

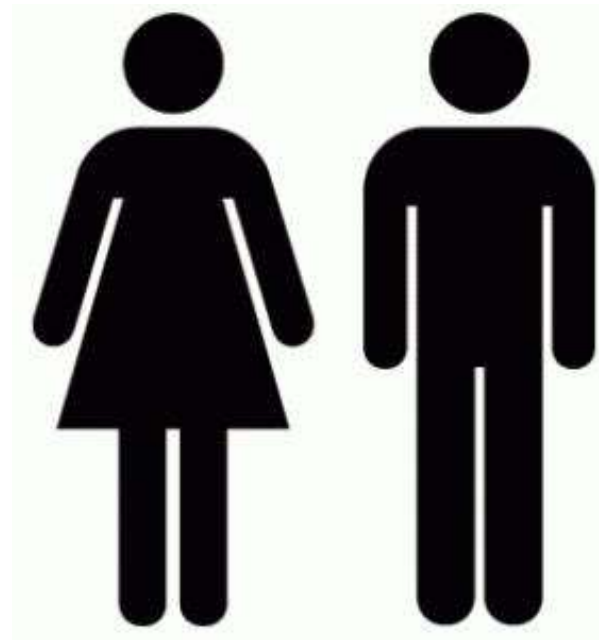
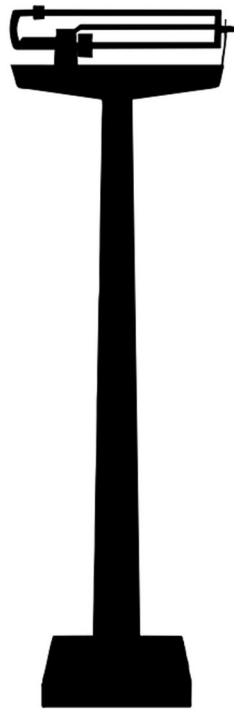


1. Parameters and local variables
2. Multiple parameters

Method Parameters II

Parameters and local variables

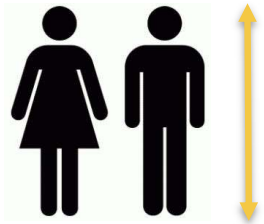
Calculadora peso ideal



Altura (cm)

1. Parameters and local variables

Calculadora peso ideal



int altura
175cm

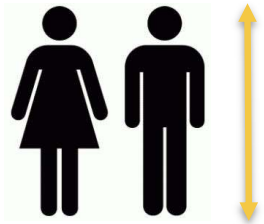


method

Tu peso ideal si eres hombre es: 70.4kg
Tu peso ideal si eres mujer es: 65.8kg

1. Parameters and local variables

Calculadora peso ideal



int altura

175cm

calculadoraPesoIdeal

Tu peso ideal si eres hombre es: 70.4kg

Tu peso ideal si eres mujer es: 65.8kg

Calculadora peso ideal

```
public void calculadoraPesoIdeal(int altura){  
    double pesoIdealHombre = (altura-100)-((altura-100-52)*0.2);  
    double pesoIdealMujer = (altura-100)-((altura-100-52)*0.4);  
    System.out.println("Tu peso ideal si eres hombre es: "+pesoIdealHombre+"kg");  
    System.out.println("Tu peso ideal si eres mujer es: "+pesoIdealMujer+"kg");  
}
```

Calculadora peso ideal

```
public void calculadoraPesoIdeal(int altura){  
    double pesoIdealHombre = (altura-100)-((altura-100-52)*0.2);  
    double pesoIdealMujer = (altura-100)-((altura-100-52)*0.4);  
    System.out.println("Tu peso ideal si eres hombre es: "+pesoIdealHombre+"kg");  
    System.out.println("Tu peso ideal si eres mujer es: "+pesoIdealMujer+"kg");  
}
```

Calculadora peso ideal

```
public void calculadoraPesoIdeal(int altura){  
    double pesoIdealHombre = (altura-100)-((altura-100-52)*0.2);  
    double pesoIdealMujer = (altura-100)-((altura-100-52)*0.4);  
    System.out.println("Tu peso ideal si eres hombre es: "+pesoIdealHombre+"kg");  
    System.out.println("Tu peso ideal si eres mujer es: "+pesoIdealMujer+"kg");  
}
```

