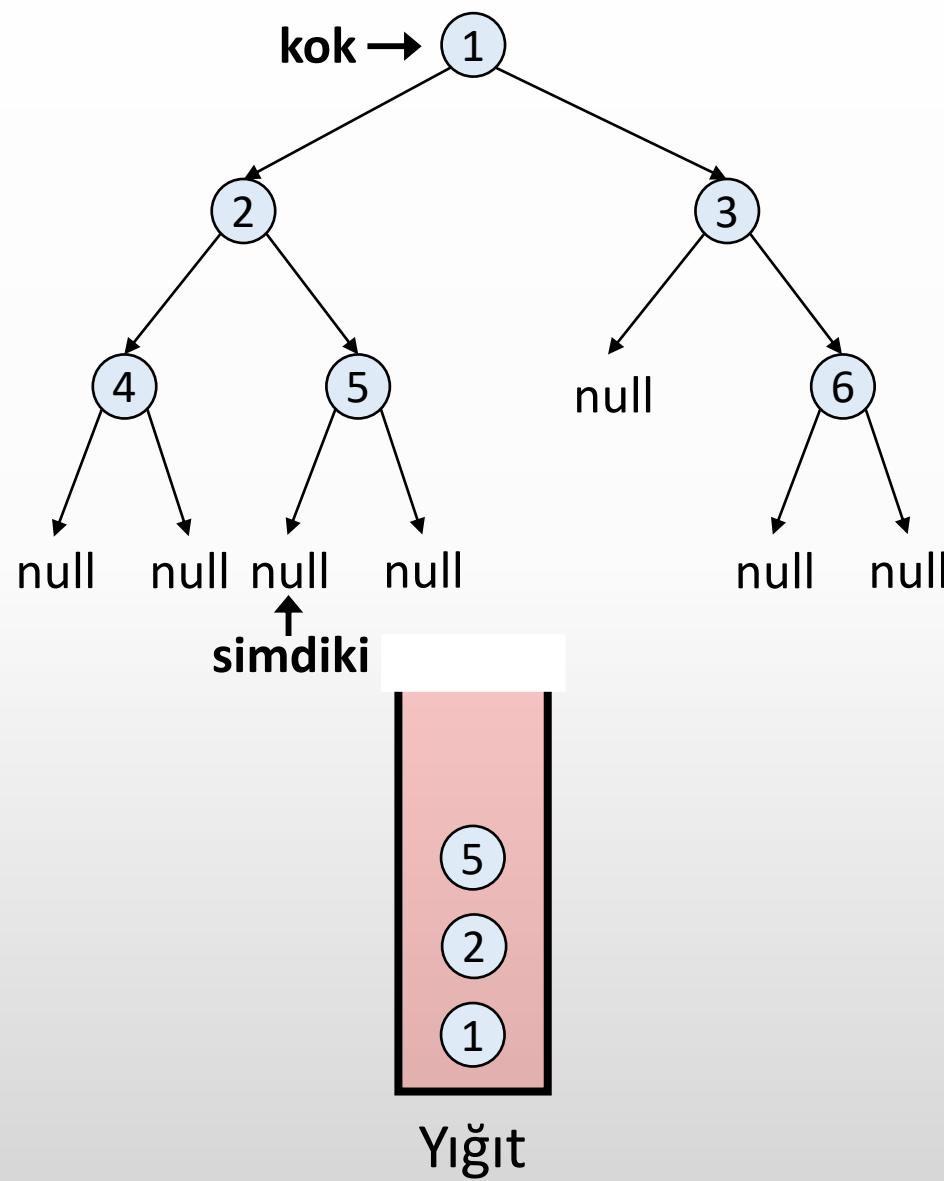
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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                  gecici == yigit.peek().sag)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



Yığıt

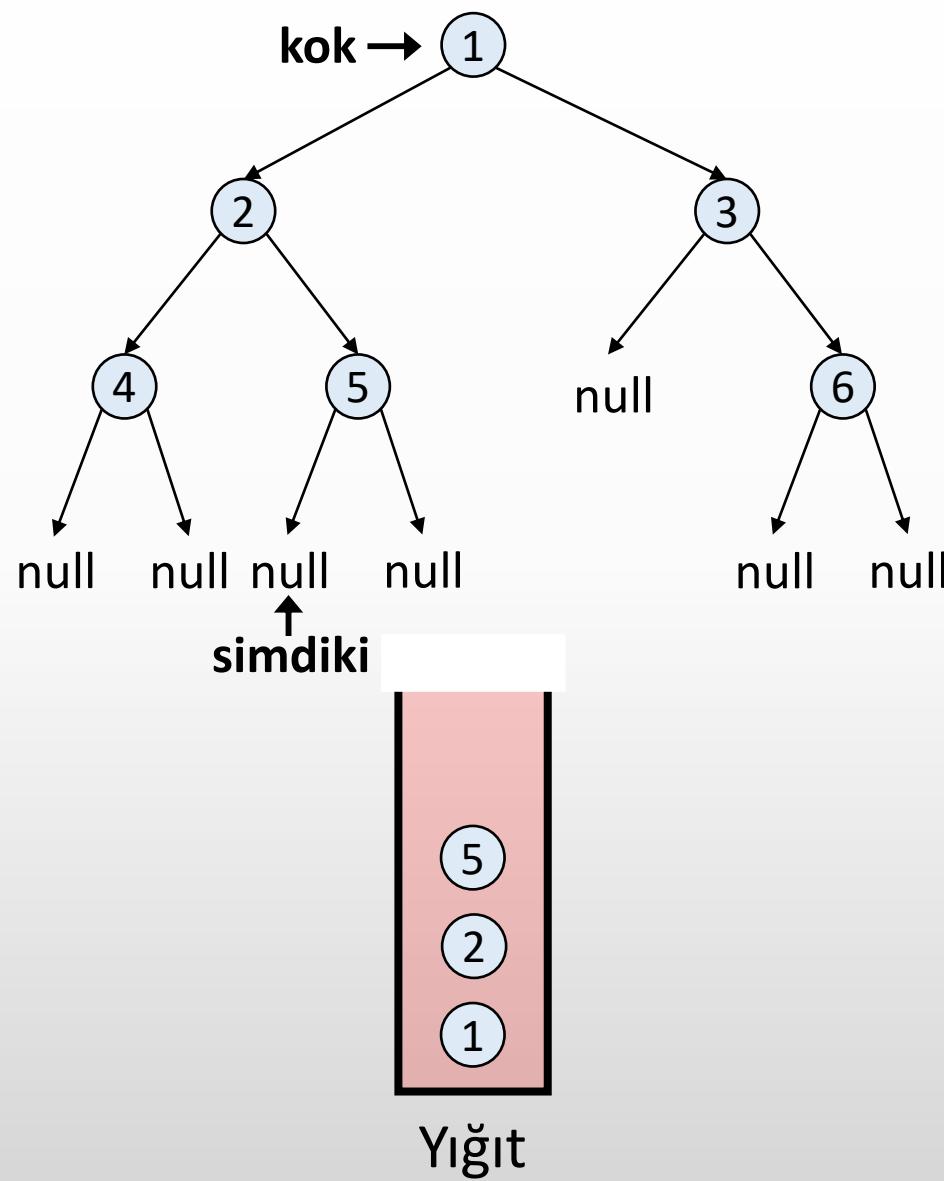
Çıktı: 4

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



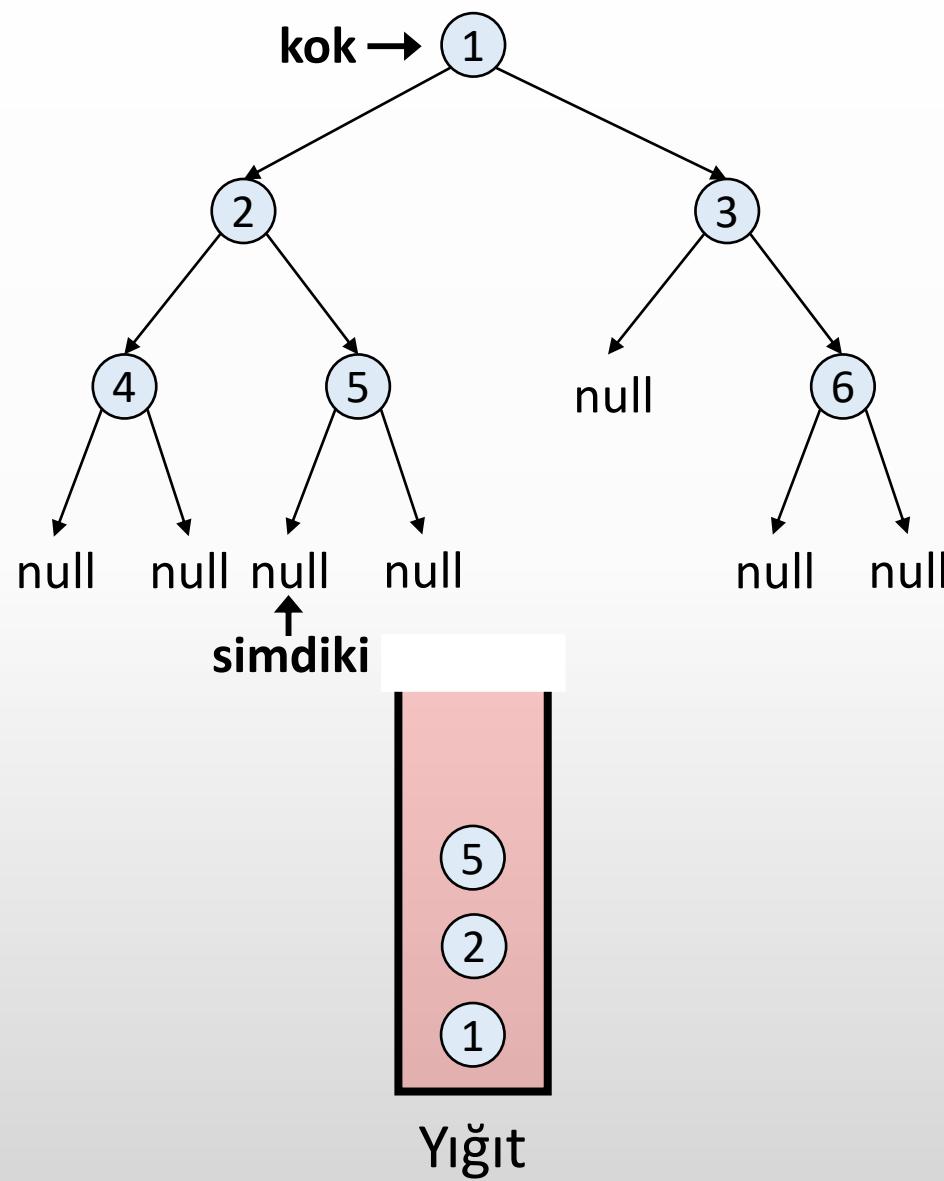
Çıktı: 4

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



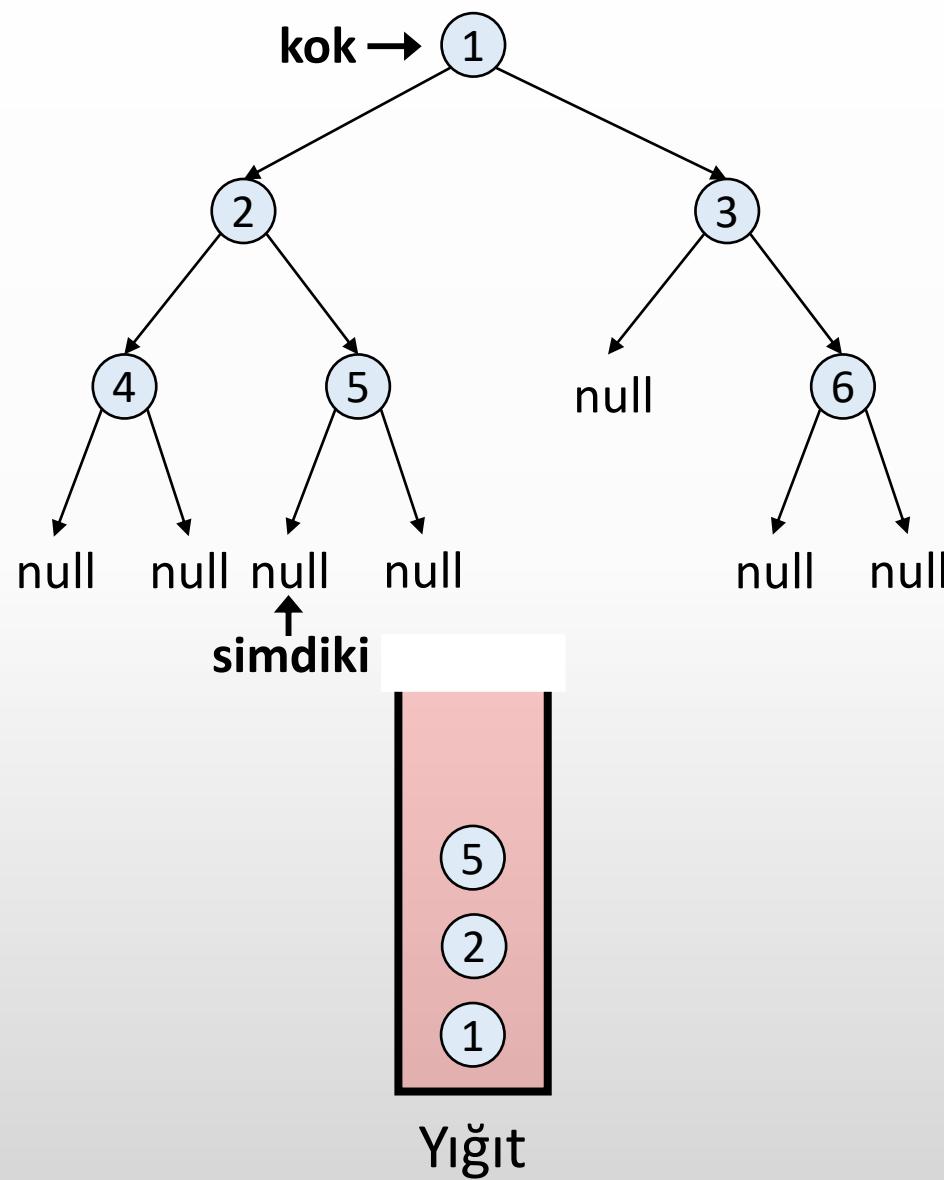
Çıktı: 4

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



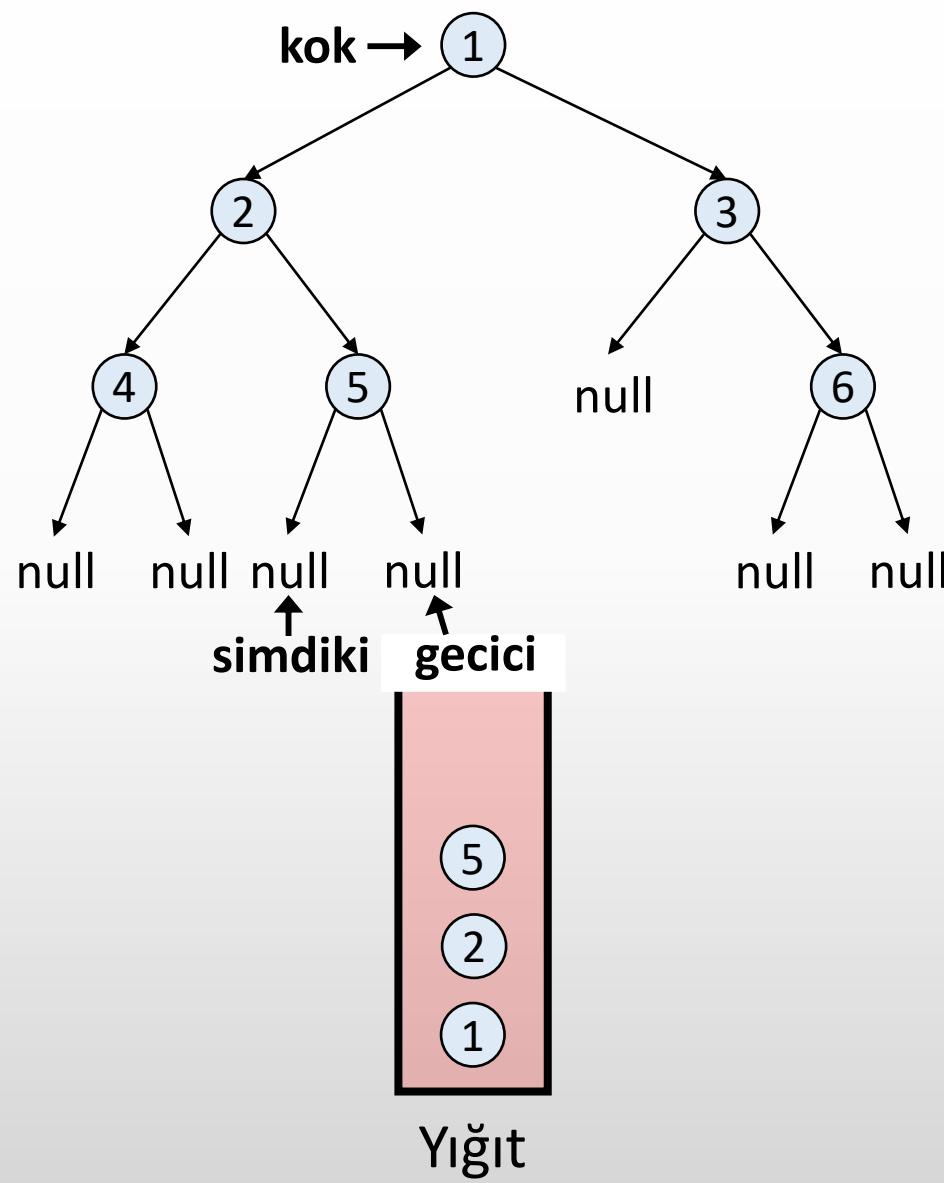
Çıktı: 4

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



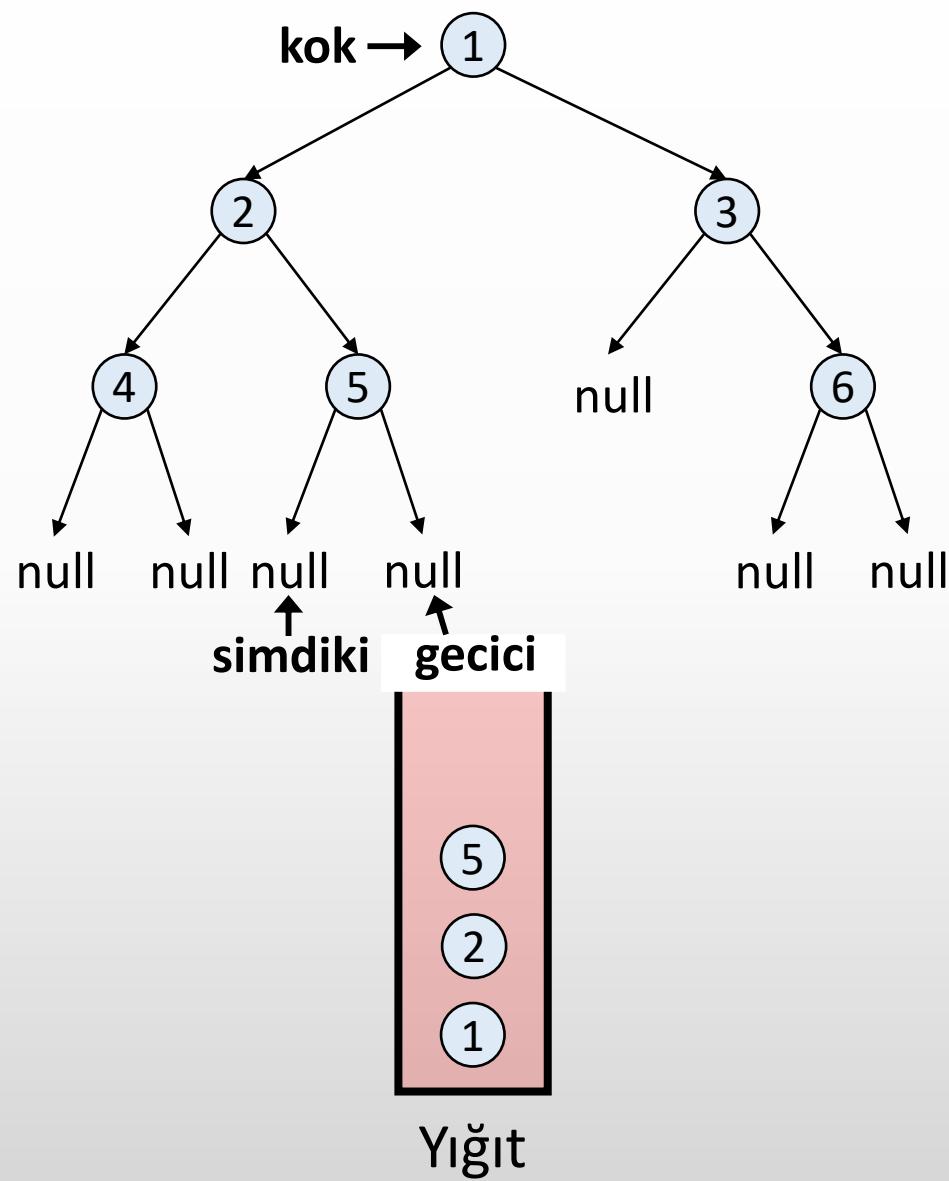
Çıktı: 4

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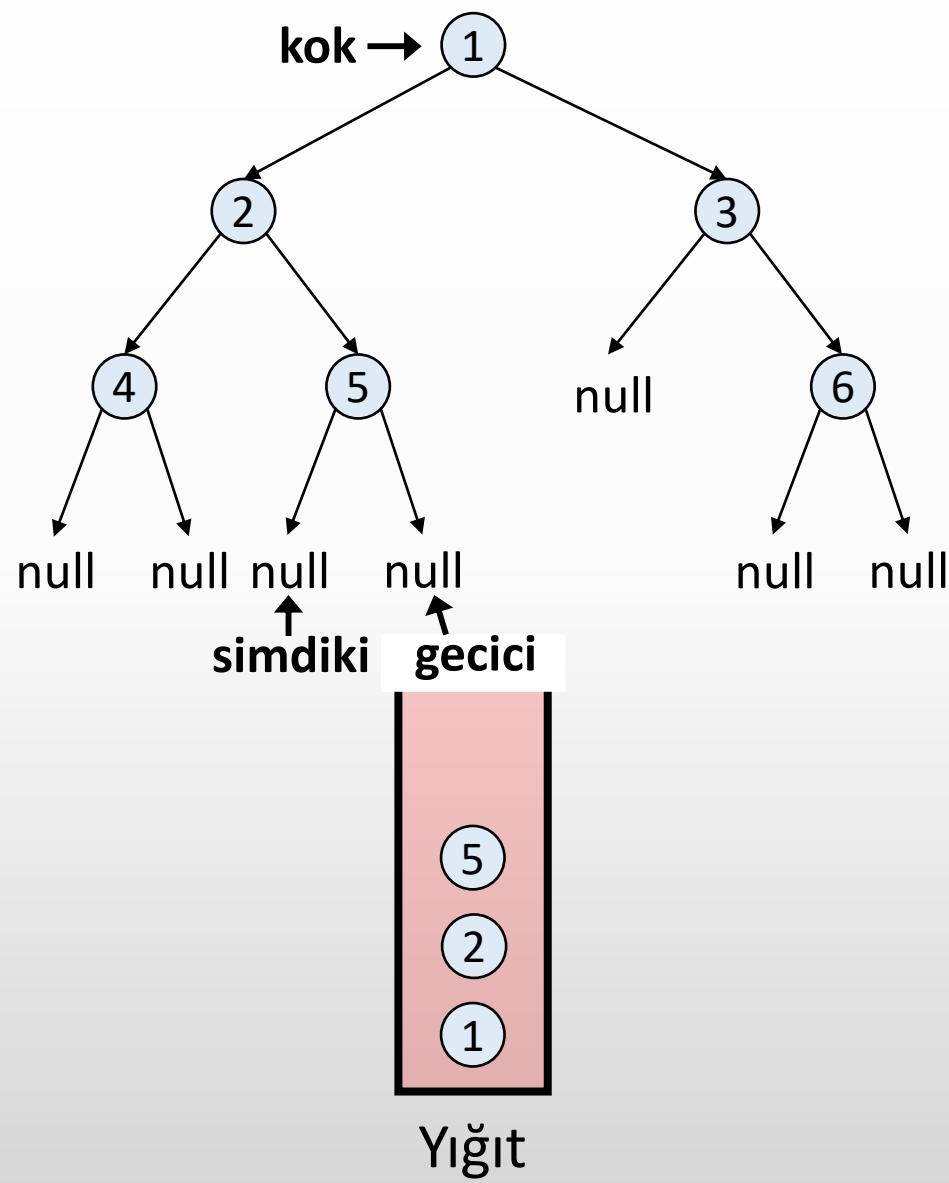
Çıktı: 4

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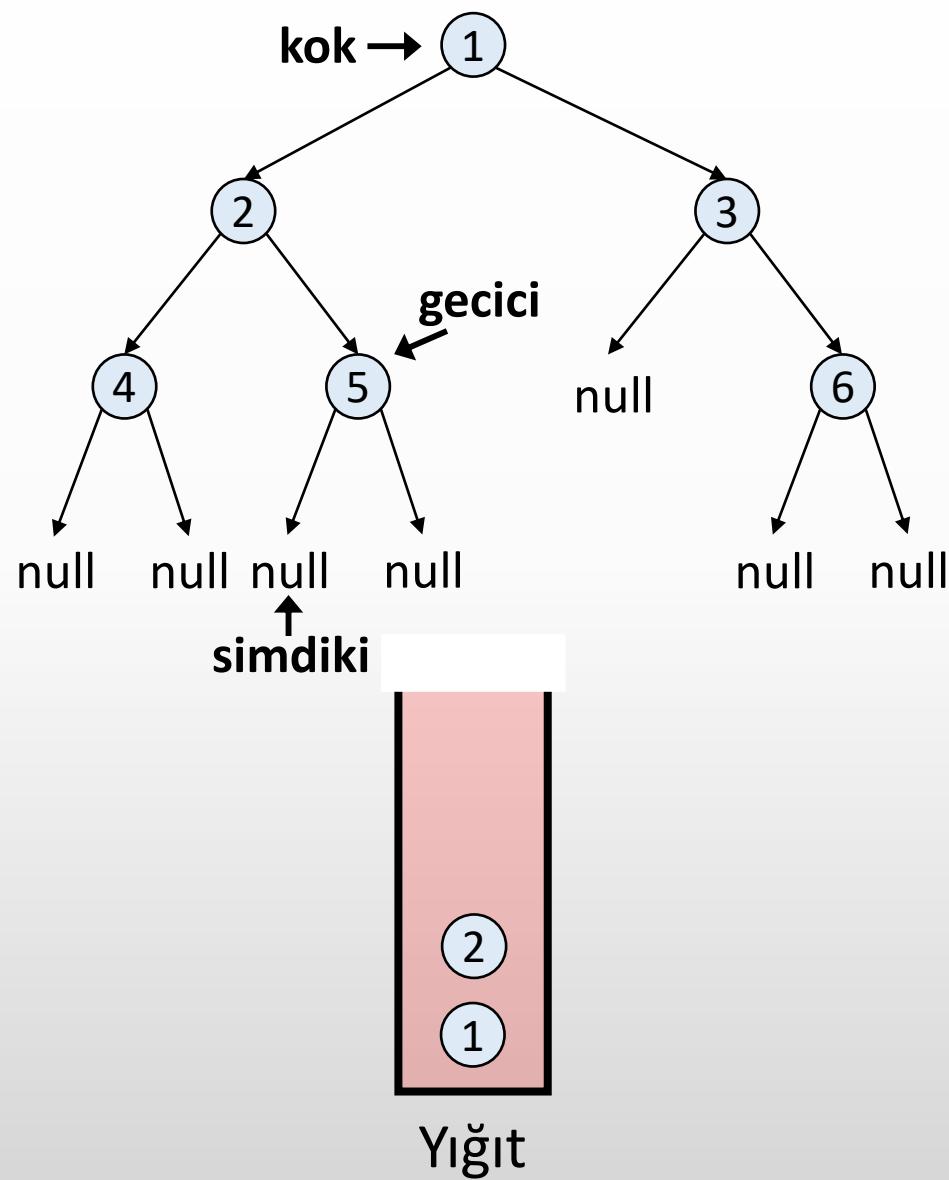
Çıktı: 4

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



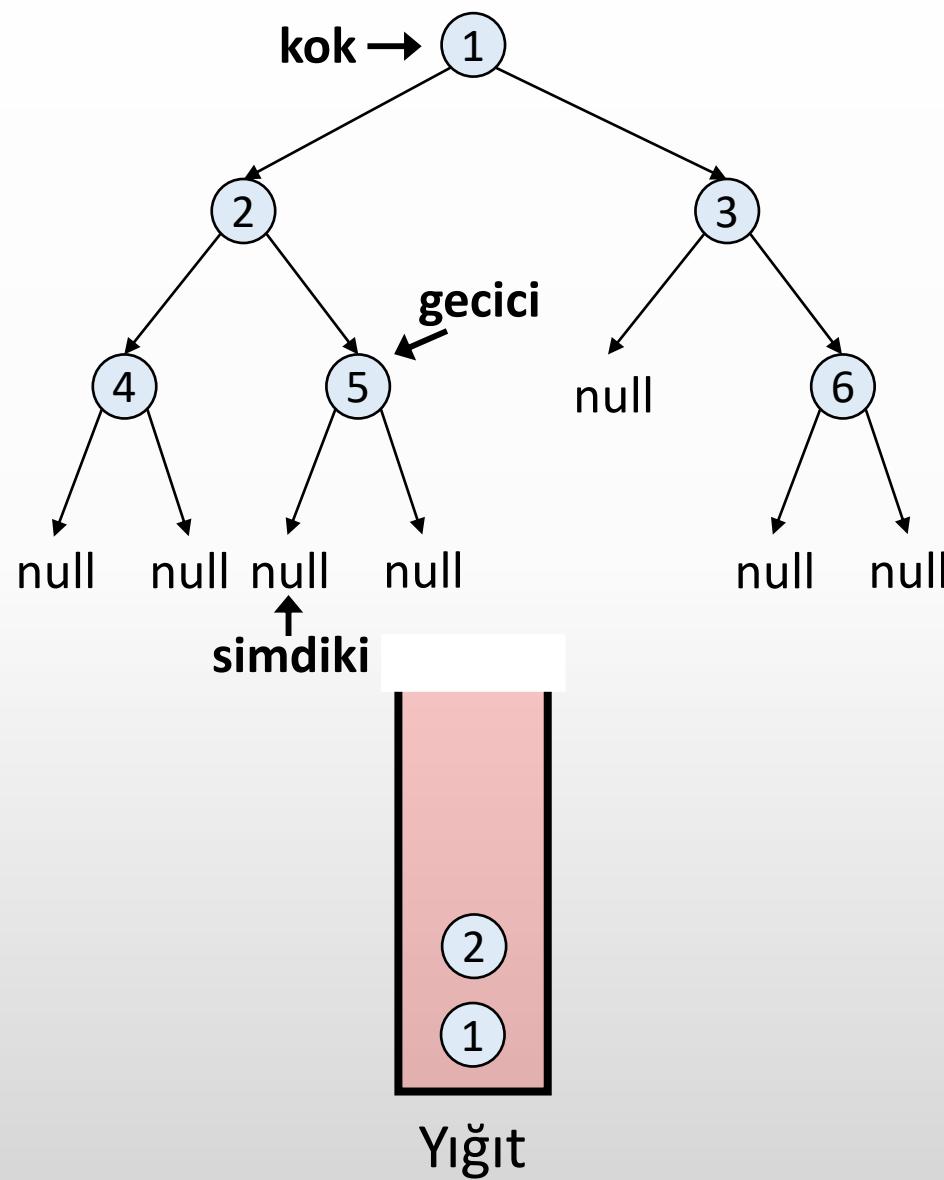
Çıktı: 4

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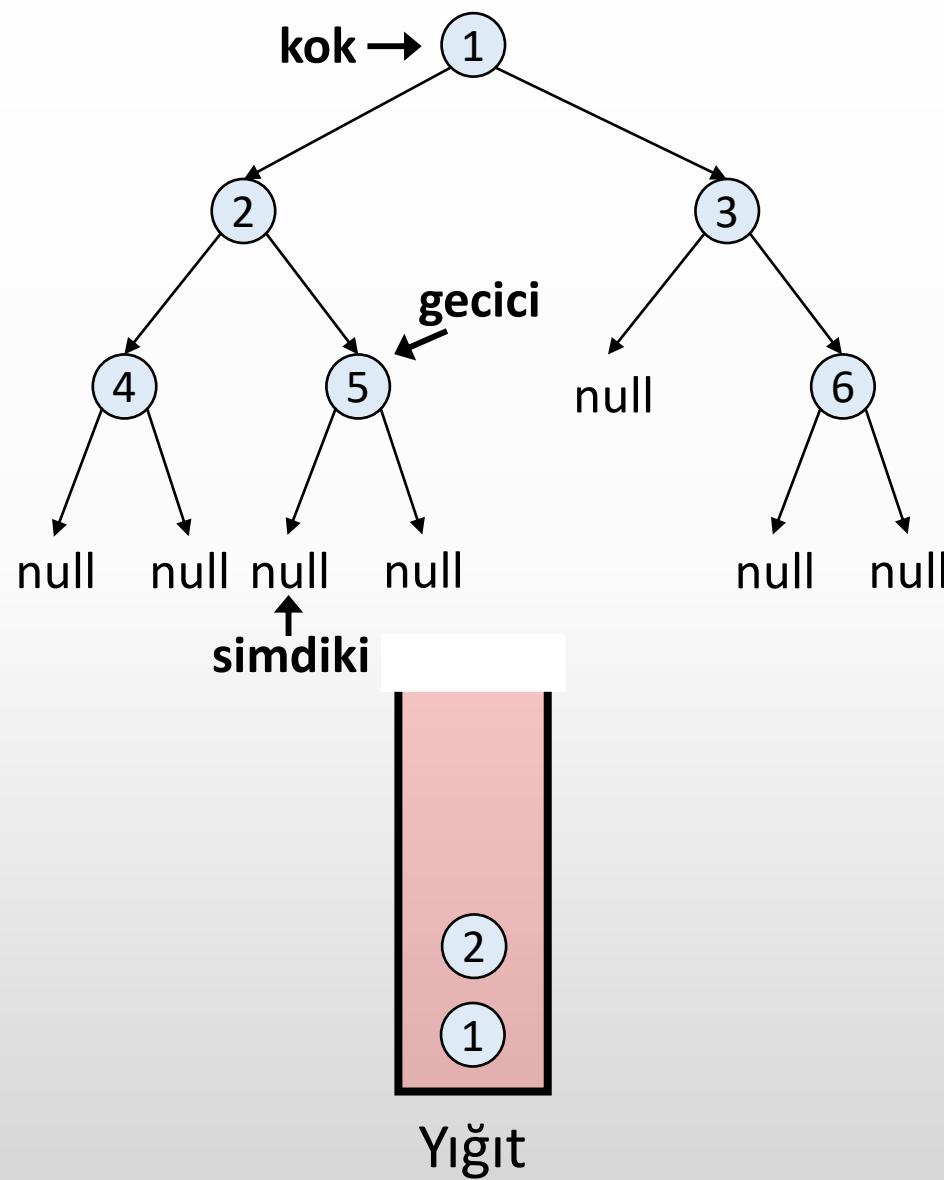
Çıktı: 4

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AgacDugumu simdiki = kok;
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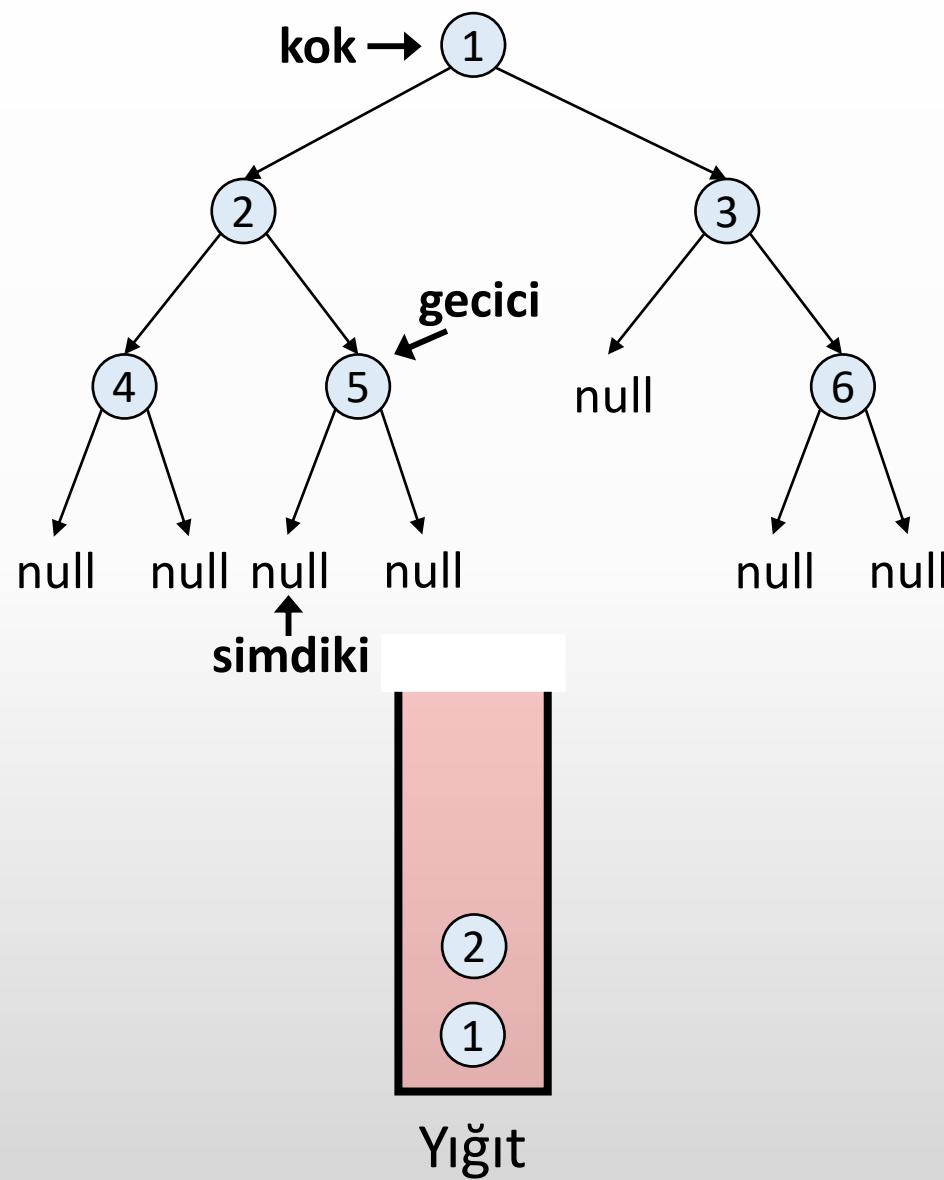
Çıktı: 4 5

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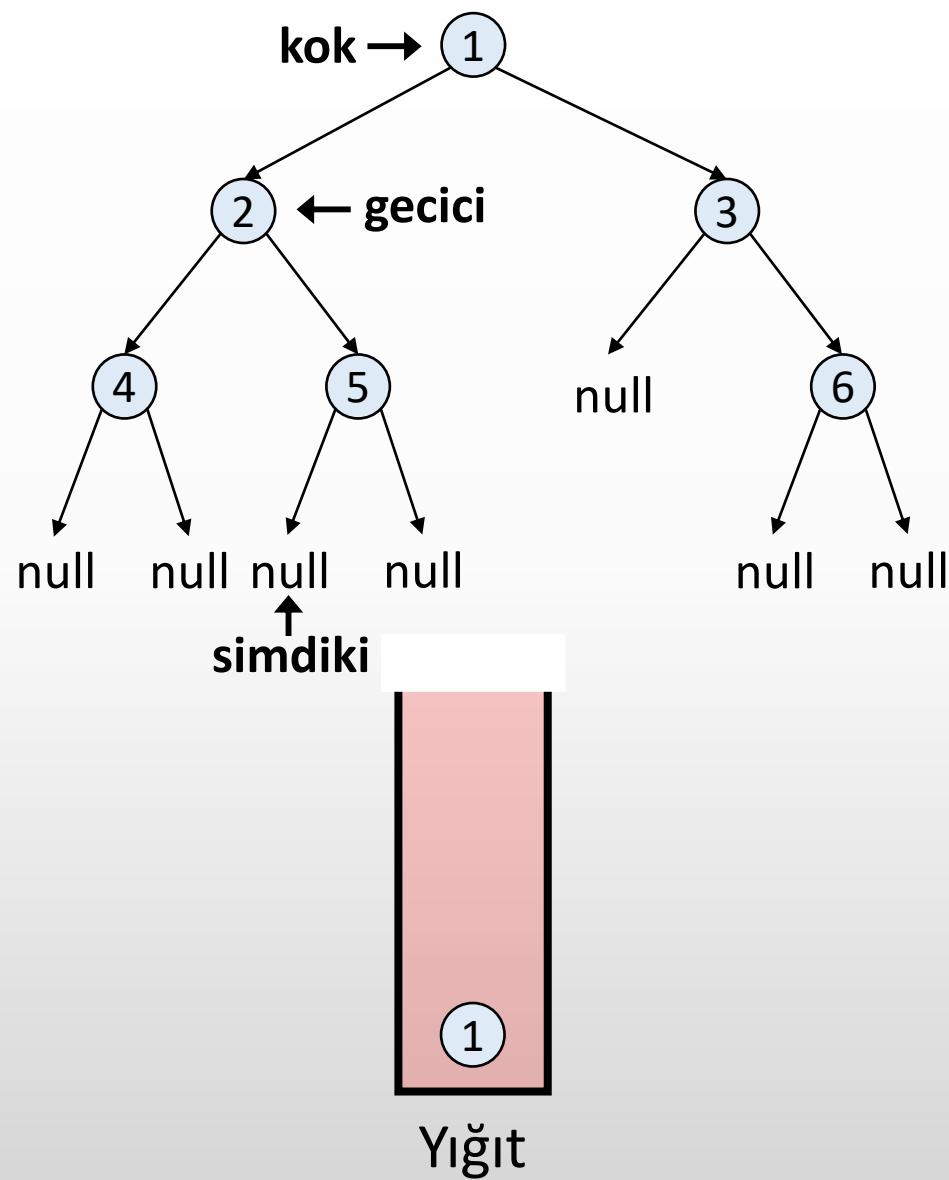
Çıktı: 4 5

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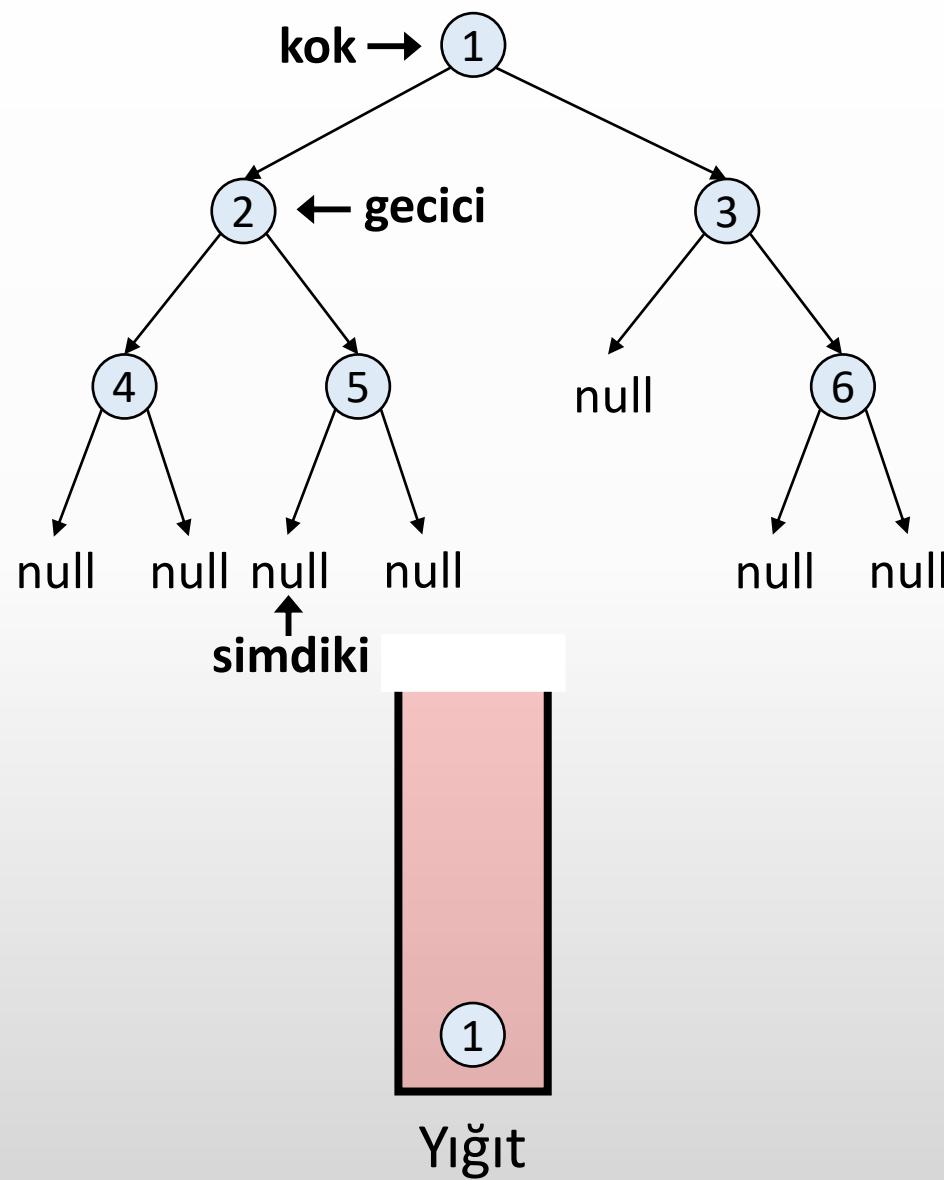
Çıktı: 4 5

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        }
    }
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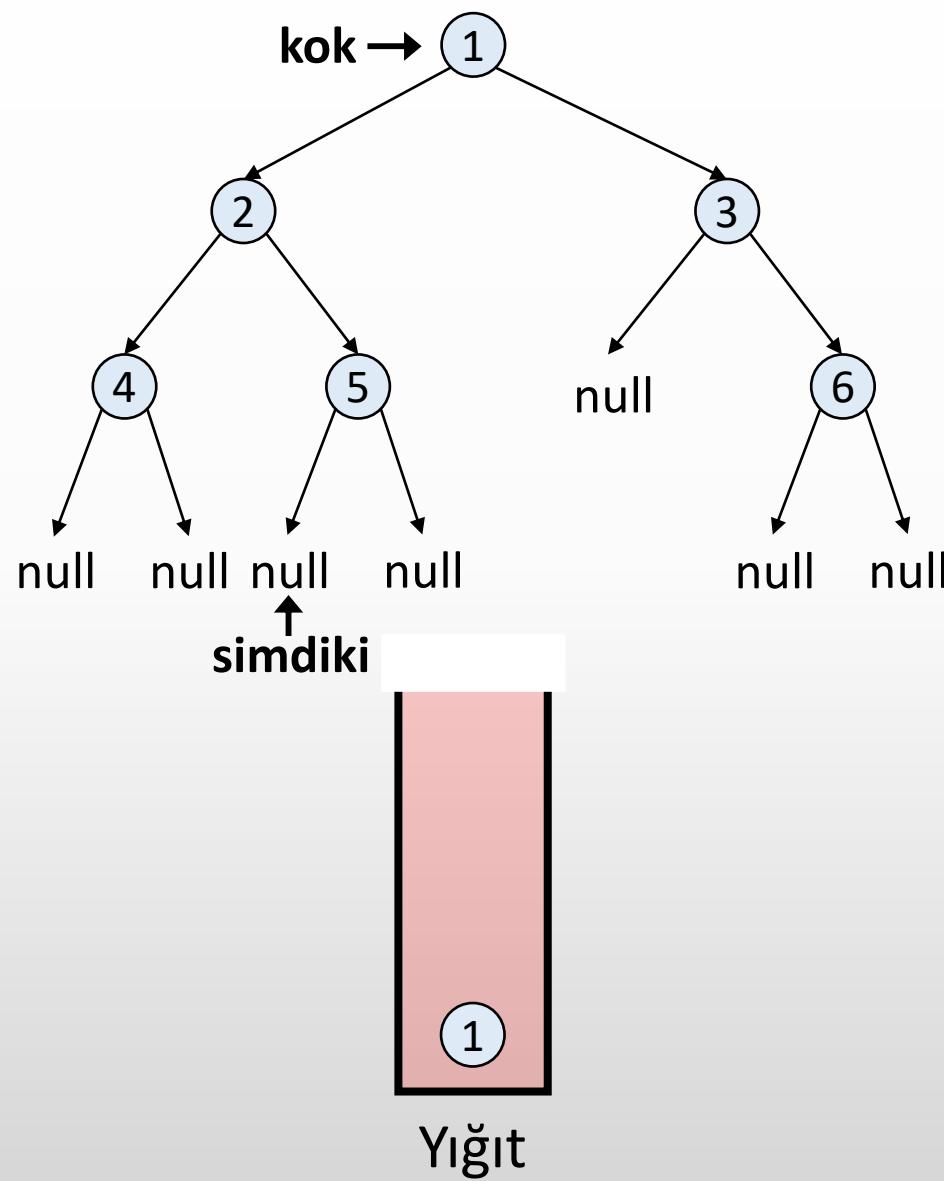
Çıktı: 4 5

```
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}
```



