

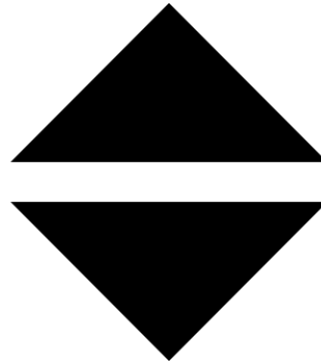


1. Sorting an array

Sorting an array

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BubbleSort

1. Sorting an array

6 5 3 1 8 7 2 4

<https://es.wikipedia.org/wiki/Archivo:Bubble-sort-example-300px.gif>

1. Sorting an array

BubbleSort: ascending order

```
float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};
for (int i=0; i<scores.length-1;i++){
    for (int j=i+1;j<scores.length;j++){
        if (scores[i]>scores[j]){
            float cambio = scores[i];
            scores[i] = scores[j];
            scores[j]=cambio;
        }
    }
}

System.out.println("El array ordenado es: ");
for (int i=0; i<scores.length;i++){
    System.out.print(scores[i]+" ");
}
System.out.println();
```

Prints
5.0 6.0 7.5 10.0 10.0

1. Sorting an array

BubbleSort: ascending order

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float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};
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            scores[i] = scores[j];
            scores[j]=cambio;
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1. Sorting an array

BubbleSort: ascending order

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for (int i=0; i<scores.length-1;i++){  
    for (int j=i+1;j<scores.length;j++){  
        if (scores[i]>scores[j]){  
            float cambio = scores[i];  
            scores[i] = scores[j];  
            scores[j]=cambio;  
        }  
    }  
}
```

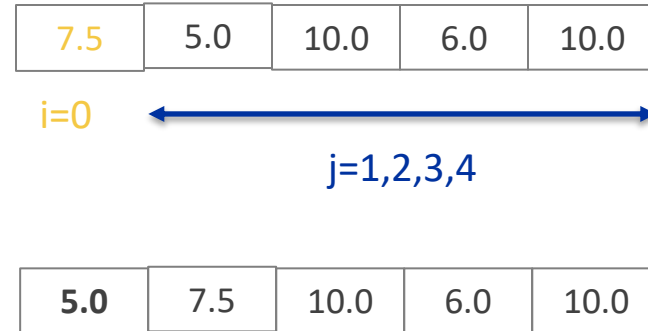
```
System.out.println("El array ordenado es: ");  
for (int i=0; i<scores.length;i++){  
    System.out.print(scores[i]+" ");  
}  
System.out.println();
```

Prints
5.0 6.0 7.5 10.0 10.0

1. Sorting an array

BubbleSort: ascending order

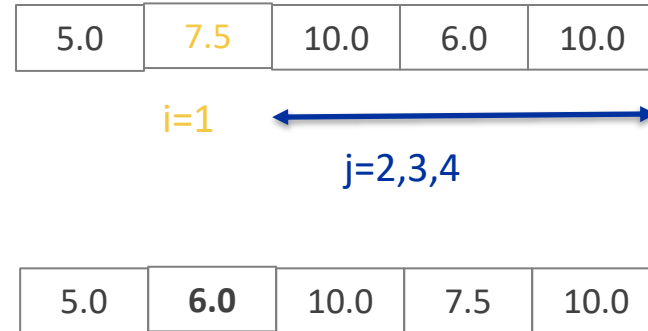
```
float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};  
for (int i=0; i<scores.length-1;i++){  
    for (int j=i+1;j<scores.length;j++){  
        if (scores[i]>scores[j]){  
            float cambio = scores[i];  
            scores[i] = scores[j];  
            scores[j]=cambio;  
        }  
    }  
}
```



1. Sorting an array

BubbleSort: ascending order

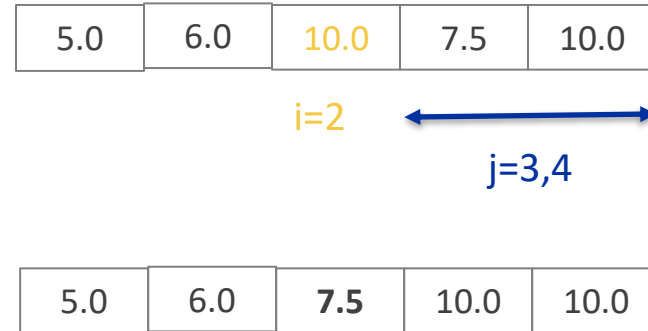
```
float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};  
for (int i=0; i<scores.length-1;i++){  
    for (int j=i+1;j<scores.length;j++){  
        if (scores[i]>scores[j]){  
            float cambio = scores[i];  
            scores[i] = scores[j];  
            scores[j]=cambio;  
        }  
    }  
}
```



1. Sorting an array

BubbleSort: ascending order