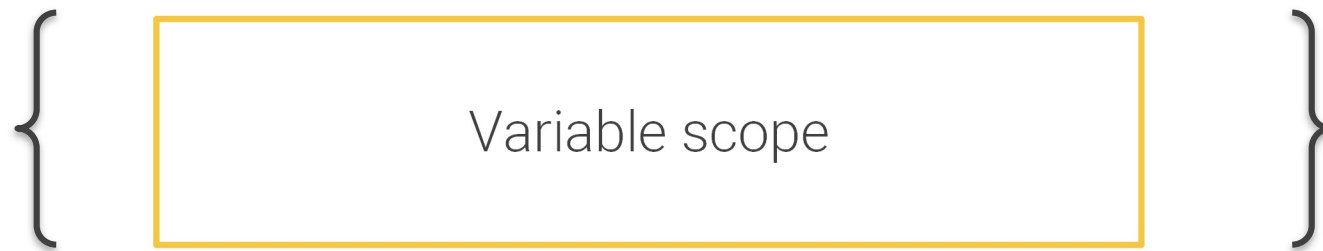

Calculadora peso ideal

```
public void calculadoraPesoIdeal(int altura){  
    double pesoIdealHombre = (altura-100)-((altura-100-52)*0.2);  
    double pesoIdealMujer = (altura-100)-((altura-100-52)*0.4);  
    System.out.println("Tu peso ideal si eres hombre es: "+pesoIdealHombre+"kg");  
    System.out.println("Tu peso ideal si eres mujer es: "+pesoIdealMujer+"kg");  
}
```



Local variables

1. Parameters and local variables



A set of curly braces
defines a variable scope

Calculadora peso ideal

```
public void calculadoraPesoIdeal(int altura){  
    double pesoIdealHombre = (altura-100)-((altura-100-52)*0.2);  
    double pesoIdealMujer = (altura-100)-((altura-100-52)*0.4);  
    System.out.println("Tu peso ideal si eres hombre es: "+pesoIdealHombre+"kg");  
    System.out.println("Tu peso ideal si eres mujer es: "+pesoIdealMujer+"kg");  
}
```

1. Parameters and local variables

```
public void method(int altura){
```

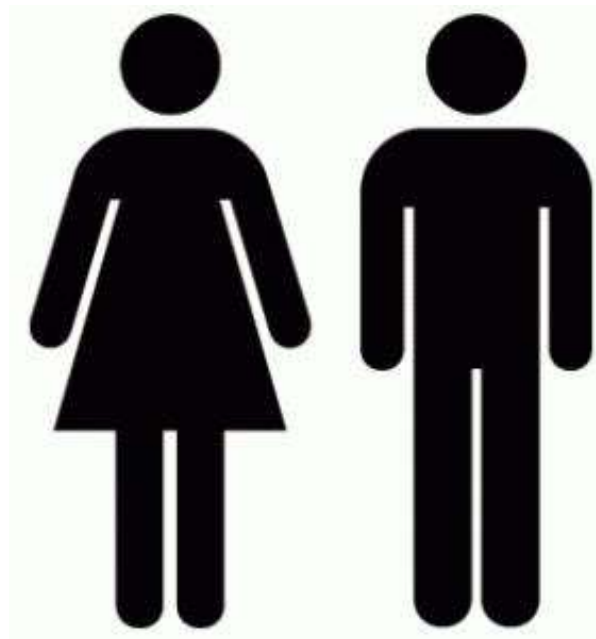
```
int altura = 10;
```

```
...
```

```
}
```

Error compilation
Method parameter and local variable can't be
defined using the same name in a method

Calculadora peso ideal



175cm

1. Parameters and local variables

```
calculadoraPesoIdeal(175);
```



Method calling

Print output

Tu peso ideal si eres hombre es: 70.4 kg
Tu peso ideal si eres mujer es: 65.8 kg

Multiple parameters

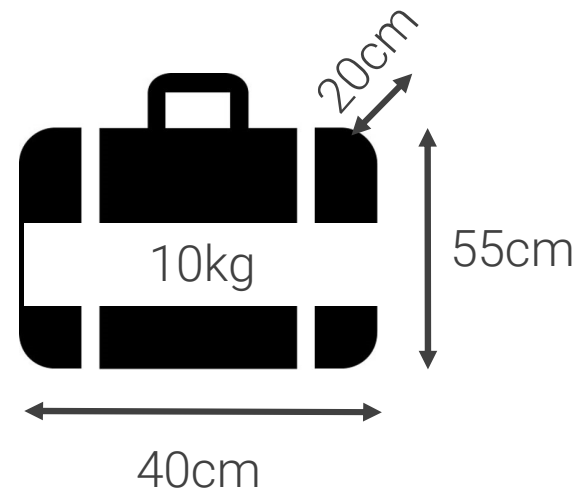
2. Multiple parameters

What cabin baggage can I carry?