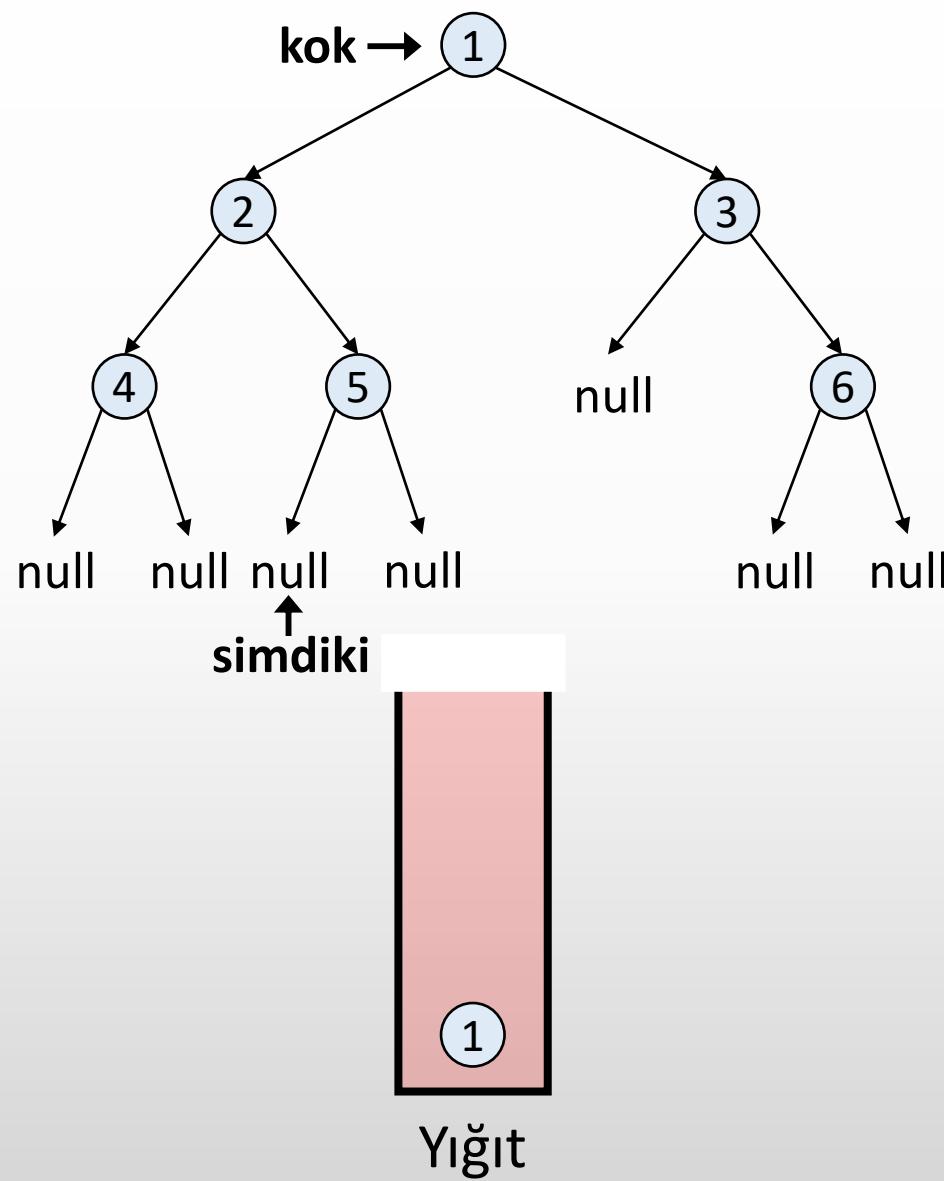
Çıktı: 4 5 2

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



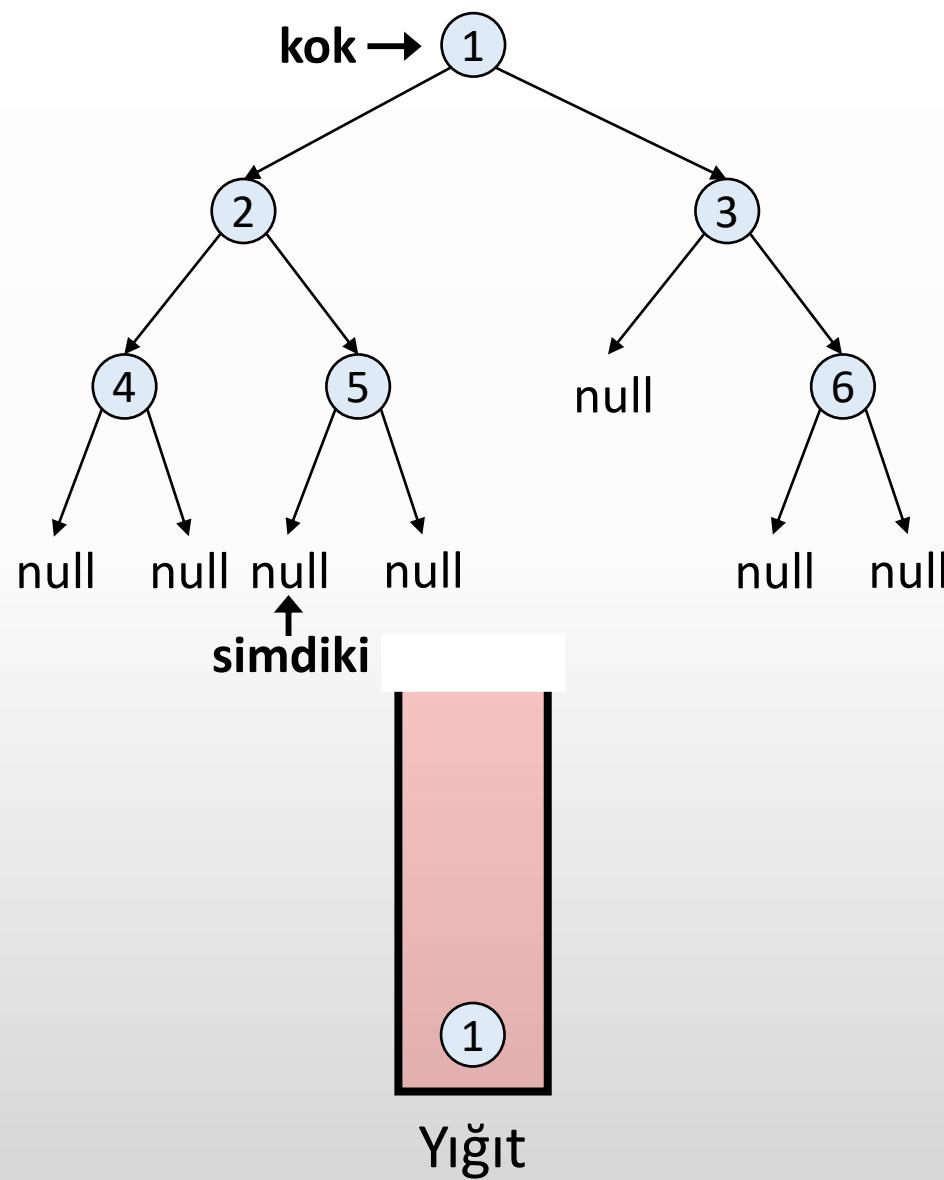
**Çıktı: 4 5 2**

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



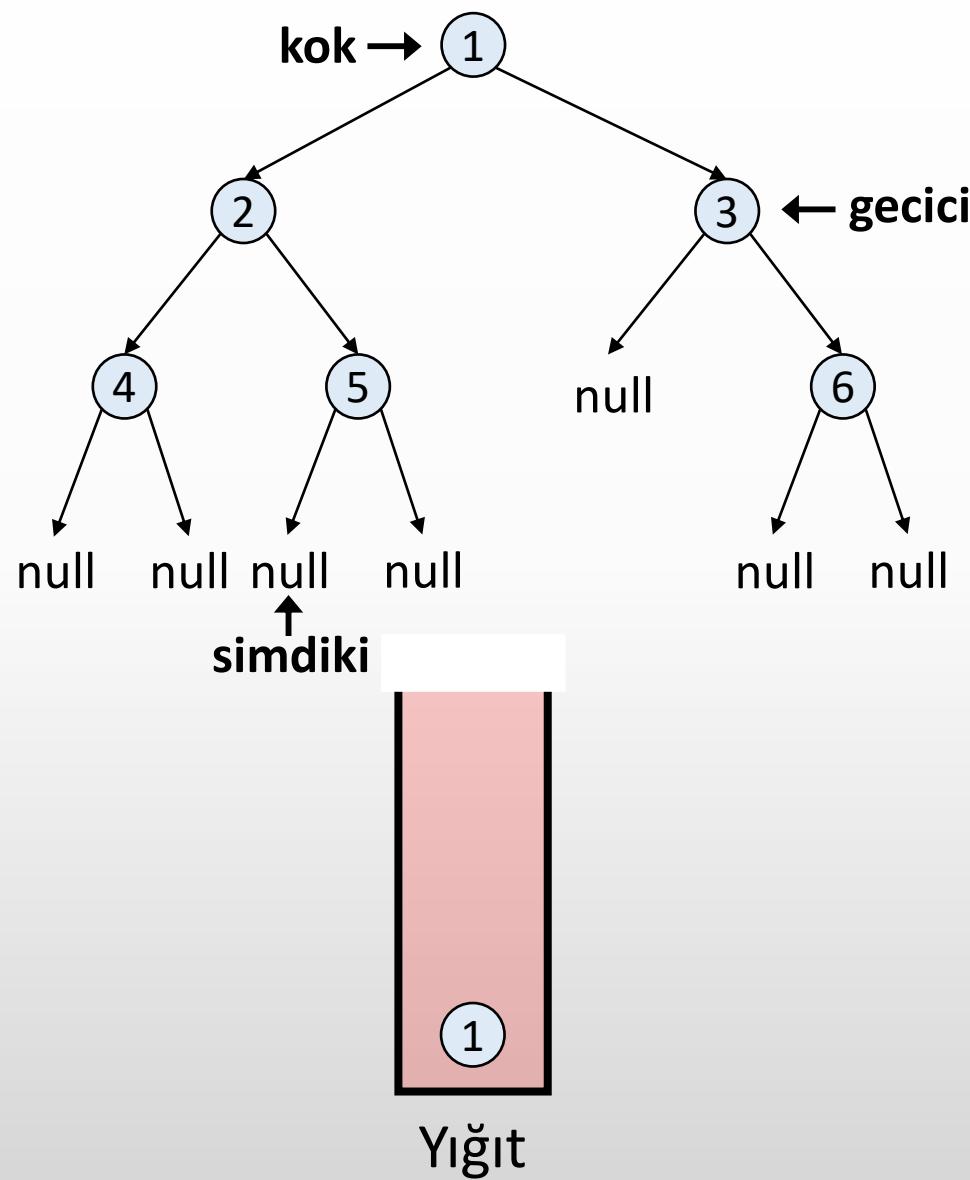
Çıktı: 4 5 2

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



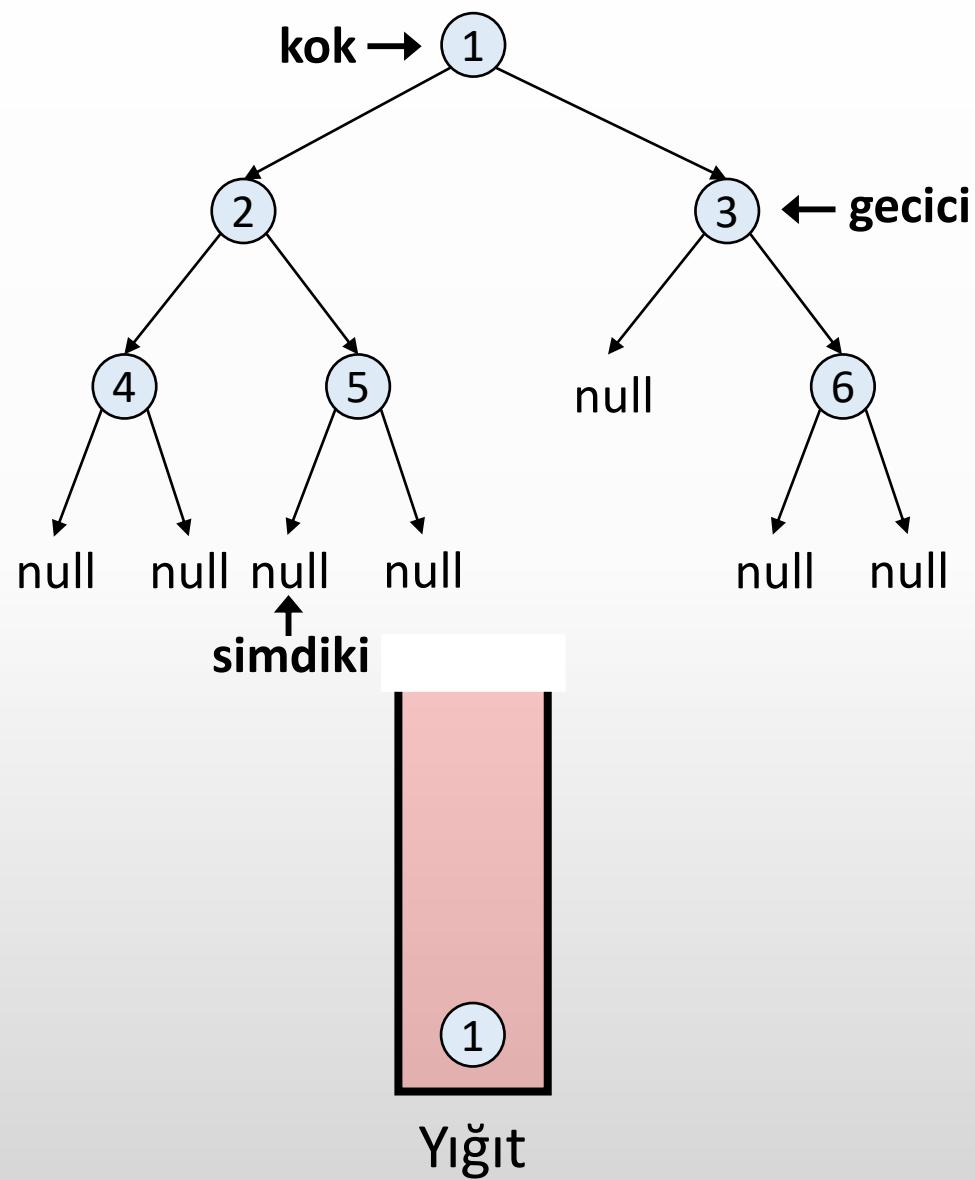
**Çıktı: 4 5 2**

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



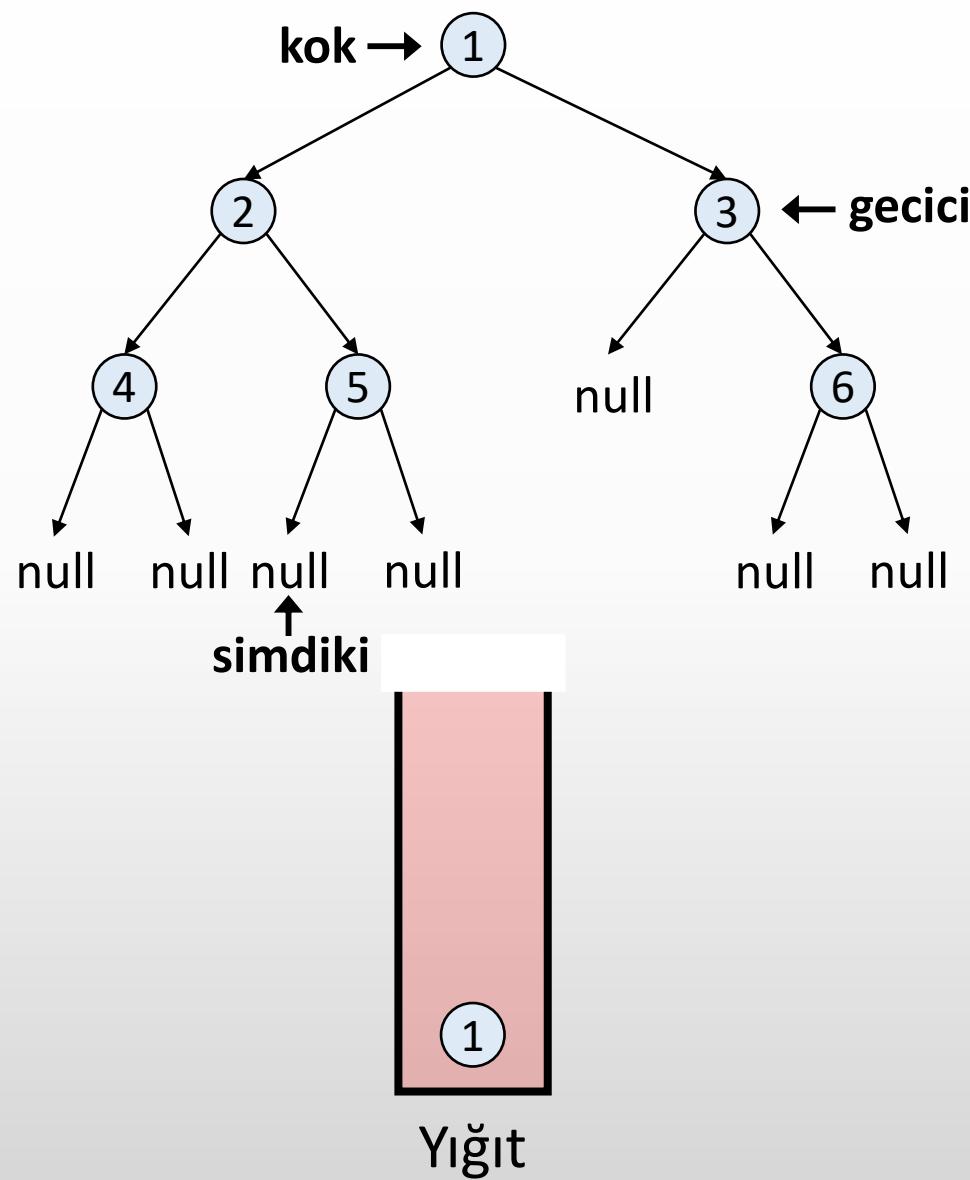
**Çıktı: 4 5 2**

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



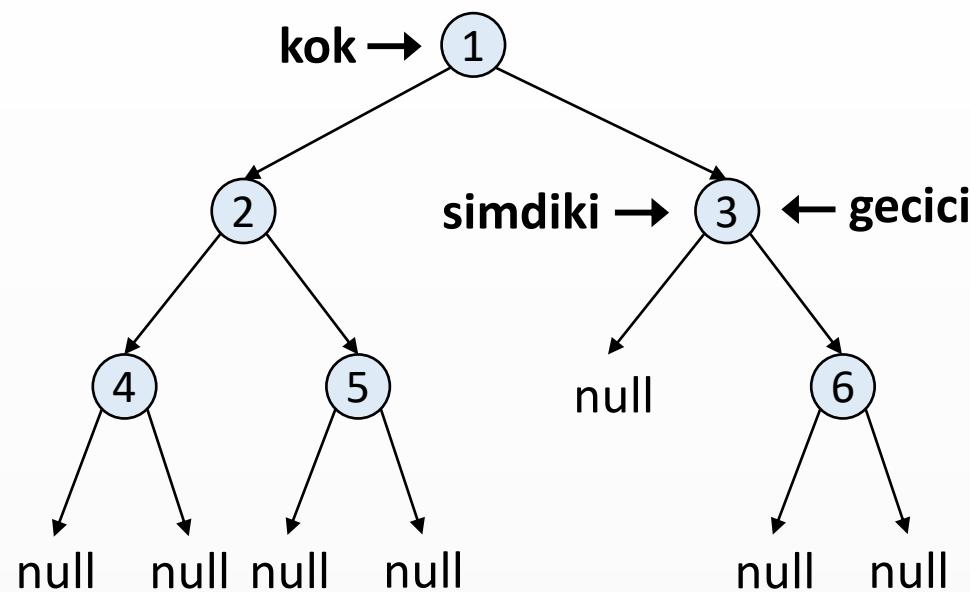
Çıktı: 4 5 2

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



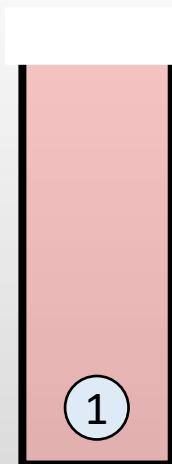
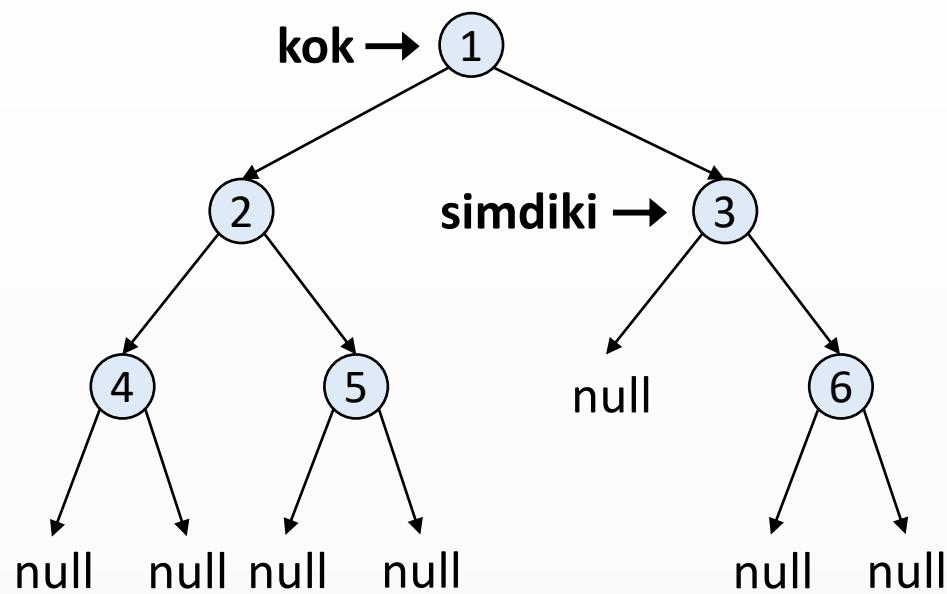
**Çıktı: 4 5 2**

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



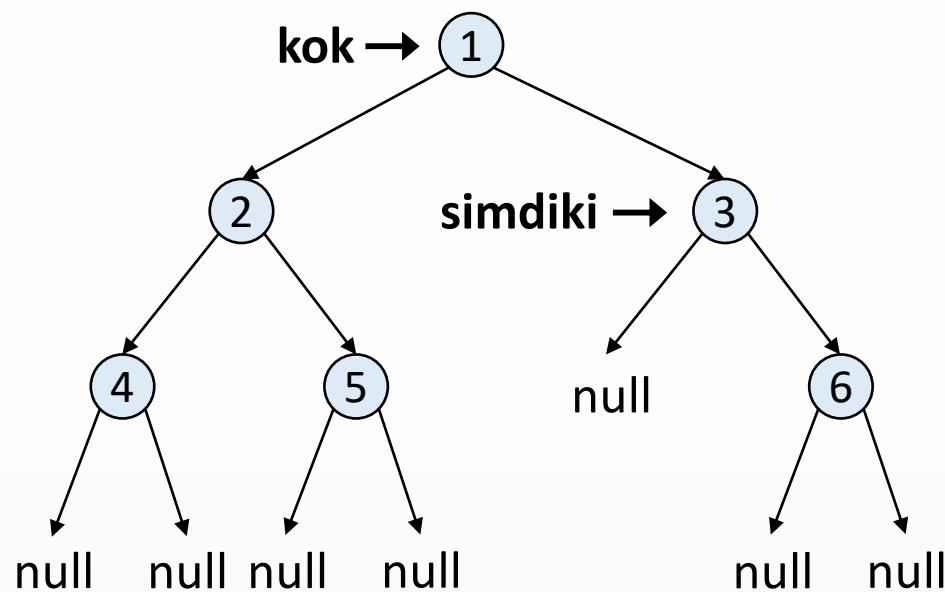
Çıktı: 4 5 2

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



**Çıktı: 4 5 2**

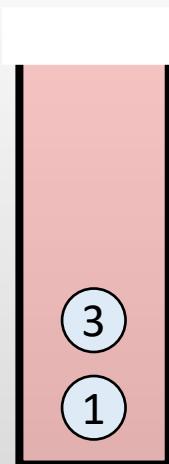
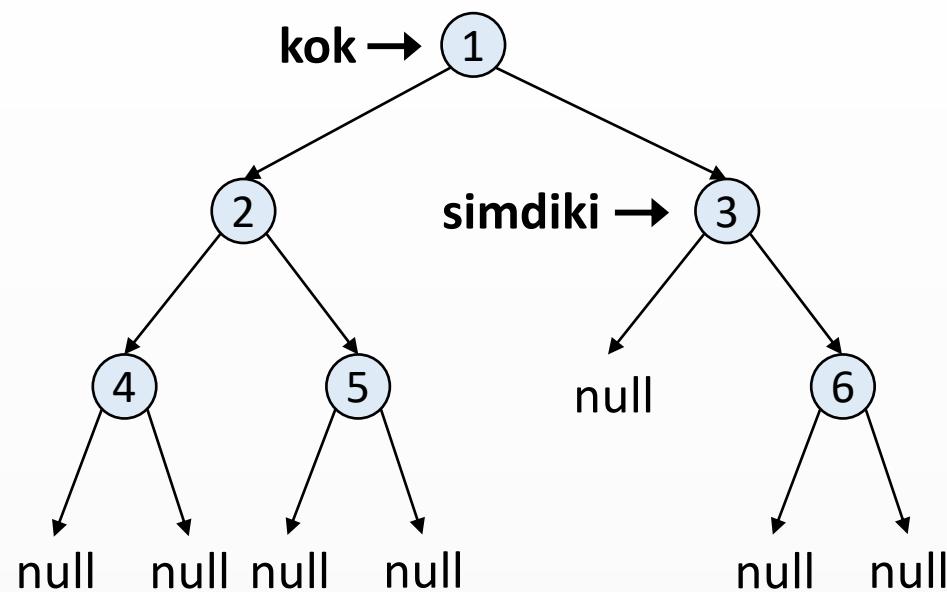
```
AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
→ while(simdiki != null || !yigit.isEmpty()) {
    if(simdiki != null) {
        yigit.push(simdiki);
        simdiki = simdiki.sol;
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        AgacDugumu gecici = yigit.peek().sag;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



Yığıt

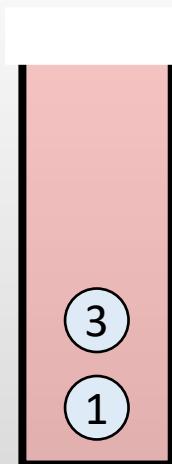
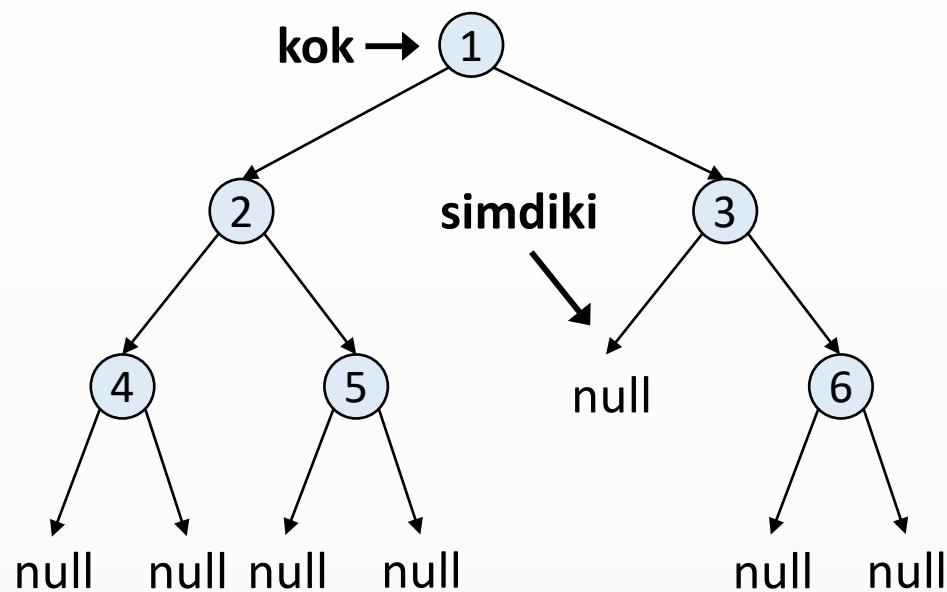
Çıktı: 4 5 2

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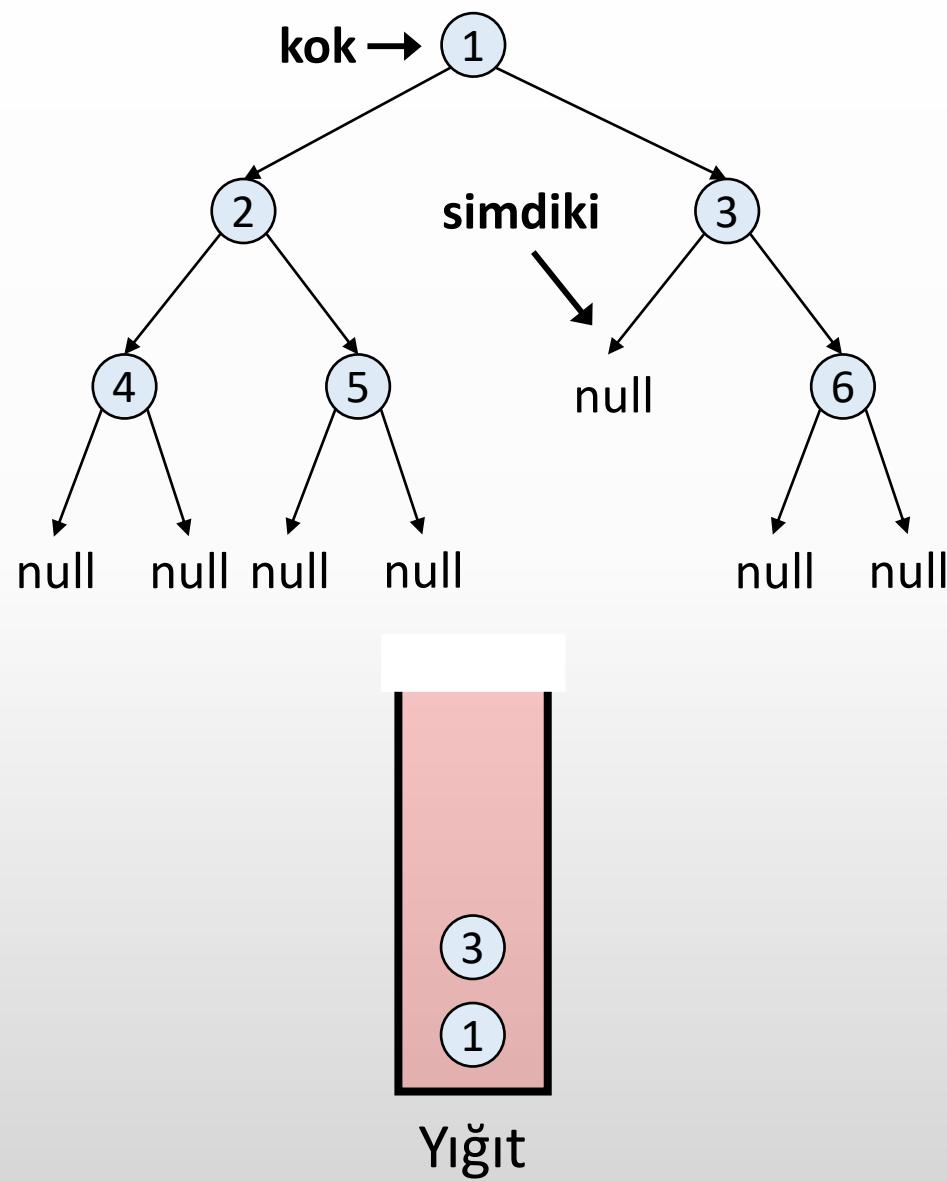
**Çıktı: 4 5 2**

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



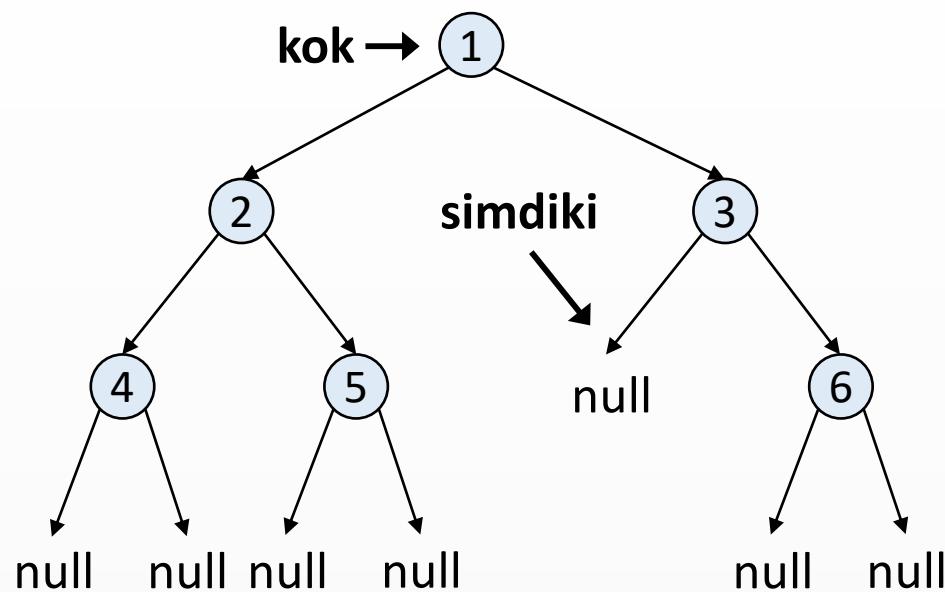
**Çıktı: 4 5 2**

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AgacDugumu simdiki = kok;
Stack<AgacDugumu> yigit = new Stack<>();
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        AgacDugumu gecici = yigit.peek().sag;
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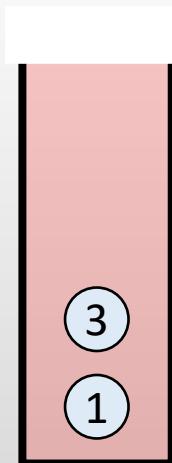
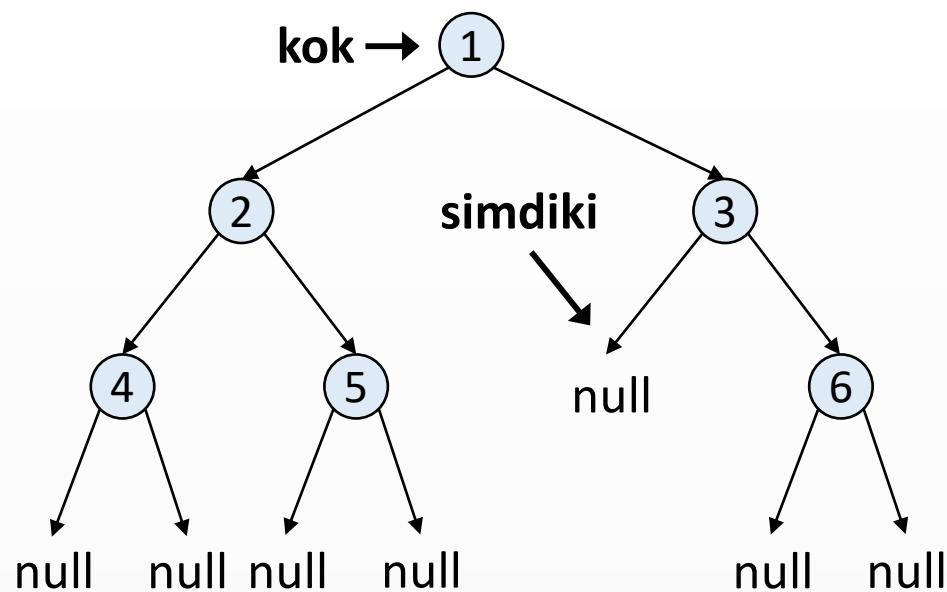
**Çıktı: 4 5 2**

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

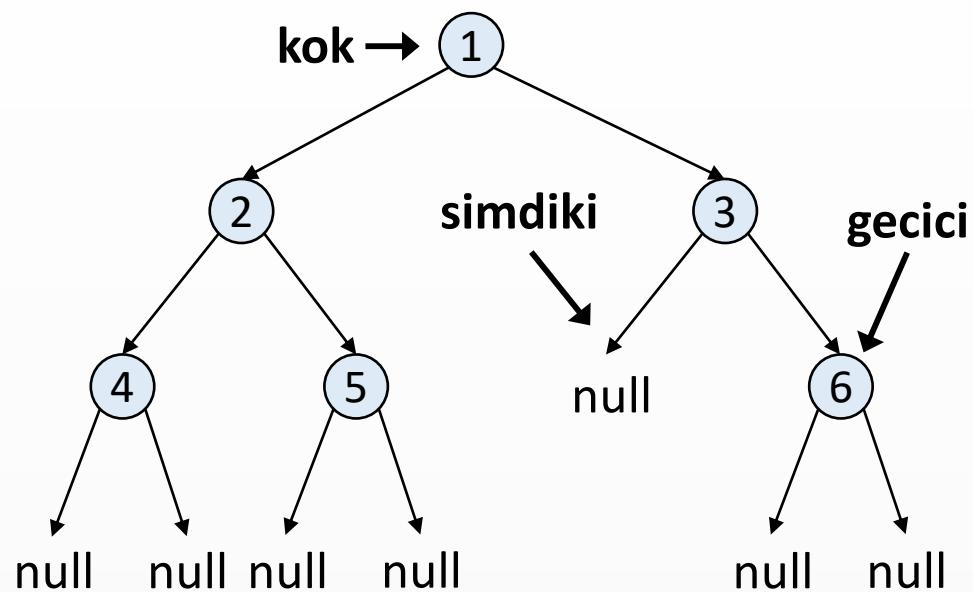
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AgacDugumu simdiki = kok;  
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Yığıt

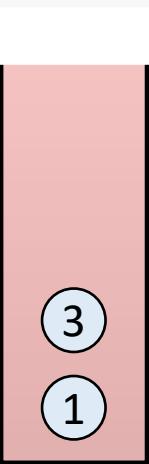
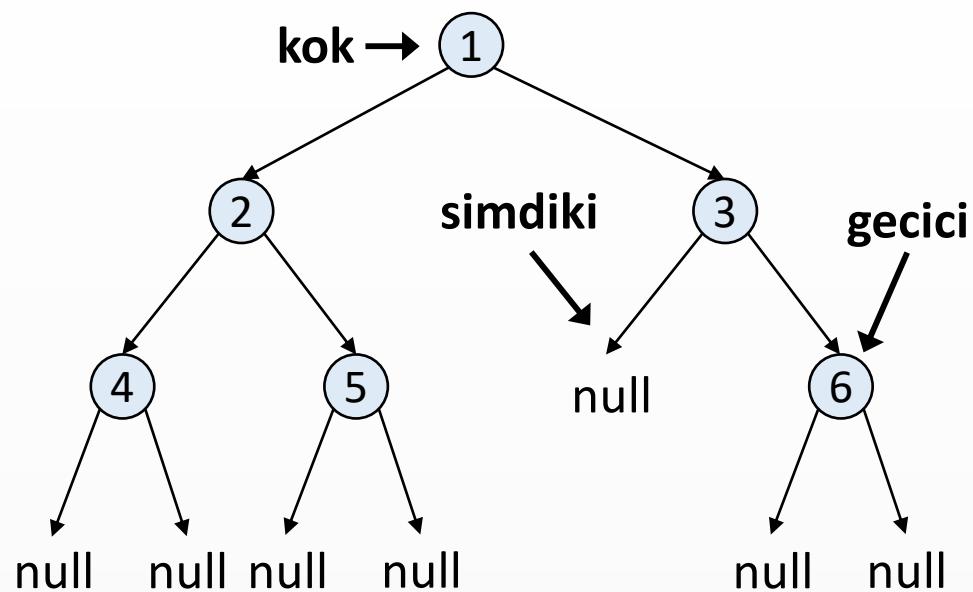
Çıktı: 4 5 2

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**Çıktı: 4 5 2**

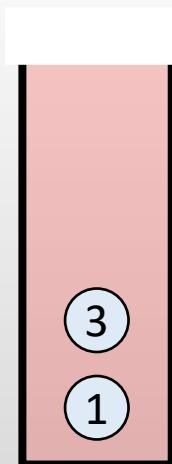
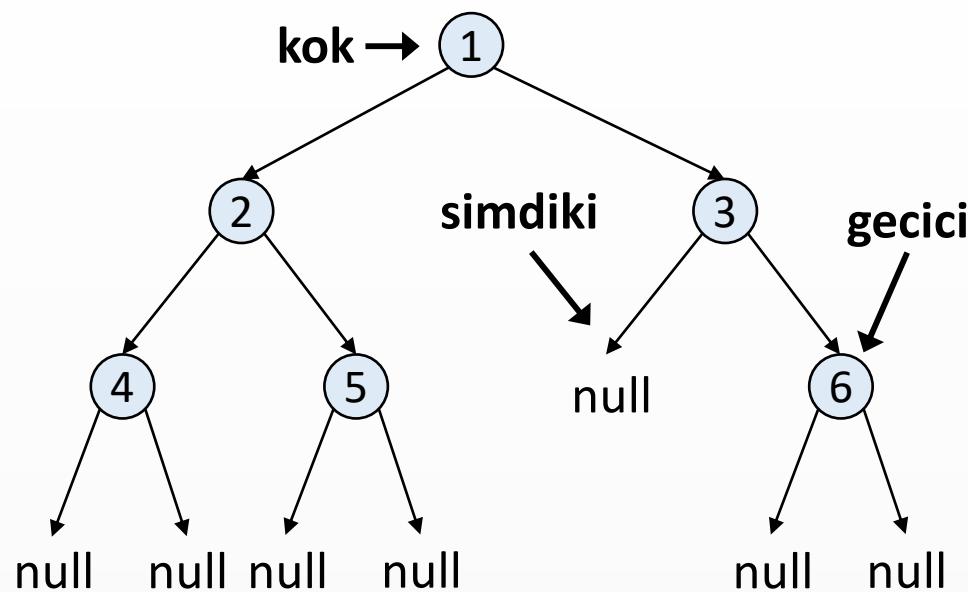
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Yigit

Çıktı: 4 5 2

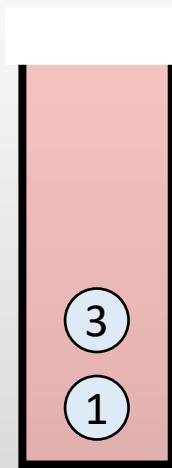
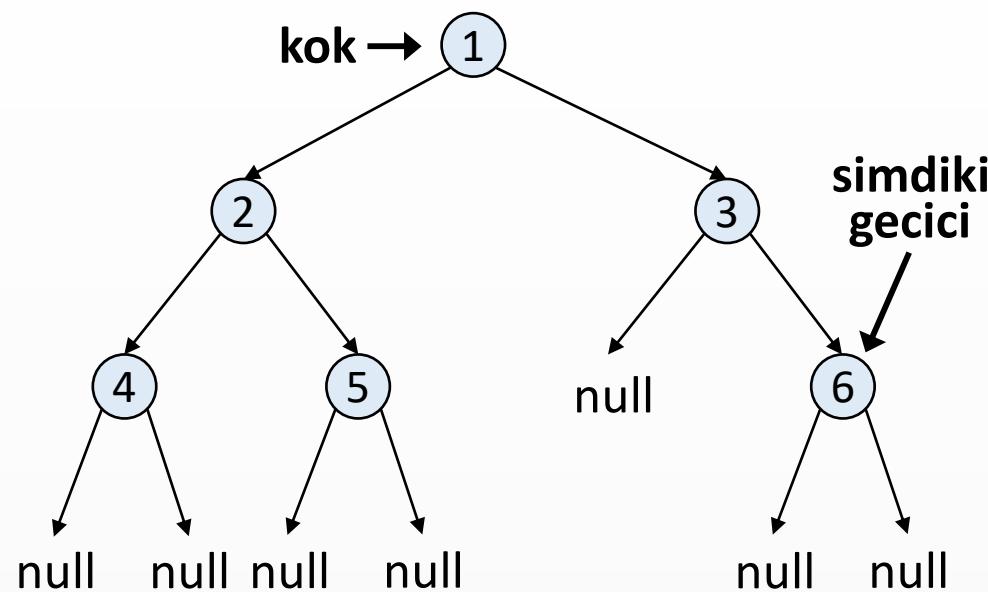
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Yığıt

Çıktı: 4 5 2

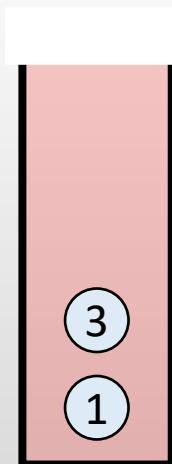
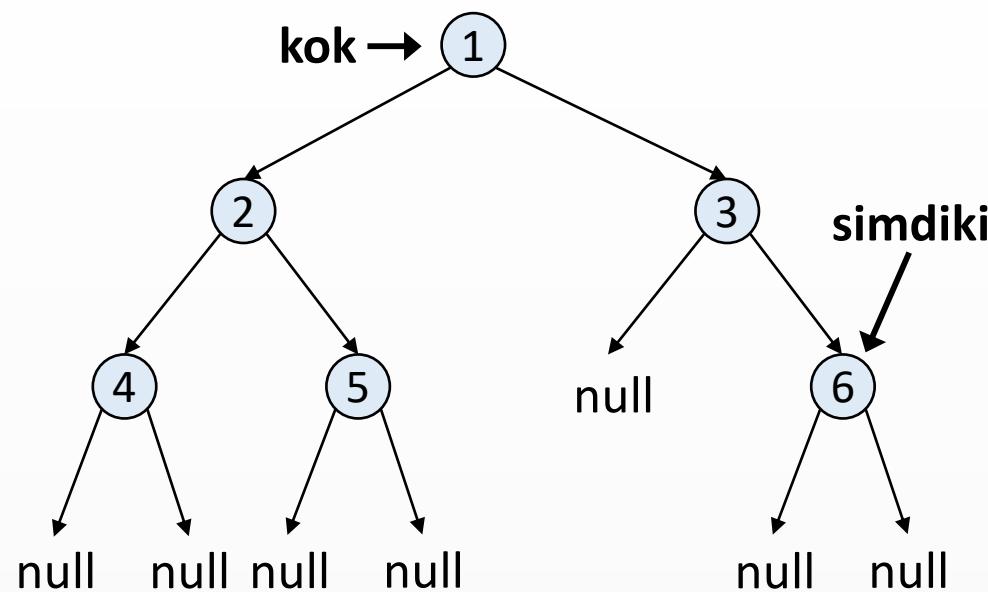
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Yığıt

Çıktı: 4 5 2

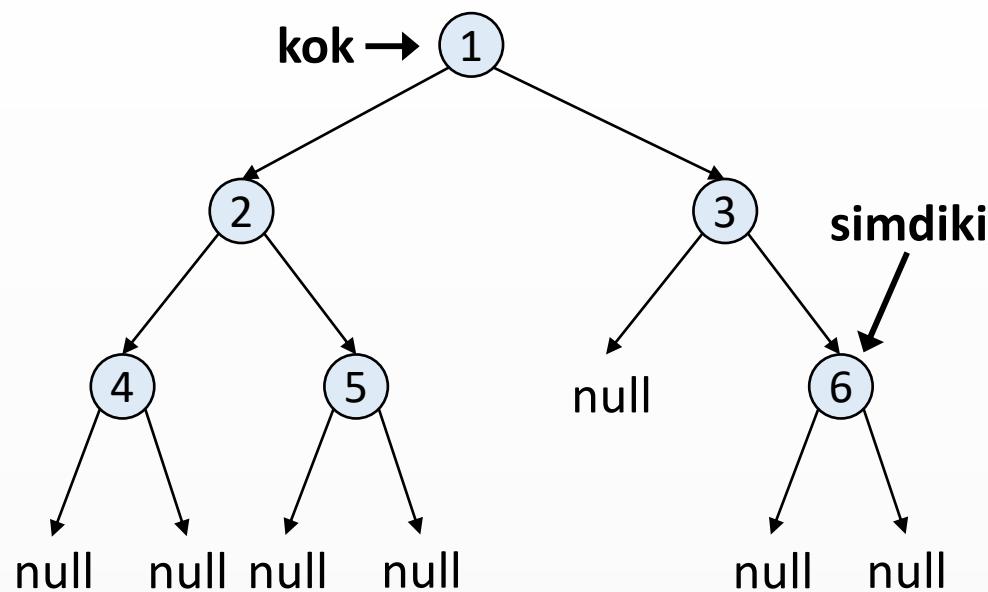
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Yığıt

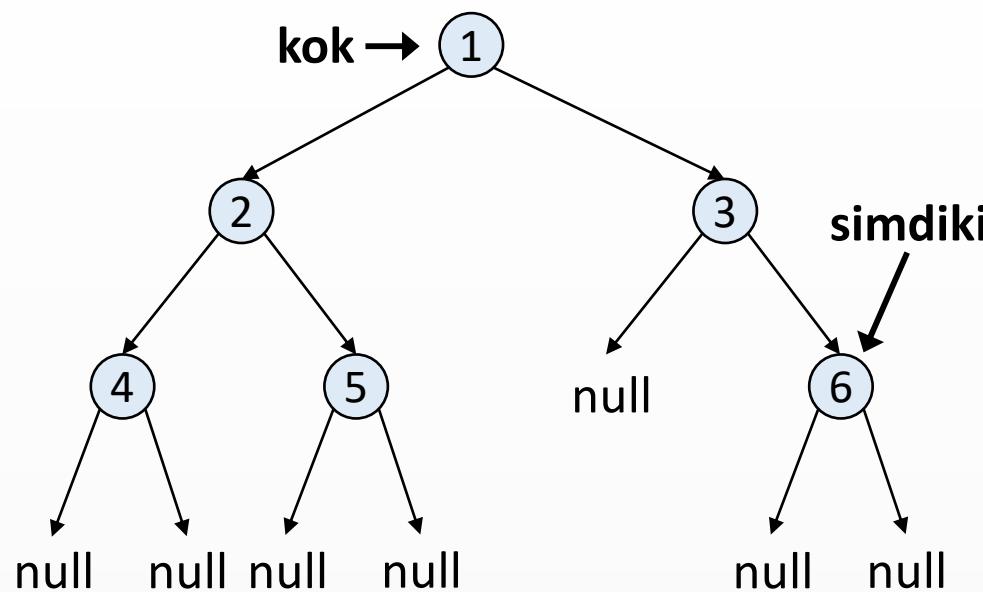
Çıktı: 4 5 2

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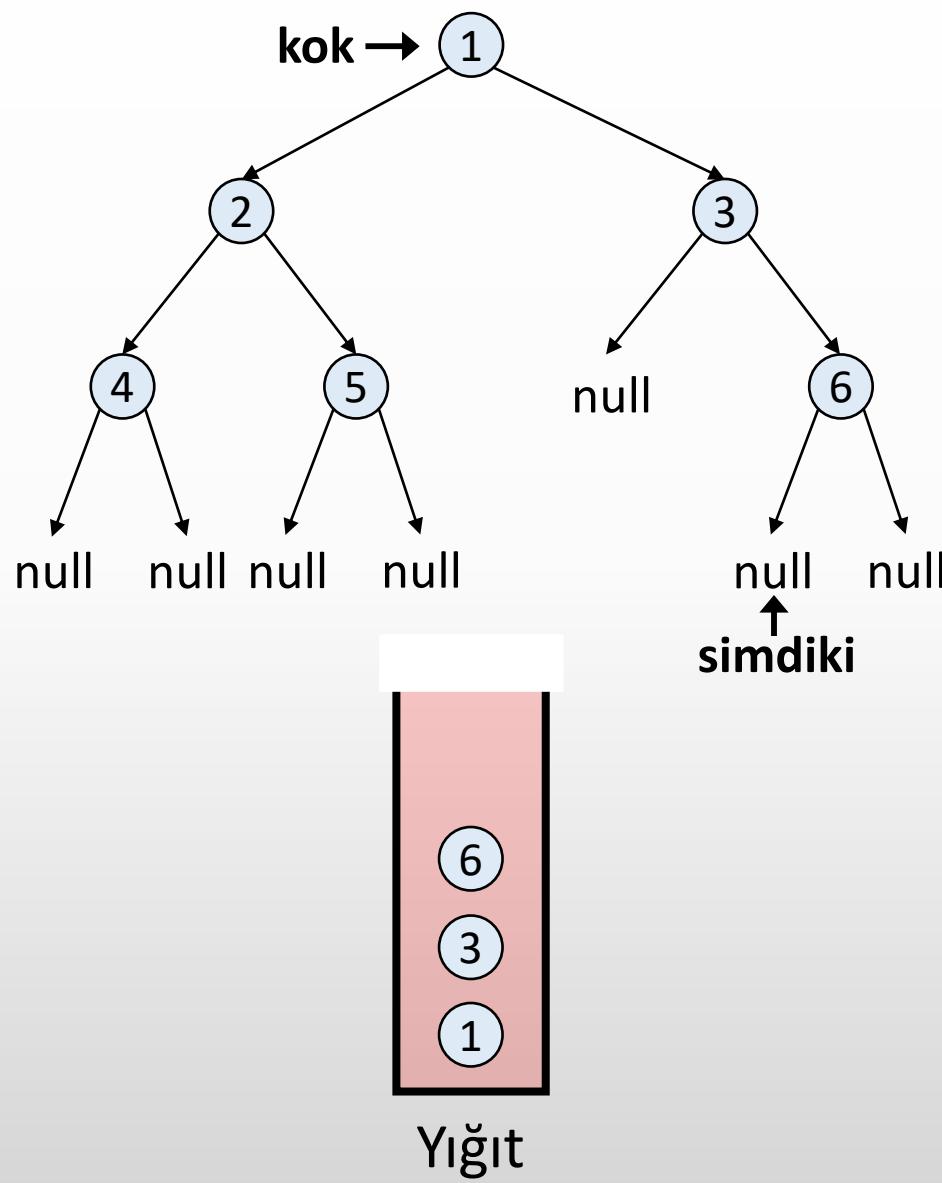
**Çıktı: 4 5 2**

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



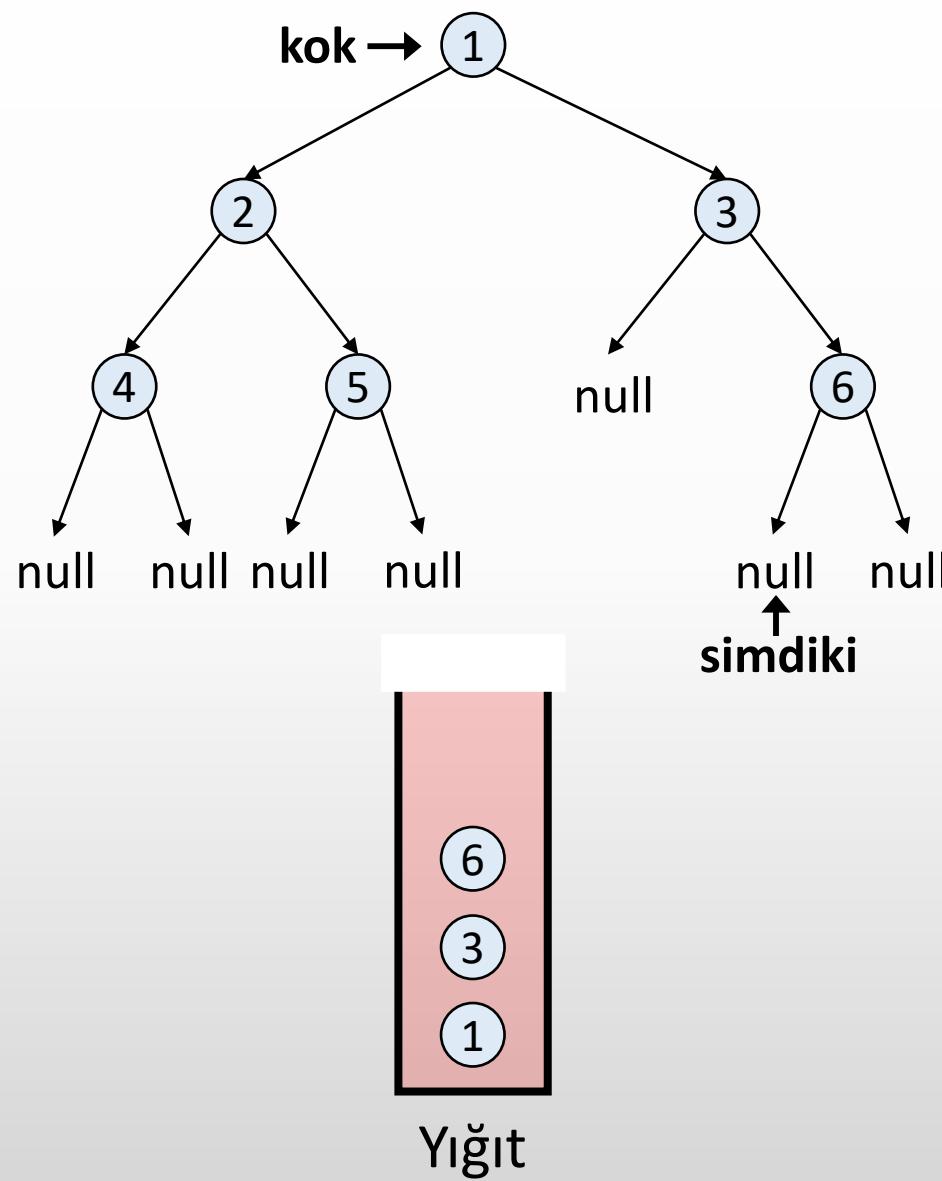
Çıktı: 4 5 2

