MTK467 Nesneye Yönelik Programlama

Hafta 4 - Metodlar 1

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Metodlar

- Bir görev için gerekli ifadelerin bir araya getirilmesiyle oluşturulan program parçalarına metod denir.

- Eğer programdaki bir görevi tekrar tekrar farklı parametreler için yapmamız gerekiyorsa, bu görev için bir metod yazma ihtiyacı doğar.

- Örneğin 1'den 7'ye kadar, 15'den 29'a kadar ve 103'den 147'ye kadar tüm sayıları ekrana yazdıran bir program yazmamız istensin.

Kod tekrarı örneği: PrintNumbers

[1,7] aralığındaki tüm tamsayıların yazdırılması

```
public class PrintNumbers {

    public static void main(String args[]){

        int firstNumber;
        int lastNumber;

        firstNumber = 1;
        lastNumber = 7;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

        firstNumber = 15;
        lastNumber = 29;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }


        firstNumber = 103;
        lastNumber = 147;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

    }
}
```

Kod tekrarı örneği: PrintNumbers

```
public class PrintNumbers {

    public static void main(String args[]){

        int firstNumber;
        int lastNumber;

        firstNumber = 1;
        lastNumber = 7;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

        firstNumber = 15;
        lastNumber = 29;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }


        firstNumber = 103;
        lastNumber = 147;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

    }
}
```

[15,29] aralığındaki tüm tamsayıların yazdırılması

Kod tekrarı örneği: PrintNumbers

```
public class PrintNumbers {

    public static void main(String args[]){

        int firstNumber;
        int lastNumber;

        firstNumber = 1;
        lastNumber = 7;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

        firstNumber = 15;
        lastNumber = 29;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }


        firstNumber = 103;
        lastNumber = 147;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

    }
}
```

[103,147] aralığındaki tüm tamsayıların yazdırılması

Kod tekrarı örneği: PrintNumbers

```java
public class PrintNumbers {

    public static void main(String args[]){

        int firstNumber;
        int lastNumber;

        firstNumber = 1;
        lastNumber = 7;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

        firstNumber = 15;
        lastNumber = 29;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }


        firstNumber = 103;
        lastNumber = 147;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

    }
}
```

birebir aynı kod

Kod tekrarı örneği: PrintNumbers

```
public class PrintNumbers {

    public static void main(String args[]){

        int firstNumber;
        int lastNumber;

        firstNumber = 1;
        lastNumber = 7;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

        firstNumber = 15;
        lastNumber = 29;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

        firstNumber = 103;
        lastNumber = 147;

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }

    }
}
```

yalnızca kullandığı değerler farklı

birebir aynı kod

PrintNumbersWithMethod

- Aynı görevi yapacak kodu yalnızca bir sefer yazıp, farklı değerlerle kullanabilmenin yolu : Bu görev için bir metod tanımlamak

PrintNumbersWithMethod

```java
public class PrintNumbersWithMethod {

    public static void printNumbersInTheInterval(int firstNumber, int lastNumber){

        System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

        for(int i=firstNumber; i<=lastNumber; i++){
            System.out.print(i + " ");
        }
    }

    public static void main(String args[]) {

        int firstNumber;
        int lastNumber;

        firstNumber = 1;
        lastNumber = 7;

        printNumbersInTheInterval(firstNumber, lastNumber);

        firstNumber = 15;
        lastNumber = 29;

        printNumbersInTheInterval(firstNumber, lastNumber);

        firstNumber = 103;
        lastNumber = 147;

        printNumbersInTheInterval(firstNumber, lastNumber);

    }
}
```

Tek sefer yaz

1 7

15 29

103 147

farklı değerlerle kullan

Kod tekrarı örneği: AverageOfNumbers.java

- [2,11], [18,43] ve [113,157] aralıklarındaki tamsayıların ortalama değerlerini hesaplayan bir Java programı yazınız.

Kod tekrarı örneği: AverageOfNumbers.java

```java
public class AverageOfNumbers {

    public static void main(String args[]) {

        int firstNumber;
        int lastNumber;

        double sum = 0;
        double average = 0;

        firstNumber = 2;
        lastNumber = 11;

        for(int i=firstNumber; i<=lastNumber; i++){
            sum += i;
        }

        average = sum / (lastNumber-firstNumber+1);

        System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


        firstNumber = 18;
        lastNumber = 43;

        for(int i=firstNumber; i<=lastNumber; i++){
            sum += i;
        }

        average = sum / (lastNumber-firstNumber+1);

        System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


        firstNumber = 113;
        lastNumber = 157;

        for(int i=firstNumber; i<=lastNumber; i++){
            sum += i;
        }

        average = sum / (lastNumber-firstNumber+1);

        System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


    }
}
```