2. Multiple parameters

What cabin baggage can I carry?



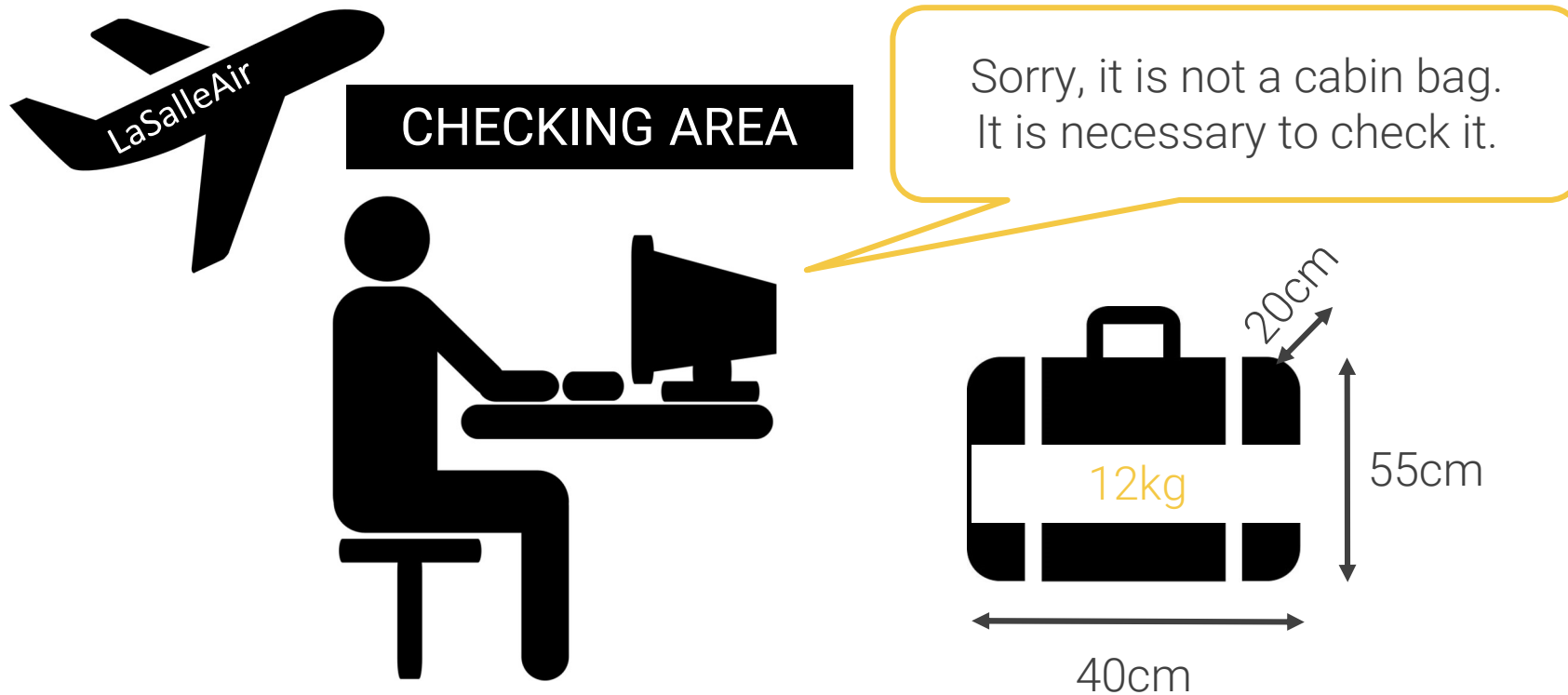
2. Multiple parameters

What cabin baggage can I carry?