```
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;
    }
}
```



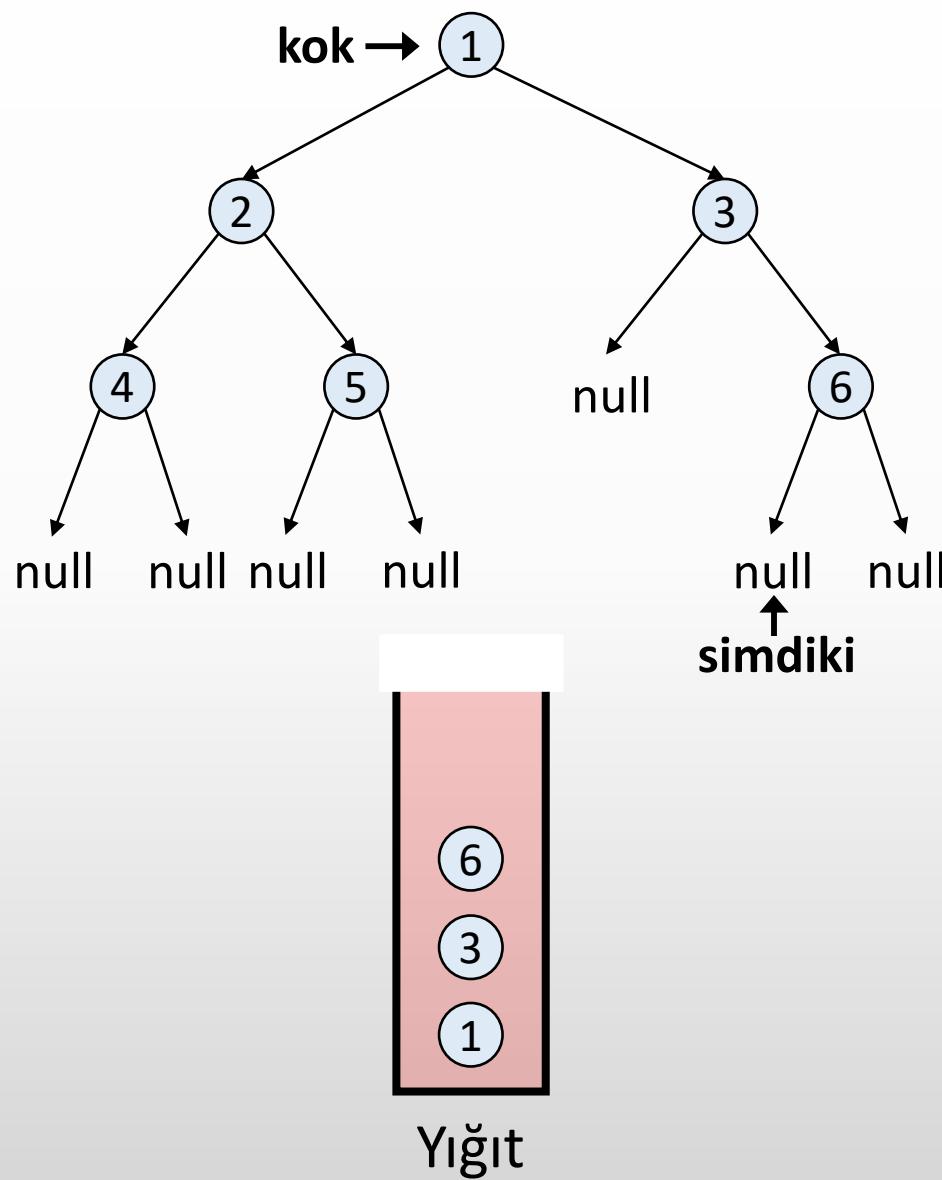
Çıktı: 4 5 2

```
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;
        }
    }
}
```



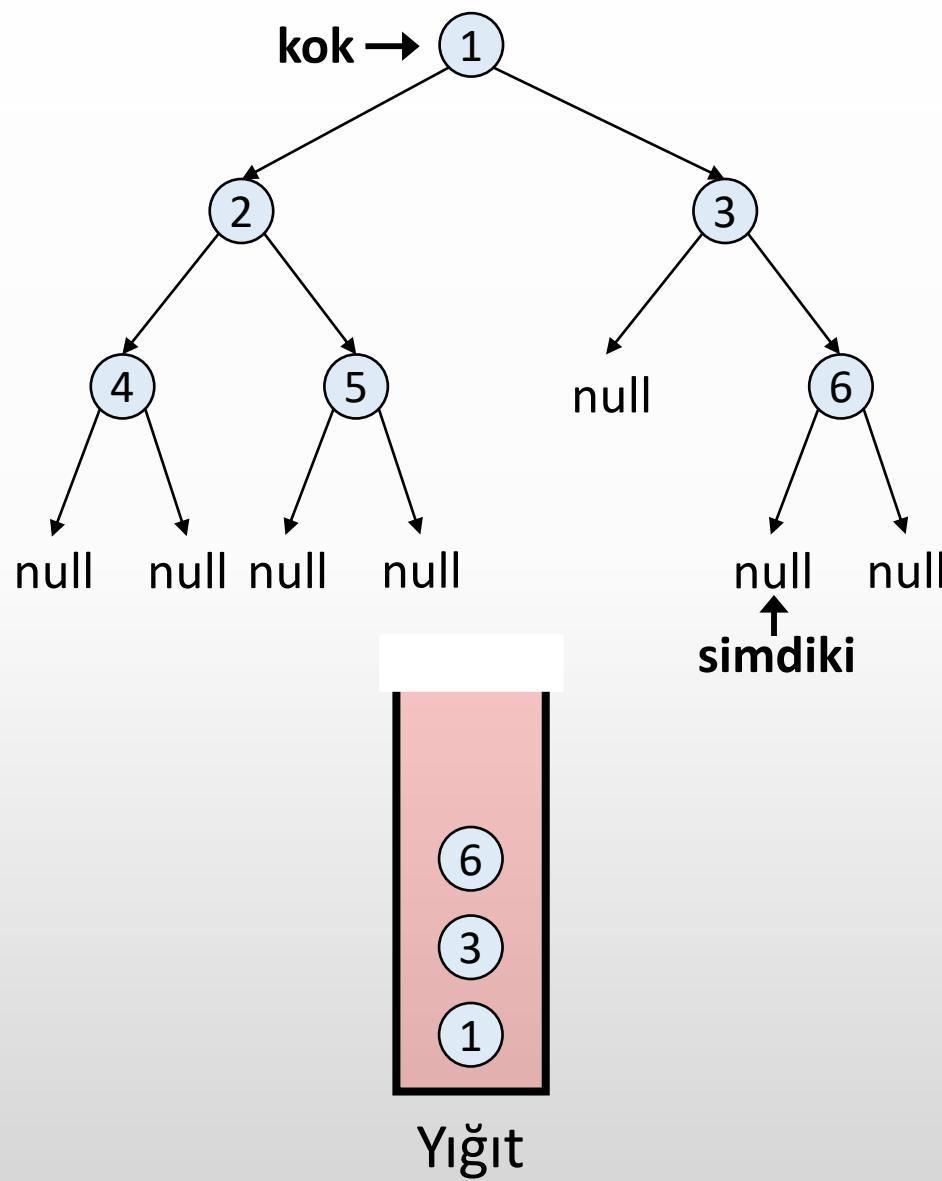
Çıktı: 4 5 2

```
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;
        }
    }
}
```



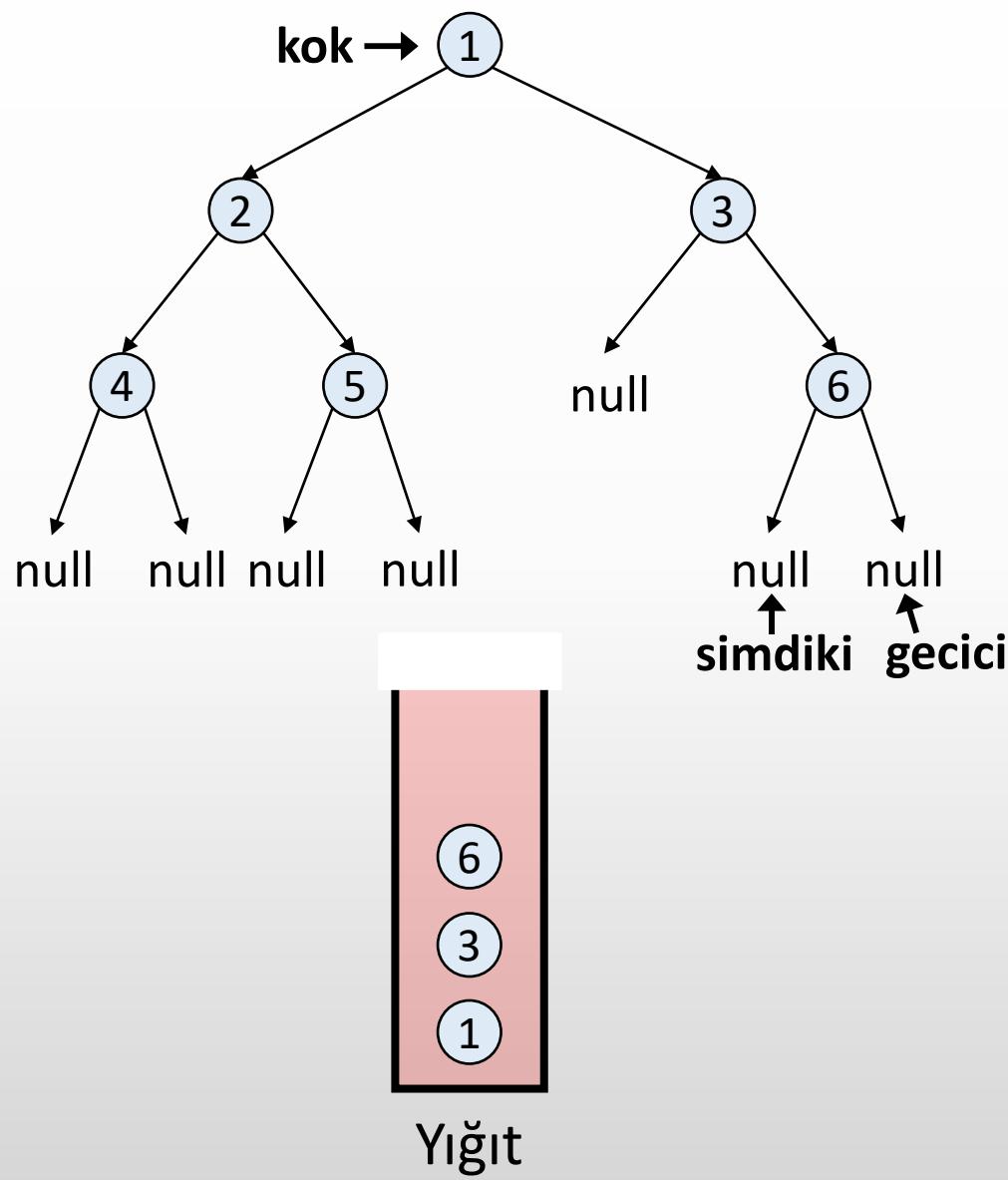
Çıktı: 4 5 2

```
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;
        }
    }
}
```



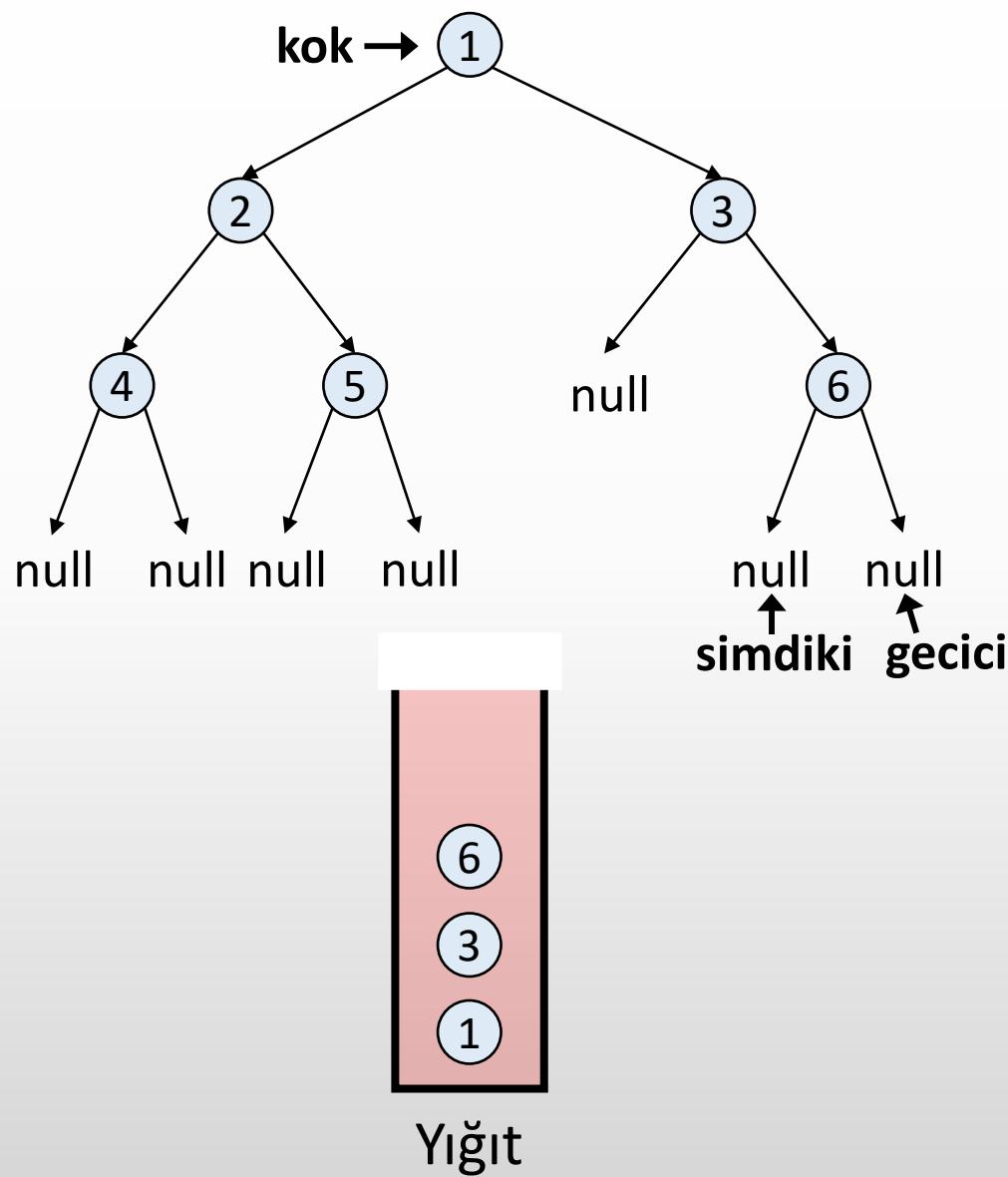
Çıktı: 4 5 2

```
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;
        }
    }
}
```



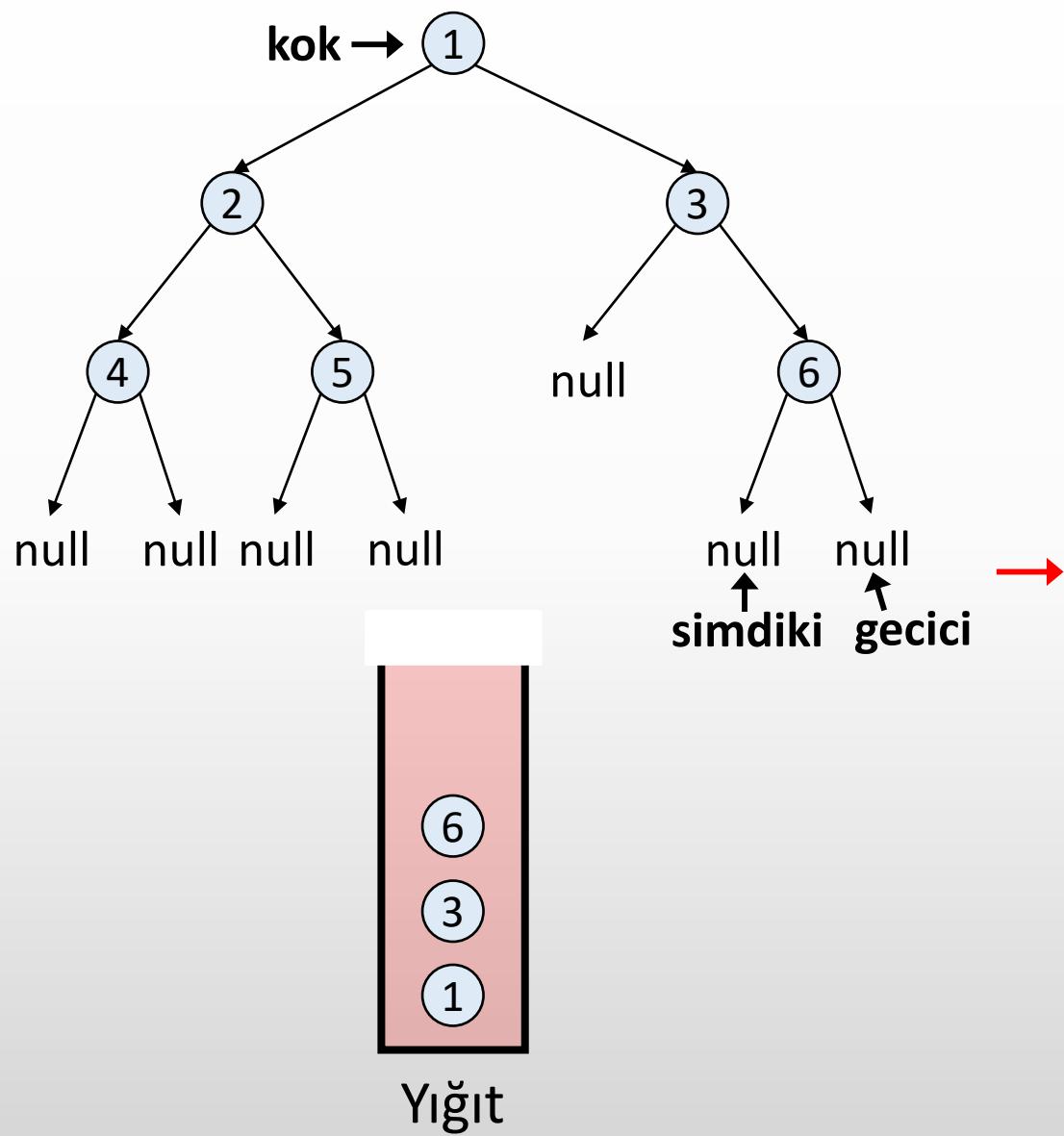
Çıktı: 4 5 2

```
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;
        }
    }
}
```



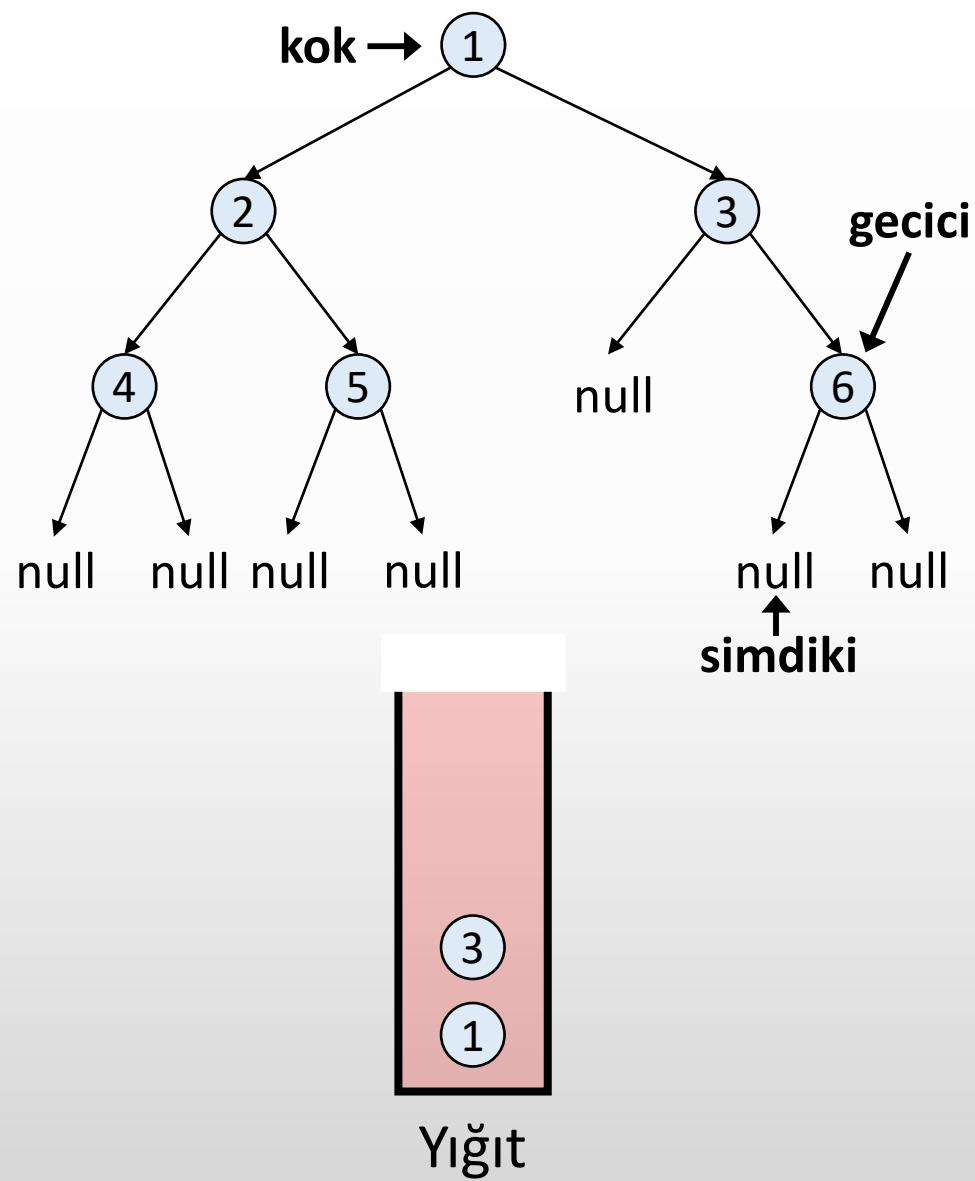
Çıktı: 4 5 2

```
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;
        }
    }
}
```



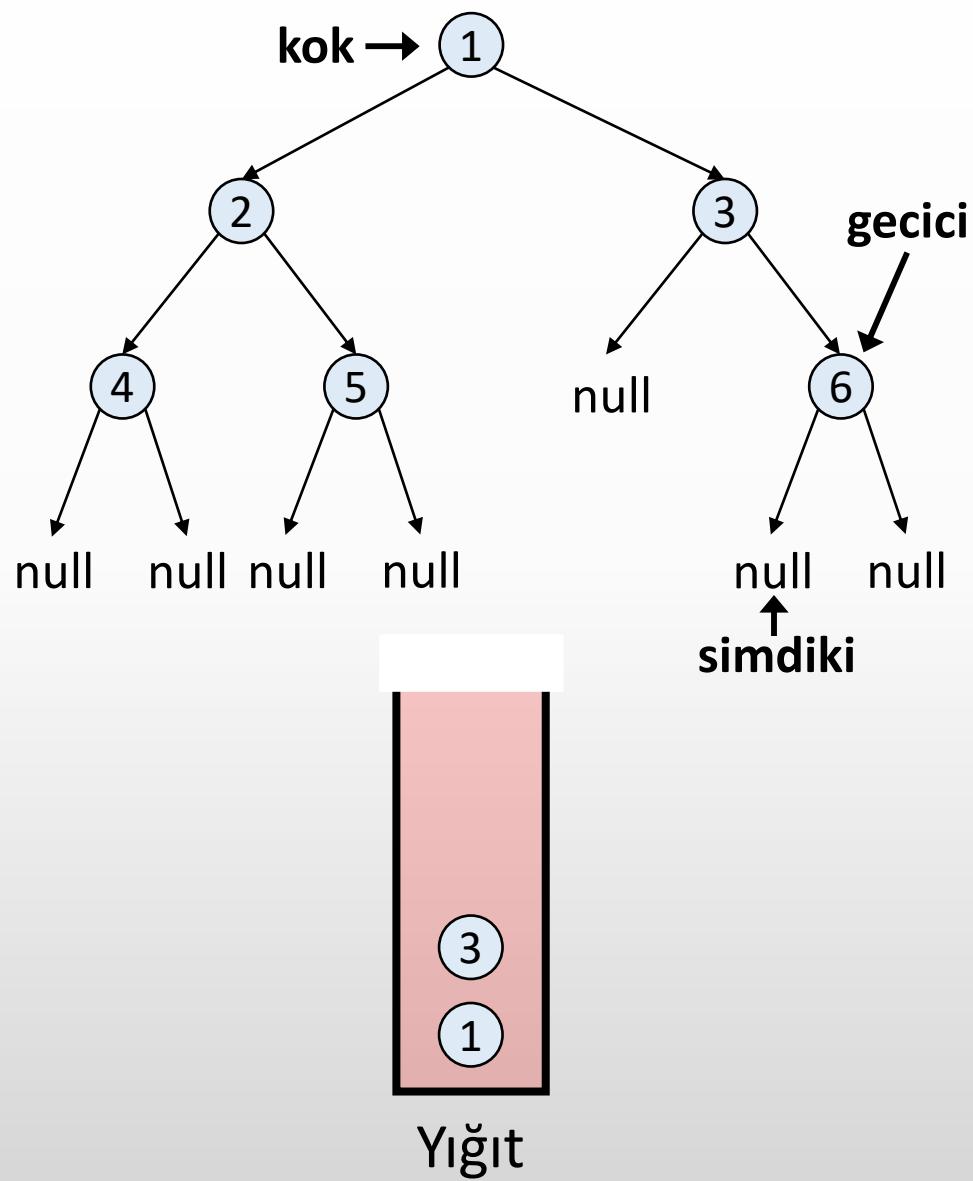
Çıktı: 4 5 2

```
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;
        }
    }
}
```



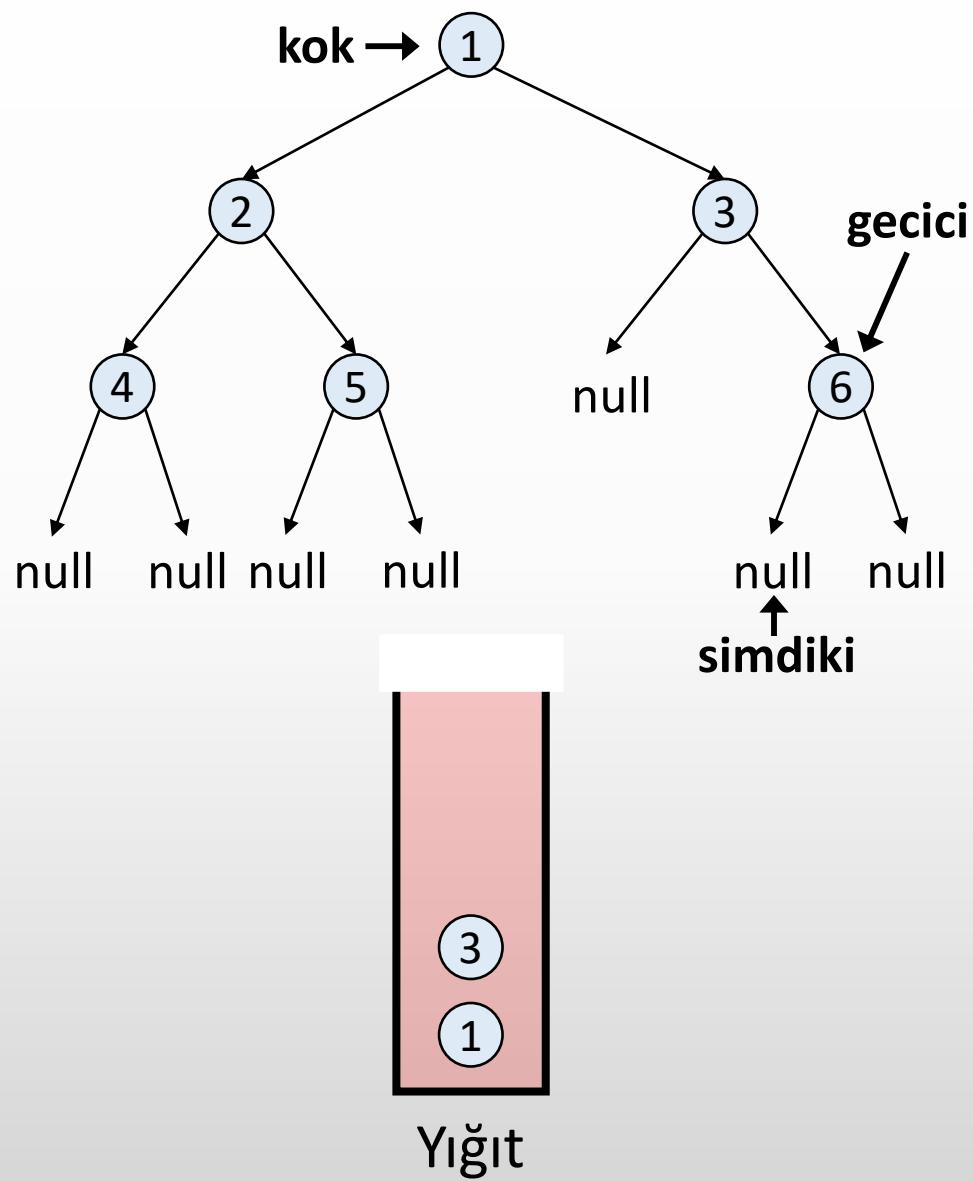
Çıktı: 4 5 2

```
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;
        }
    }
}
```



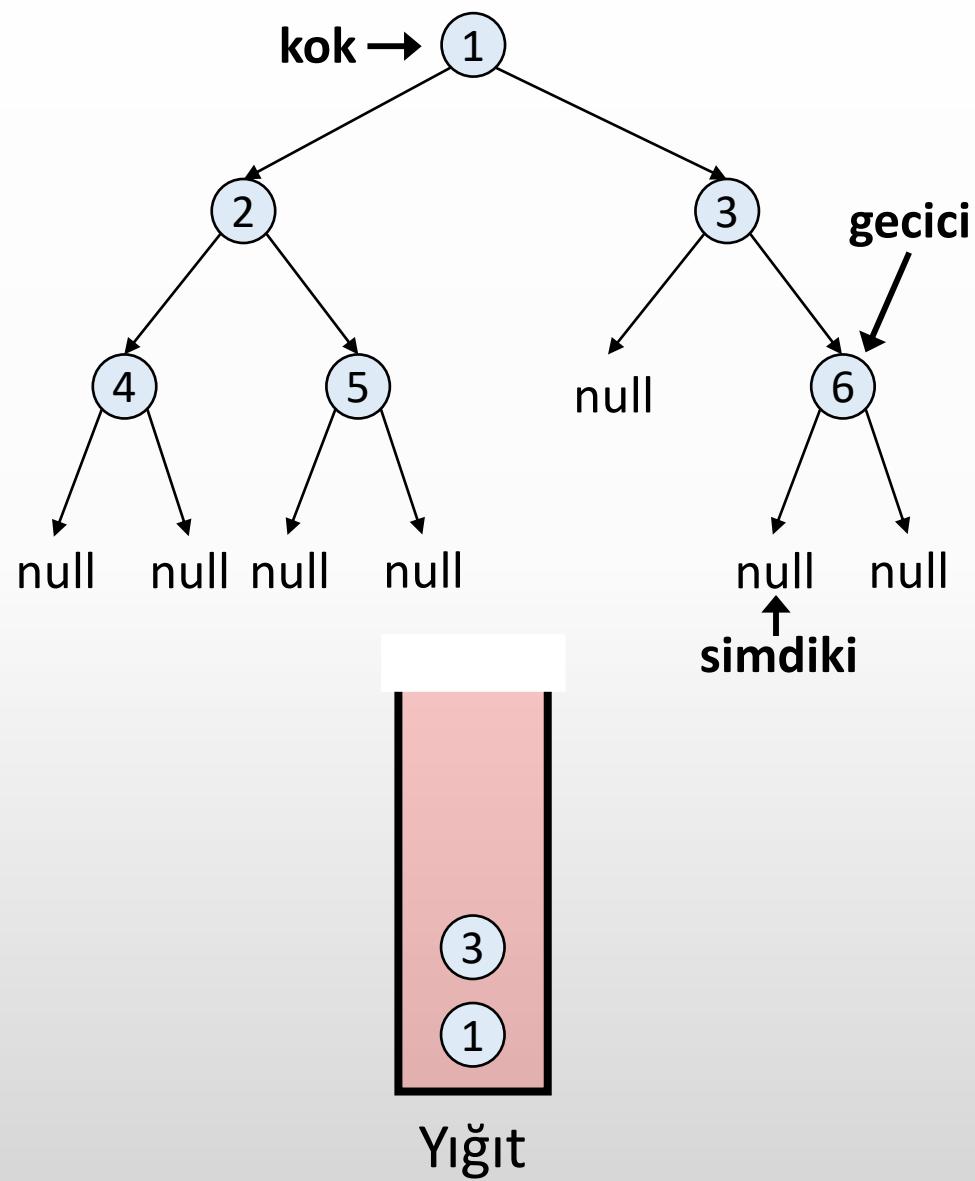
Çıktı: 4 5 2 6

```
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;
        }
    }
}
```



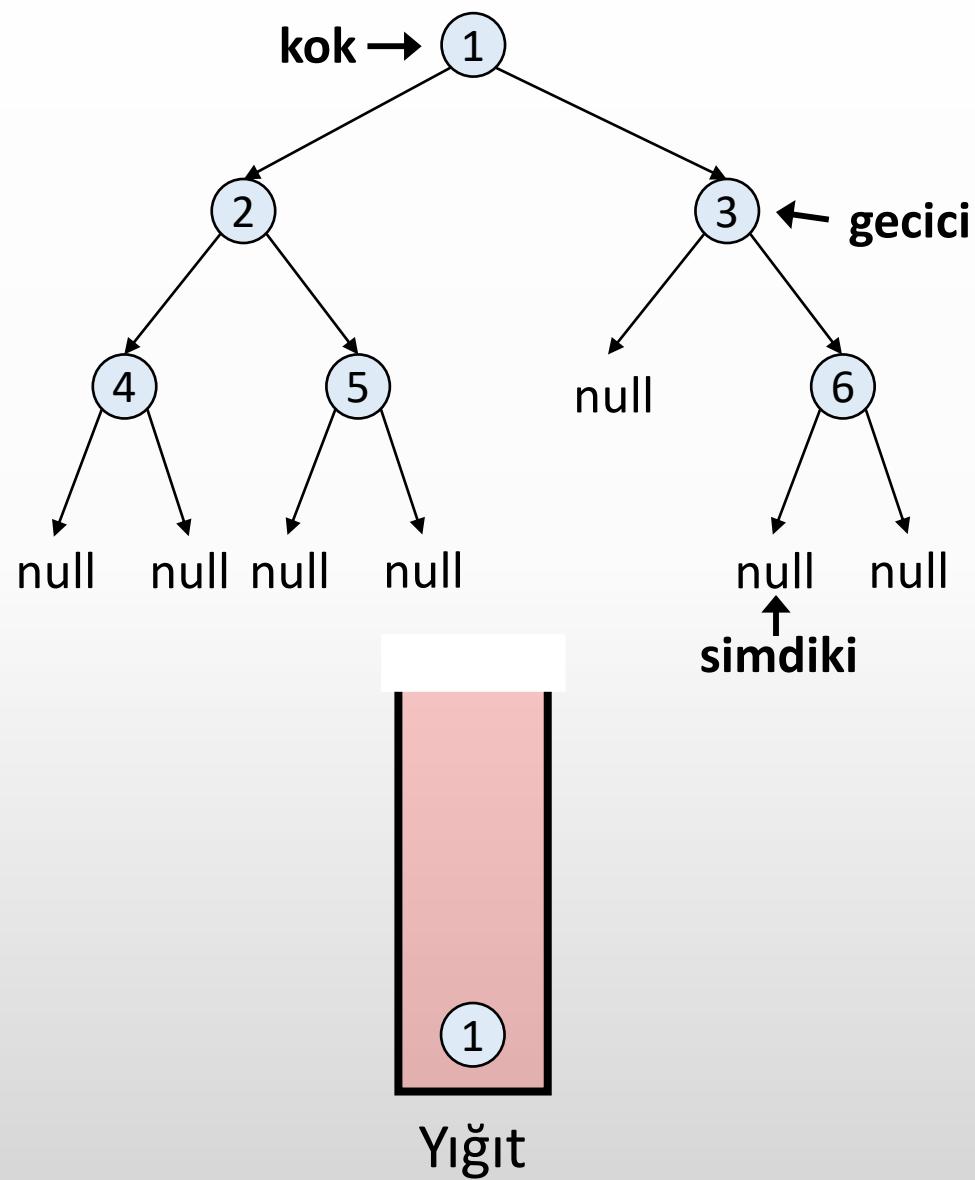
Çıktı: 4 5 2 6