Kod tekrarı örneği: AverageOfNumbers.java

Çıktı

```
/Library/Java/JavaVirtualMachines/jdk-9.jdk/Contents/Hom

Average of integers between 2 and 11 is 6.50
Average of integers between 18 and 43 is 33.00
Average of integers between 113 and 157 is 154.07

Process finished with exit code 0
```

AverageOfNumbersWithMethod.java

```java
public class AverageOfNumbersWithMethod {

    public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

        double sum = 0;
        double average = 0;

        for(int i=firstNumber; i<=lastNumber; i++){
            sum += i;
        }

        average = sum / (lastNumber-firstNumber+1);

        return average;
    }

    public static void main(String args[]) {
        int firstNumber;
        int lastNumber;

        double average = 0;

        firstNumber = 2;
        lastNumber = 11;

        average = calculateAverageBetweenNumbers(firstNumber,lastNumber);

        System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


        firstNumber = 18;
        lastNumber = 43;

        average = calculateAverageBetweenNumbers(firstNumber,lastNumber);

        System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


        firstNumber = 113;
        lastNumber = 157;

        average = calculateAverageBetweenNumbers(firstNumber,lastNumber);

        System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


    }
}
```

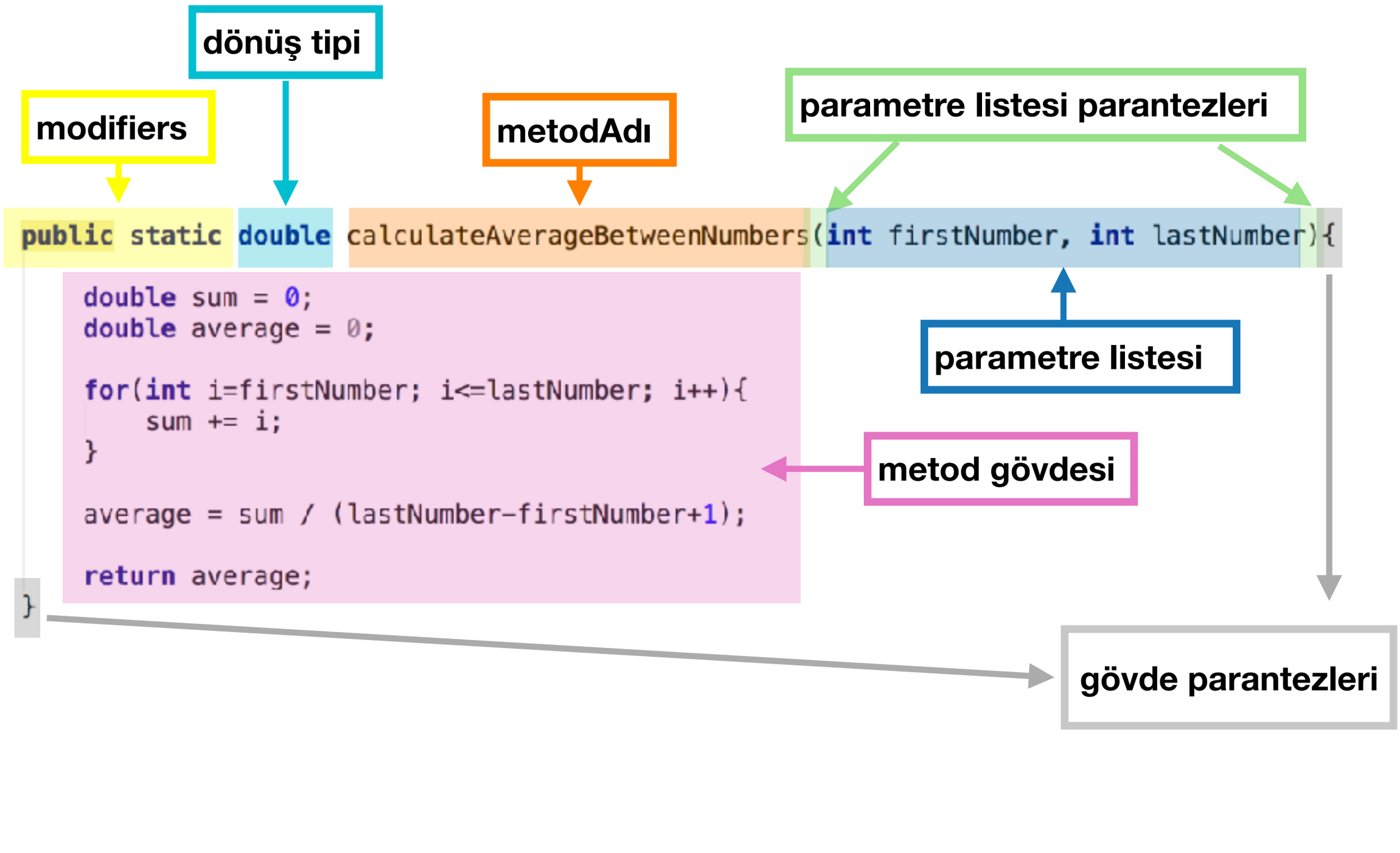
Metod tanımlama

modifiers dönüşTipi *metodAdı* (parametre listesi) {

  metod gövdesi

}

Metod tanımlama



Metod tanımlama: dönüş tipi ve return komutu

- Dönüş tipi: Metodda yapılacak işlemler sonucunda ortaya çıkan ve programda kullanılmak üzere döndürülecek değerin tipi

dönüş tipi

```
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average = 0;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

Metod tanımlama: dönüş tipi ve return komutu

- Dönüş tipi: Metodda yapılacak işlemler sonucunda ortaya çıkan ve programda kullanılmak üzere döndürülecek değerin tipi

dönüş tipi

```
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average = 0;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

döndürme komutu

Metod tanımlama: dönüş tipi ve return komutu

- Dönüş tipi: Metodda yapılacak işlemler sonucunda ortaya çıkan ve programda kullanılmak üzere döndürülecek değerin tipi

dönüş tipi

```
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average = 0;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

döndürülecek değişken

döndürme komutu

Metod tanımlama: dönüş tipi ve return komutu

- Dönüş tipi: Metodda yapılacak işlemler sonucunda ortaya çıkan ve programda kullanılmak üzere döndürülecek değerin tipi

dönüş tipi

```
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average = 0;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