```
float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};  
for (int i=0; i<scores.length-1;i++){  
    for (int j=i+1;j<scores.length;j++){  
        if (scores[i]>scores[j]){  
            float cambio = scores[i];  
            scores[i] = scores[j];  
            scores[j]=cambio;  
        }  
    }  
}
```



BubbleSort: descending order

```
float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};
for (int i=0; i<scores.length-1;i++){
    for (int j=i+1;j<scores.length;j++){
        if (scores[i]<scores[j]){
            float cambio = scores[i];
            scores[i] = scores[j];
            scores[j]=cambio;
        }
    }
}

System.out.println("El array ordenado es: ");
for (int i=0; i<scores.length;i++){
    System.out.print(scores[i]+" ");
}
System.out.println();
```

Prints
10.0 10.0 7.5 6.0 5.0

1. Sorting an array

java.util.Arrays

```
float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};
```

```
Arrays.sort(scores);
```

```
System.out.println("El array ordenado es: ");  
for (int i=0; i<scores.length;i++){  
    System.out.print(scores[i]+" ");  
}  
System.out.println();
```

Prints
5.0 6.0 7.5 10.0 10.0

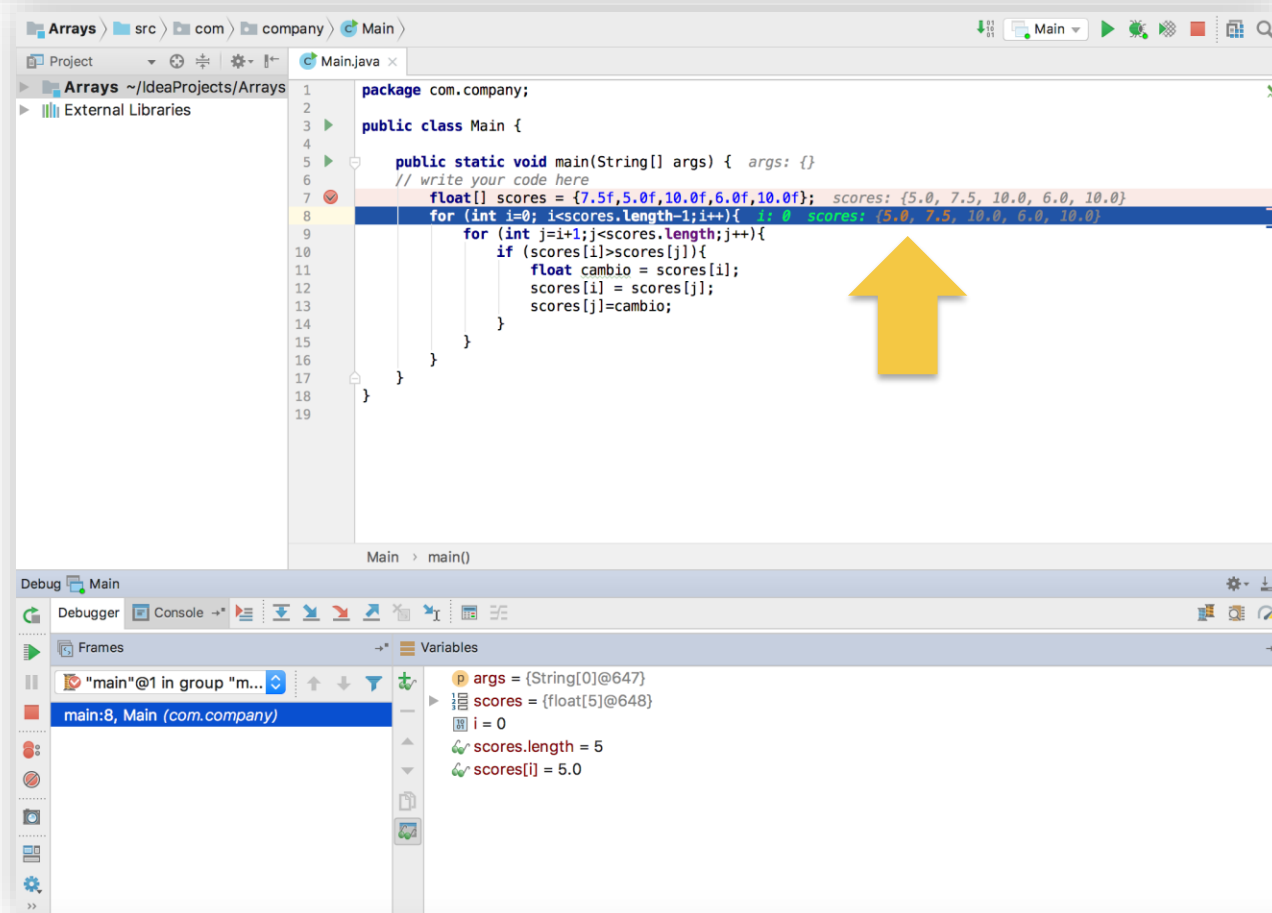
1. Sorting an array