```
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;
        }
    }
}
```



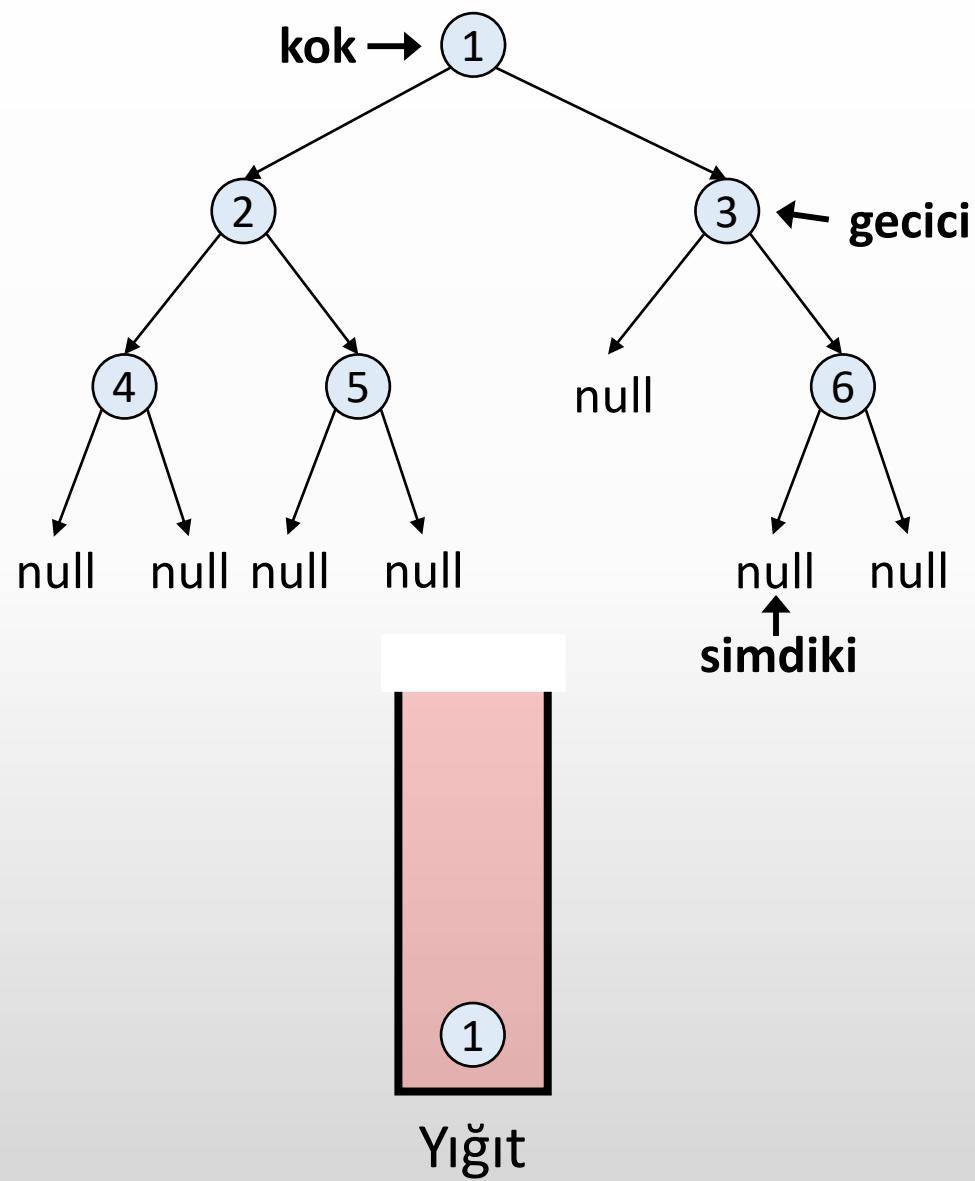
Çıktı: 4 5 2 6

```
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;
        }
    }
}
```



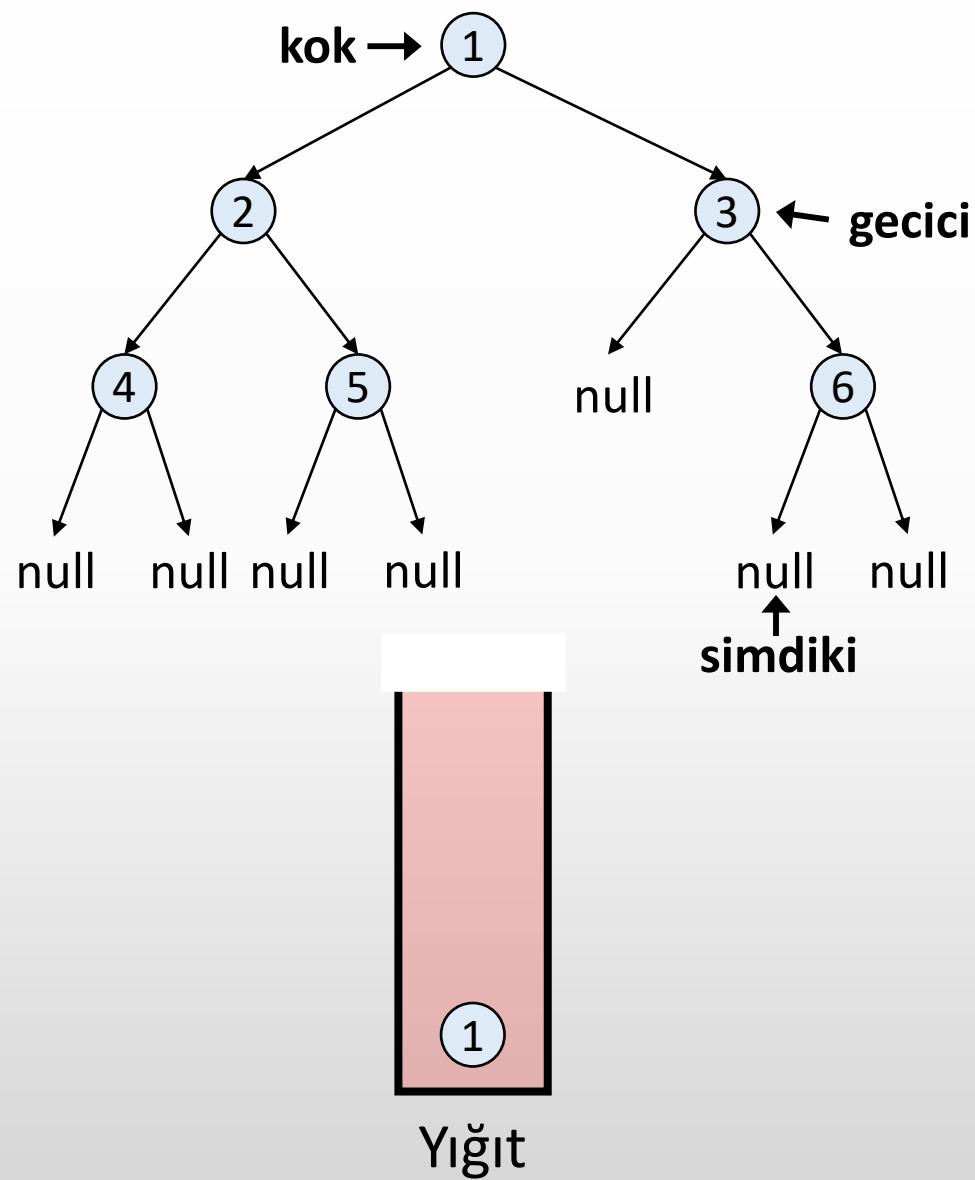
Çıktı: 4 5 2 6

```
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;
        }
    }
}
```



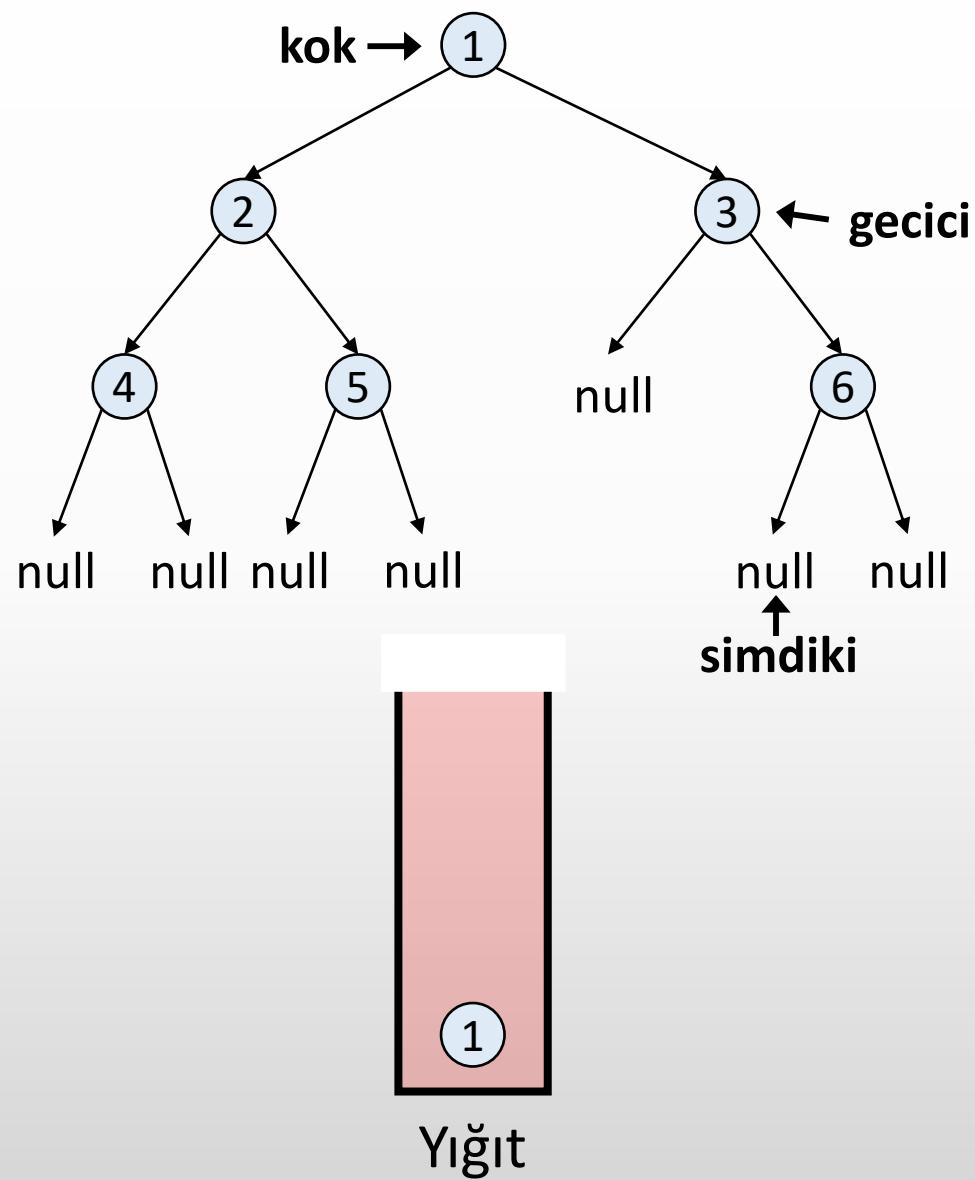
Çıktı: 4 5 2 6 3

```
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;
        }
    }
}
```



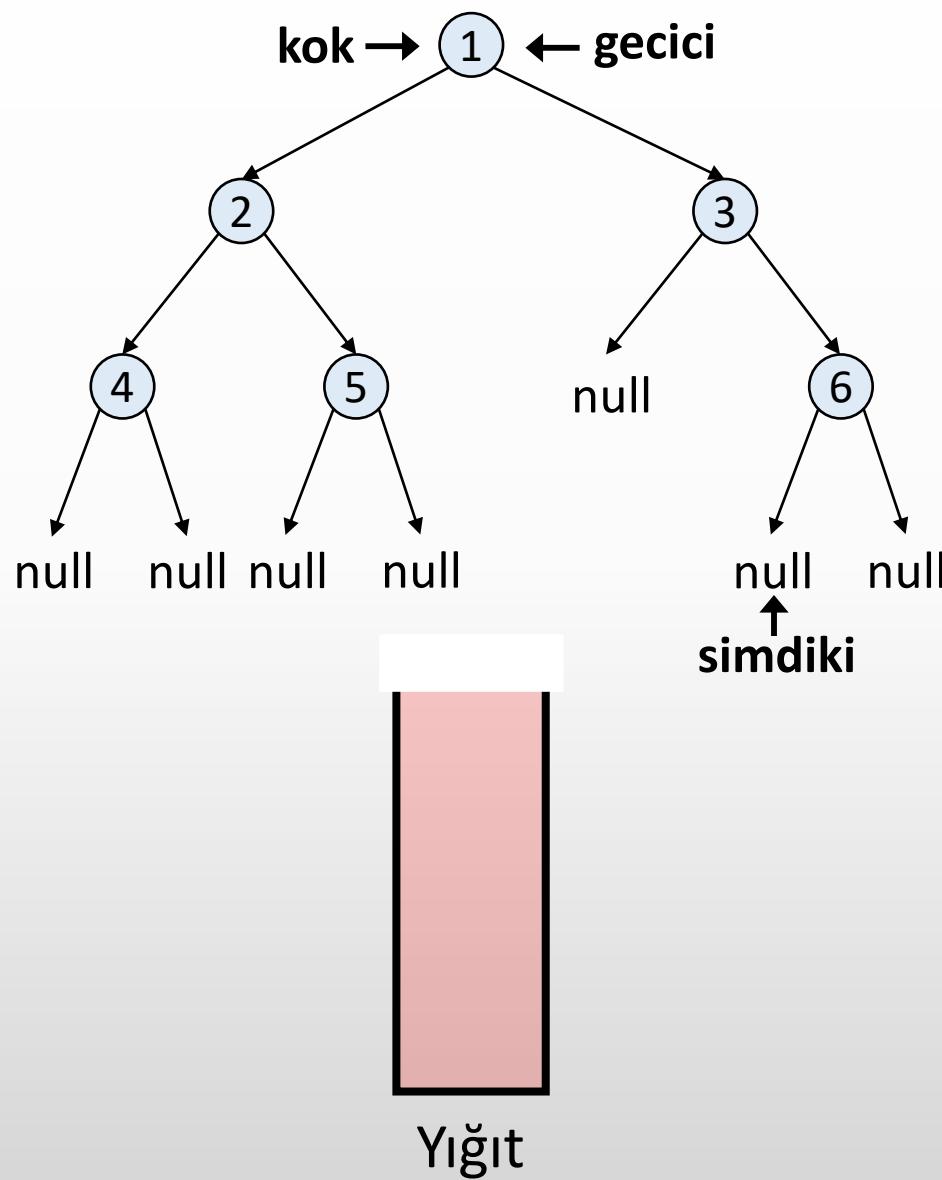
Çıktı: 4 5 2 6 3

```
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;
        }
    }
}
```



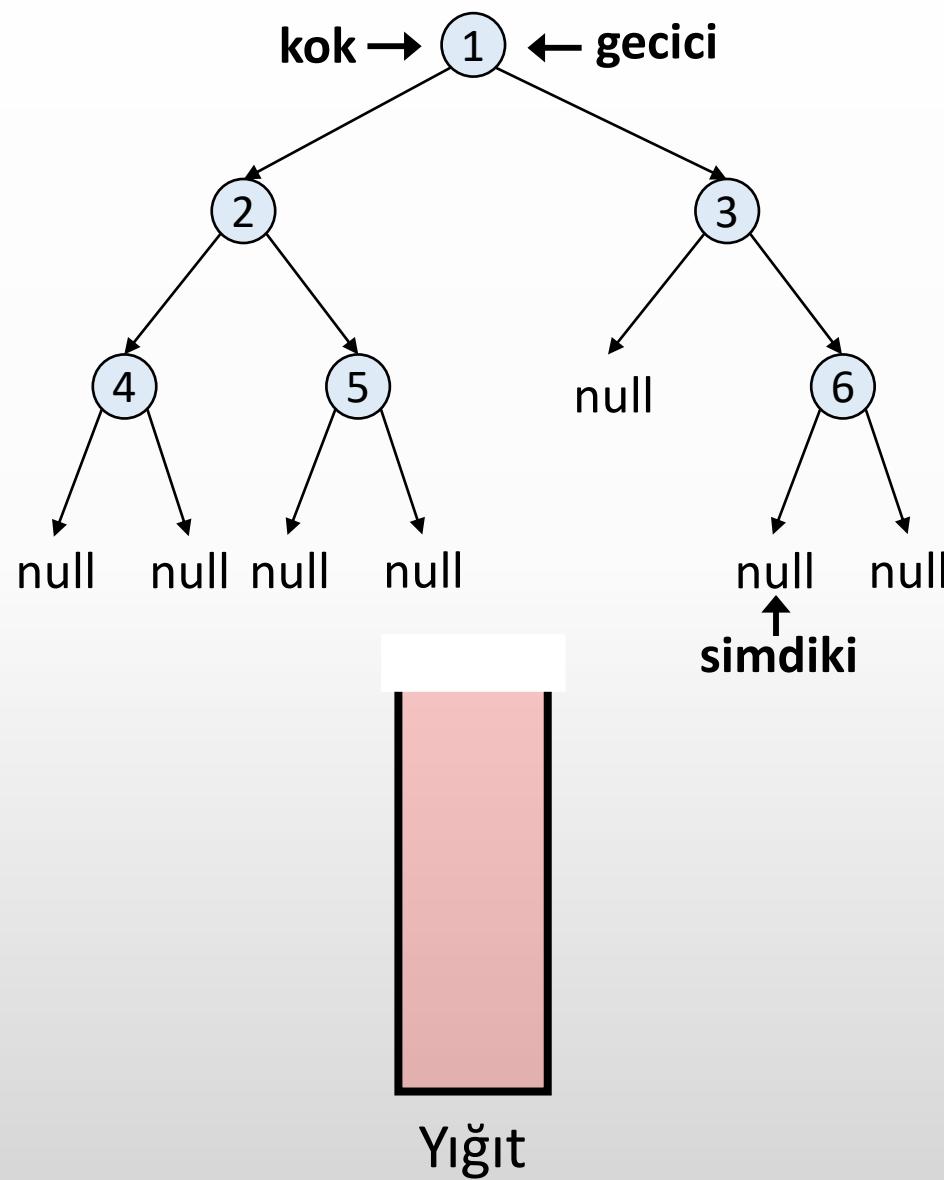
Çıktı: 4 5 2 6 3

```
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;
        }
    }
}
```



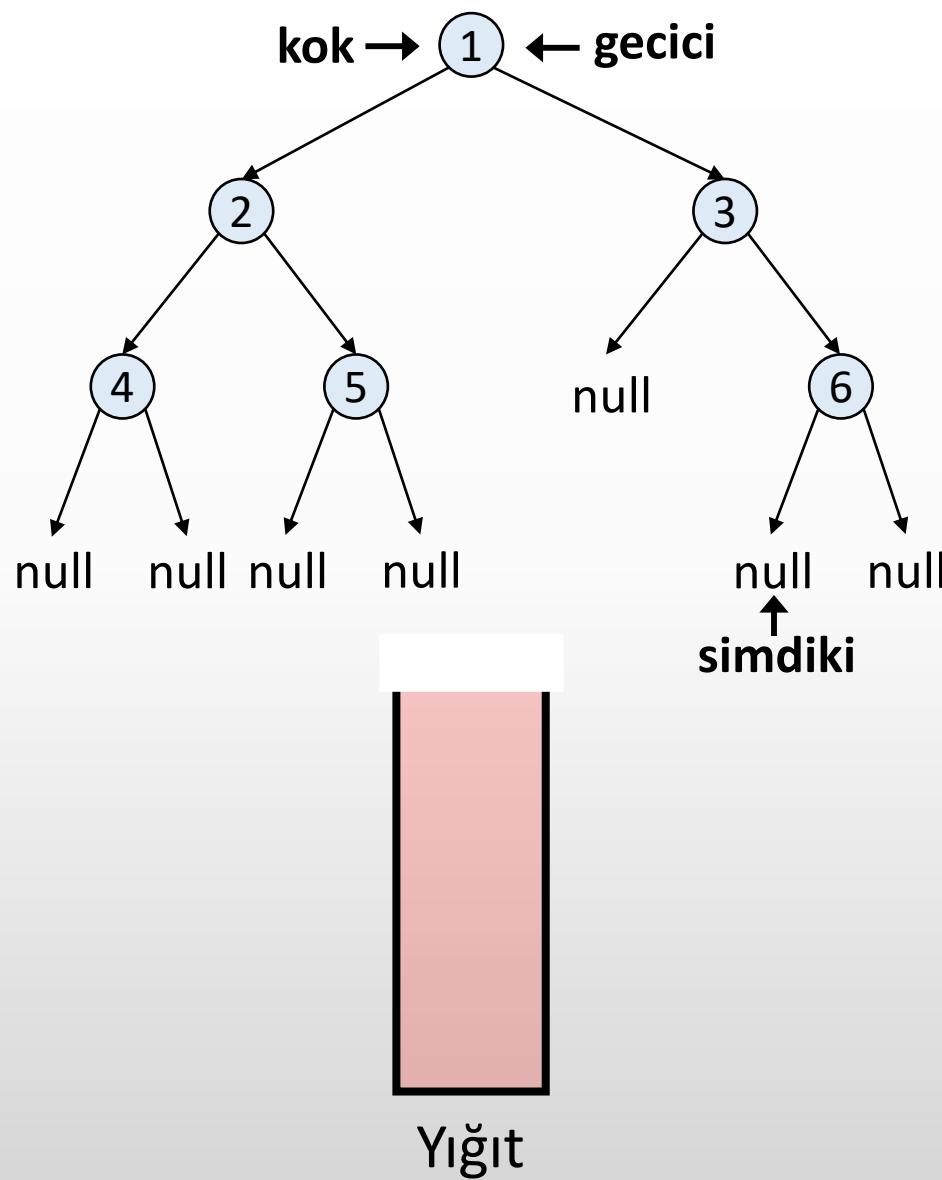
Çıktı: 4 5 2 6 3

```
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;
        }
    }
}
```



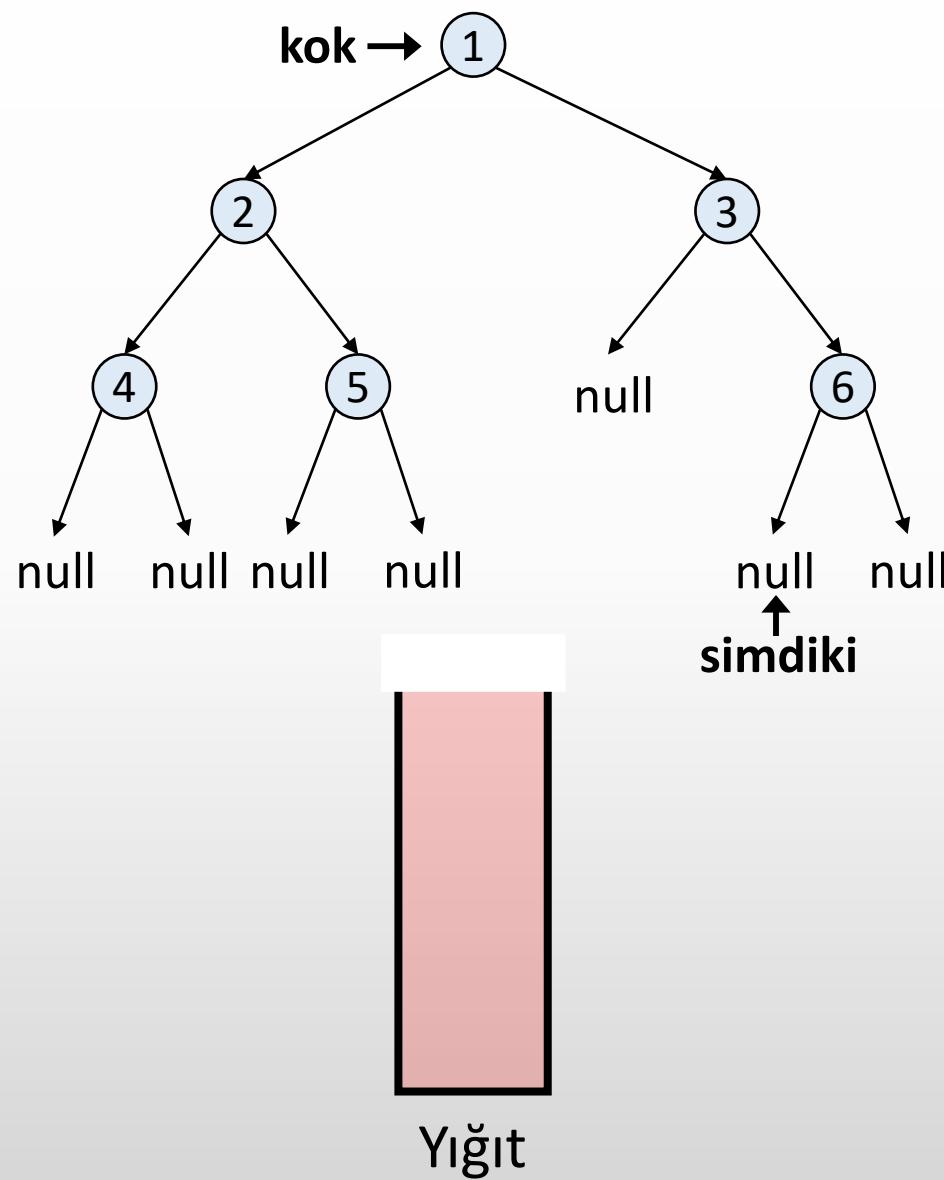
Çıktı: 4 5 2 6 3 1

```
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;
        }
    }
}
```



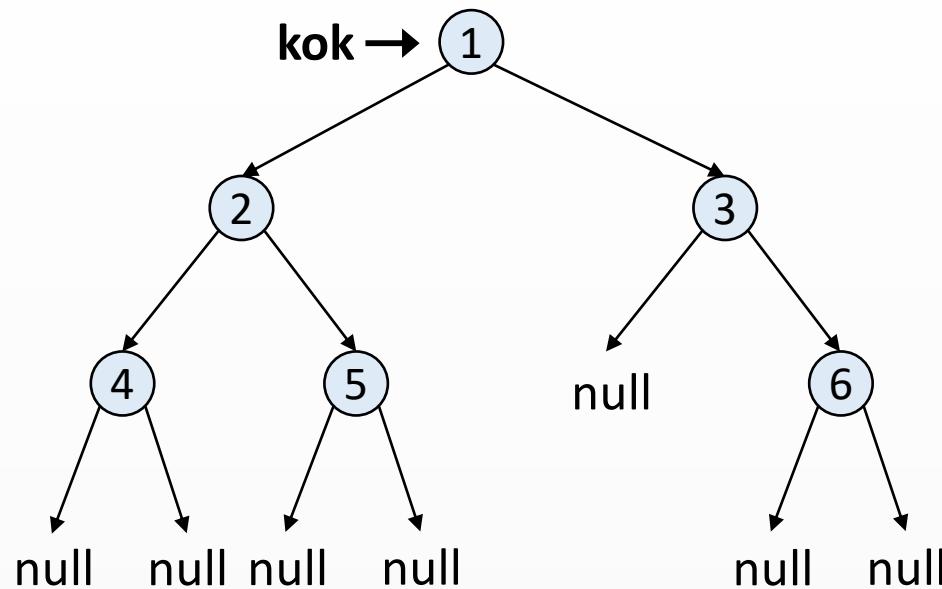
Çıktı: 4 5 2 6 3 1

```
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;
        }
    }
}

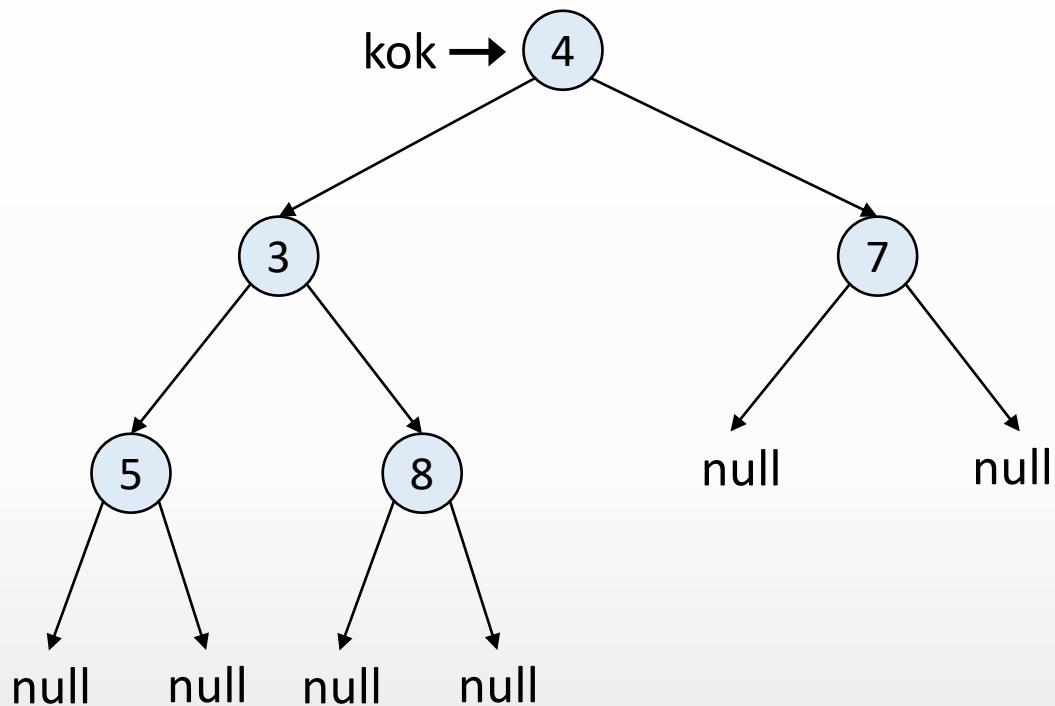
```

# İkili Ağaçta En Büyük Değeri Bulma

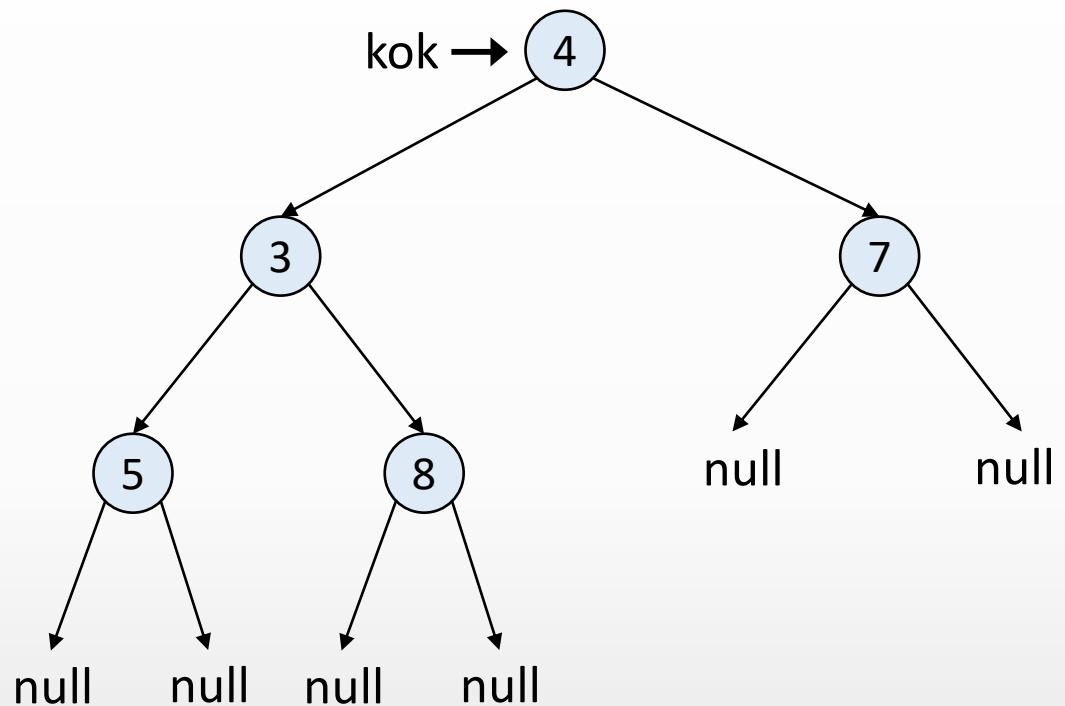




metot çağrımı	satır no	kok	sonuc	sol	sag
---------------	----------	-----	-------	-----	-----



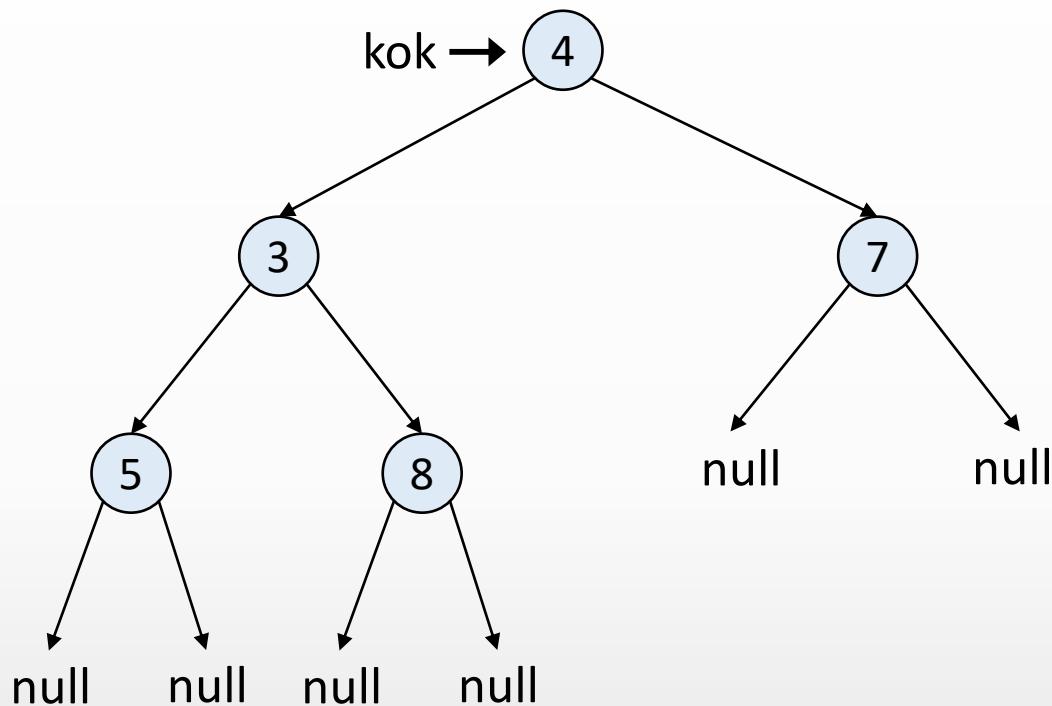
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

→

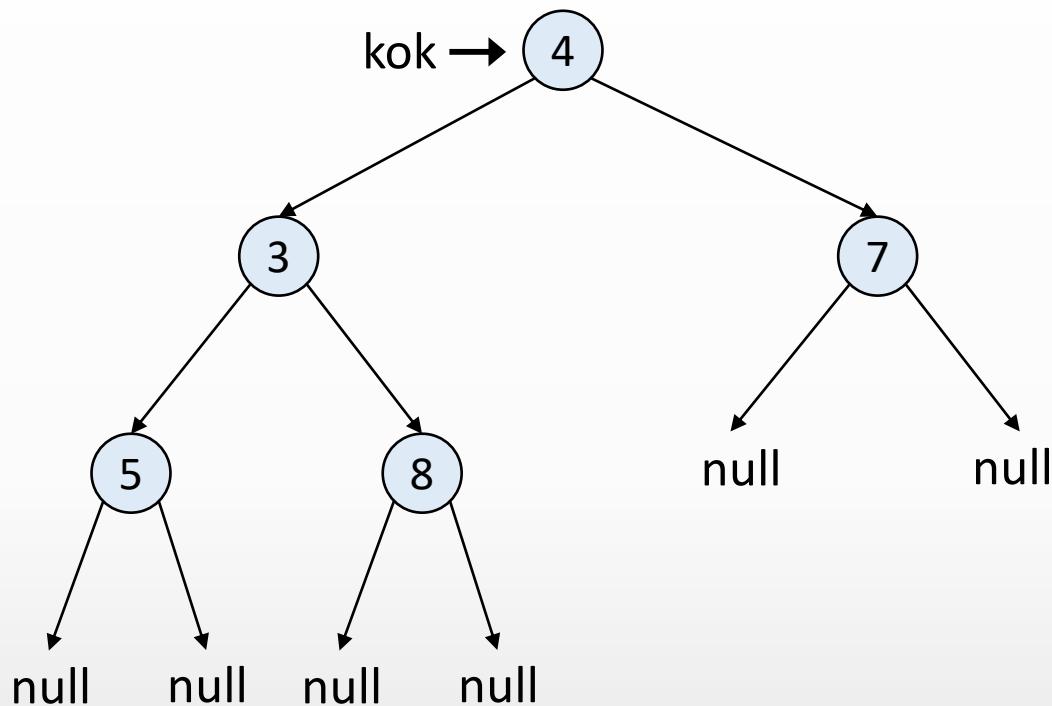
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;  
10    if(sag > sonuc)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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4			

→

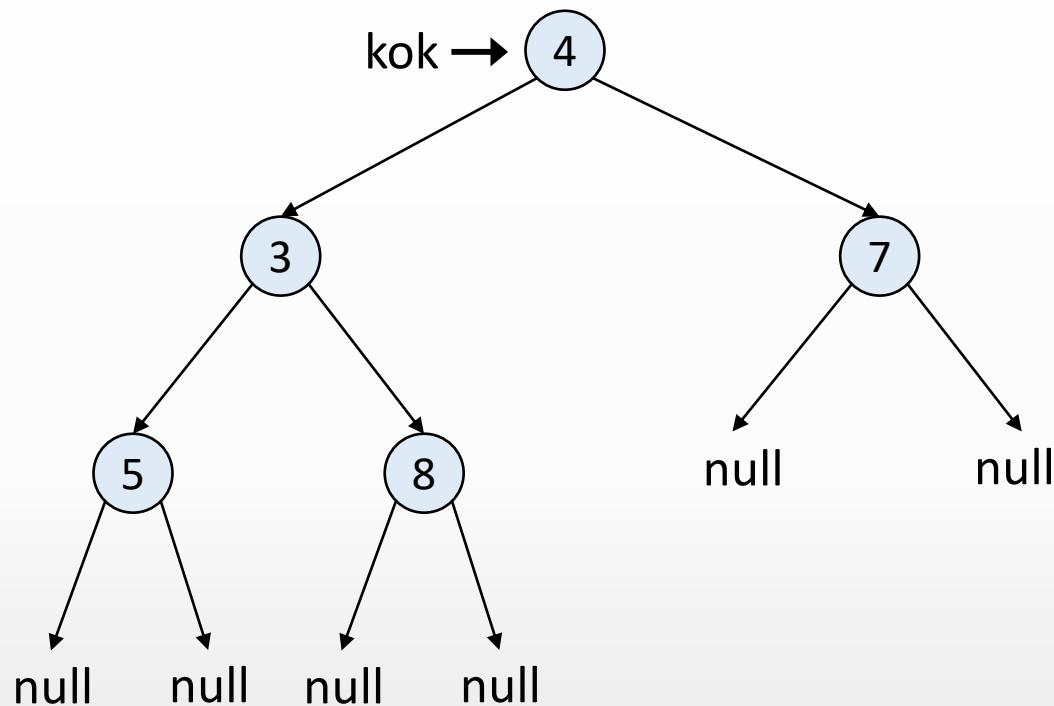
```
1 public int enBuyukBul(AgacDugumu kok) {  
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3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc)  
9         sonuc = sol;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



metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul		4	4		



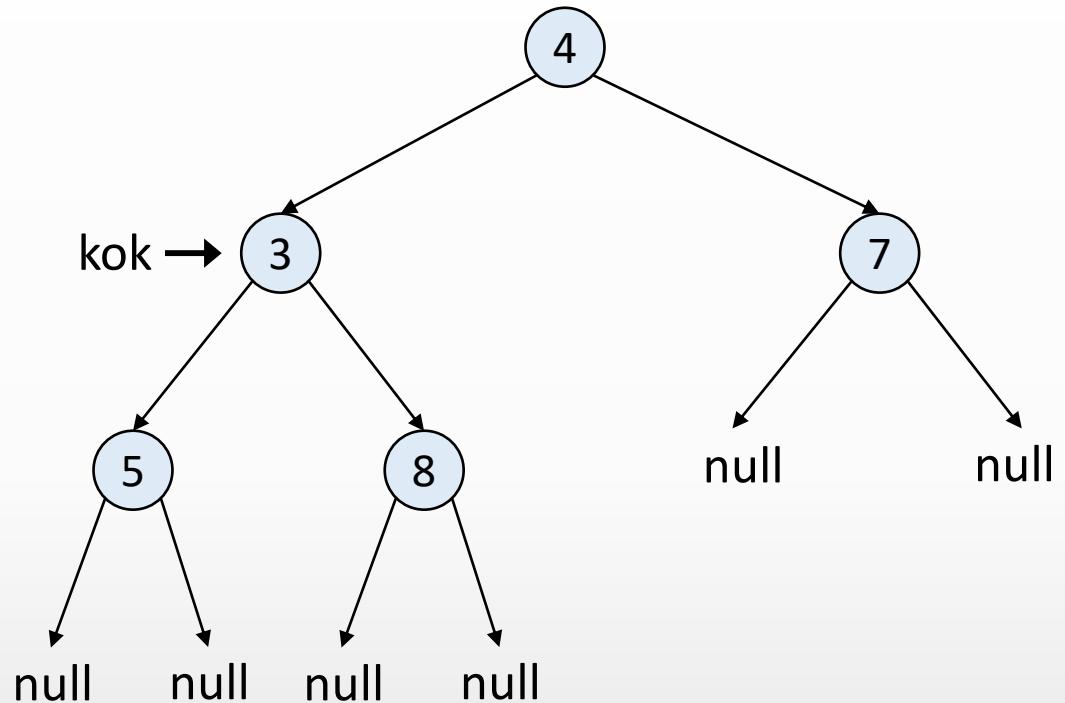
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1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol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



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

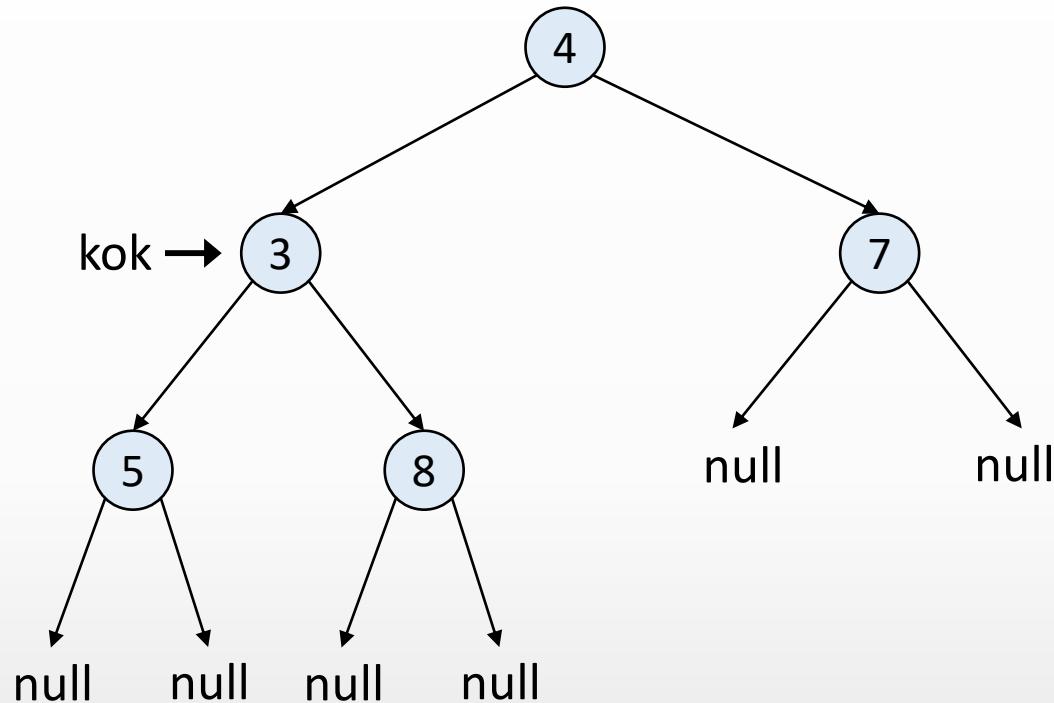


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2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
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5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
7     int sag = enBuyukBul(kok.sag);  
8     if(sol > sonuc) 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



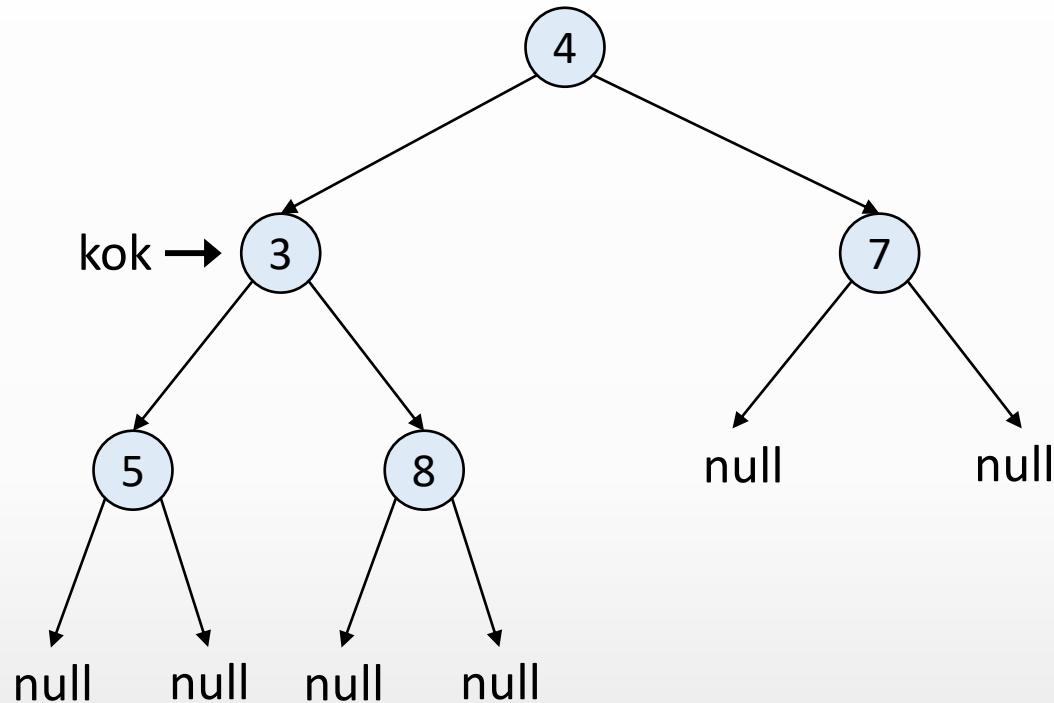
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul		3			