2. Multiple parameters

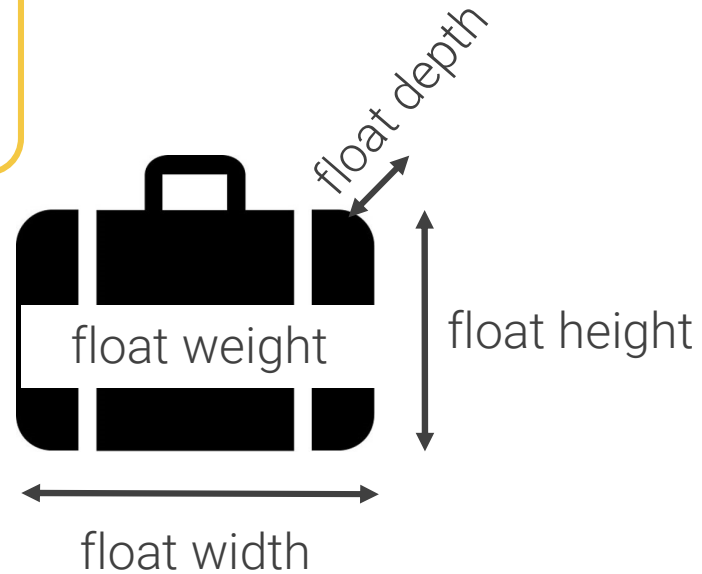
What cabin baggage can I carry?



2. Multiple parameters

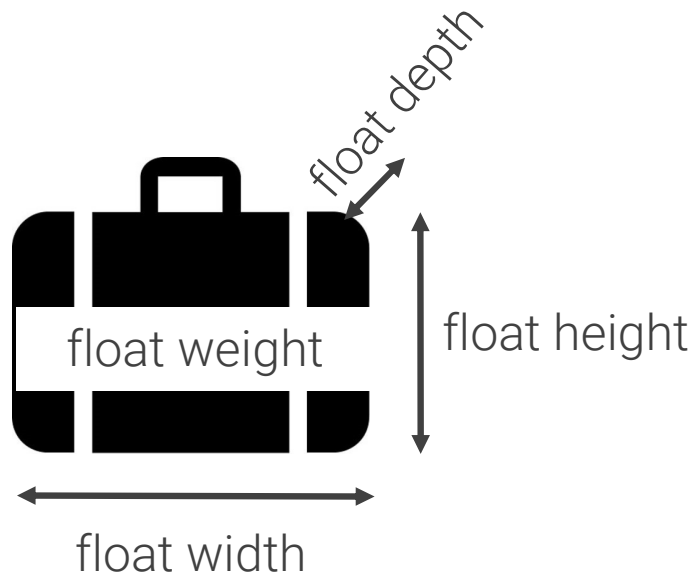
checkingCabinBag method

Method parameters



2. Multiple parameters

checkingCabinBag method



float weight

float height

float width

float depth


checkingCabinBag

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

2. Multiple parameters


```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```



[Datatype] parameterName

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```



2. Multiple parameters

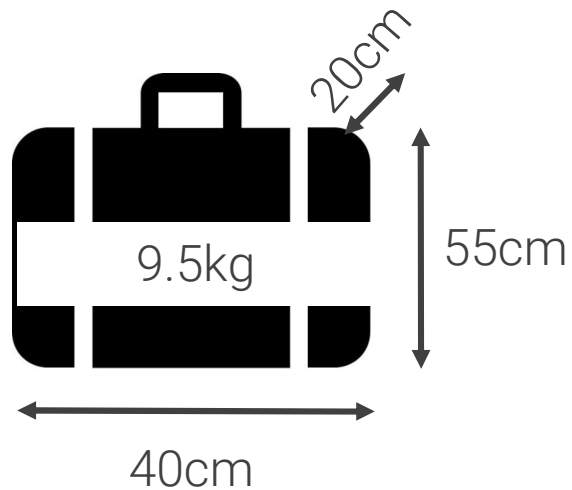
```
public void checkingCabinBag(..., float depth, boolean priority){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

2. Multiple parameters

```
checkingCabinBag(9.5,55,40,20);
```



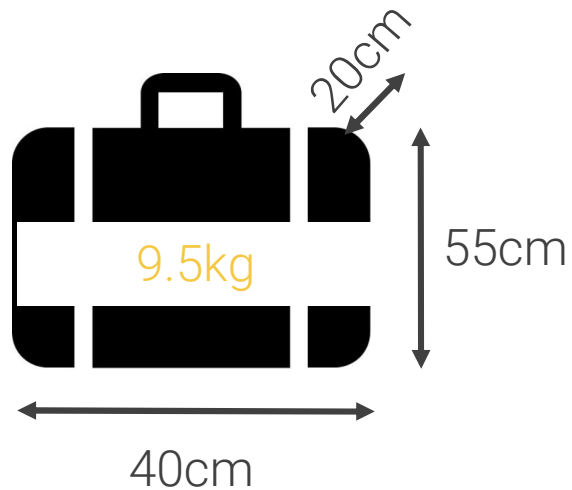
Method calling

```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

2. Multiple parameters