döndürülecek değişken (tipi dönüş tipiyle aynı olmalı)

döndürme komutu

Metod tanımlama: void (boş) dönüş tipi

- Eğer metod herhangi bir değer döndürmüyorsa dönüş tipi void olarak tanımlanır.

```
public static void printNumbersInTheInterval(int firstNumber, int lastNumber){

    System.out.printf("\nNumbers from %d to %d are : ",firstNumber, lastNumber);

    for(int i=firstNumber; i<=lastNumber; i++){
        System.out.print(i + " ");
    }
}
```

dönüş tipi void olduğu için return komutunun yazılmasına gerek yok

Metod tanımlama: parametre listesi

- İstediğimiz kadar parametre tanımlayabiliriz. Her bir parametrenin tipi ve adı belirtilmelidir.

1. parametrenin tipi

2. parametrenin tipi

```
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average = 0;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

1. parametrenin adı

2. parametrenin adı

Metod tanımlama: parametre listesi

- Metod çağırıldığında parametre yerine bir değer verilir. Bu değerlere argüman denir.

```
public static void main(String args[]) {

    int firstNumber;
    int lastNumber;

    double average = 0;

    firstNumber = 2;
    lastNumber = 11;

    average = calculateAverageBetweenNumbers(firstNumber,lastNumber);

    System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


    firstNumber = 18;
    lastNumber = 43;

    average = calculateAverageBetweenNumbers(firstNumber,lastNumber);

    System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);


    firstNumber = 113;
    lastNumber = 157;

    average = calculateAverageBetweenNumbers(firstNumber,lastNumber);

    System.out.printf("\nAverage of integers between %d and %d is %.2f", firstNumber, lastNumber, average);

}
```

argümanlar

tipi int olmalı

tipi int olmalı

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

a ve b değişkenlerini tanımla

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

a’nın değerini 2 yap

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

b'nin değerini 11 yap

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

calculateAverageBetweenNumbers metodunu a ve b değerleri ile çağır

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

a'nın değerini firstNumber'a ver
b'nin değerini secondNumber'a ver

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

calculateAverageBetweenNumbers metodunu a ve b değerleri ile çağır

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

sum ve average değişkenlerini tanımla

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

2'den 11'e kadar 1'er attırarak ve her bir adımda sum değerine i değerini ekleyerek for döngüsünü çalıştır

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Metodlar: Kod takibi

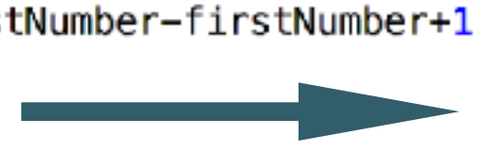
```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