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

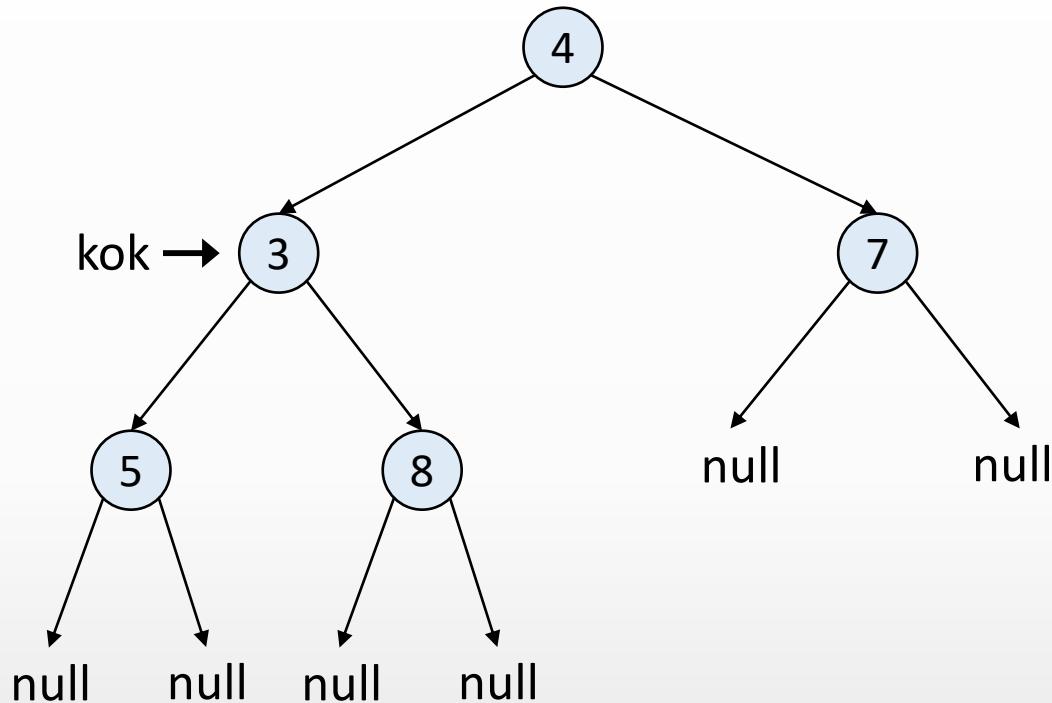
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1 public int enBuyukBul(AgacDugumu kok) {  
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13 }
```



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



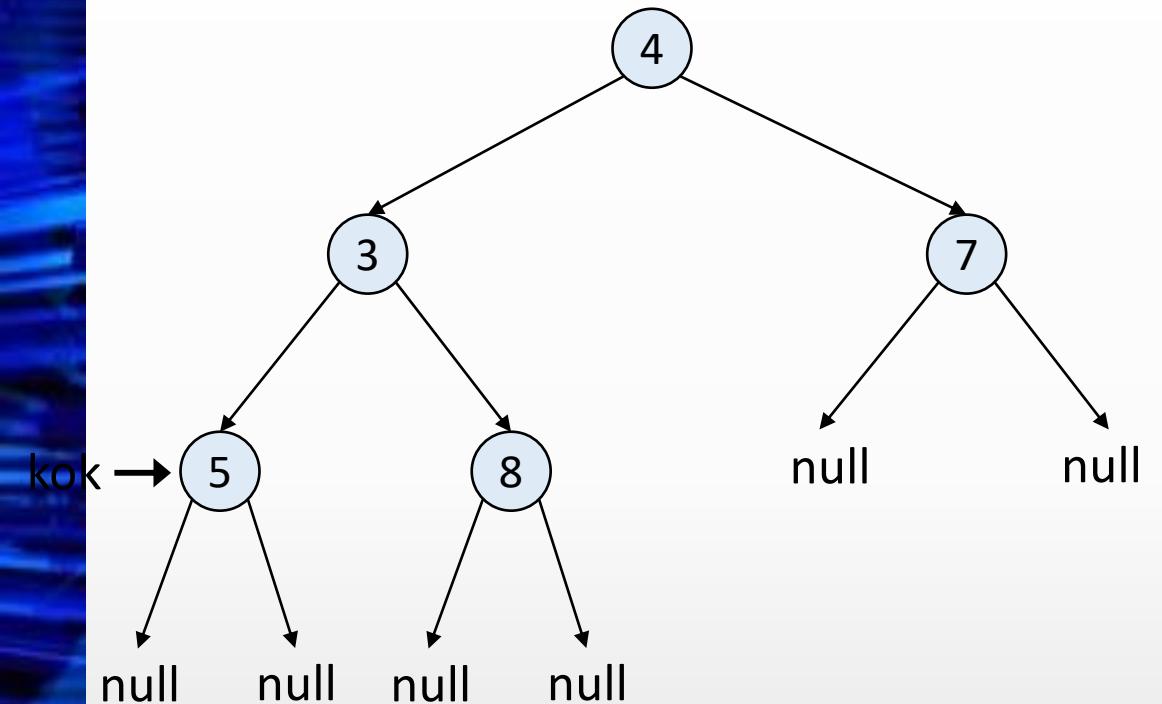
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13 }
```



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

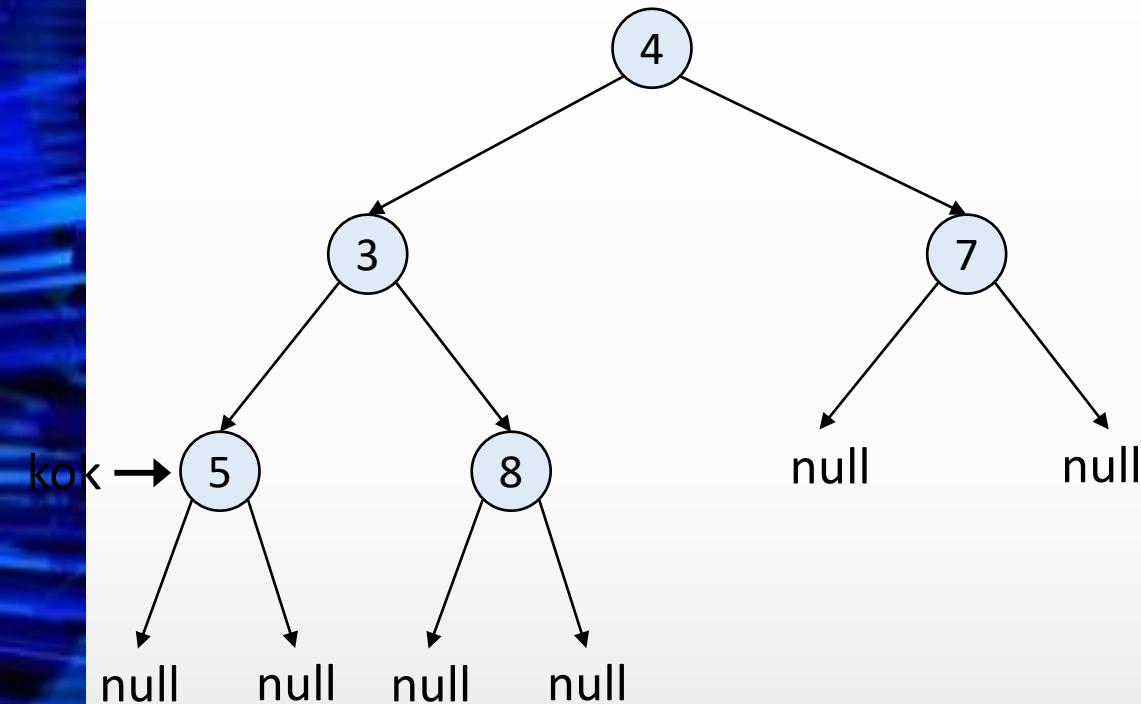


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9         sonuc = sol;  
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11        sonuc = sag;  
12    return sonuc;  
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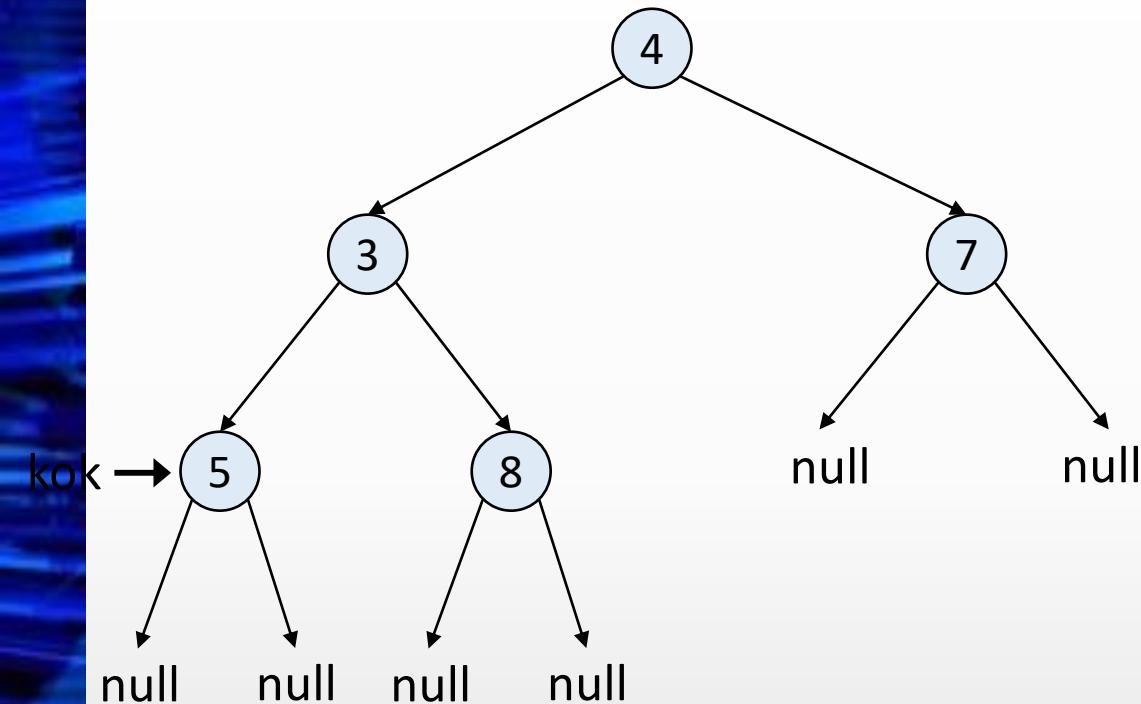
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			

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



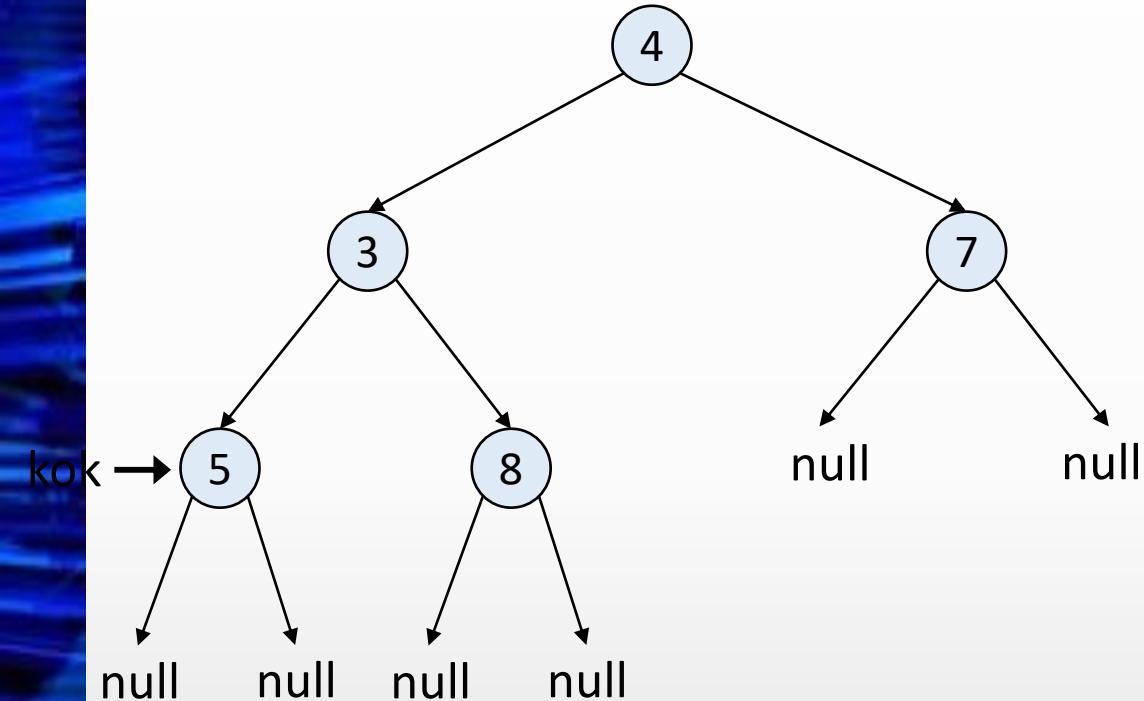
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5			

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



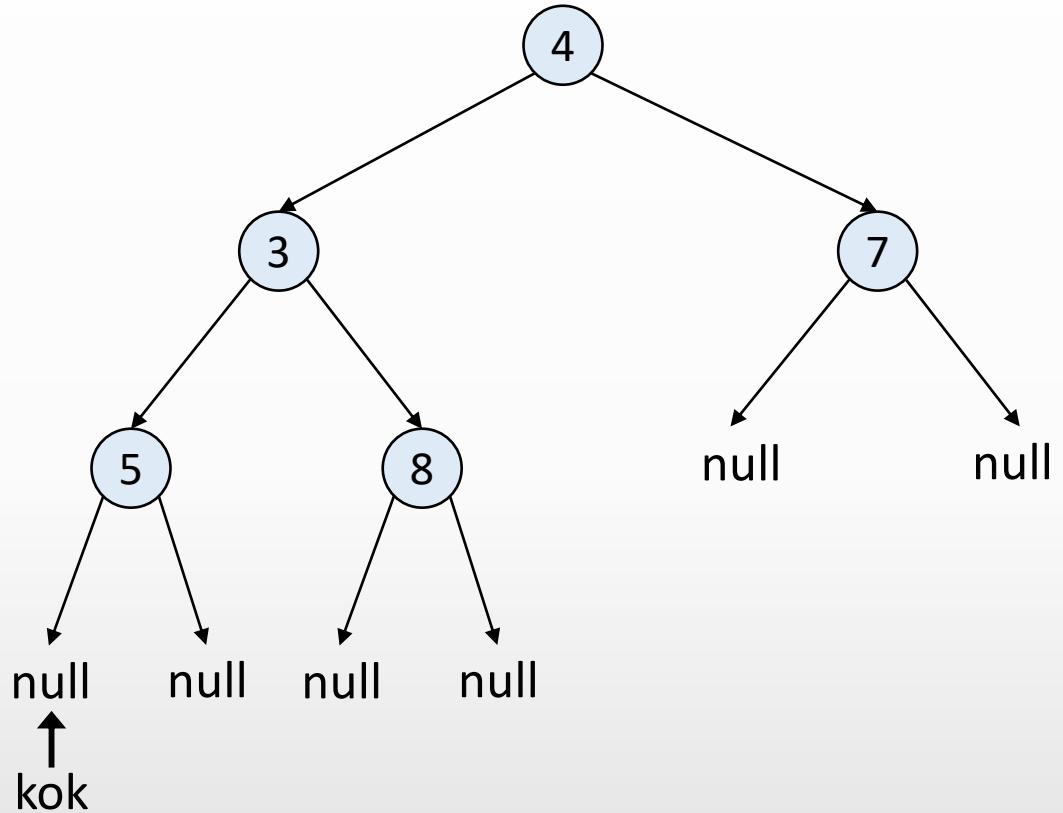
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul		5	5		

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



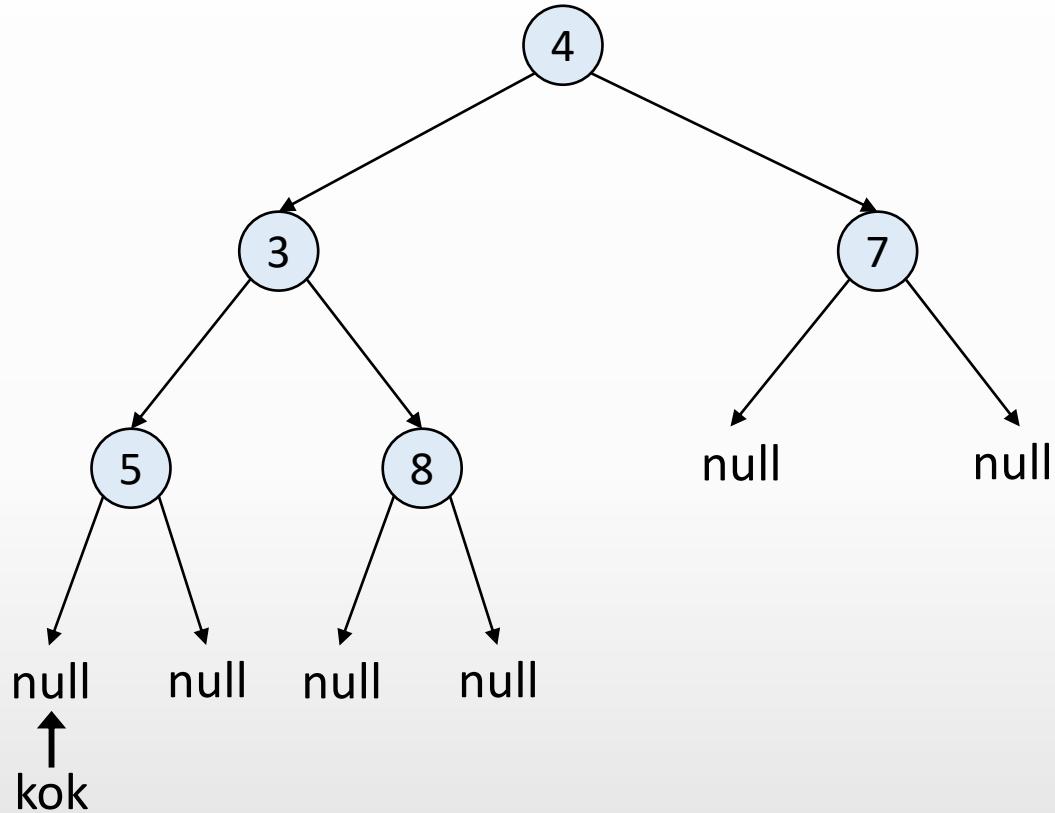
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

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



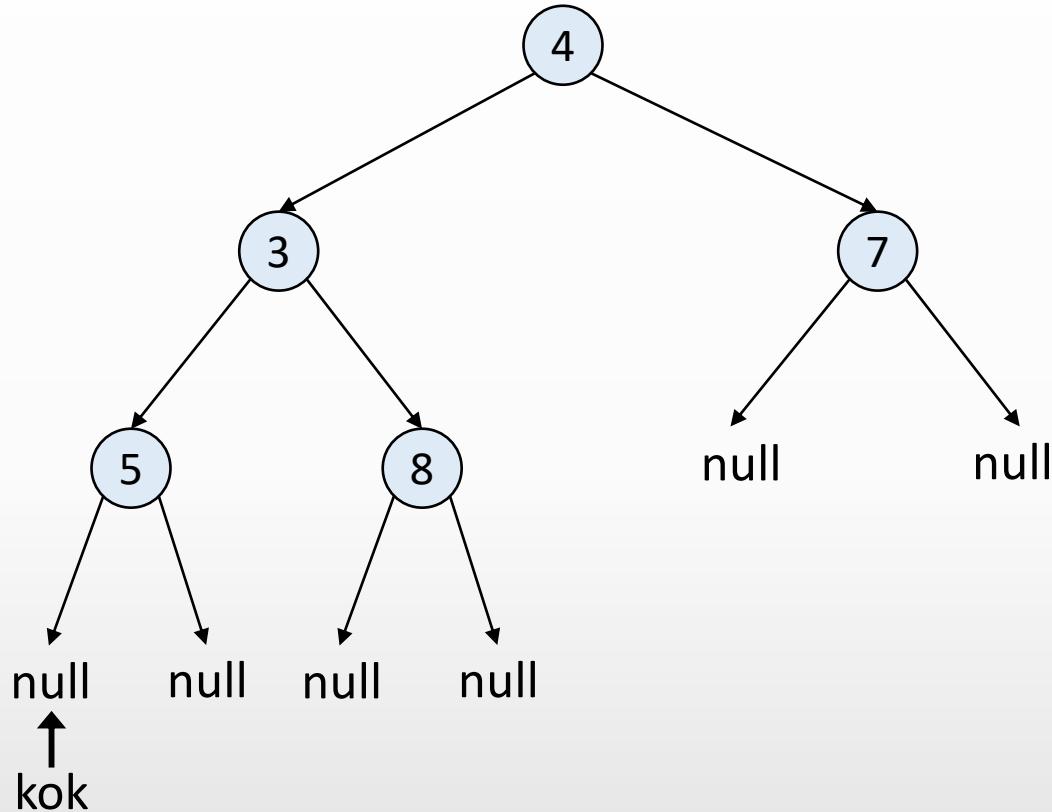
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		
enBuyukBul		null			

```
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);  
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9         sonuc = sol;  
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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			

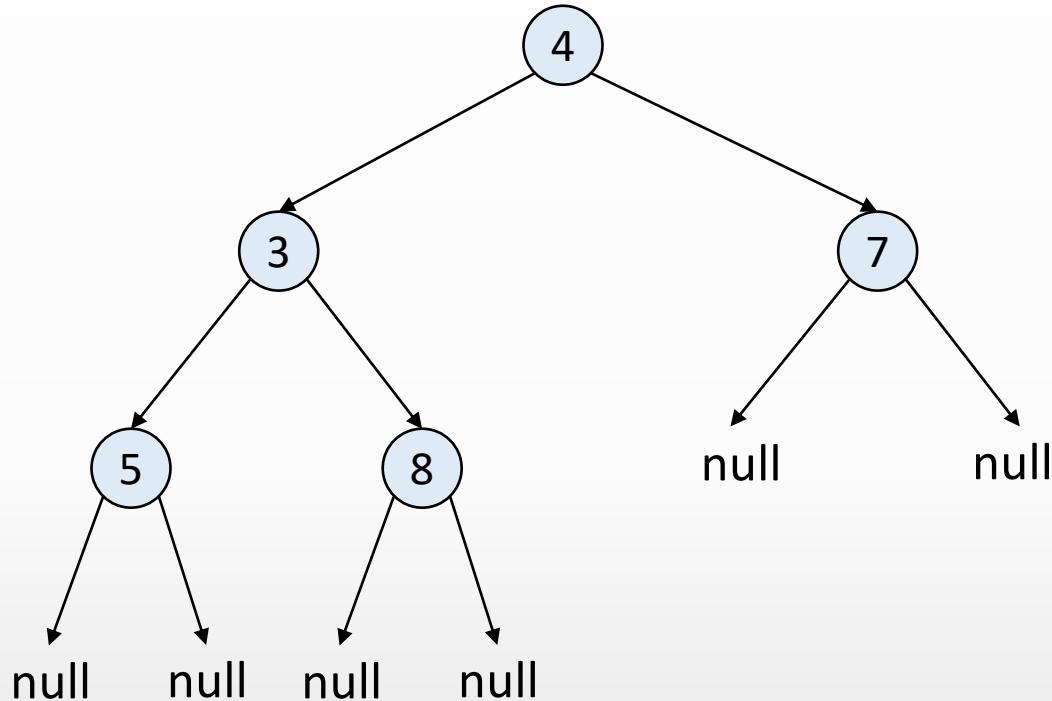
```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
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8     if(sol > sonuc)  
9         sonuc = sol;  
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11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



IMV = -2147483648

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

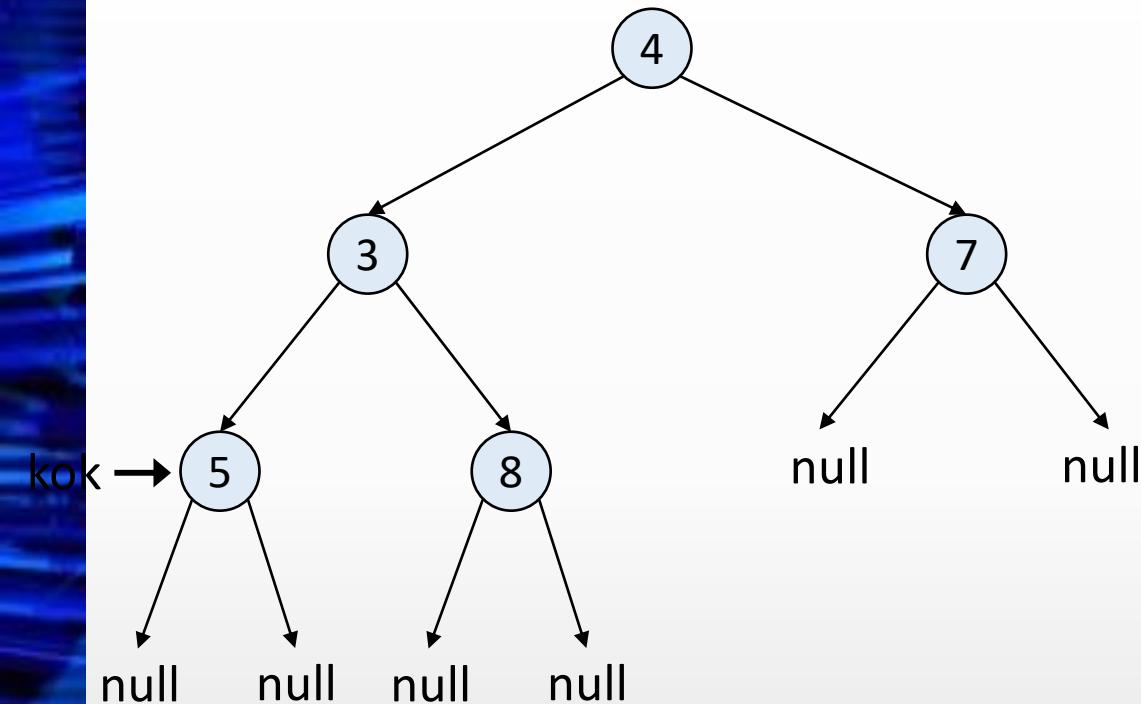
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1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
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4     }  
5     int sonuc = kok.veri;  
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7     int sag = enBuyukBul(kok.sag);  
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11        sonuc = sag;  
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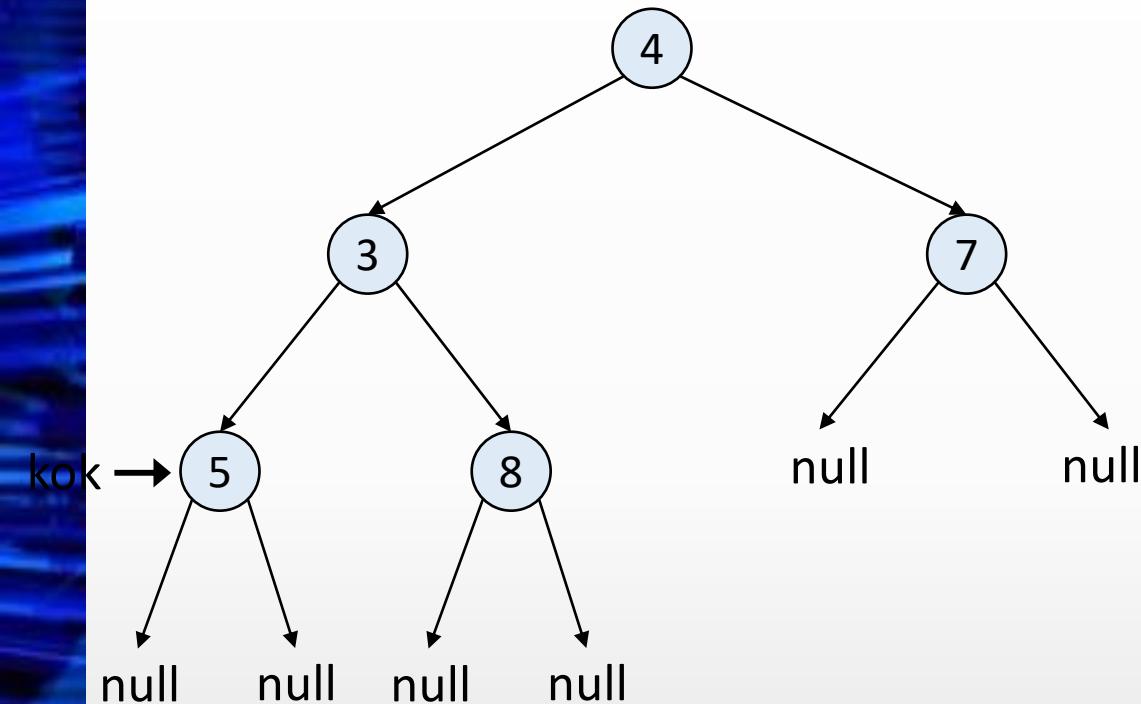
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	6	5	5		

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

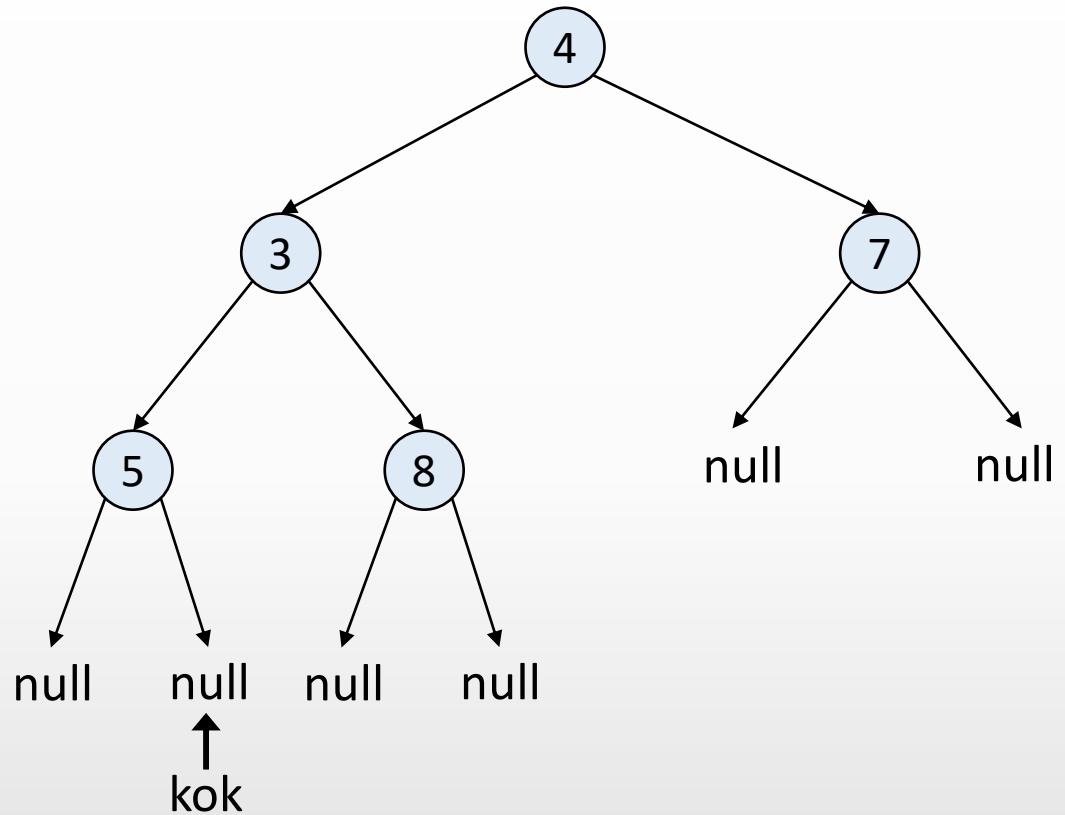
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	

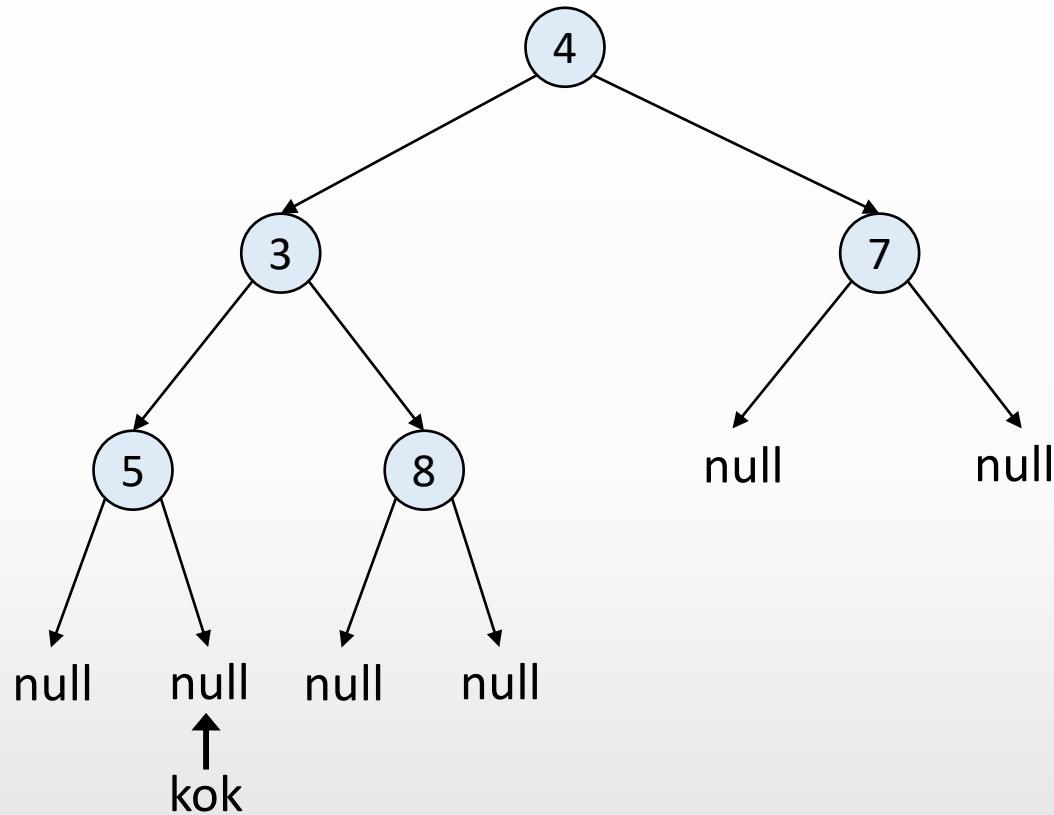
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metot çağrımı	satır no	kok	sonuc	sol	sag
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enBuyukBul	7	5	5	IMV	
enBuyukBul		null			

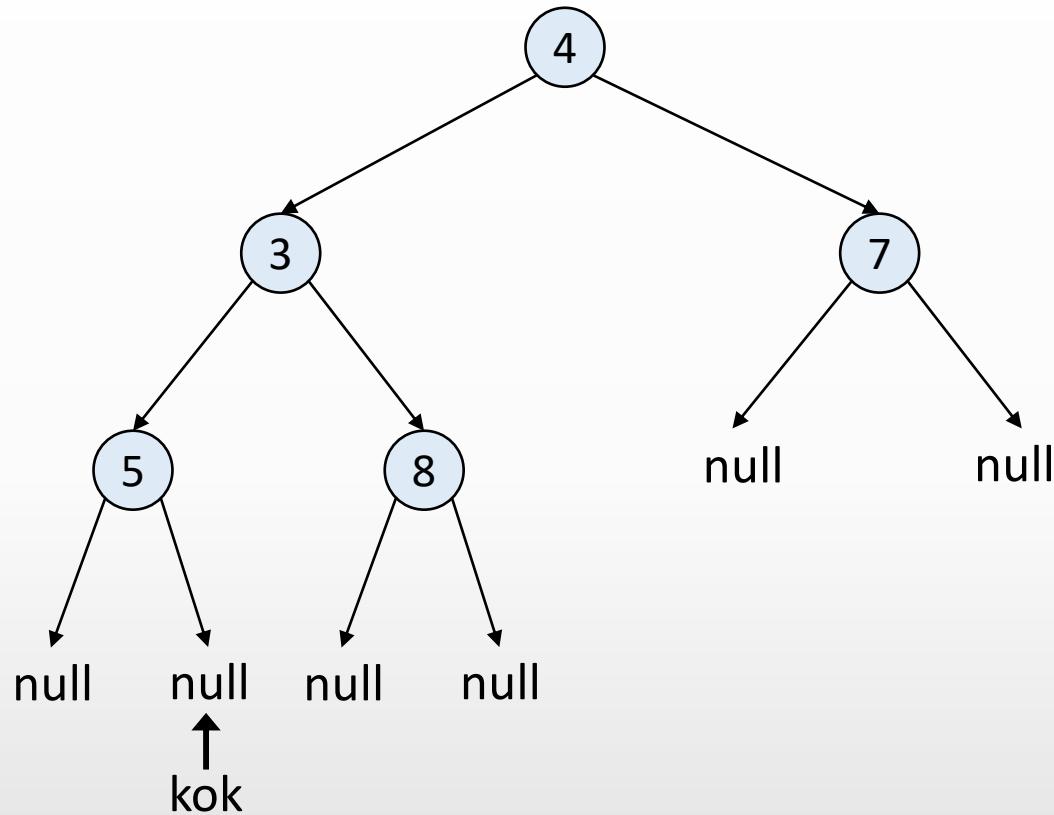
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	
enBuyukBul		null			

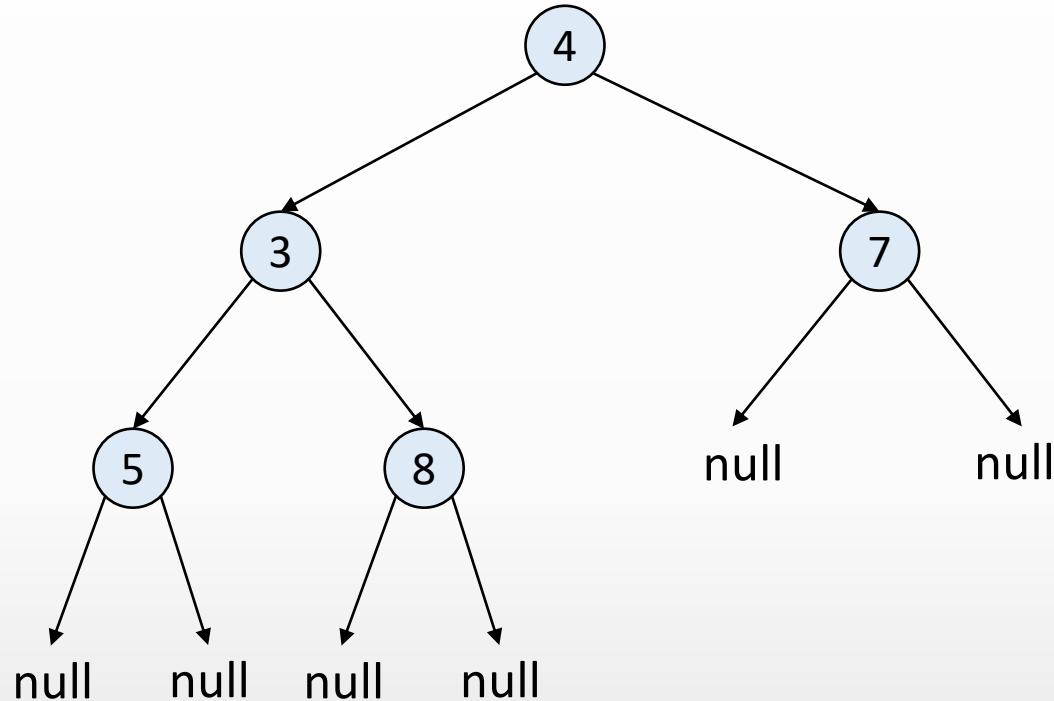
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	
enBuyukBul		null			

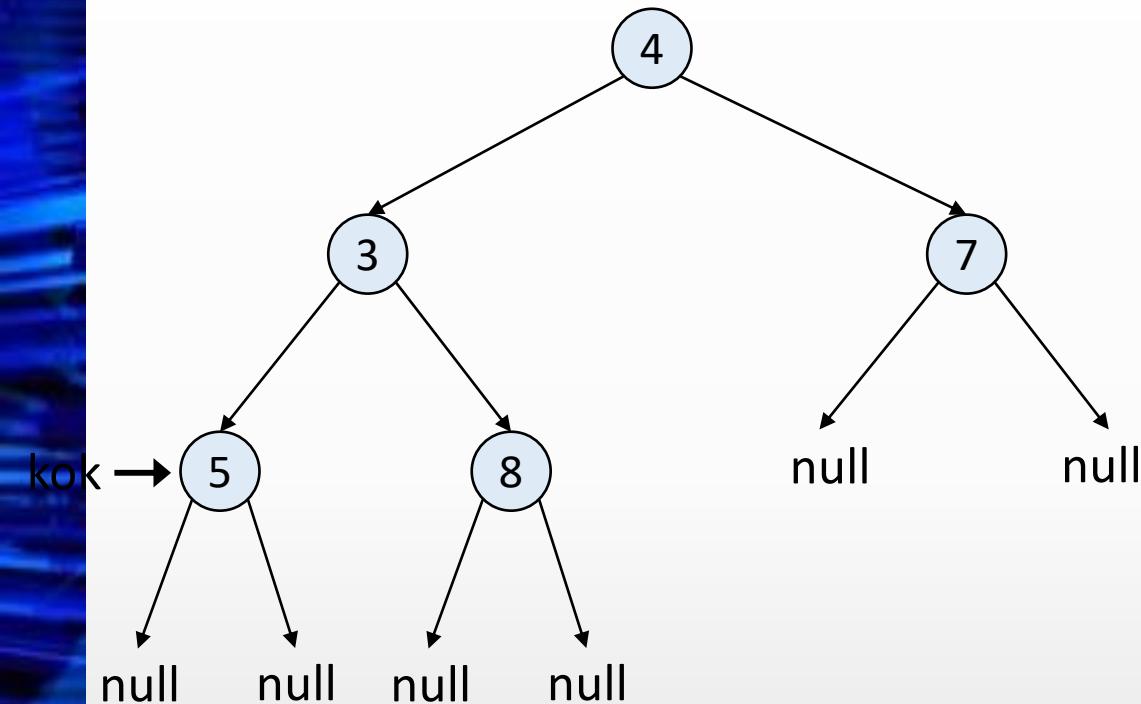
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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enBuyukBul	7	5	5	IMV	

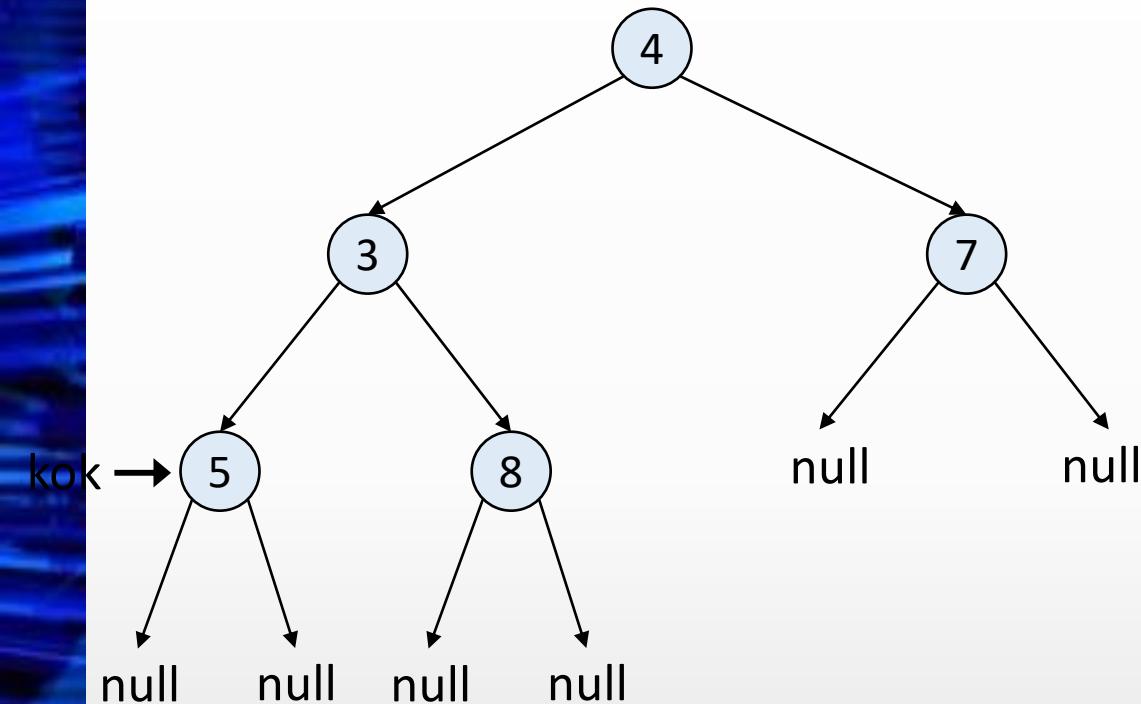
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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enBuyukBul	7	5	5	IMV	IMV

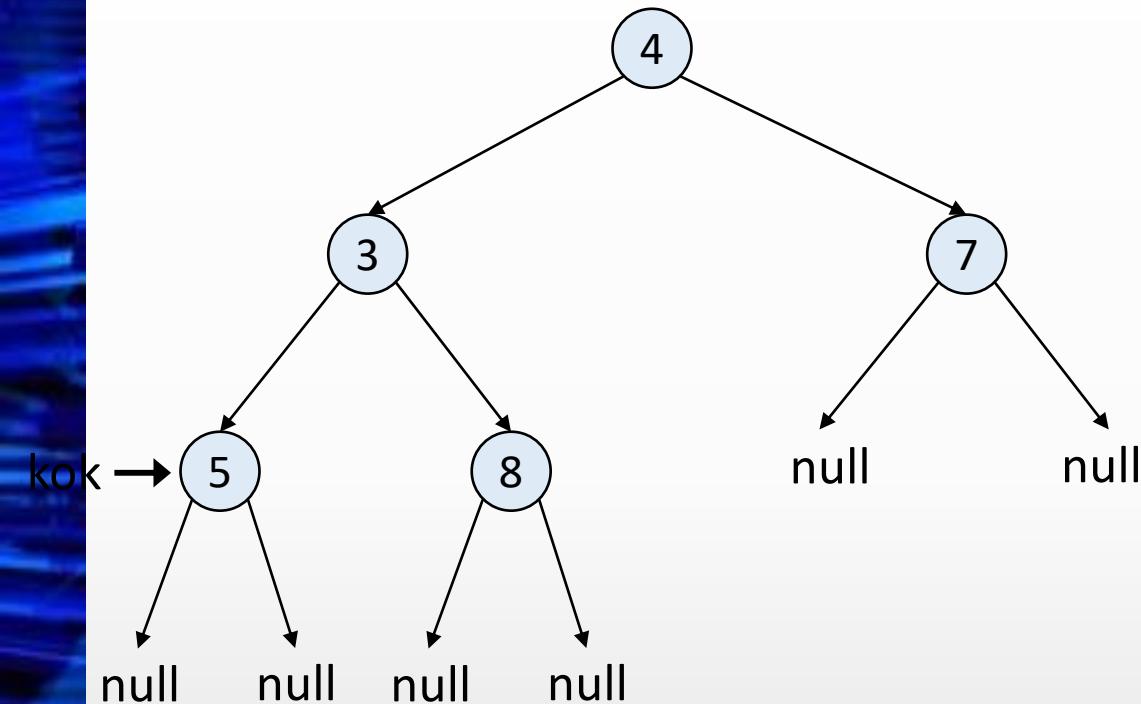
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IMV = -2147483648