```
checkingCabinBag(9.5,55,40,20);
```



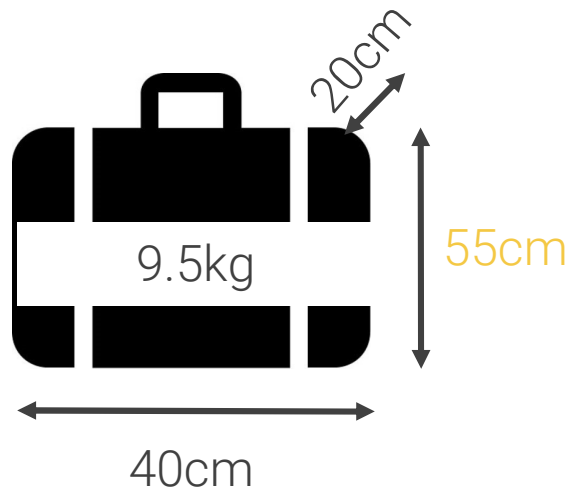
Method calling

```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

2. Multiple parameters

```
checkingCabinBag(9.5,55,40,20);
```



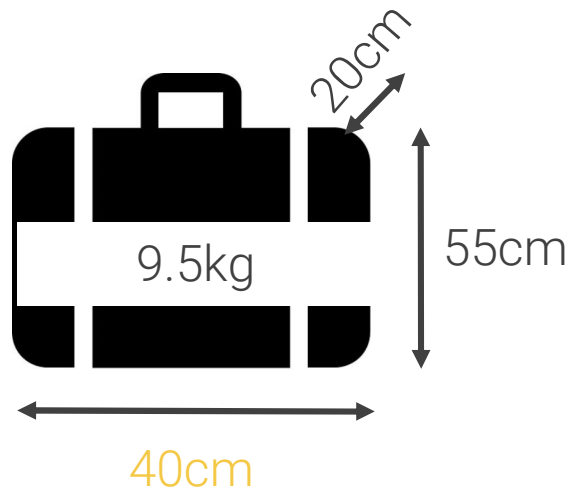
Method calling

```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

2. Multiple parameters

```
checkingCabinBag(9.5,55,40,20);
```



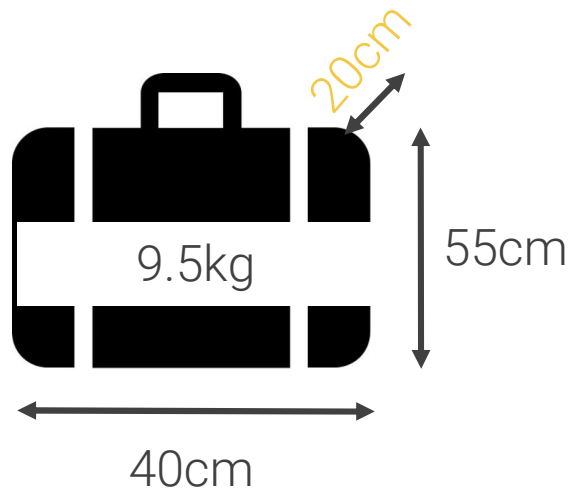
Method calling

```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

2. Multiple parameters

```
checkingCabinBag(9.5,55,40,20);
```



Method calling

```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```


2. Multiple parameters

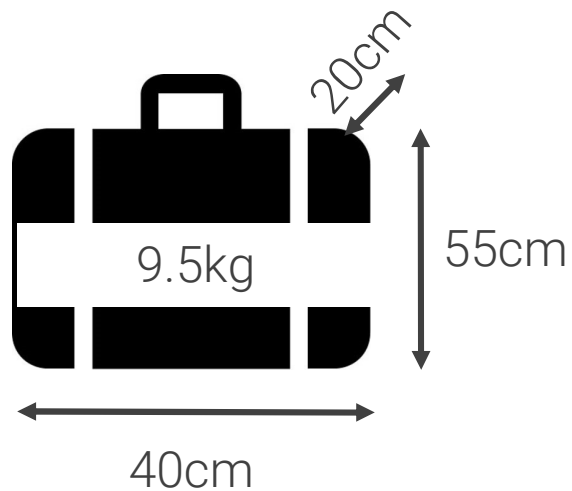
```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

2. Multiple parameters

```
checkingCabinBag(9.5,55,40,20);
```



Method calling

Print output

Ok, it is a cabin bag.