ortalama değeri hesapla(6.5) ve average değişkenine ata

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```



average değerini(6.5) döndür

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Metodlar: Kod takibi

```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Metoddan dönen 6.5 değerini avr değişkenine ata

Metodlar: Kod takibi

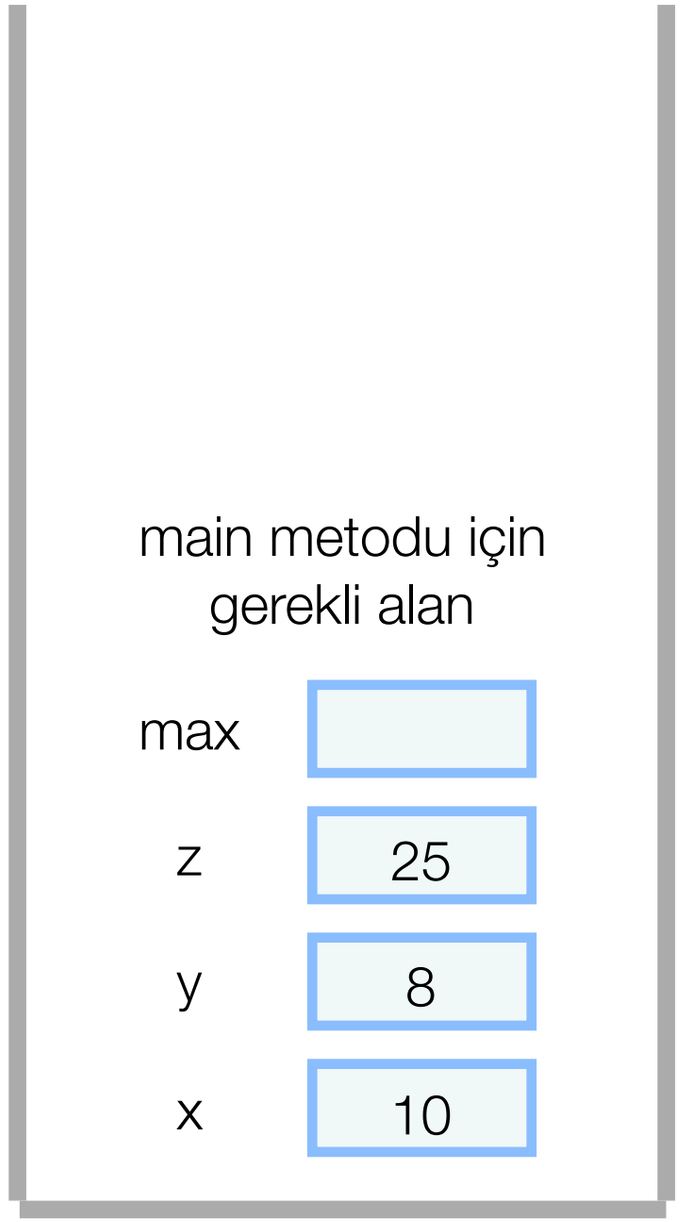
```java
public static double calculateAverageBetweenNumbers(int firstNumber, int lastNumber){

    double sum = 0;
    double average;

    for(int i=firstNumber; i<=lastNumber; i++){
        sum += i;
    }

    average = sum / (lastNumber-firstNumber+1);

    return average;
}
```

```java
public static void main(String args[]) {

    int a;
    int b;

    double avr;

    a = 2;
    b = 11;

    avr = calculateAverageBetweenNumbers(a,b);

    System.out.printf("\nAverage of integers between %d and %d is %.2f",
            a, b, avr);