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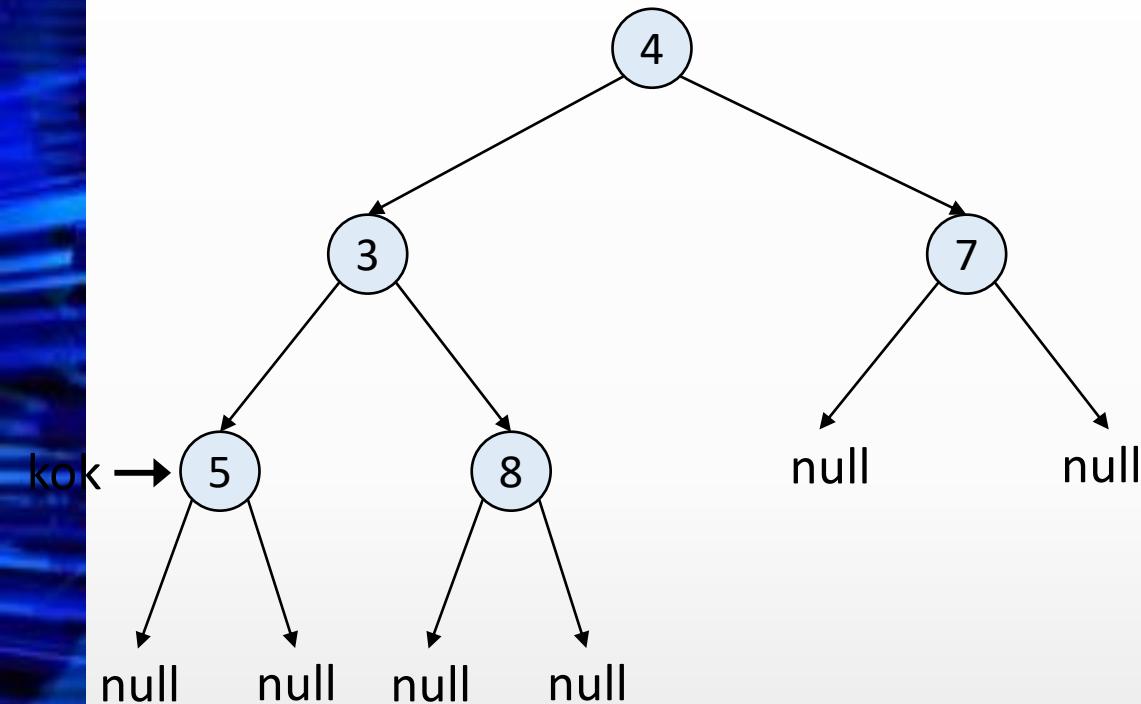
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
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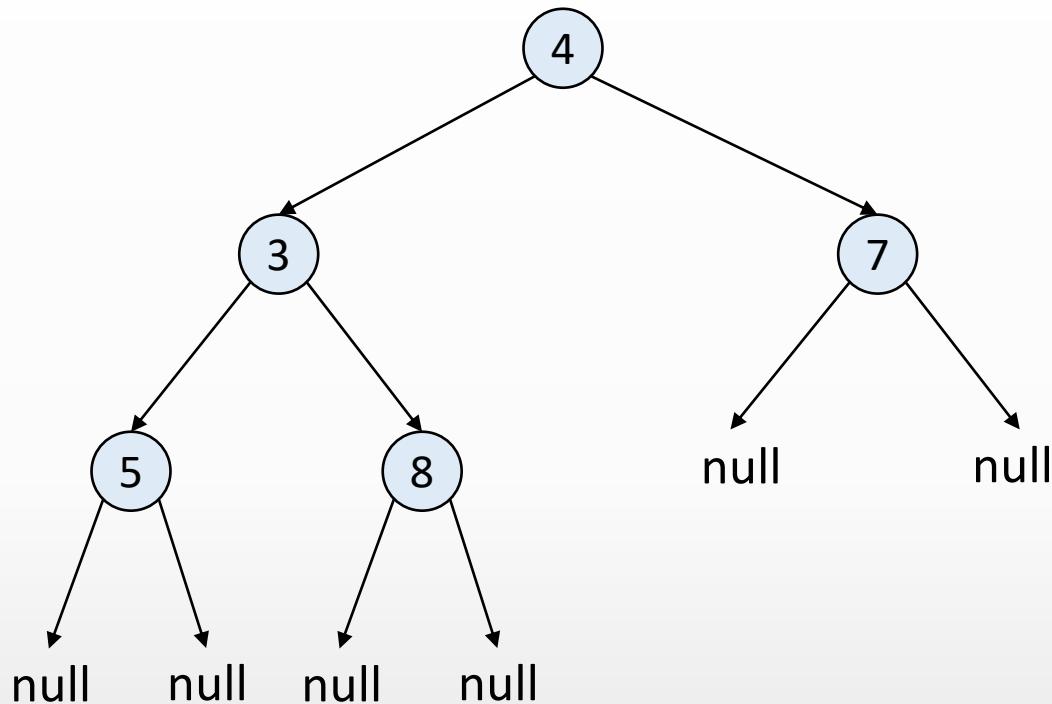
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		
enBuyukBul	7	5	5	IMV	IMV



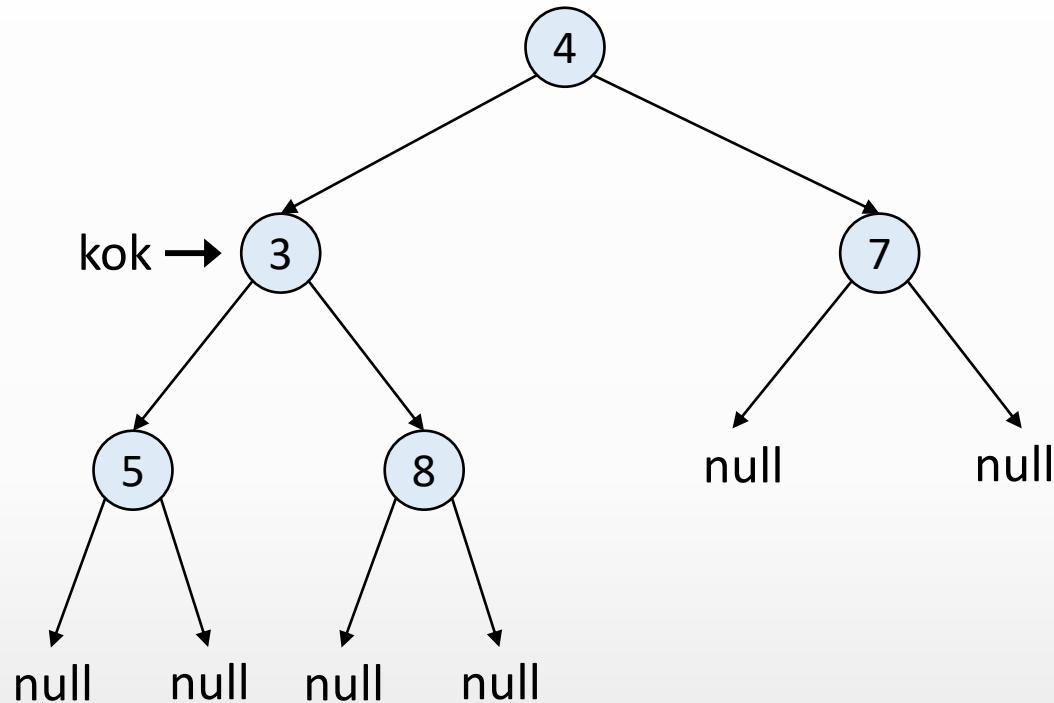
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	6	3	3		

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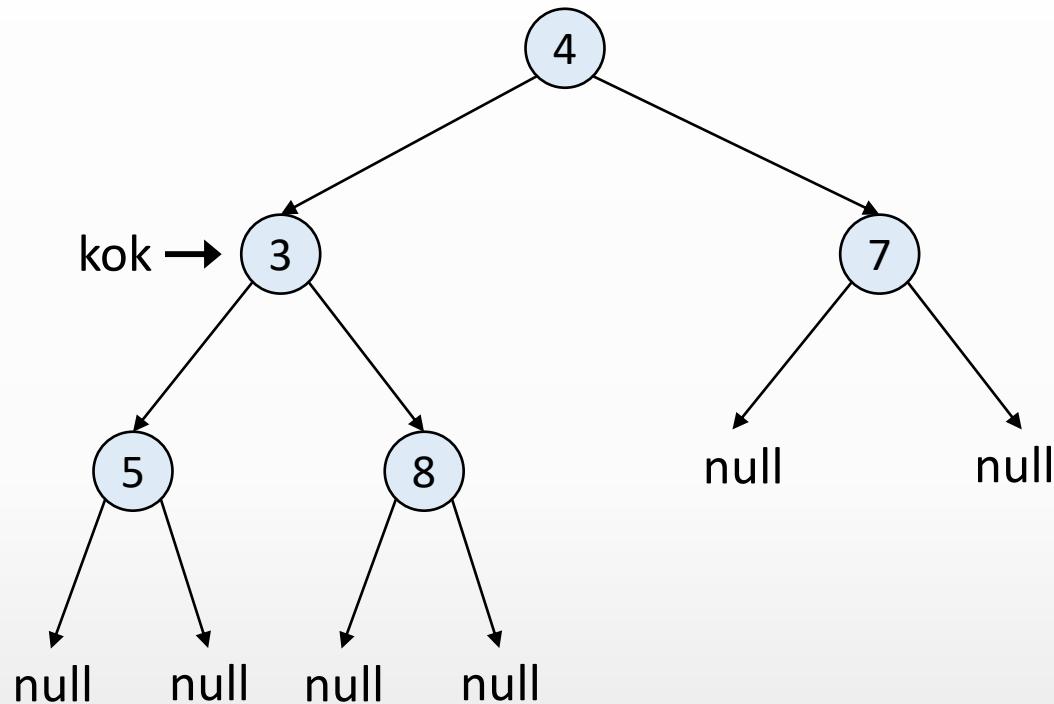


IMV = -2147483648

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

→

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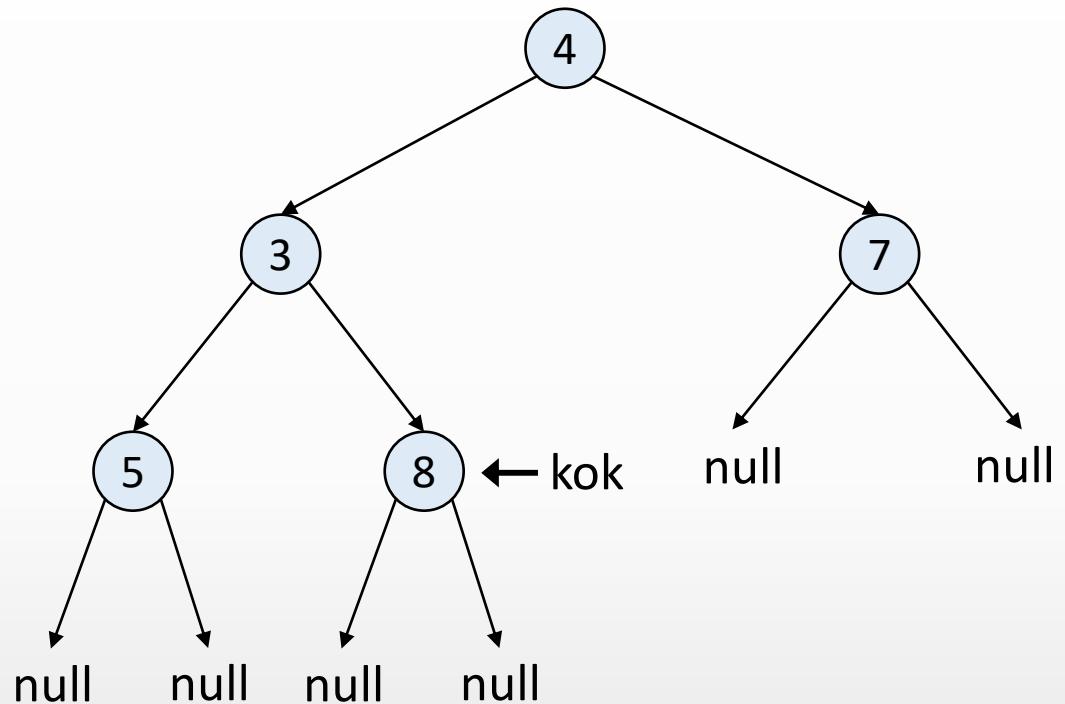
IMV = -2147483648



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



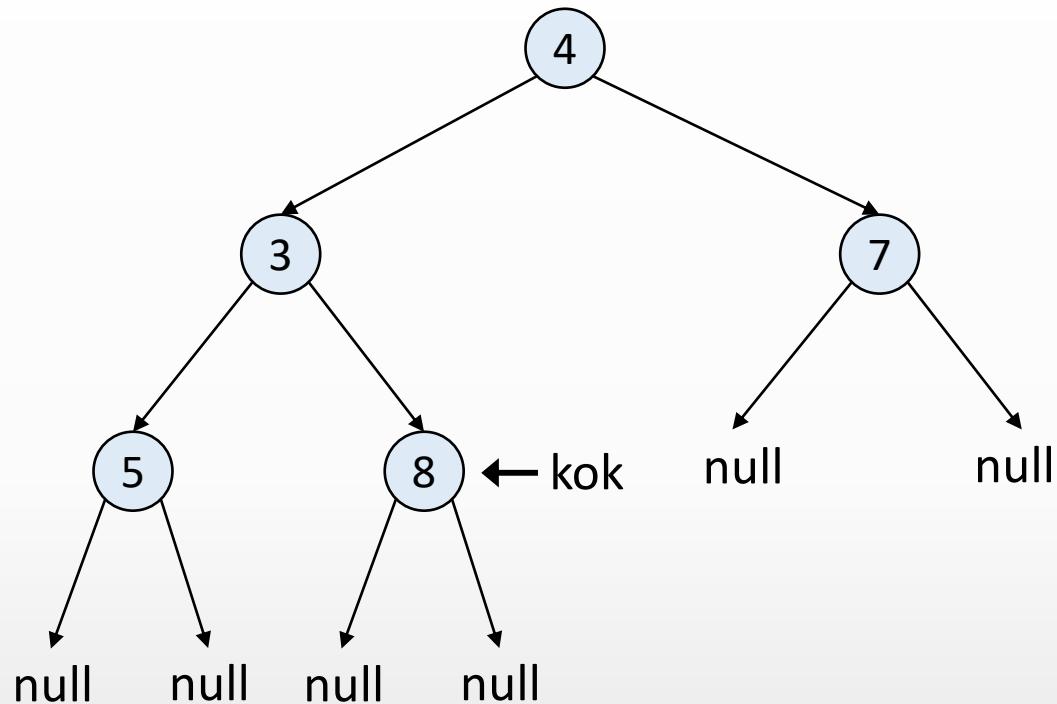
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
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enBuyukBul		8			

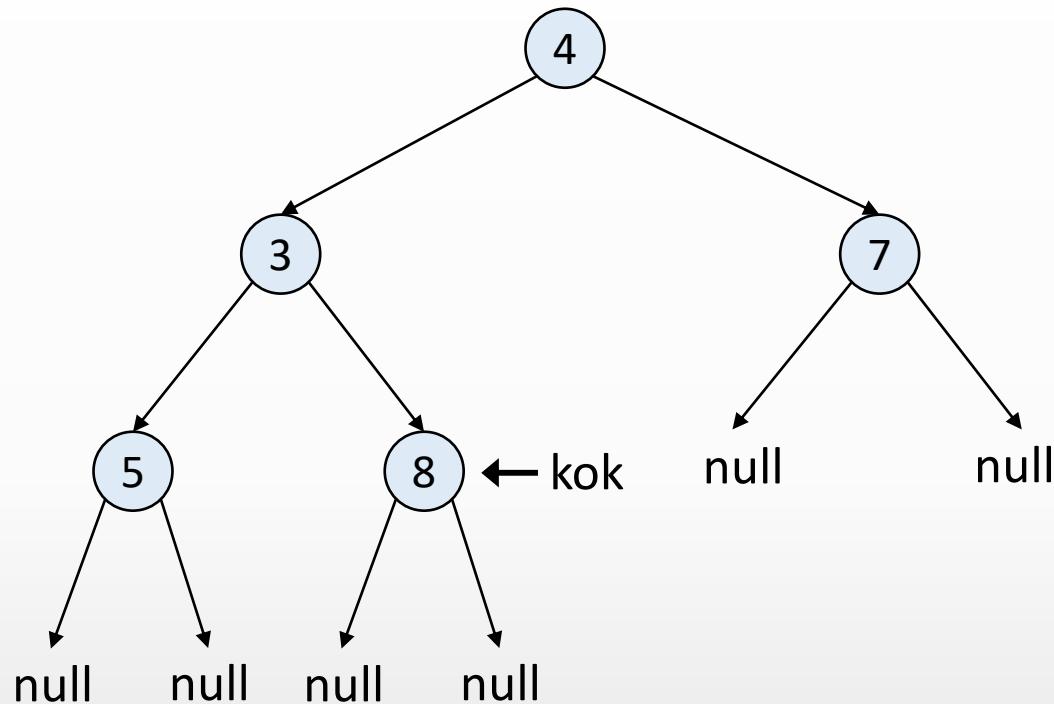
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metot çağrımı	satır no	kok	sonuc	sol	sag
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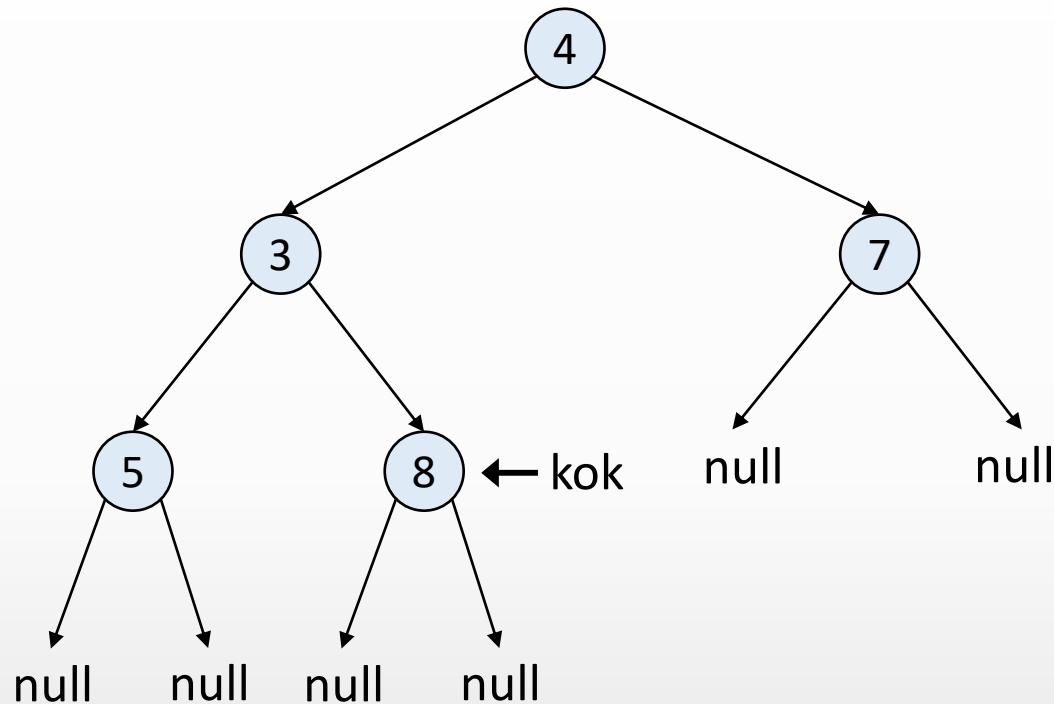
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metot çağrımı	satır no	kok	sonuc	sol	sag
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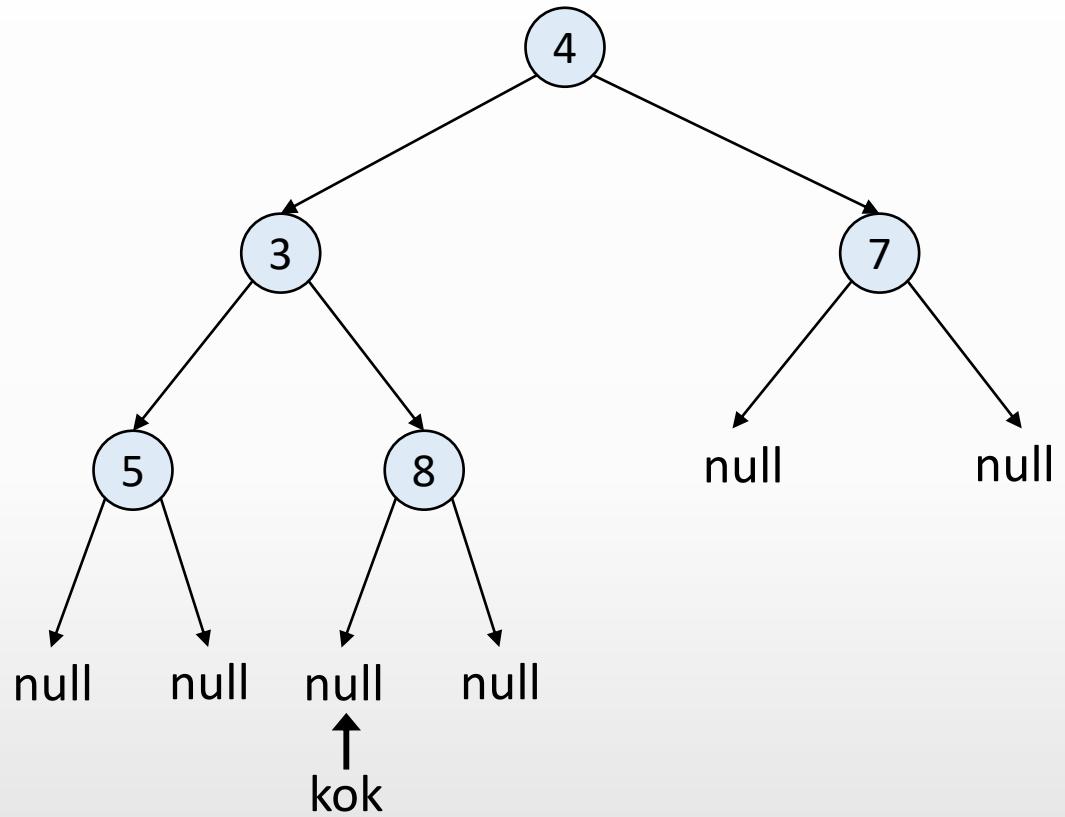
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metot çağrımı	satır no	kok	sonuc	sol	sag
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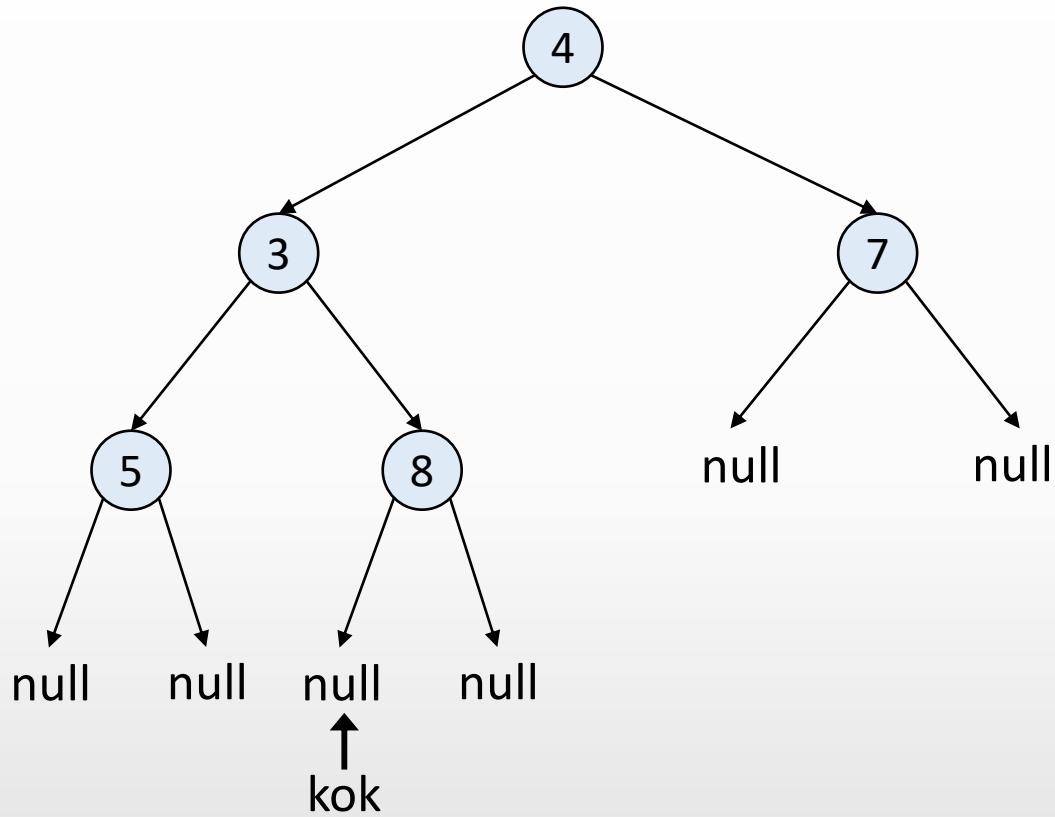
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metot çağrımı	satır no	kok	sonuc	sol	sag
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enBuyukBul	6	8	8		
enBuyukBul		null			

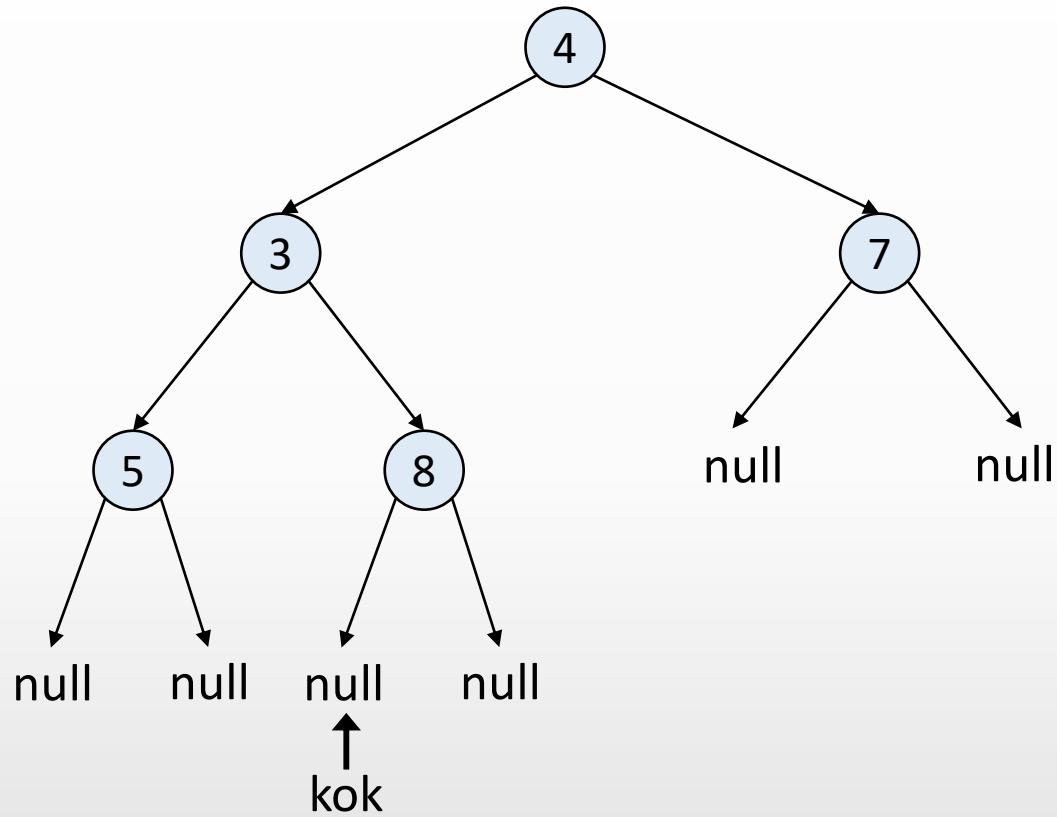
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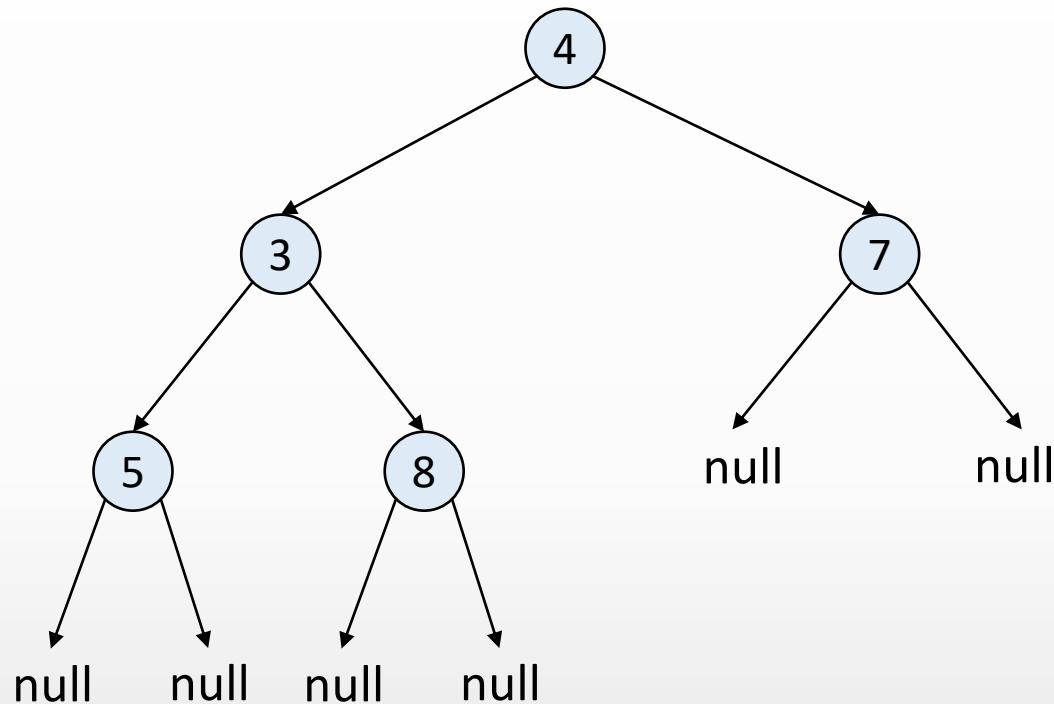
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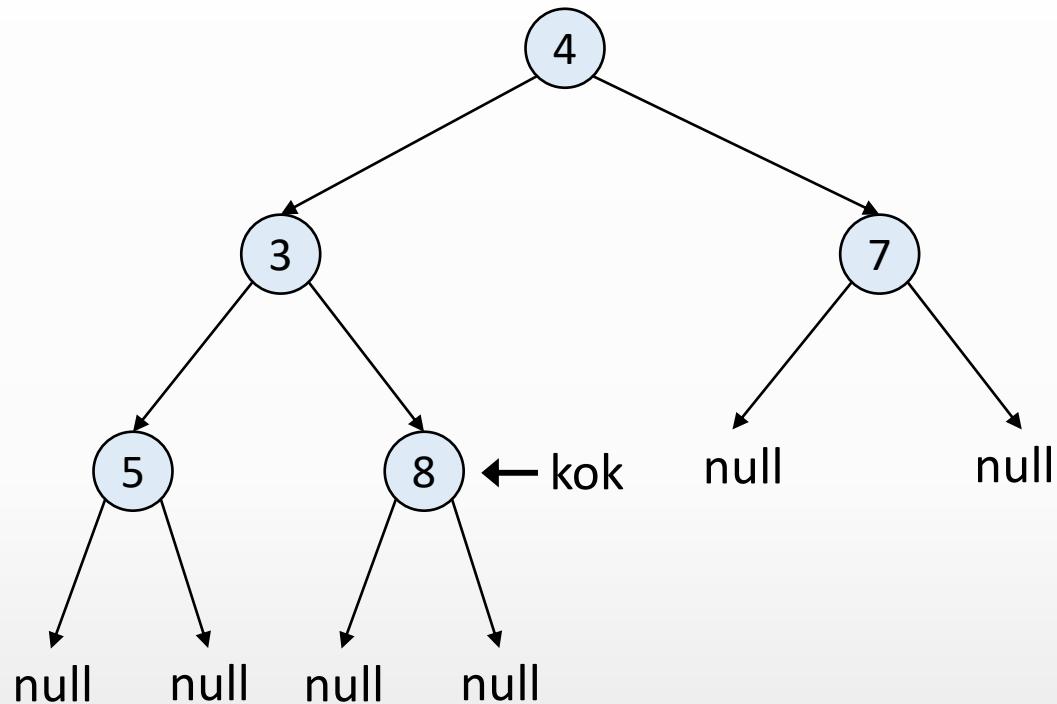
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metot çağrımı	satır no	kok	sonuc	sol	sag
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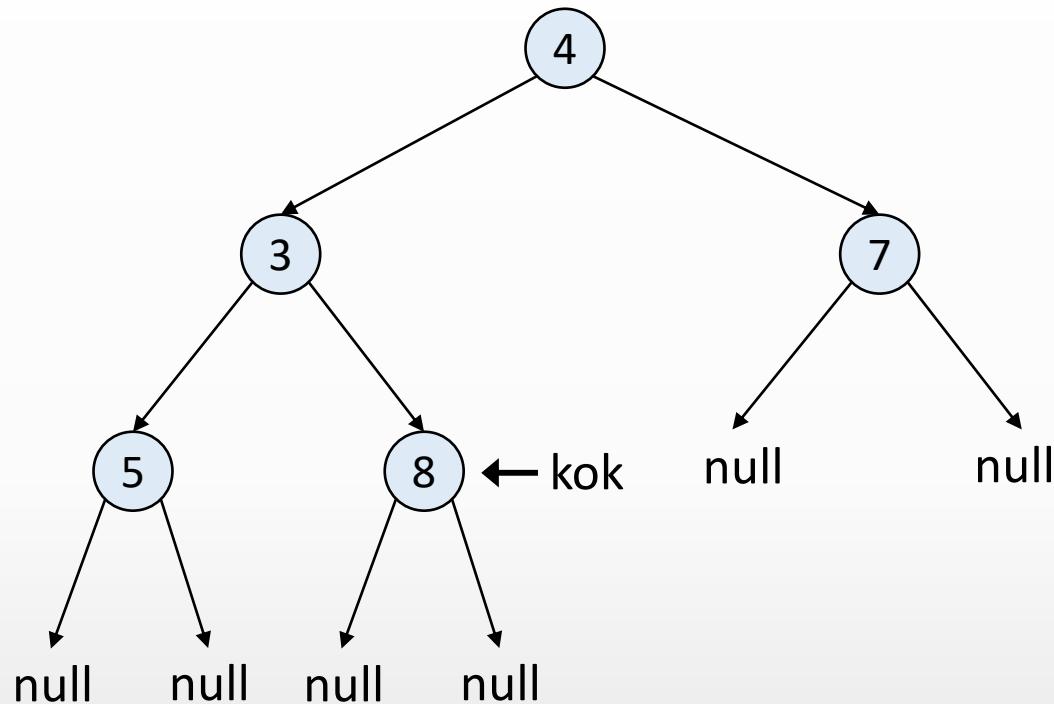
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		
enBuyukBul	7	3	3	5	
enBuyukBul	6	8	8	IMV	

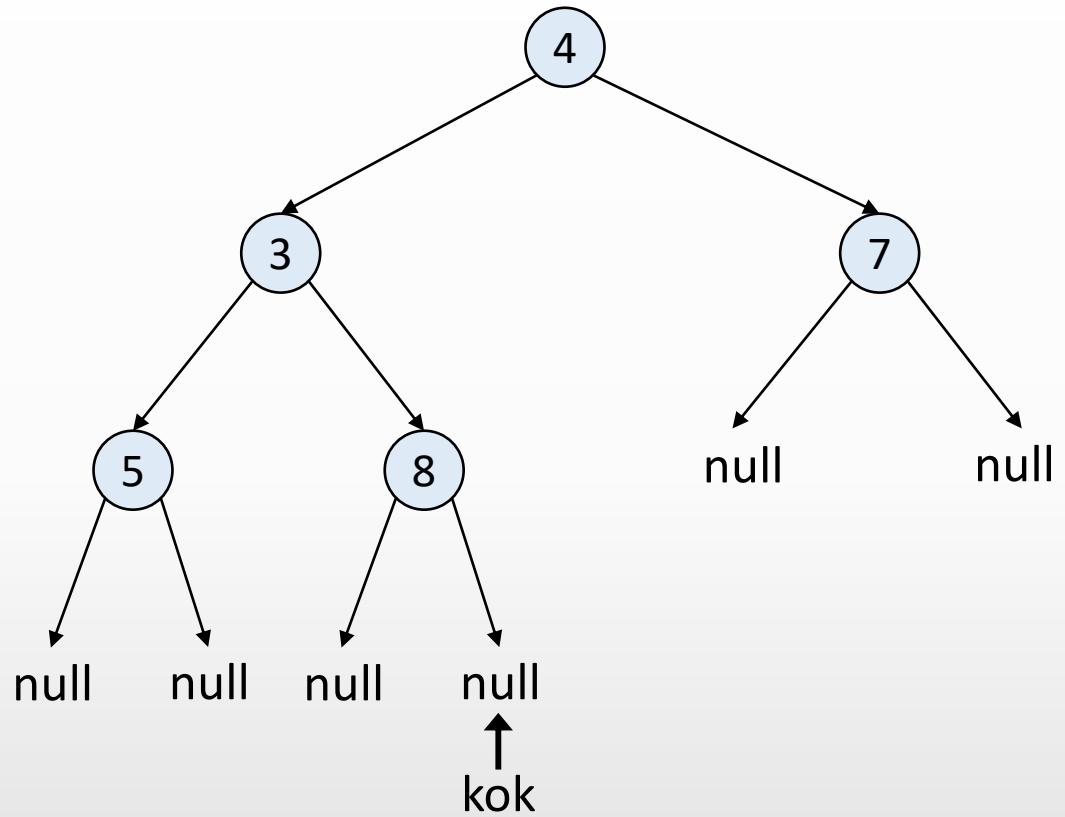
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metot çağrımı	satır no	kok	sonuc	sol	sag
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enBuyukBul	7	8	8	IMV	

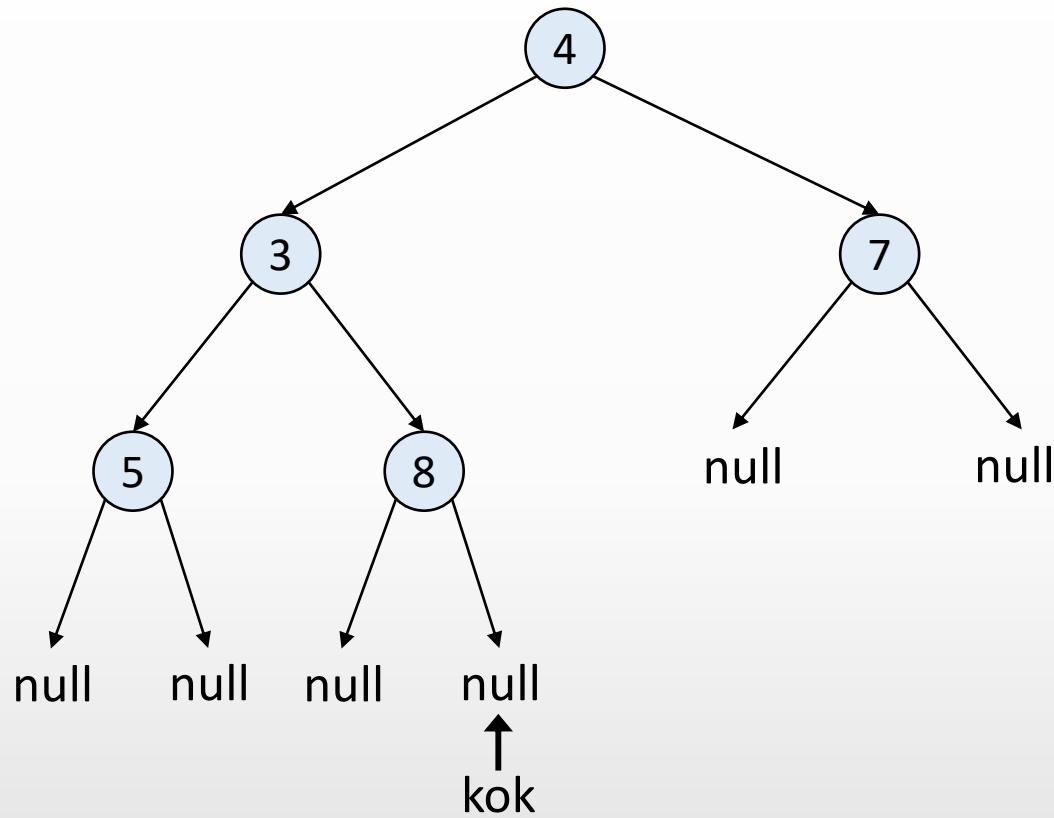
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enBuyukBul	6	4	4		
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enBuyukBul	7	8	8	IMV	
enBuyukBul		null			

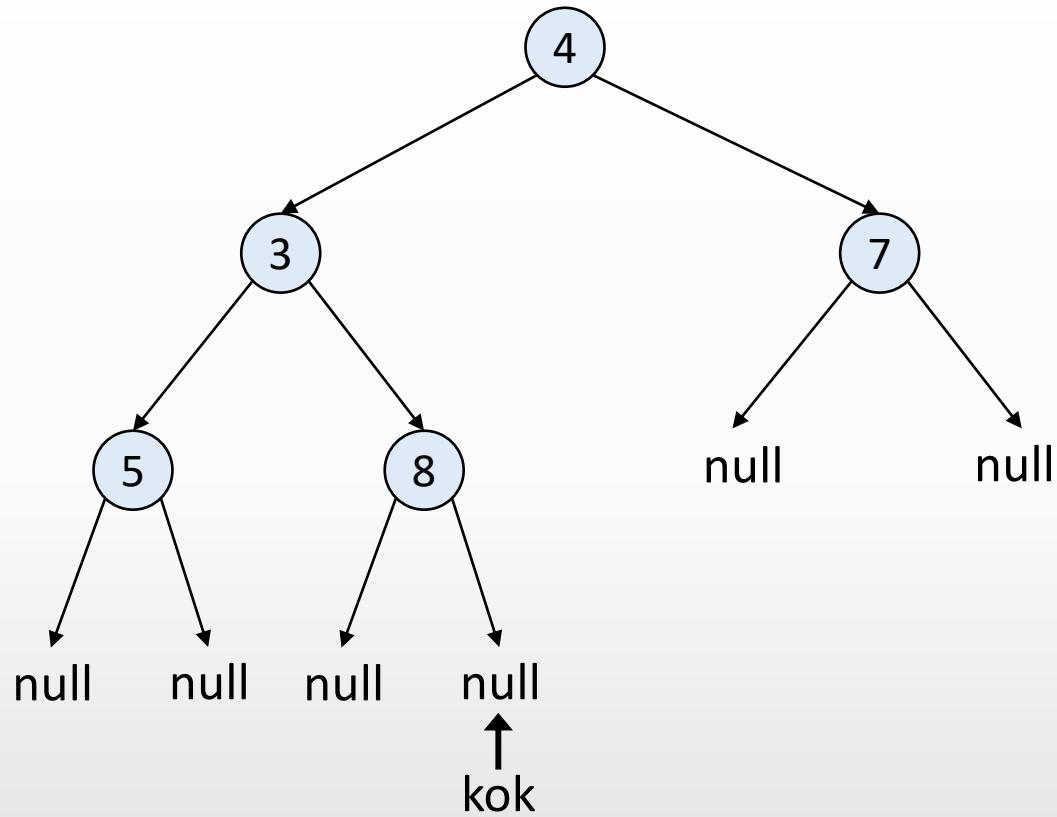
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enBuyukBul	7	8	8	IMV	
enBuyukBul		null			