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

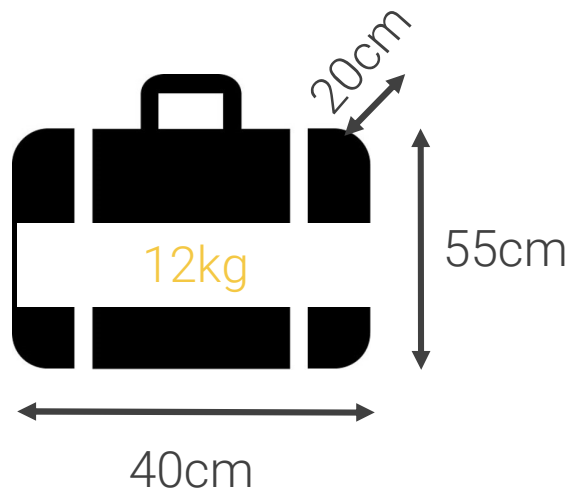
true

```
checkingCabinBag(9.5,55,40,20);
```

Method calling

2. Multiple parameters

```
checkingCabinBag(12,55,40,20);
```



Method calling

Print output

Sorry, it is not a cabin bag.
It is necessary to check it.

2. Multiple parameters

```
public void checkingCabinBag(float weight, float height, float width, float depth){  
    final float MAX_WEIGHT = 10.0f; //kg  
    final float MAX_HEIGHT = 55.0f; //cm  
    final float MAX_WIDTH = 40.0f; //cm  
    final float MAX_DEPTH = 20.0f; //cm  
    boolean isCabinBag=weight<=MAX_WEIGHT && height<=MAX_HEIGHT && width<=MAX_WIDTH && depth<=MAX_DEPTH;  
    if (isCabinBag){  
        System.out.println("Ok, it is a cabin bag.");  
    }else{  
        System.out.println("Sorry, it is not a cabin bag.");  
        System.out.println("It is necessary to check it.");  
    }  
}
```

false

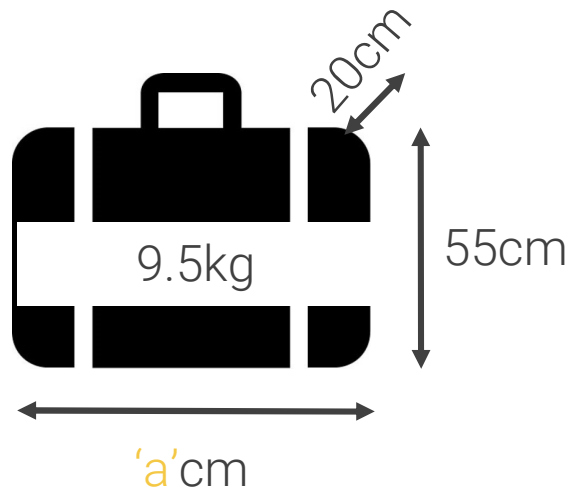
checkingCabinBag(12,55,40,20);

Method calling

2. Multiple parameters

Arguments type and order are important

```
checkingCabinBag(9.5,55,'a',20);
```



Method calling

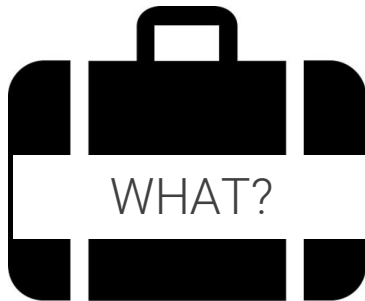
```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

2. Multiple parameters

Arguments type and order are important

```
checkingCabinBag(55,20,40,9.5);
```



Method calling

```
public void checkingCabinBag(float weight, float height,  
float width, float depth){  
    //block of code  
}
```

Method
definition

“Cuando hay una tormenta los pájaros se esconden, pero las águilas vuelan más alto.”

Mahatma Gandhi, abogado, político y pensador indio