}
```

Yazdırma komutunu çalıştır

Metodlar: Call stack

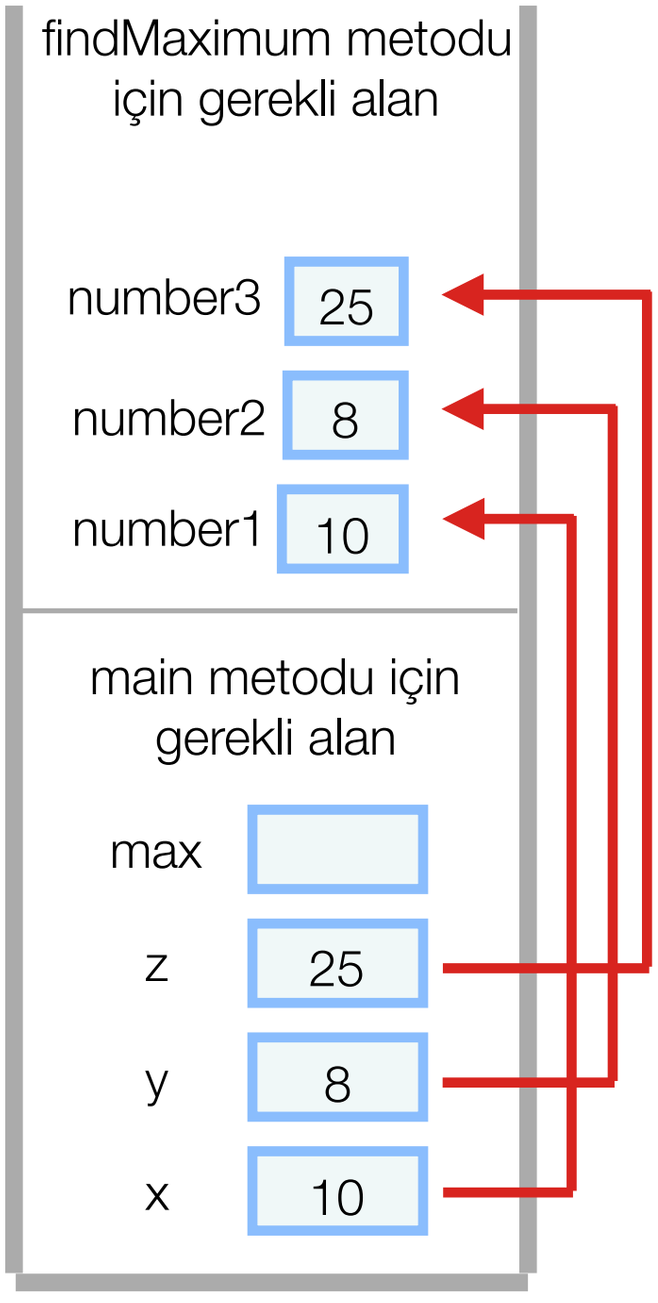
```
public static int findMaximum(int number1, int number2, int number3){

    int maximum;

    maximum = number1;

    if(number2 > maximum)
        maximum = number2;

    if(number3 > maximum)
        maximum = number3;

    return maximum;

}

public static void main(String args[]){

    int x = 10;
    int y = 8;
    int z = 25;

    int max;

    max = findMaximum(x,y,z);

    System.out.printf("Maximum of %d, %d and %d is %d", x,y,z,max);

}
```



main metodu çağırıldığında

Metodlar: Call stack

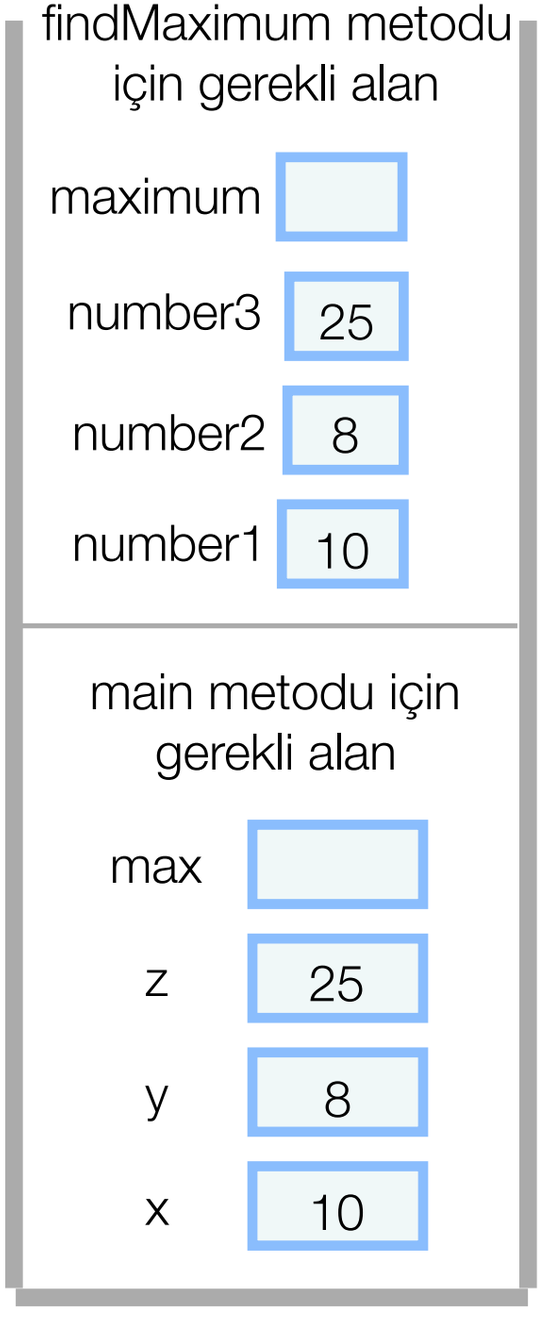
```
public static int findMaximum(int number1, int number2, int number3){

    int maximum;

    maximum = number1;

    if(number2 > maximum)
        maximum = number2;

    if(number3 > maximum)
        maximum = number3;

    return maximum;