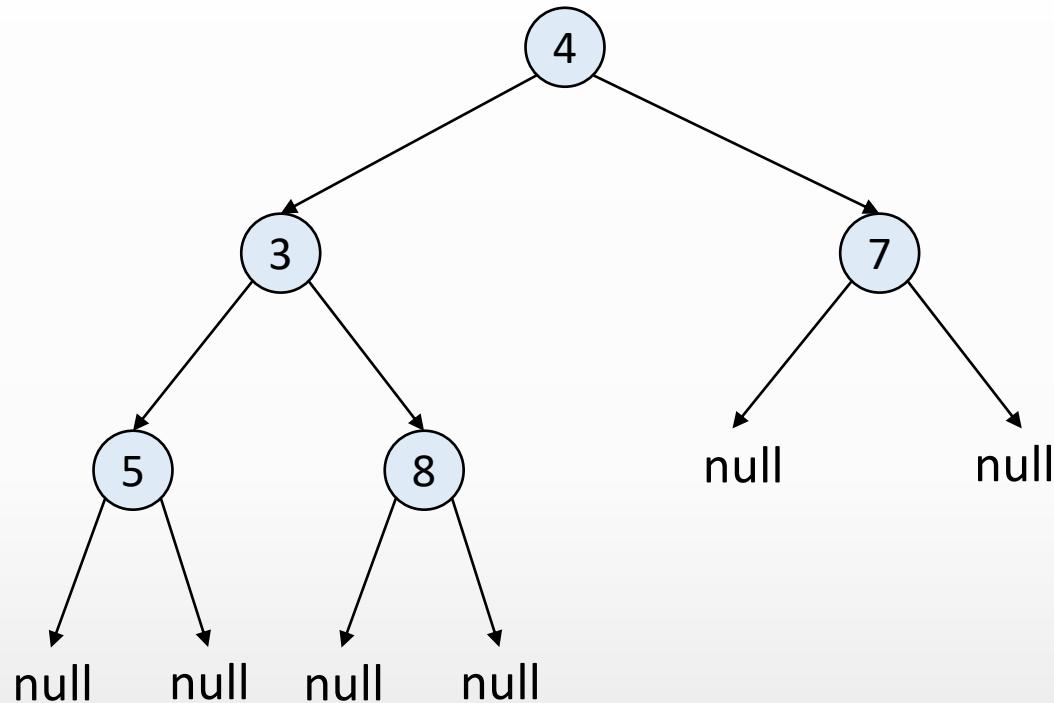
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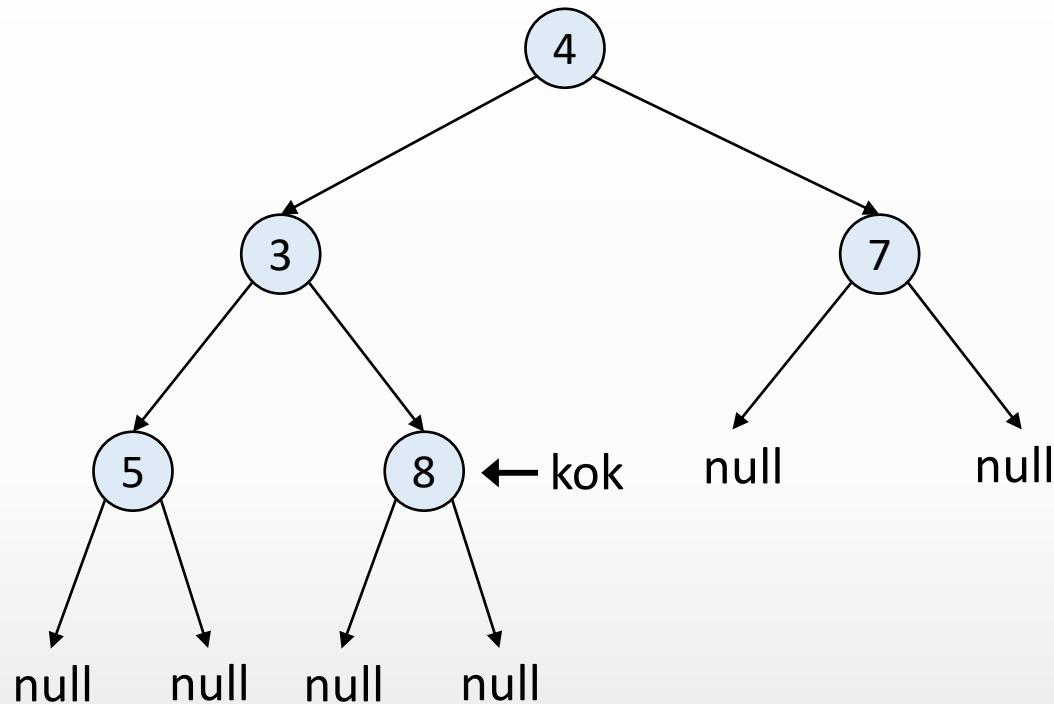
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metot çağrımı	satır no	kok	sonuc	sol	sag
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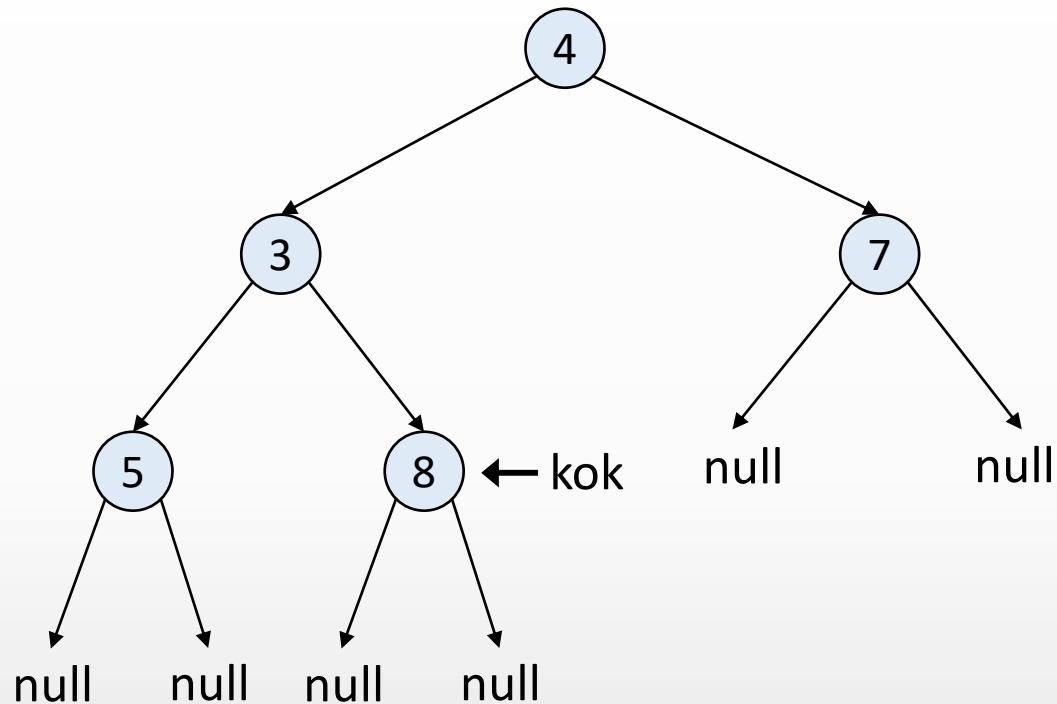
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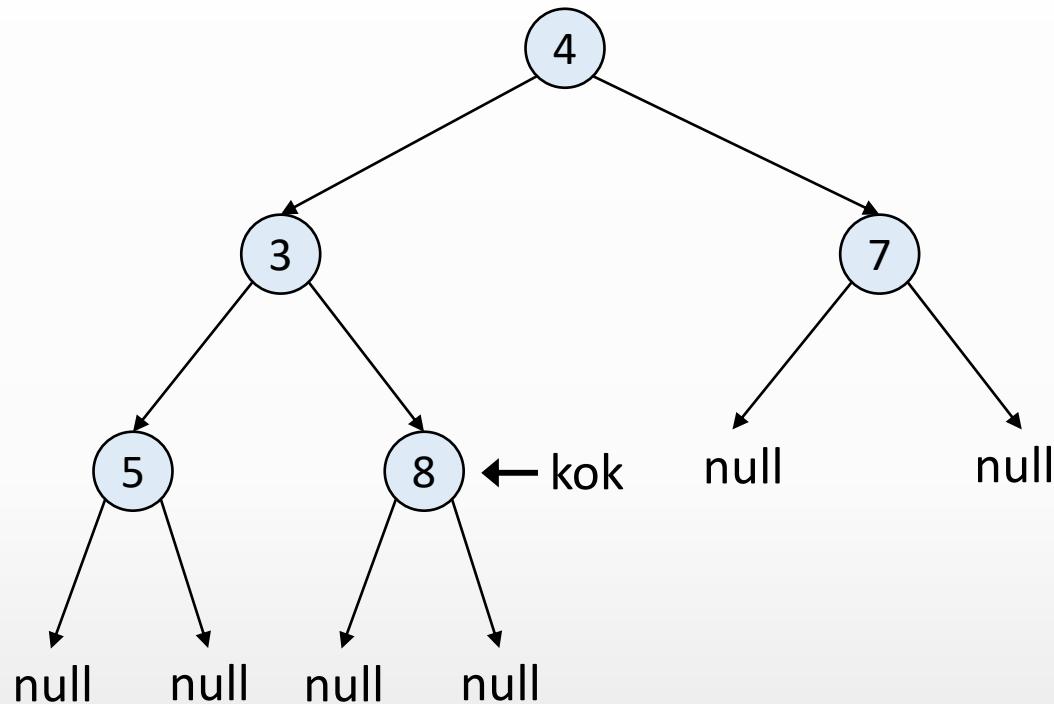


IMV = -2147483648



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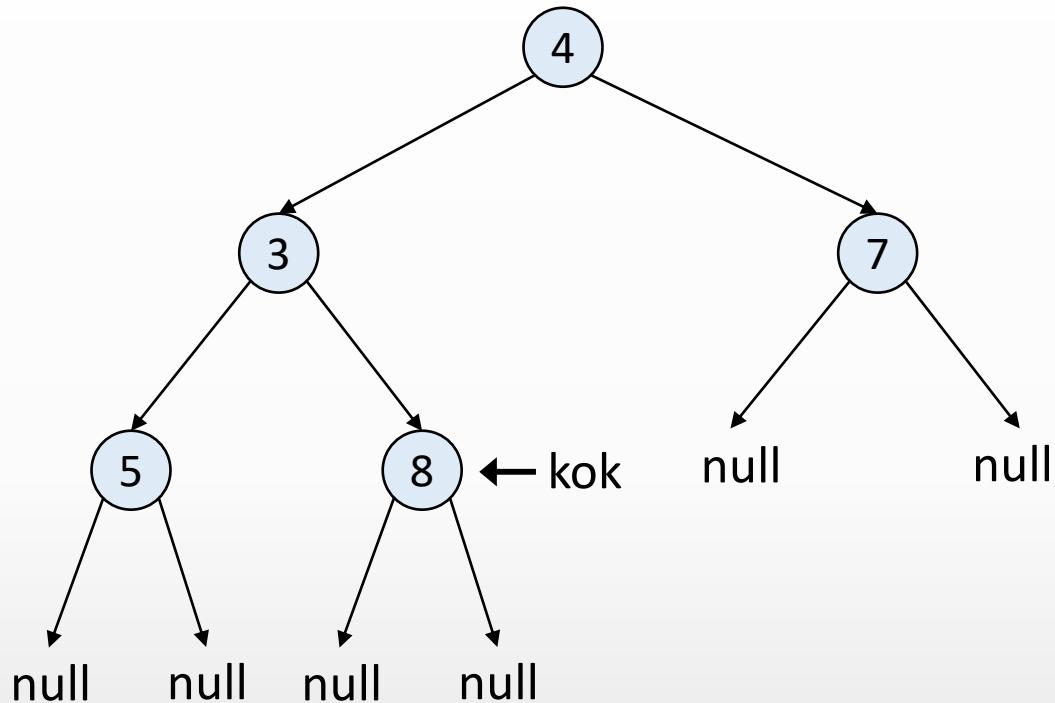
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metot çağrımı	satır no	kok	sonuc	sol	sag
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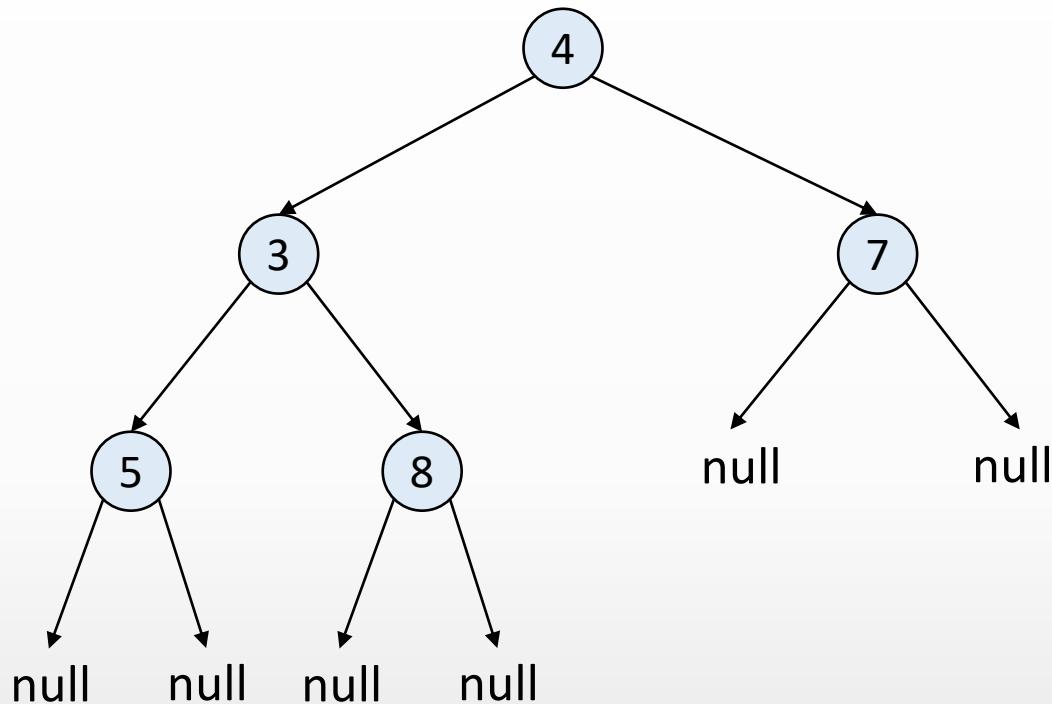
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metot çağrımı	satır no	kok	sonuc	sol	sag
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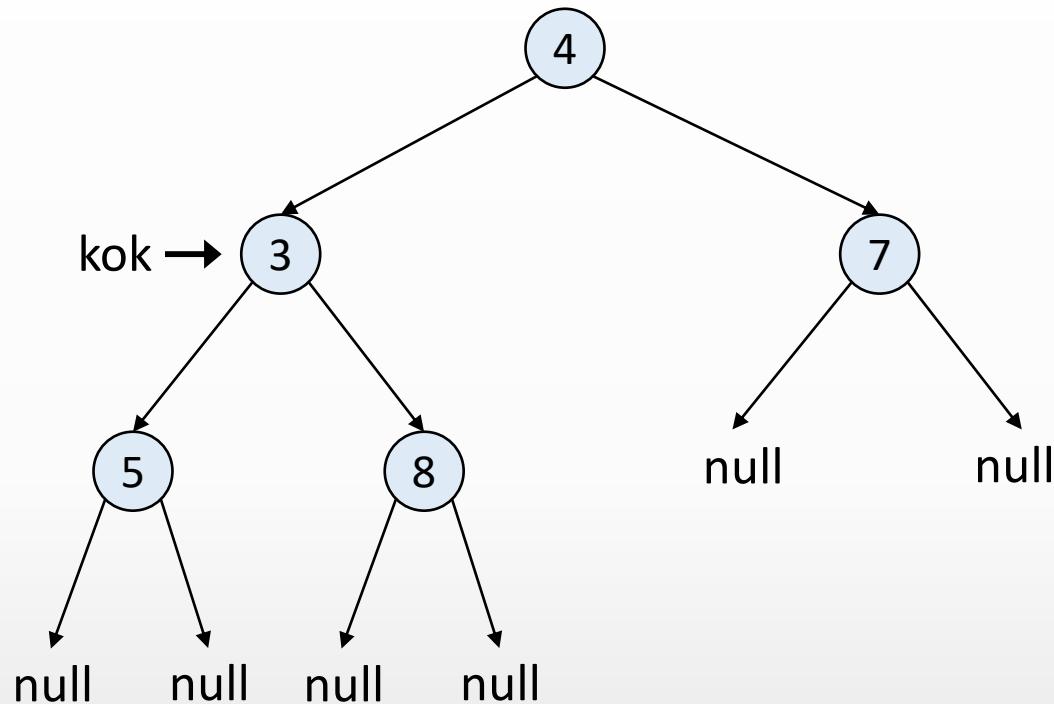
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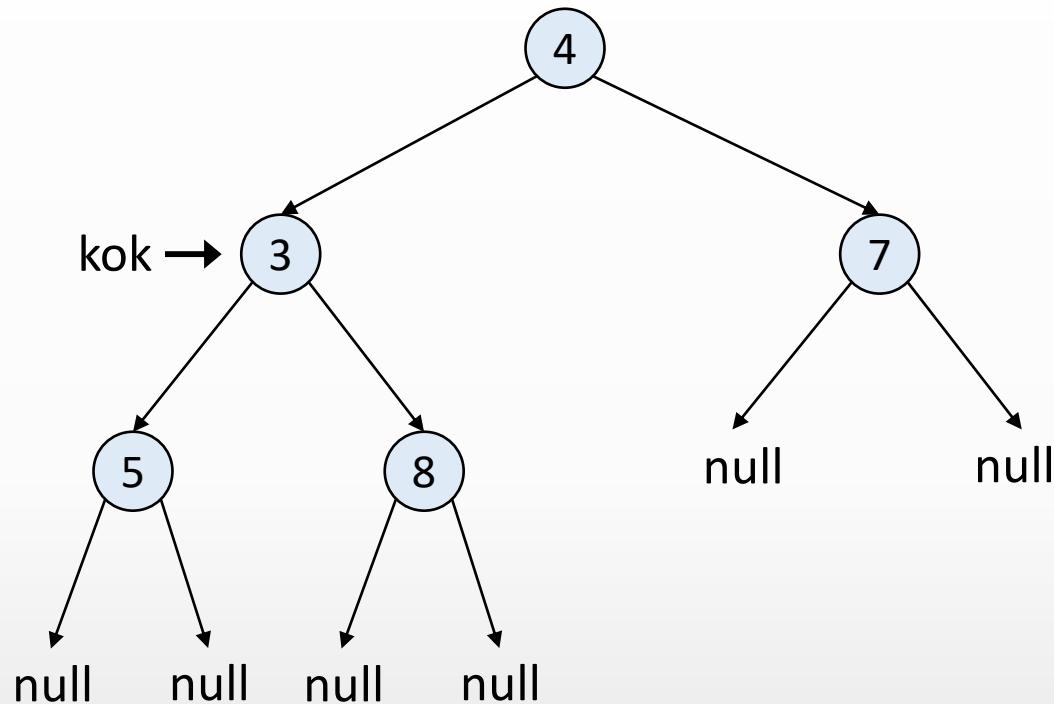


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metot çağrımı	satır no	kok	sonuc	sol	sag
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→

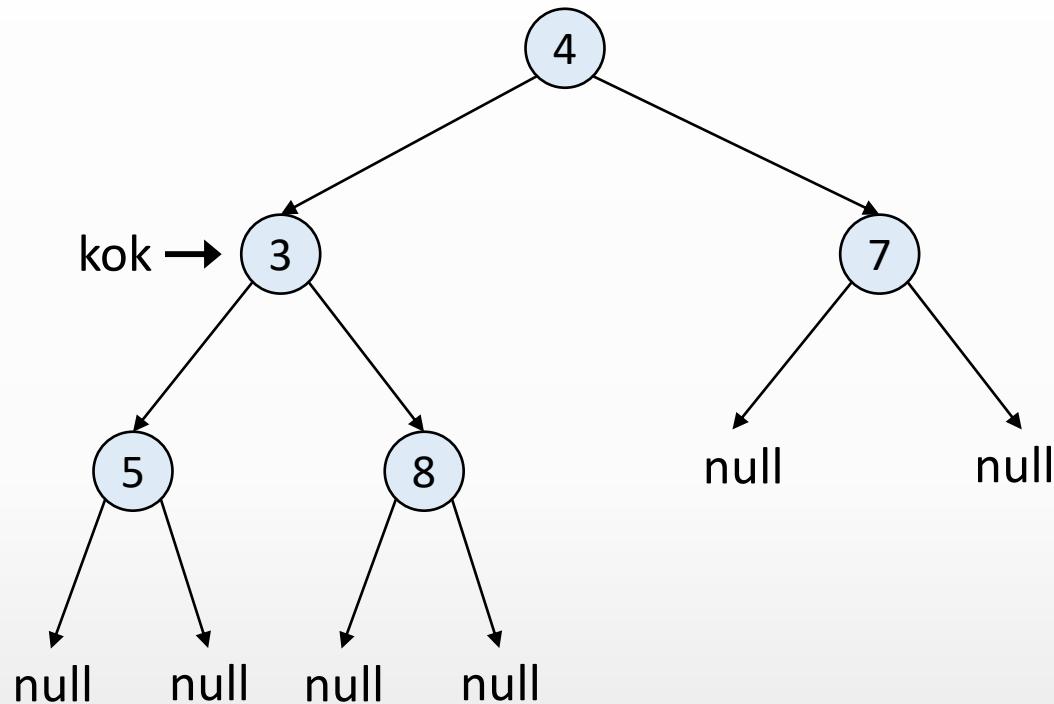
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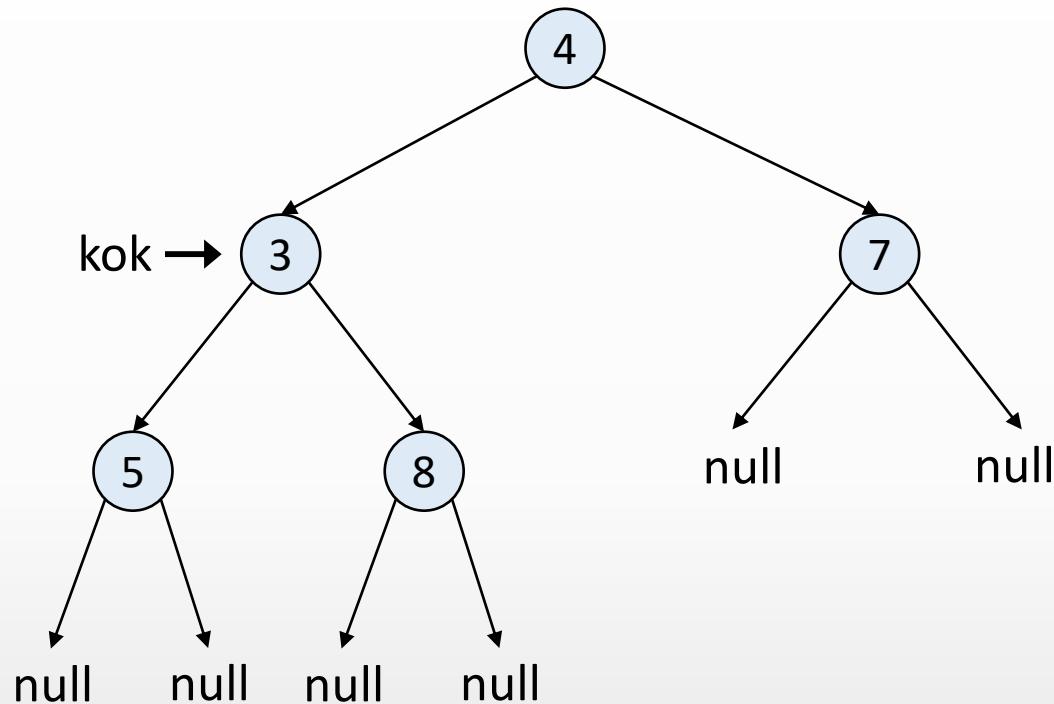
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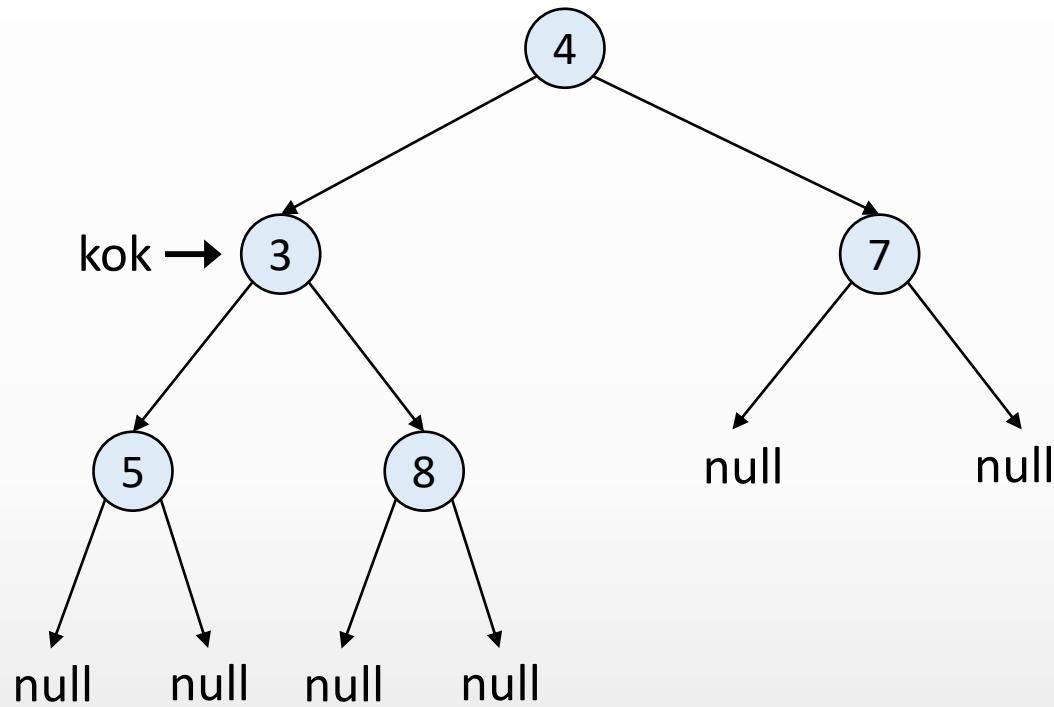
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metot çağrımı	satır no	kok	sonuc	sol	sag
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8     if(sol > sonuc)  
9         sonuc = sol;  
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12    return sonuc;  
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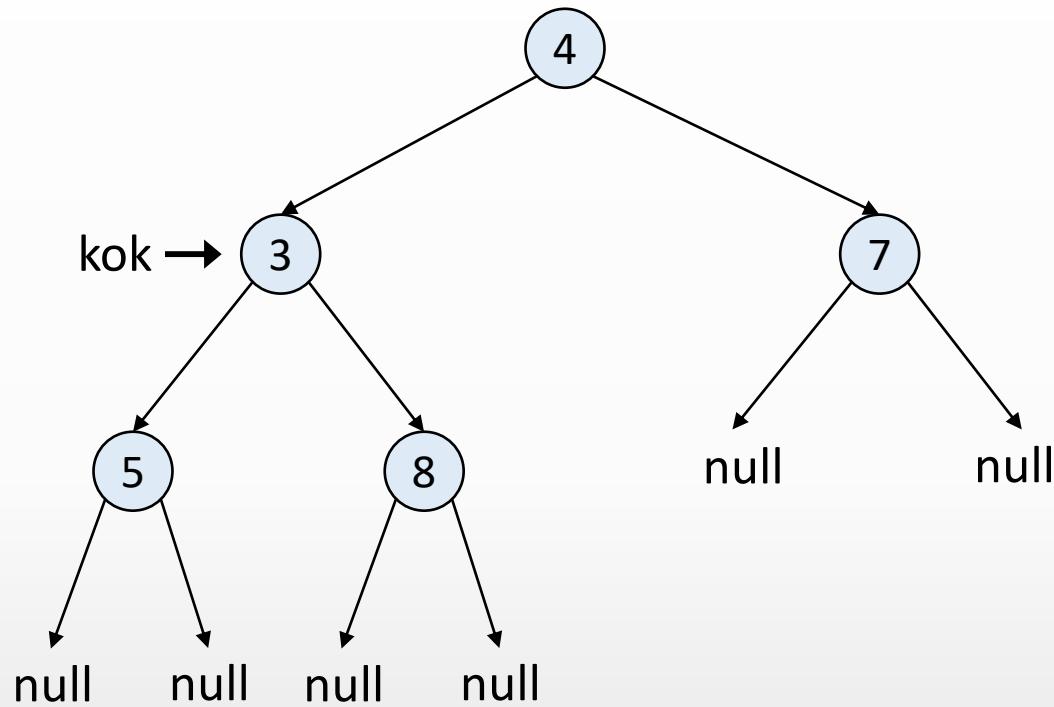
IMV = -2147483648