```
pany > Main >
Main.java x
1 package com.company;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         // write your code here
7         float[] scores = {7.5f,5.0f,10.0f,6.0f,10.0f};
8         for (int i=0; i<scores.length-1;i++){
9             for (int j=i+1;j<scores.length;j++){
10                 if (scores[i]>scores[j]){
11                     float cambio = scores[i];
12                     scores[i] = scores[j];
13                     scores[j]=cambio;
14                 }
15             }
16         }
17     }
18 }
```



1. Sorting an array



```
package com.company;

public class Main {

    public static void main(String[] args) { args: {}
        // write your code here
        float[] scores = {7.5f, 5.0f, 10.0f, 6.0f, 10.0f}; scores: {5.0, 7.5, 10.0, 6.0, 10.0}
        for (int i=0; i<scores.length-1;i++){ i: 0 scores: {5.0, 7.5, 10.0, 6.0, 10.0}
            for (int j=i+1;j<scores.length;j++){
                if (scores[i]>scores[j]){
                    float cambio = scores[i];
                    scores[i] = scores[j];
                    scores[j]=cambio;
                }
            }
        }
    }
}
```

Debug Main

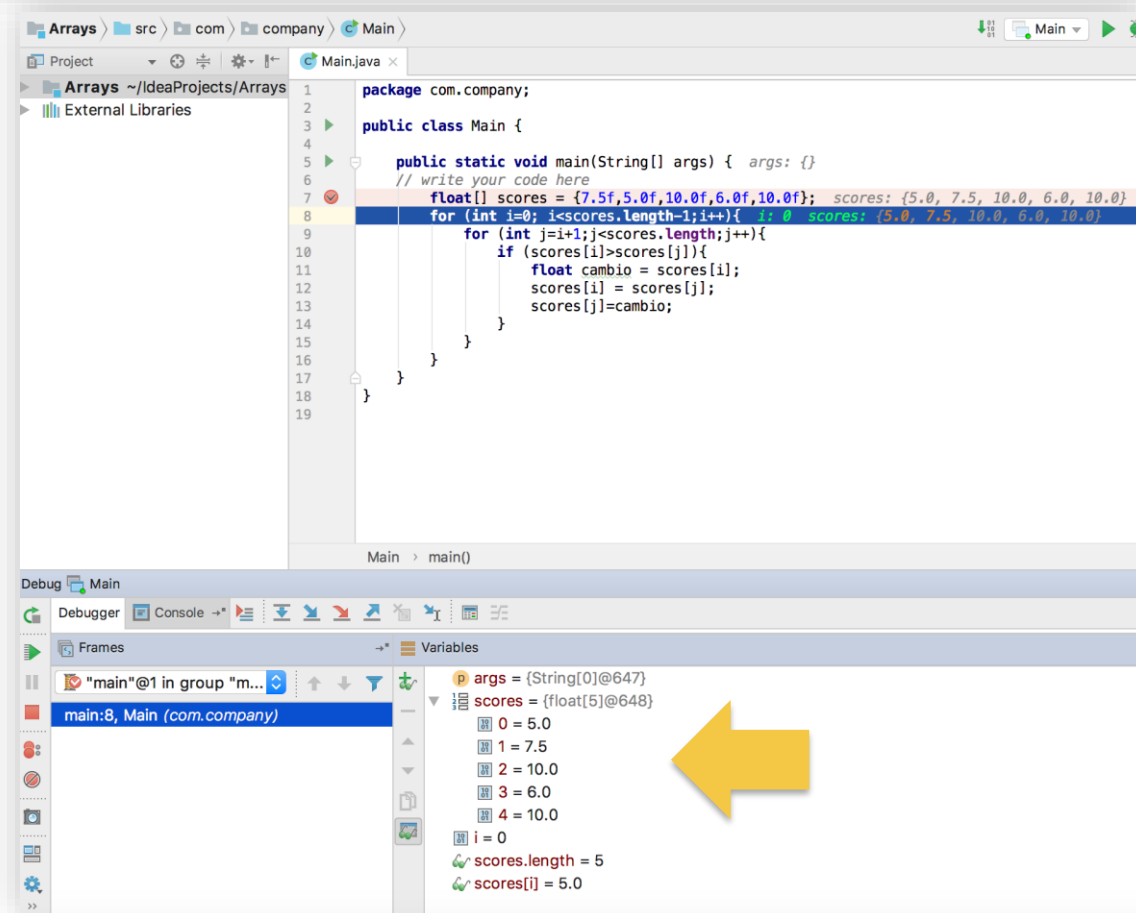
Frames

- "main"@1 in group "m..."
- main:8, Main (com.company)

Variables

- args = {String[0]@647}
- scores = {float[5]@648}
- i = 0
- scores.length = 5
- scores[i] = 5.0

1. Sorting an array



“La lógica te llevará desde el punto A al B. La imaginación te llevará a todas partes. “

Albert Einstein