}

public static void main(String args[]){

    int x = 10;
    int y = 8;
    int z = 25;

    int max;

    max = findMaximum(x,y,z);

    System.out.printf("Maximum of %d, %d and %d is %d", x,y,z,max);

}
```



findMaximum metodu çağırıldığında

Metodlar: Call stack

```java
public static int findMaximum(int number1, int number2, int number3){

    int maximum;

    maximum = number1;

    if(number2 > maximum)
        maximum = number2;

    if(number3 > maximum)
        maximum = number3;

    return maximum;

}

public static void main(String args[]){

    int x = 10;
    int y = 8;
    int z = 25;

    int max;

    max = findMaximum(x,y,z);

    System.out.printf("Maximum of %d, %d and %d is %d", x,y,z,max);

}
```



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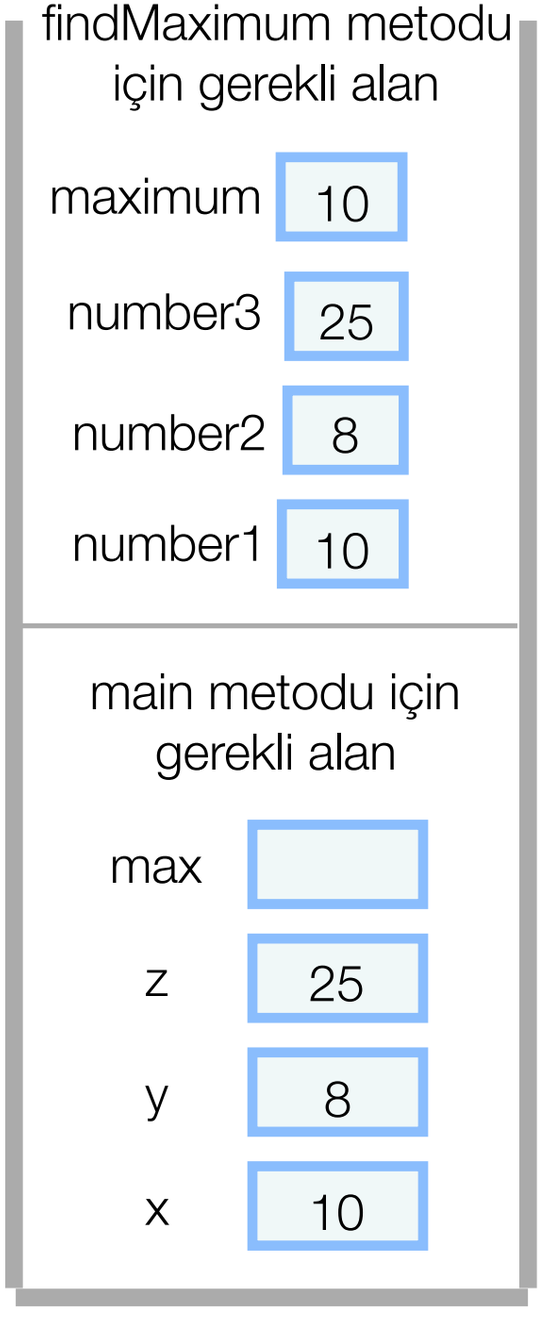

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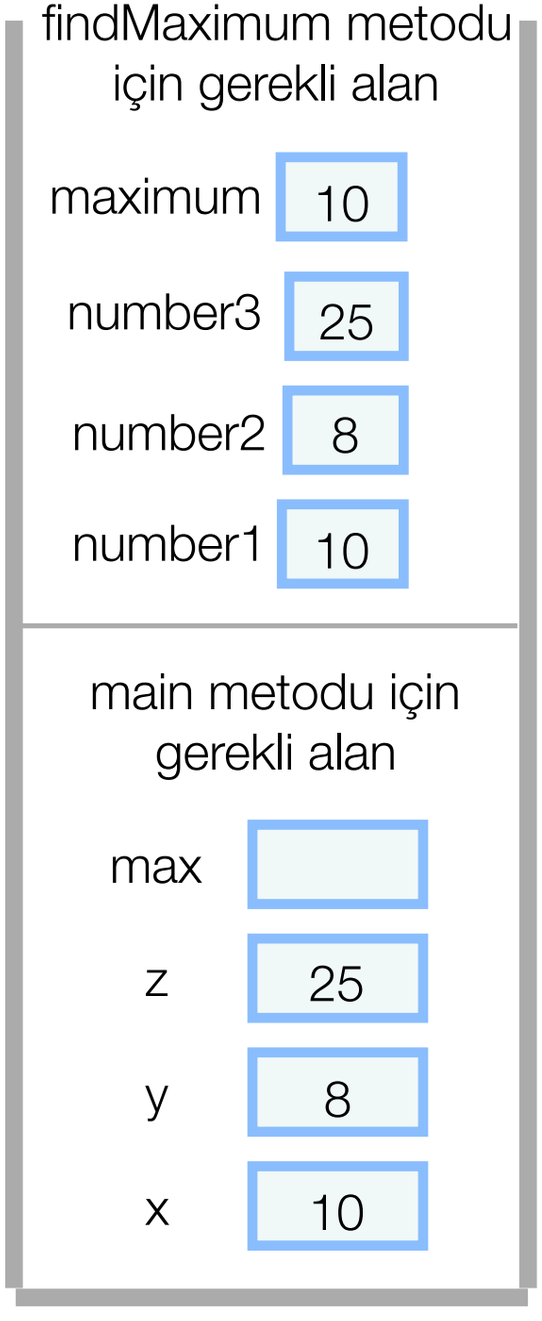

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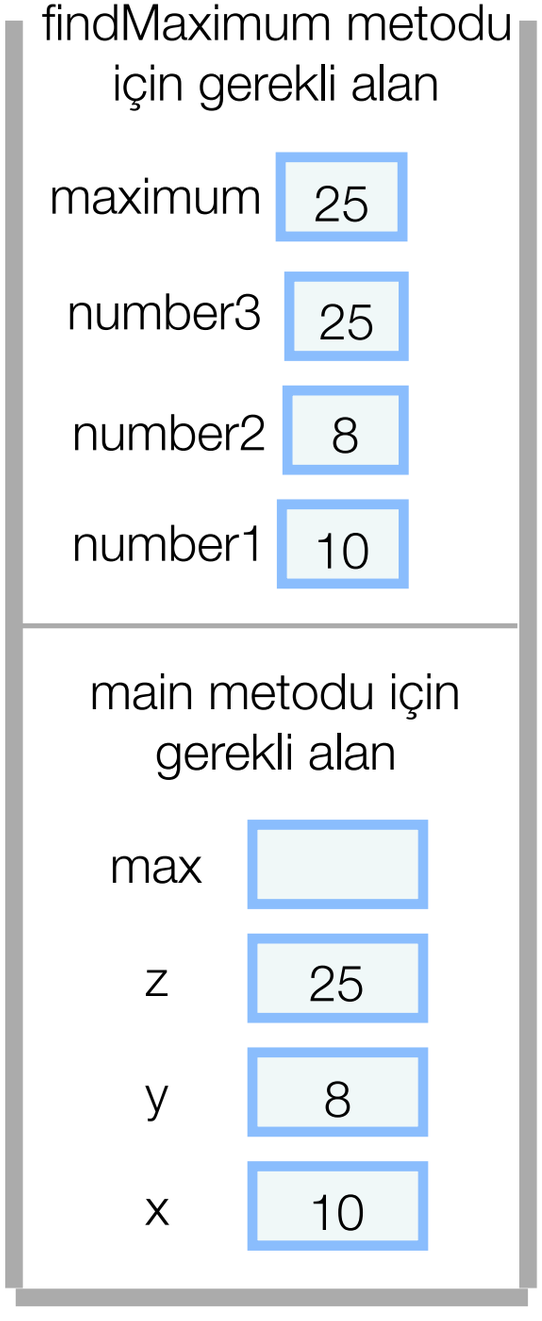

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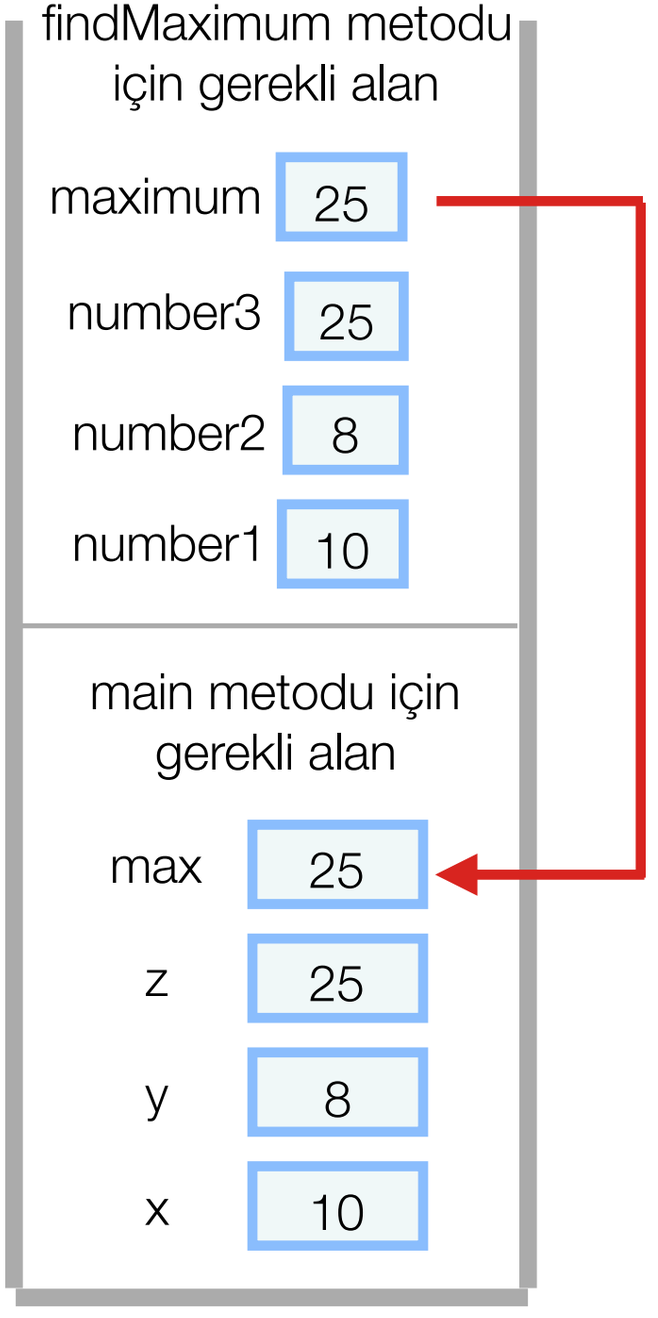
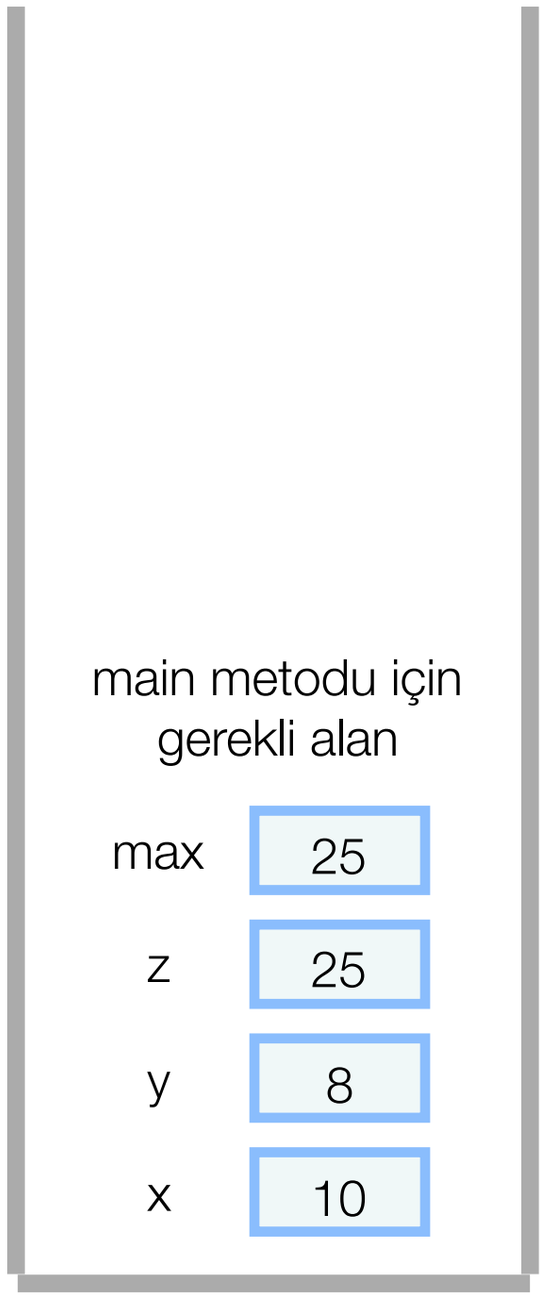


findMaximum metodunda return satırı çağırıldığında

Metodlar: Call stack

```java
public static int findMaximum(int number1, int number2, int number3){

    int maximum;

    maximum = number1;

    if(number2 > maximum)
        maximum = number2;

    if(number3 > maximum)
        maximum = number3;

    return maximum;

}

public static void main(String args[]){

    int x = 10;
    int y = 8;
    int z = 25;

    int max;

    max = findMaximum(x,y,z);

    System.out.printf("Maximum of %d, %d and %d is %d", x,y,z,max);

}
```



findMaximum metodu bitti