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



```
1 public int enBuyukBul(AgacDugumu kok) {  
2     if(kok == null) {  
3         return Integer.MIN_VALUE;  
4     }  
5     int sonuc = kok.veri;  
6     int sol = enBuyukBul(kok.sol);  
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8     if(sol > sonuc)  
9         sonuc = sol;  
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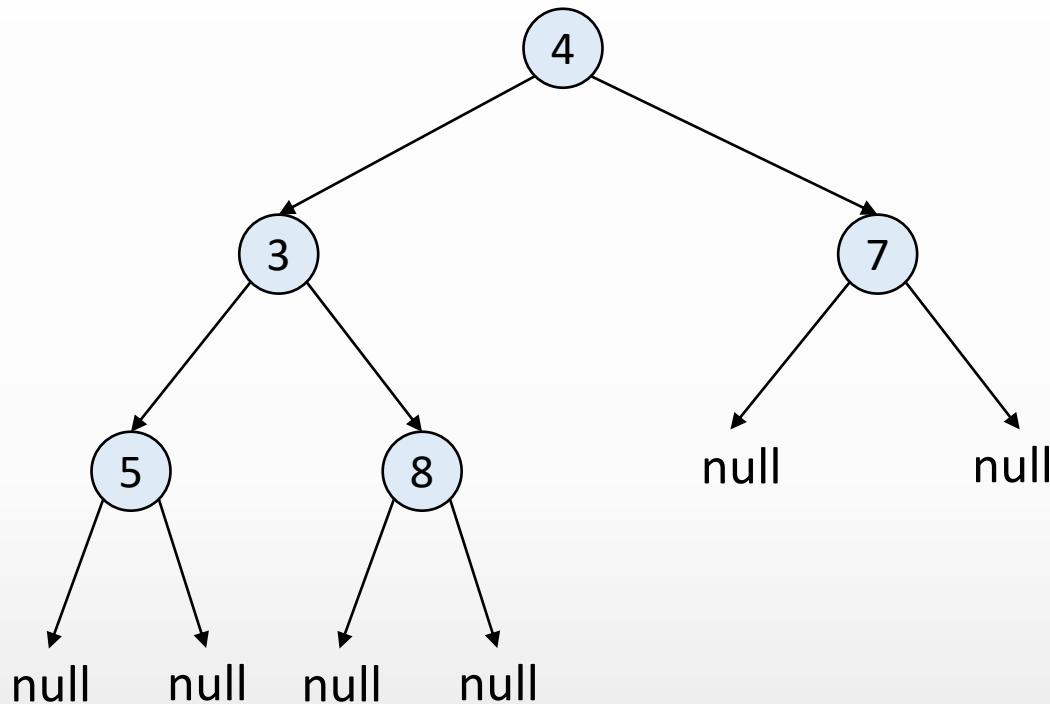
IMV = -2147483648



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



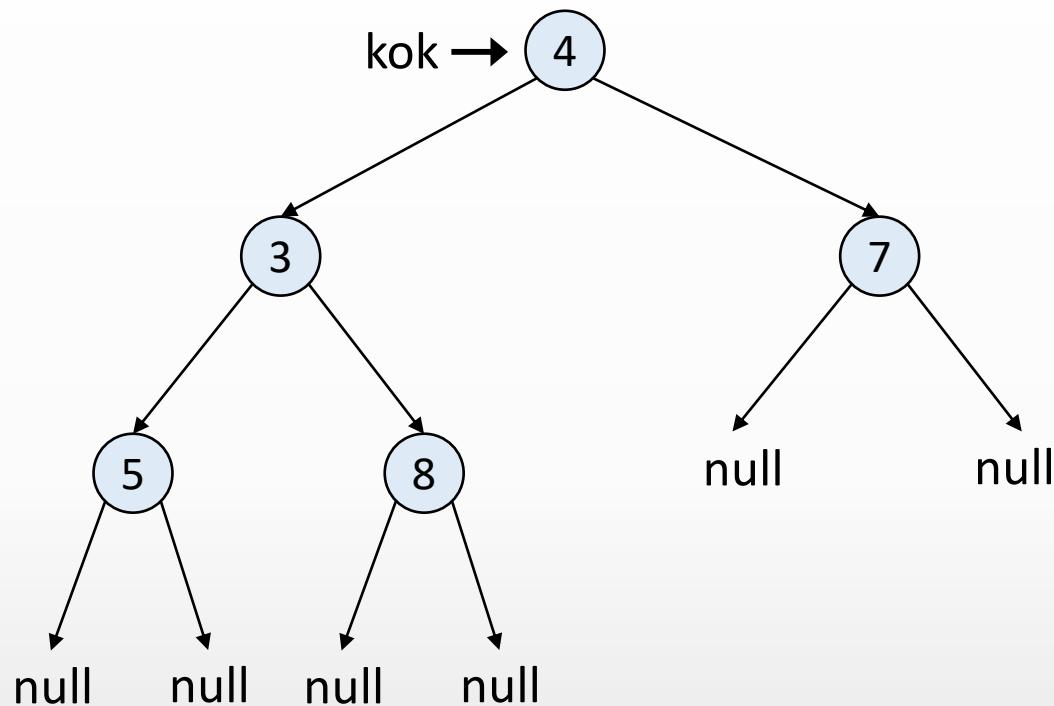
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	6	4	4		

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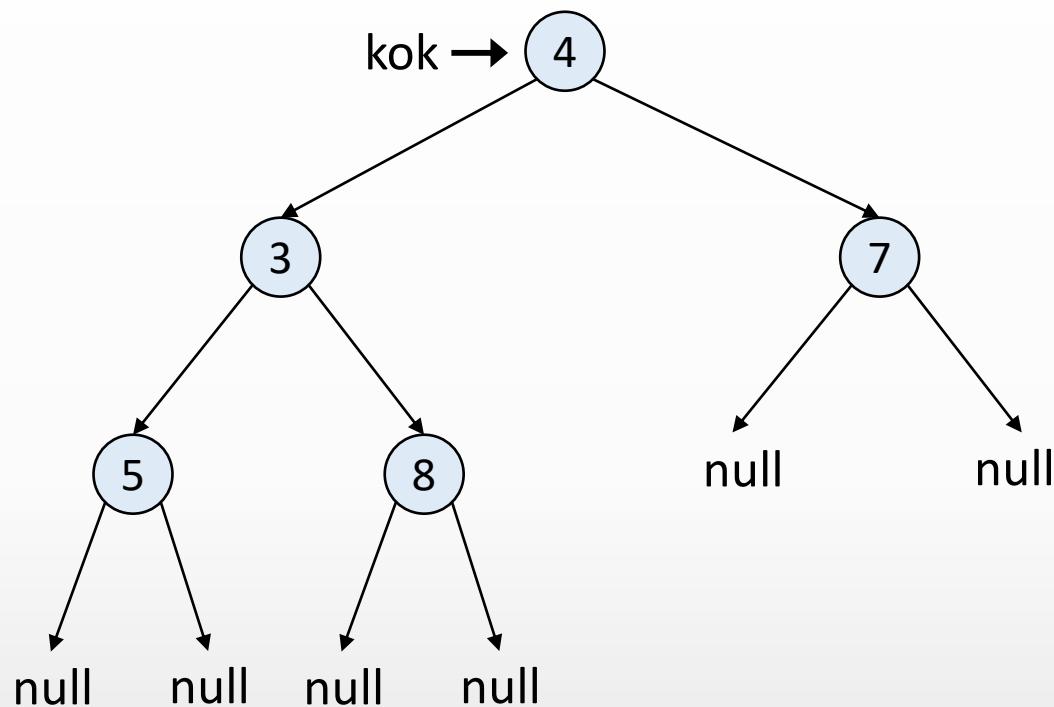
IMV = -2147483648



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



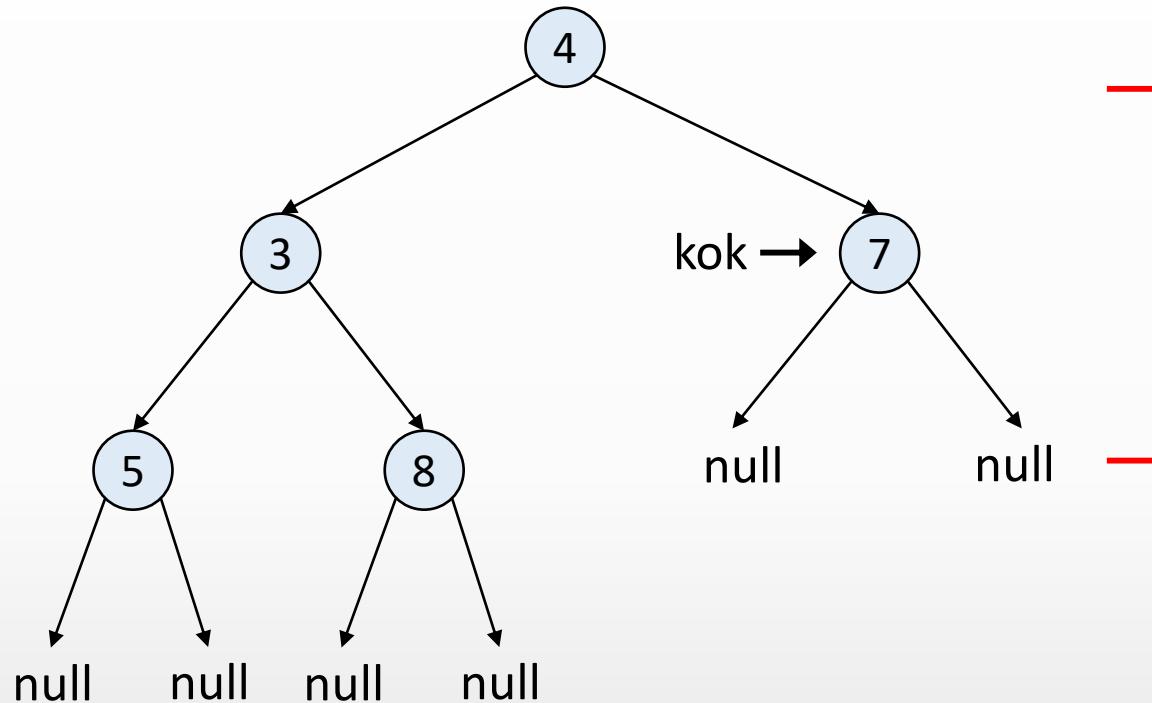
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	

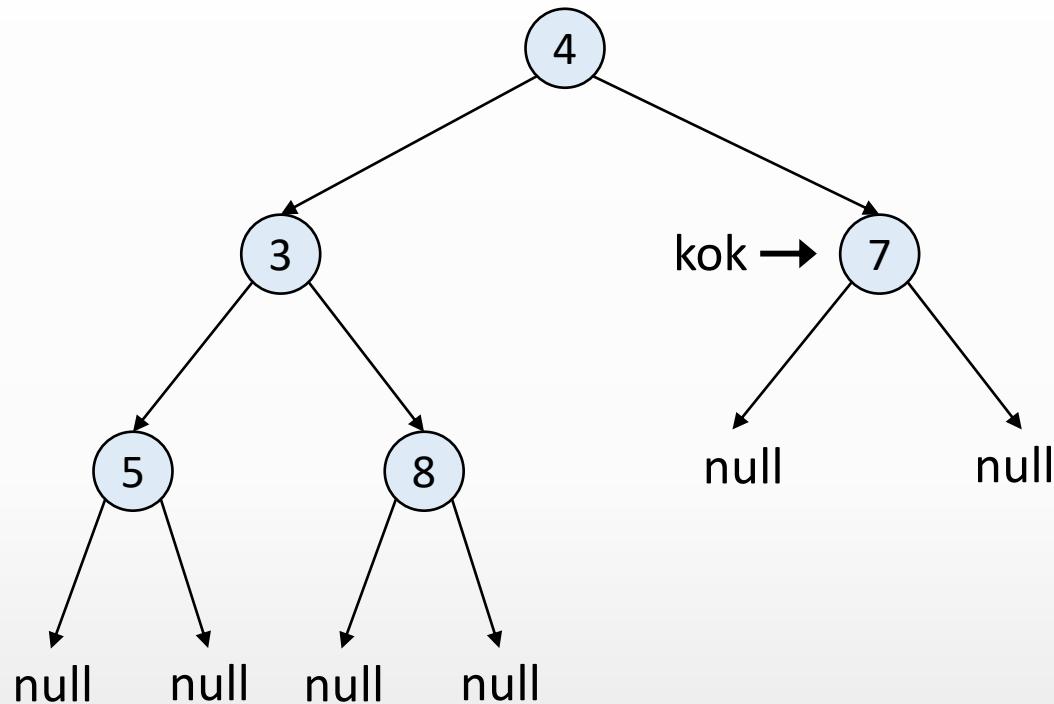
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul		7			

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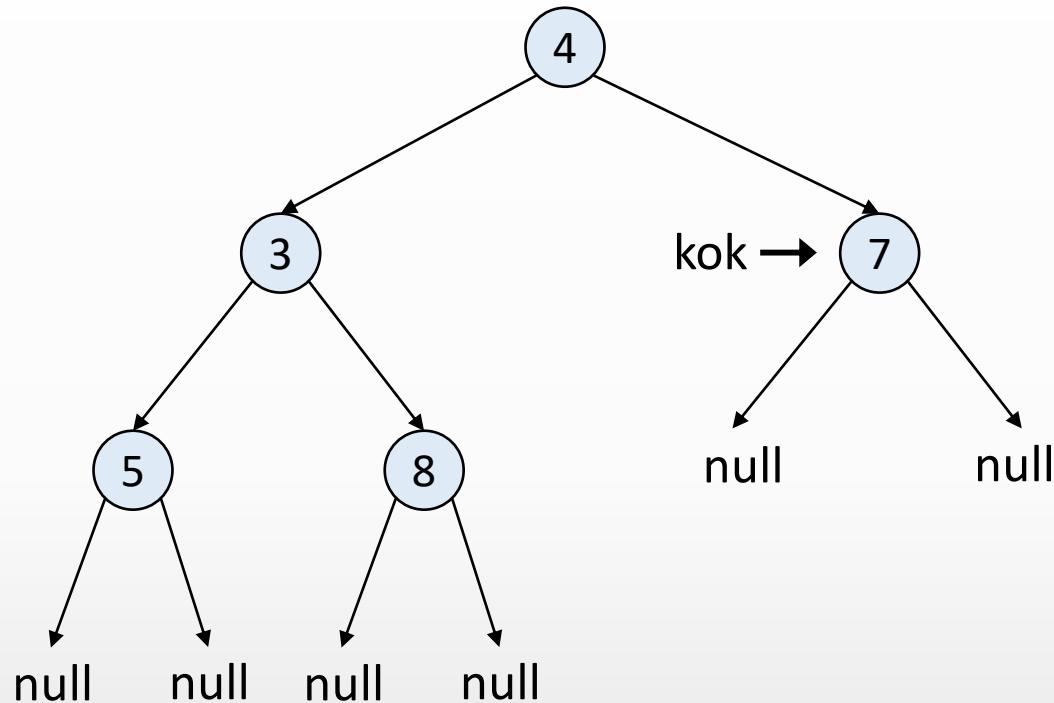


metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul		7			



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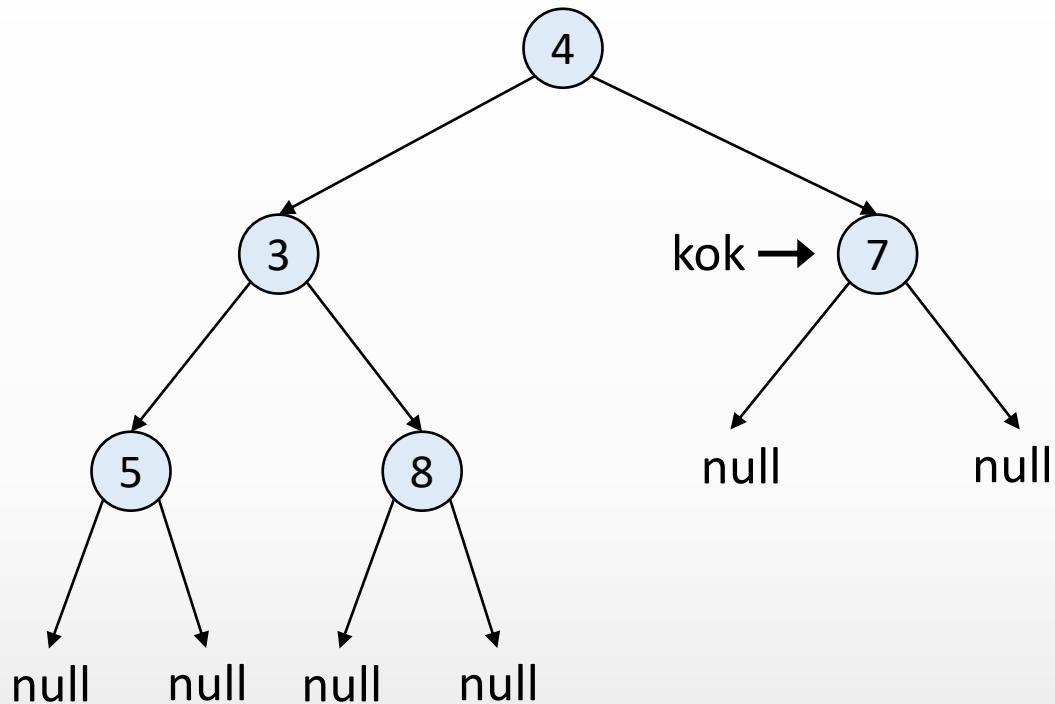
IMV = -2147483648



IMV = -2147483648

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

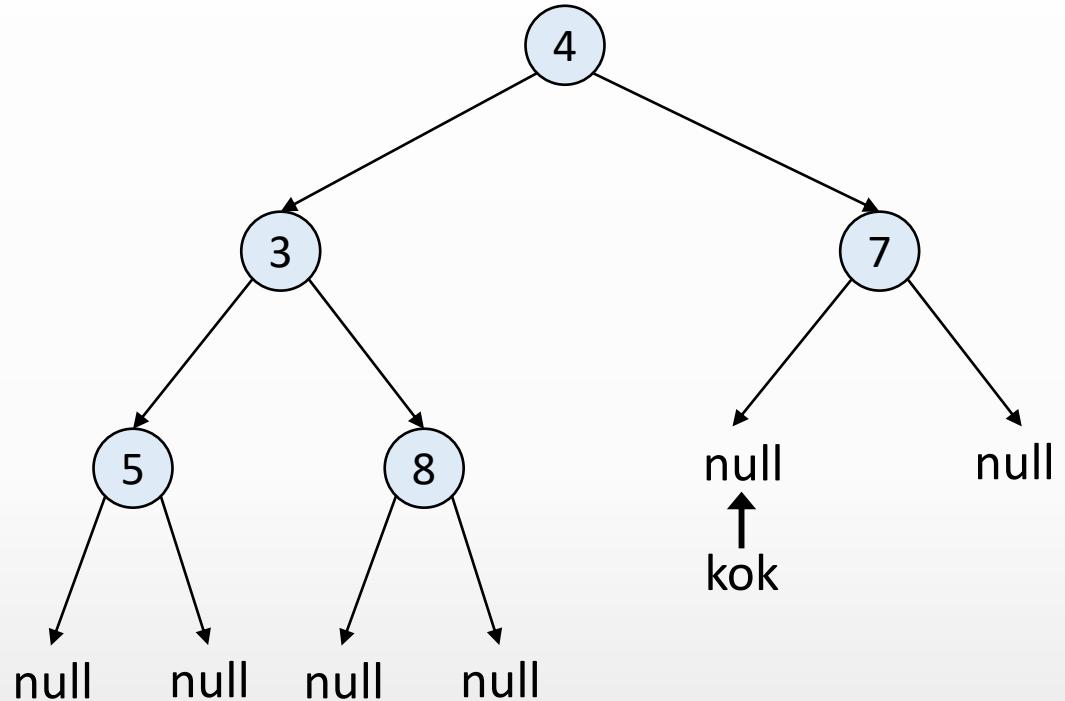
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IMV = -2147483648

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

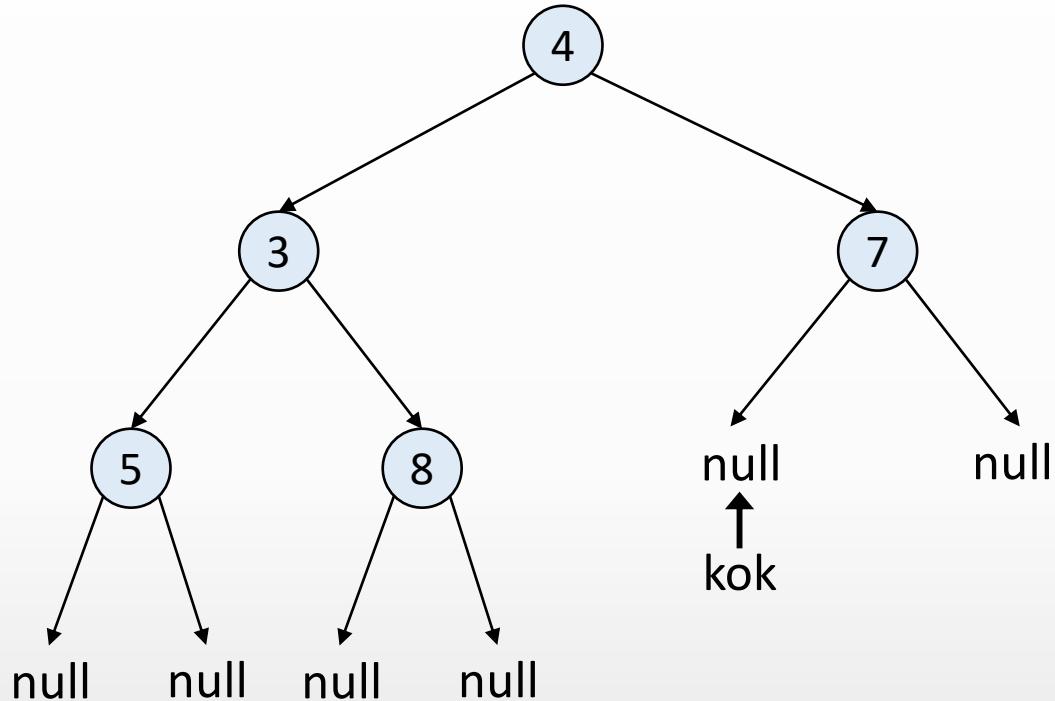
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IMV = -2147483648

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

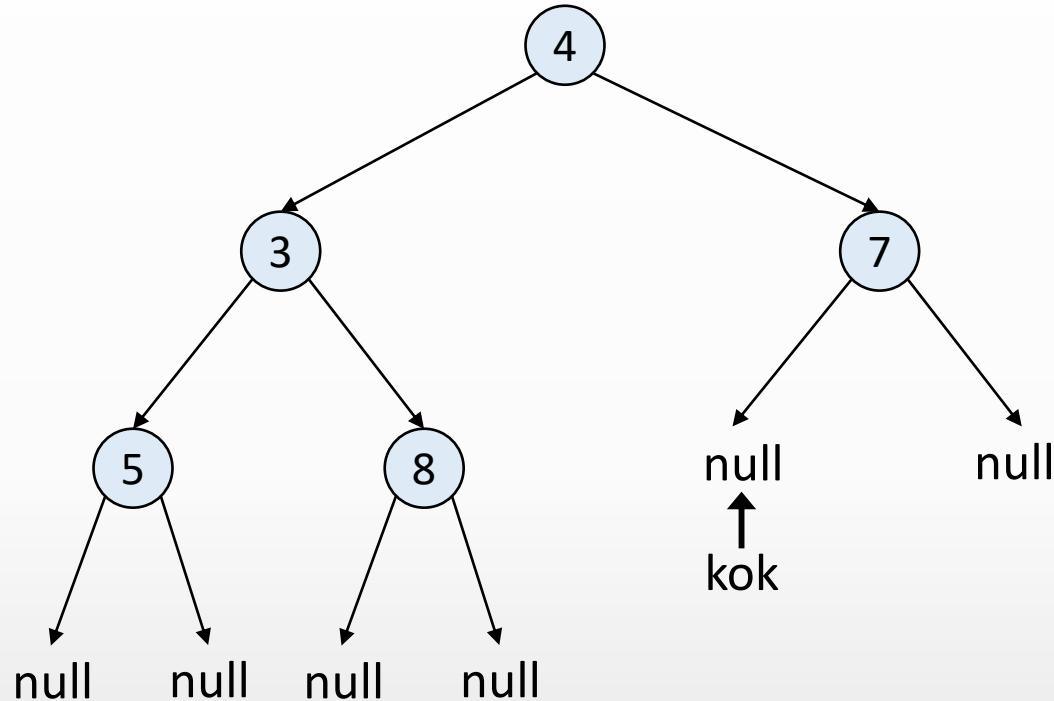
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7		
enBuyukBul		null			

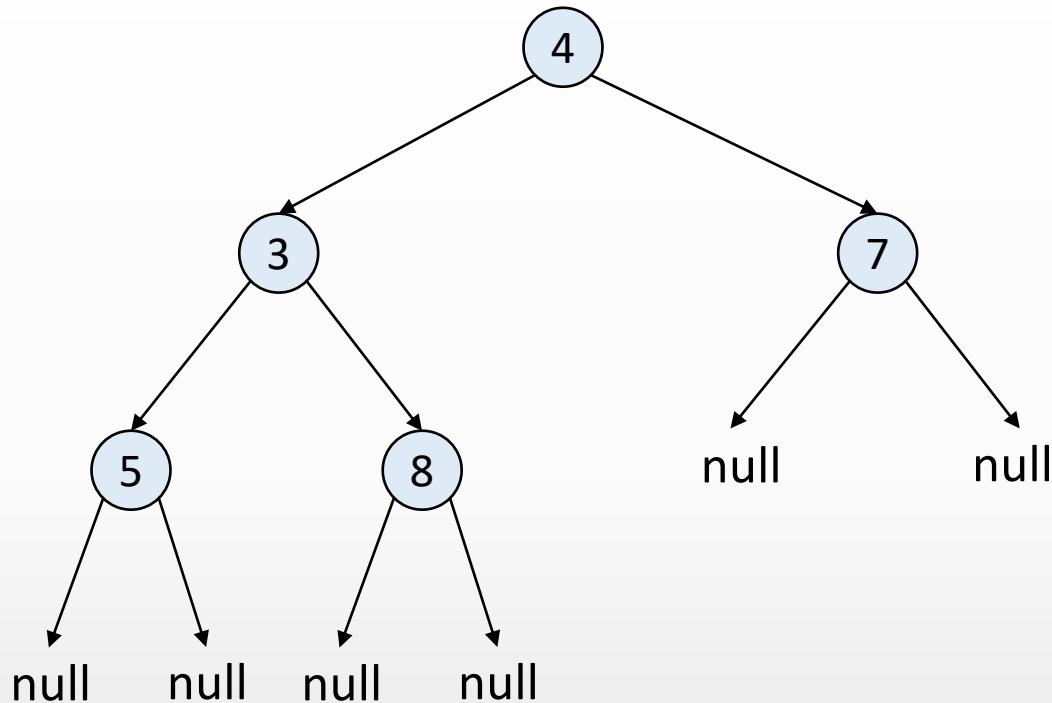
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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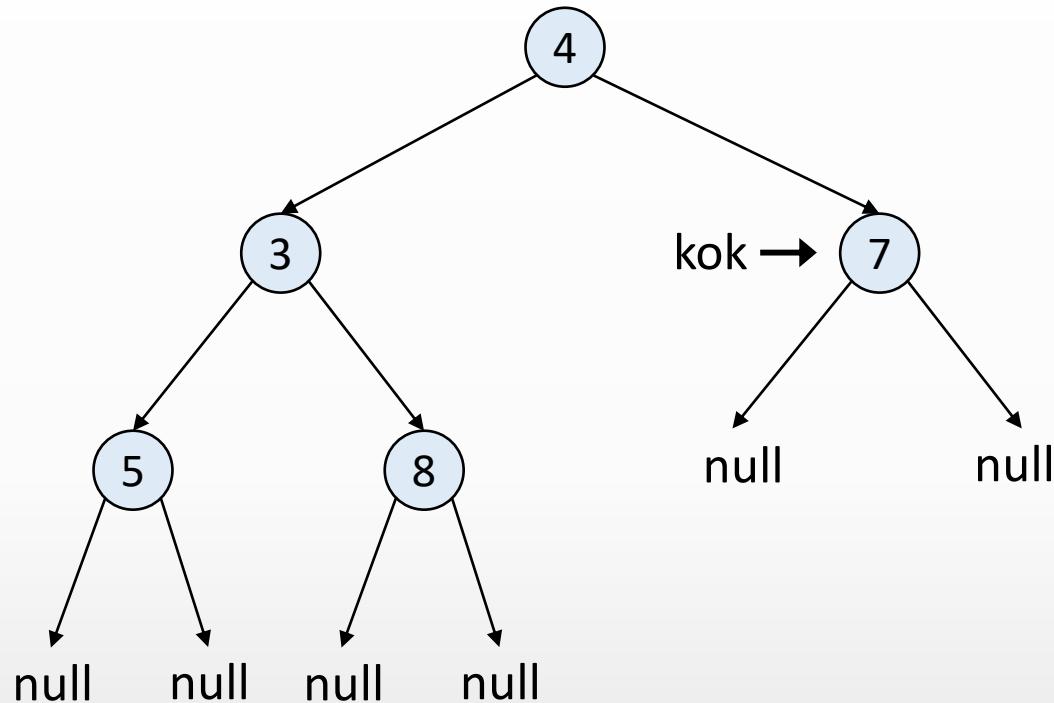
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	6	7	7		

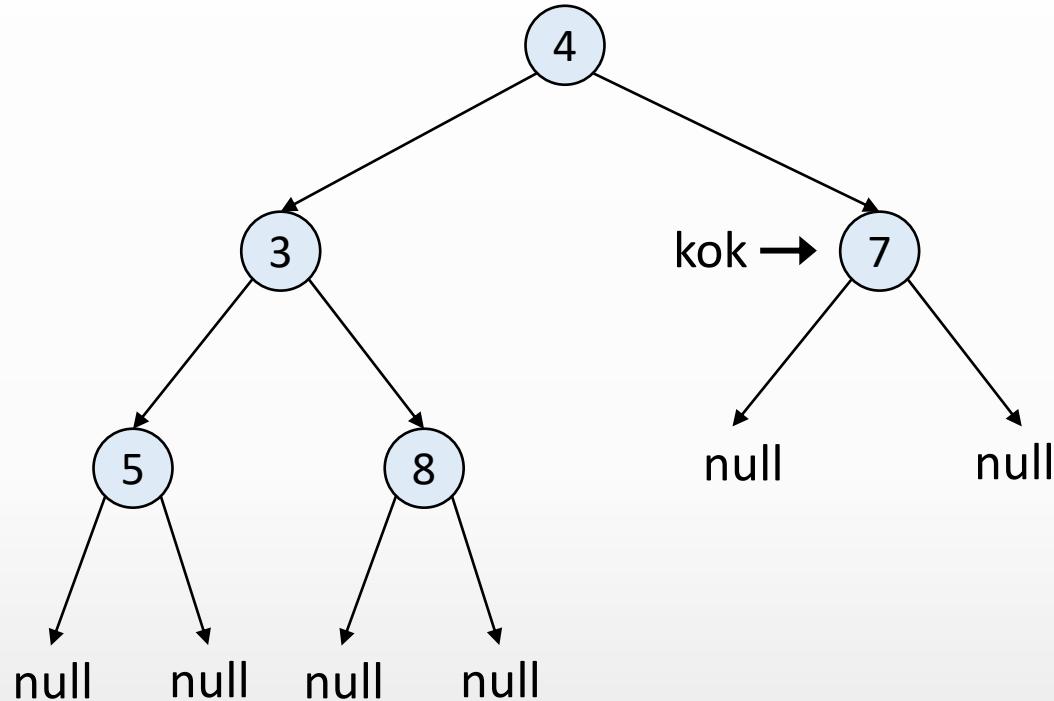
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IMV = -2147483648

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

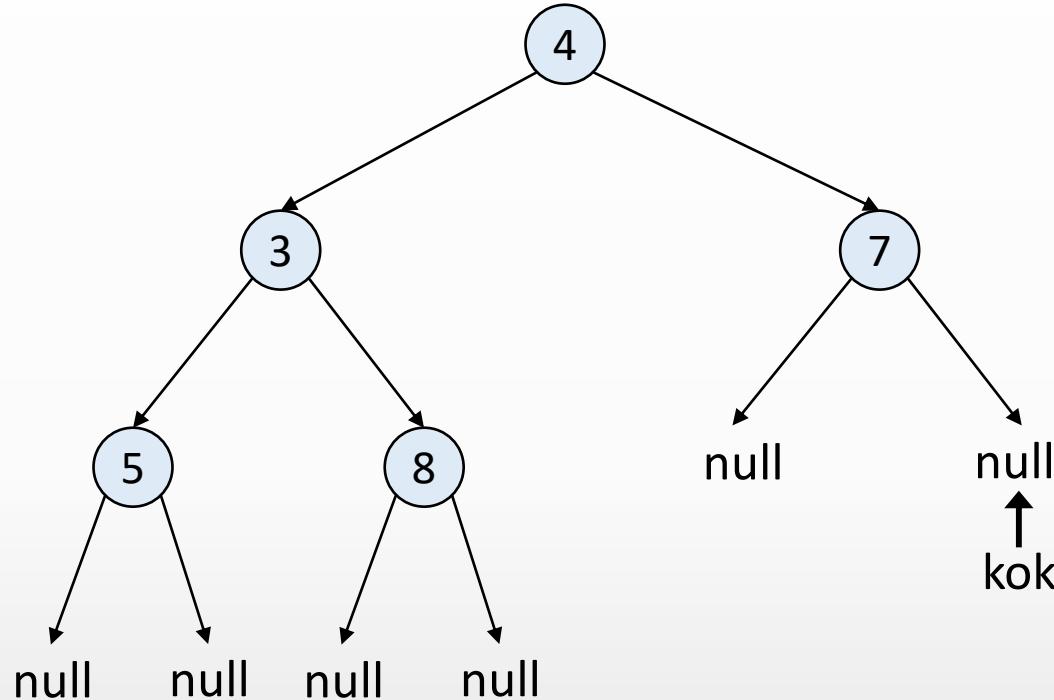
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	

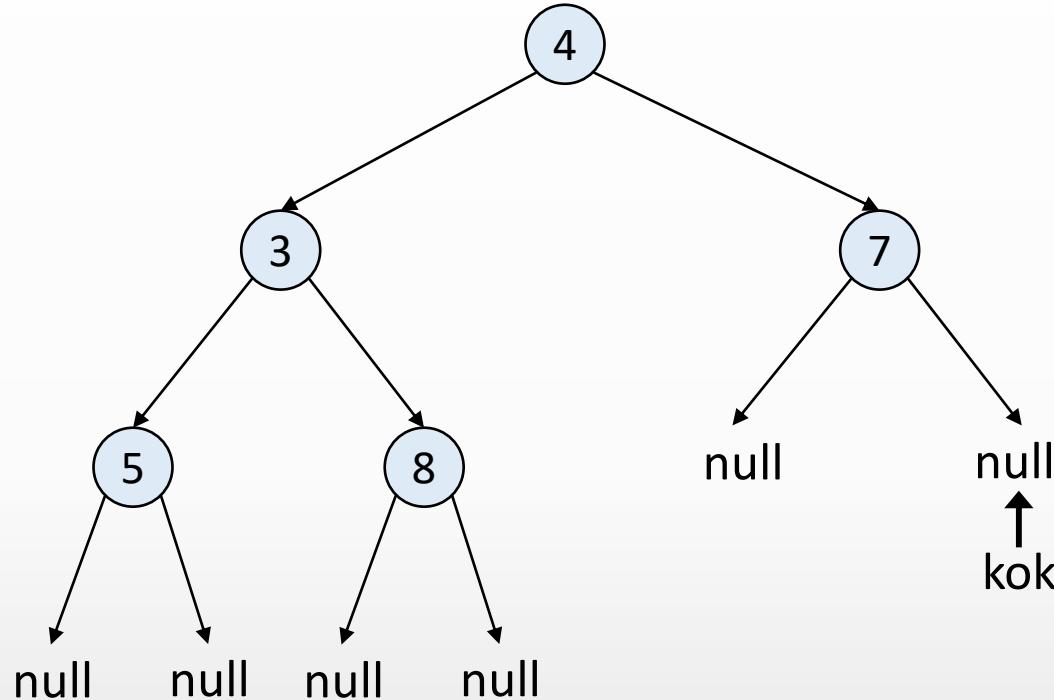
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	
enBuyukBul		null			

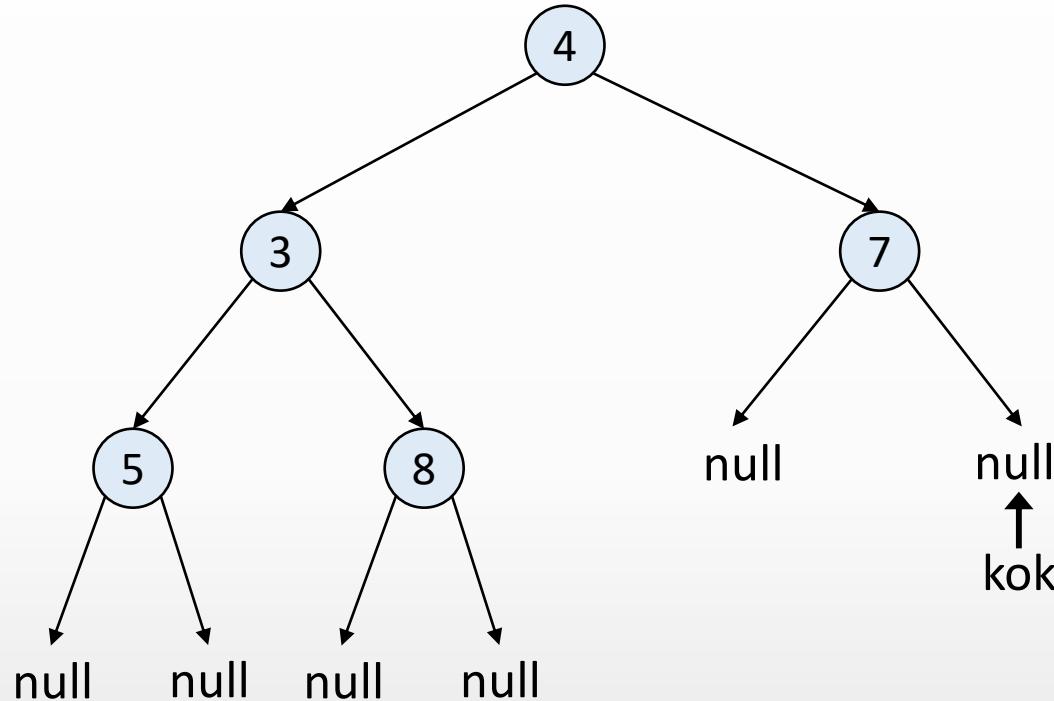
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	
enBuyukBul		null			

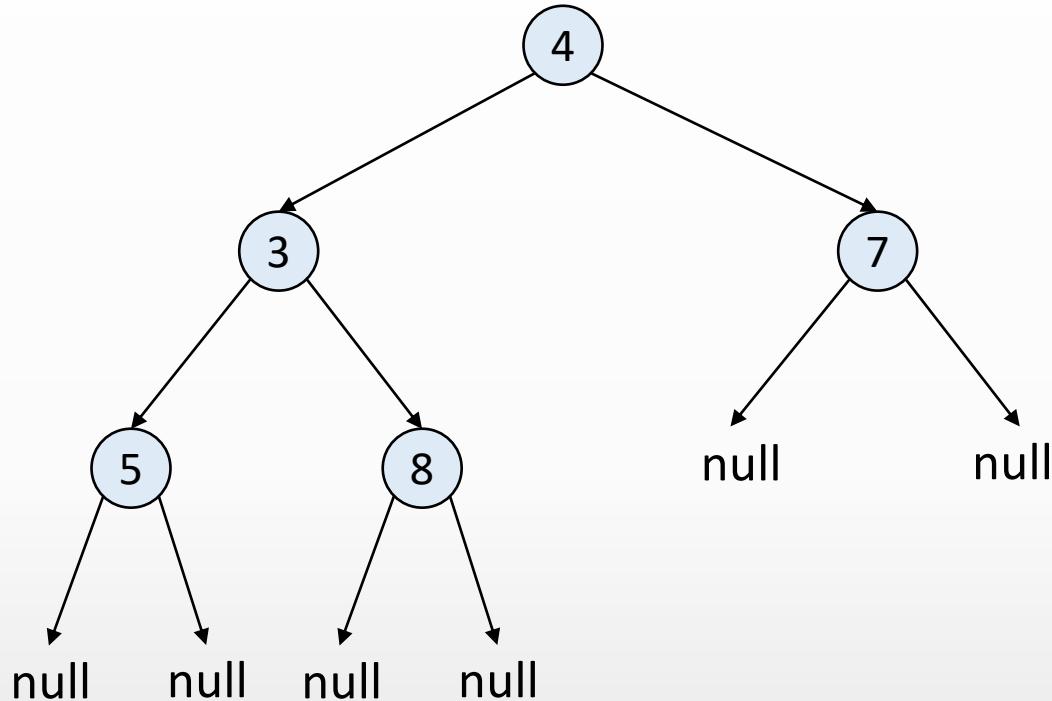
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metot çağrımı	satır no	kok	sonuc	sol	sag
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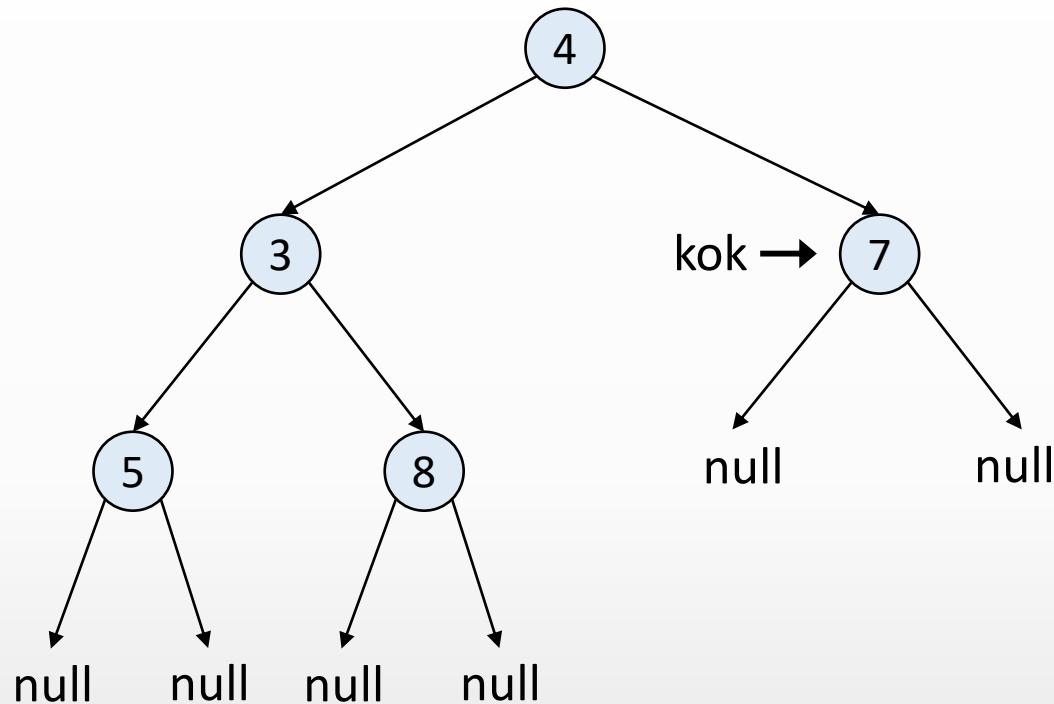
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IMV = -2147483648

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

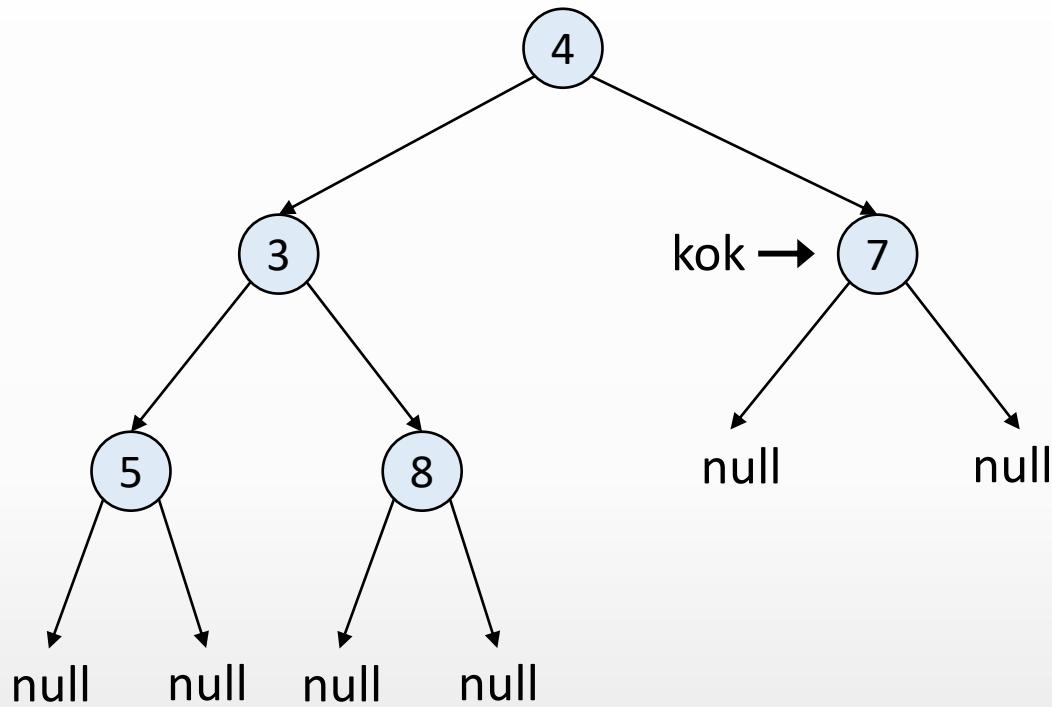
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IMV = -2147483648

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

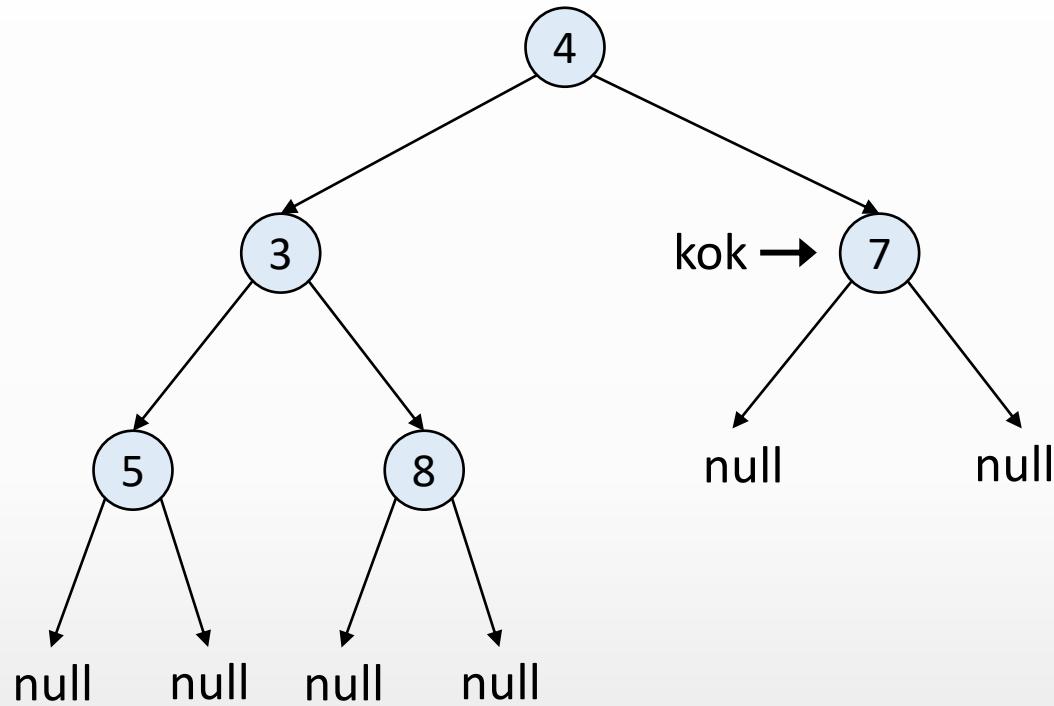
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IMV = -2147483648

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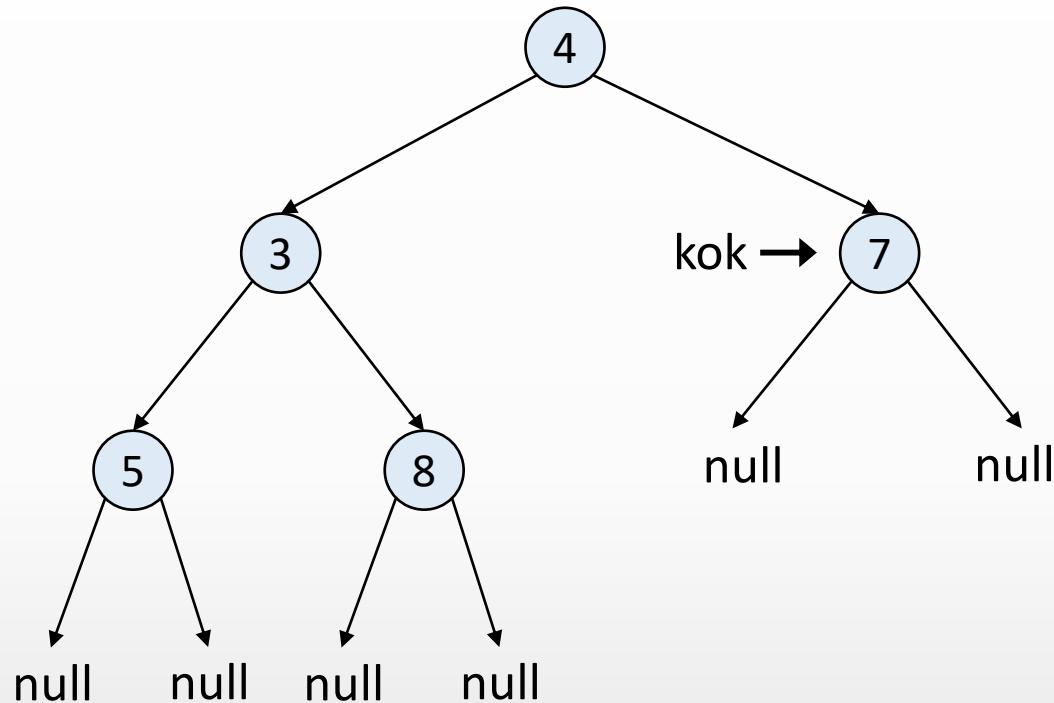
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
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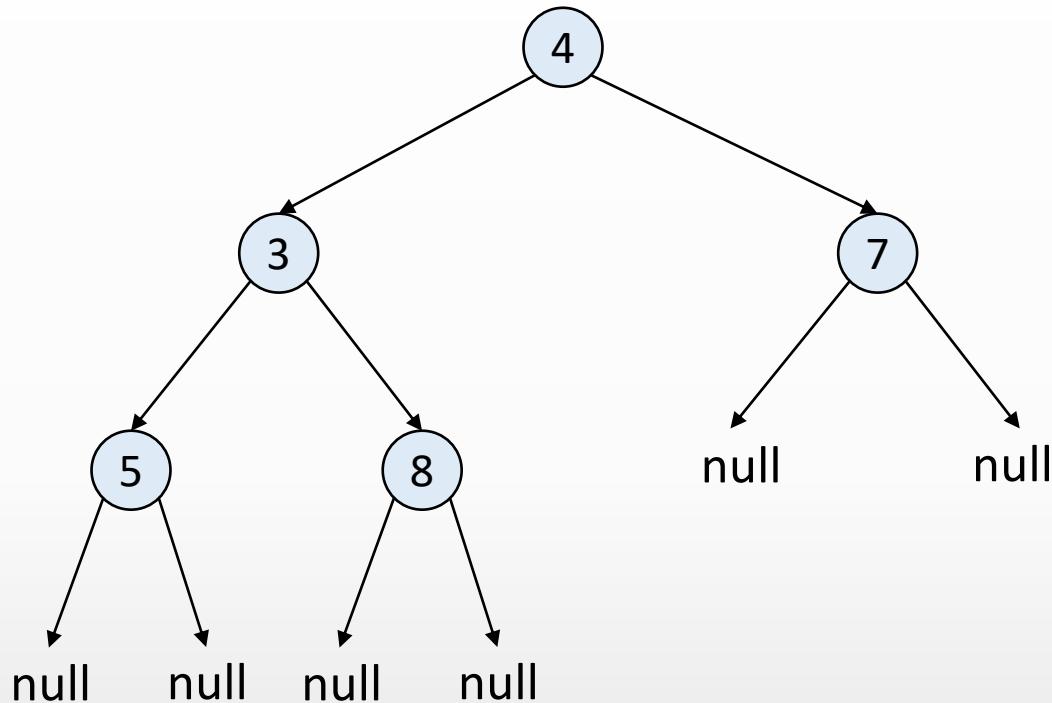
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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	
enBuyukBul	7	7	7	IMV	IMV



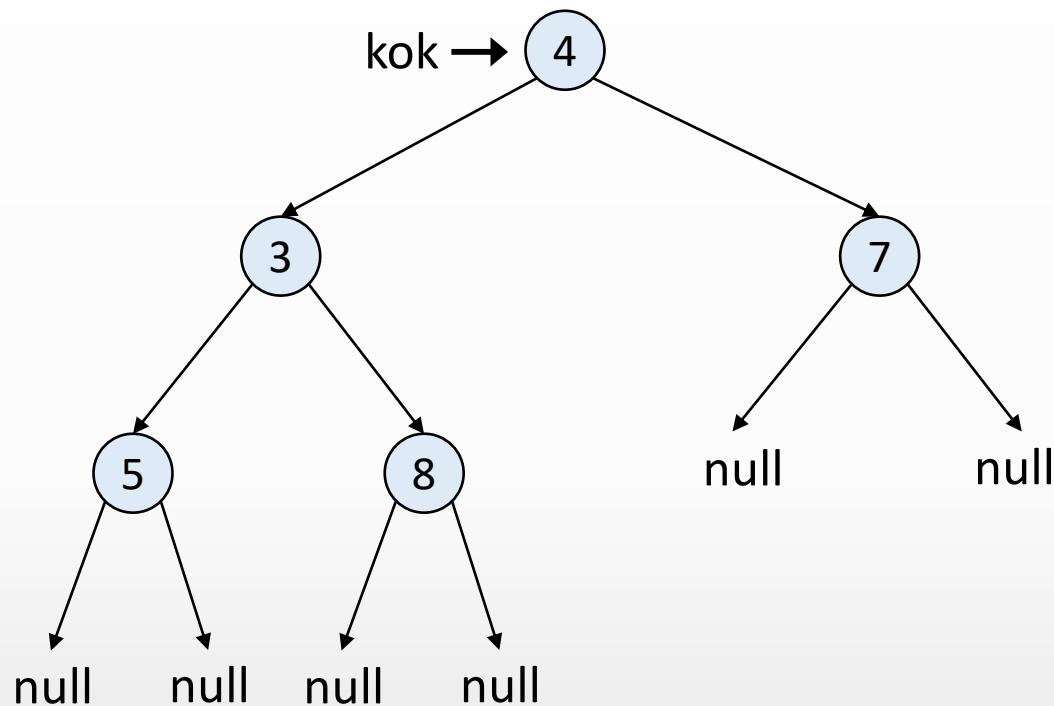
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metot çağrımı	satır no	kok	sonuc	sol	sag
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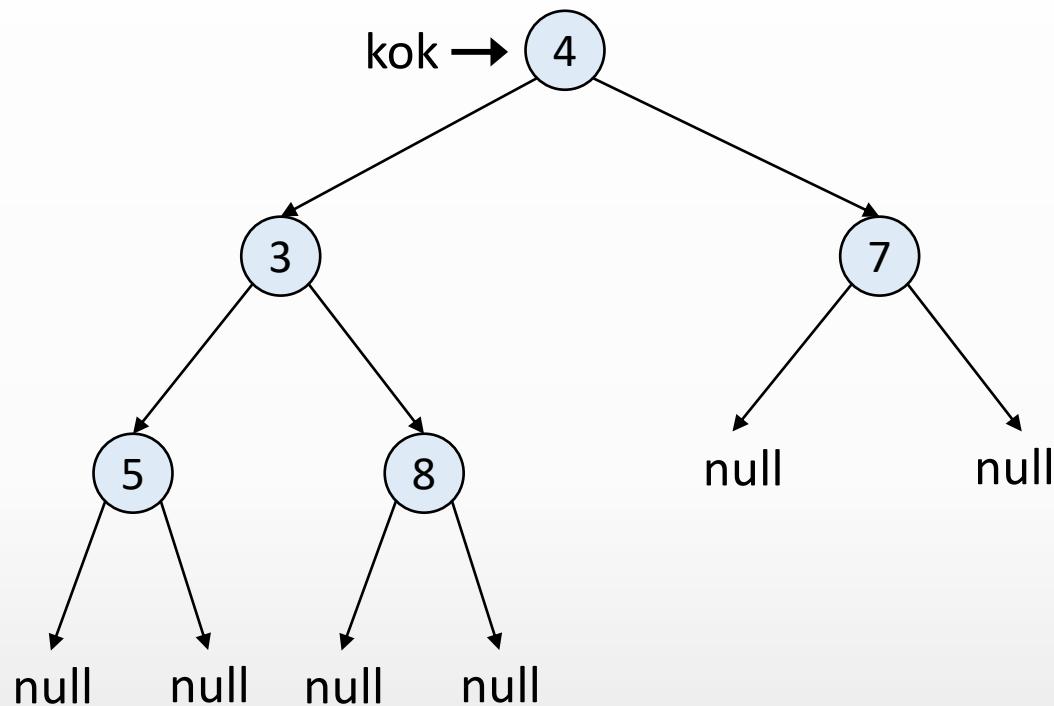


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metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	4	8	7

→

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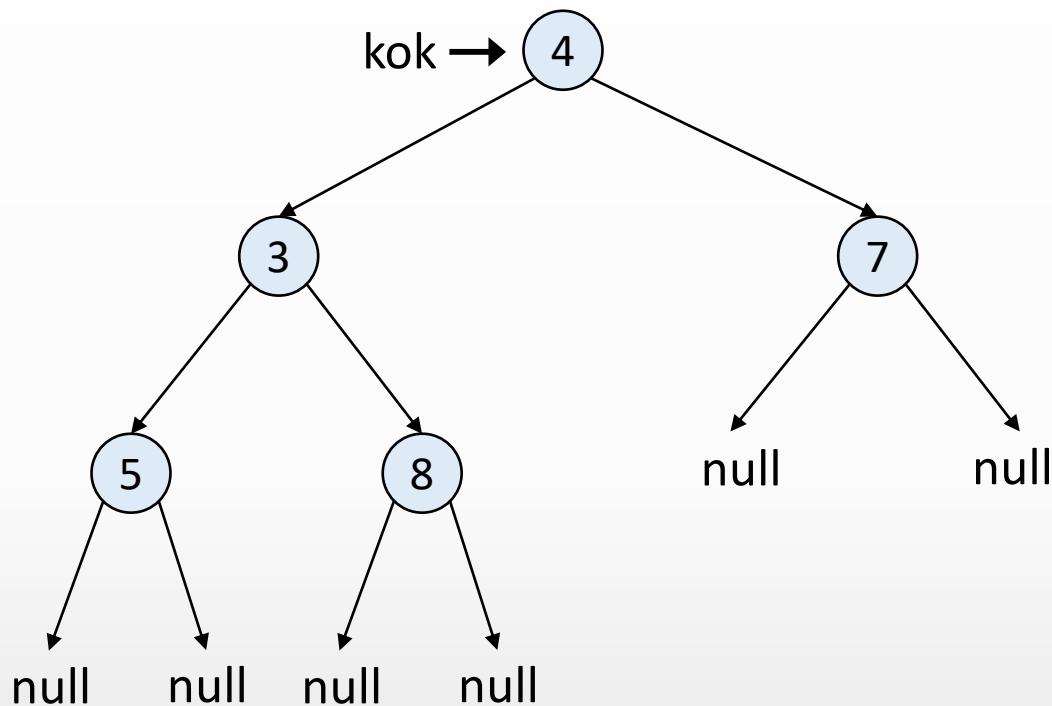
IMV = -2147483648



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



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



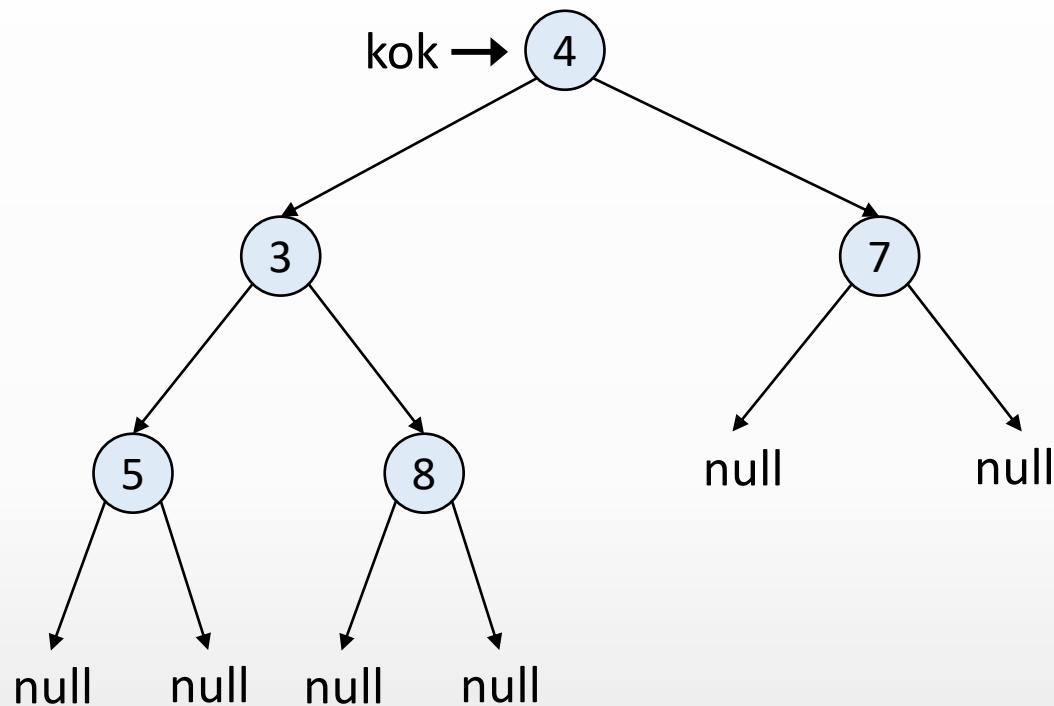
IMV = -2147483648



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 }
```



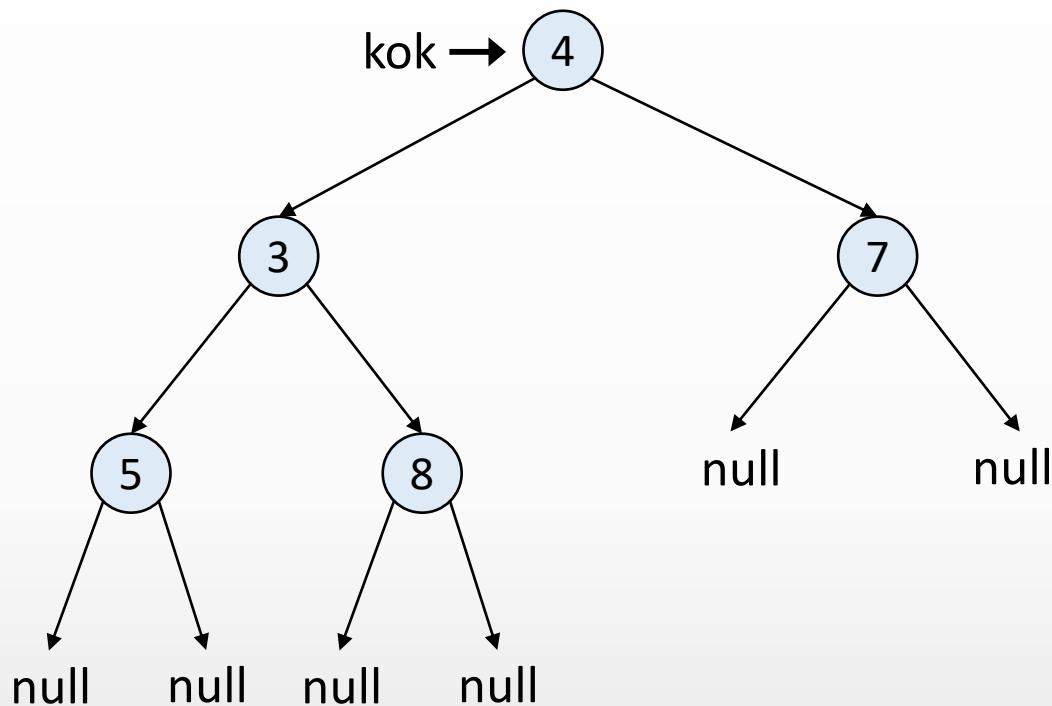
IMV = -2147483648



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



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



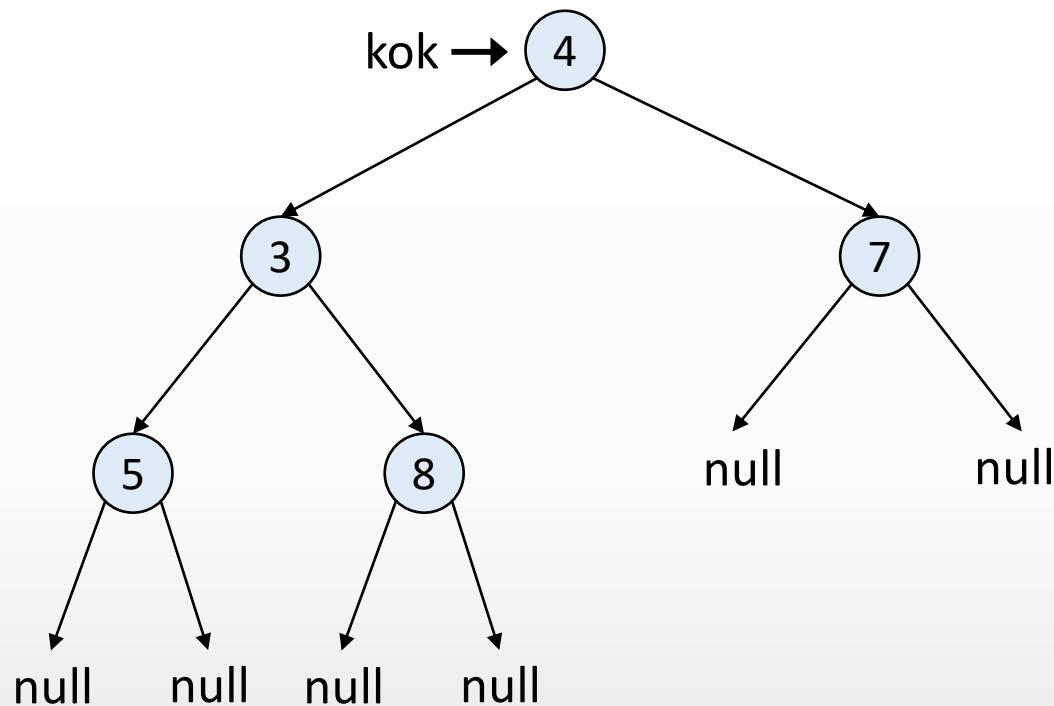
IMV = -2147483648



metot çağrımı	satır no	kok	sonuc	sol	sag
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12    return sonuc;  
13 }
```



En büyük değer → 8

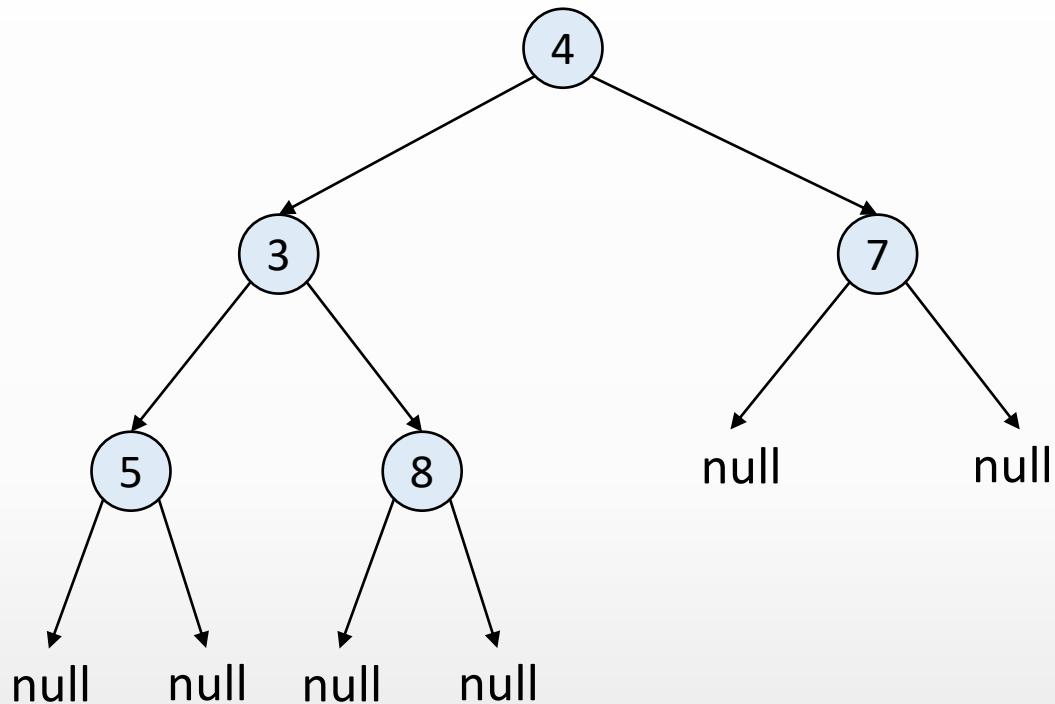
metot çağrımı	satır no	kok	sonuc	sol	sag
enBuyukBul	7	4	8	8	7

→

```
1 public int enBuyukBul(AgacDugumu kok) {  
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8     if(sol > sonuc)  
9         sonuc = sol;  
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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) {  
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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 }
```

# Ödev 4



- [https://sercankulcu.github.io/files/data\\_structures/slides/vize\\_cevaplar.pdf](https://sercankulcu.github.io/files/data_structures/slides/vize_cevaplar.pdf) adresindeki vize soru ve cevapları boş bir kağıda elle yazılacak, 8 Aralık günü derse getirilecek.
- Düzgün, açık, okunabilir, eksiksiz getirmeniz beklenmektedir.
- Kendi el yazınız ile yazılmış olmalıdır.
- Yapanların vize sınavı notlarına 5 puan eklenecektir.



# SON