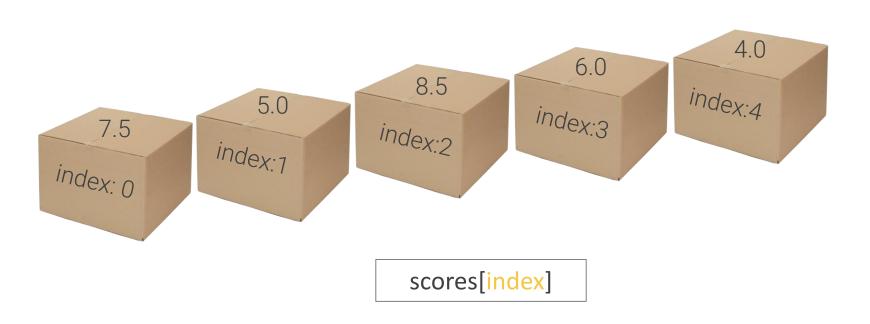


- Accessing and modifying an array
- 2. Length property
- 3. Iterating over an array

Accesing, modifying and iterating over an array

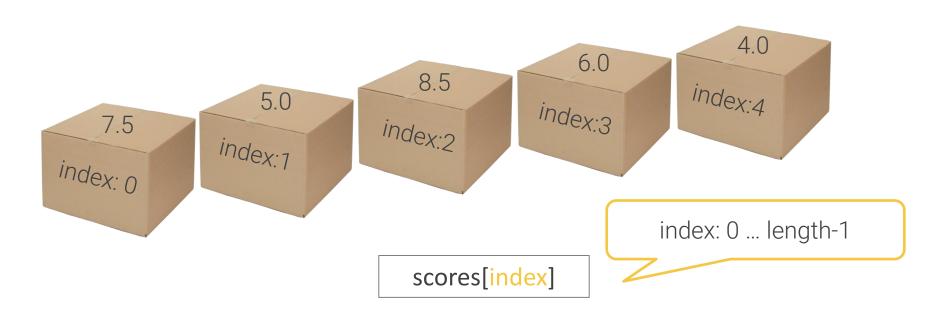


scores











No valid index

Execution error: IndexOutOfBoundsException

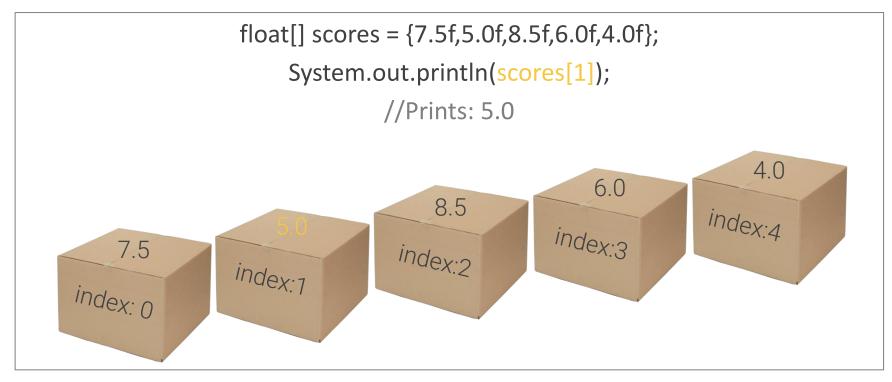


It is not possible to manipulate an array using the array identifier directly

```
int[] a = \{10,20,30,40,50\};
int[] b = \{60,70,80,90,100\};
int[] c = a + b
                Access to each element is necessary
```



Accesing an array



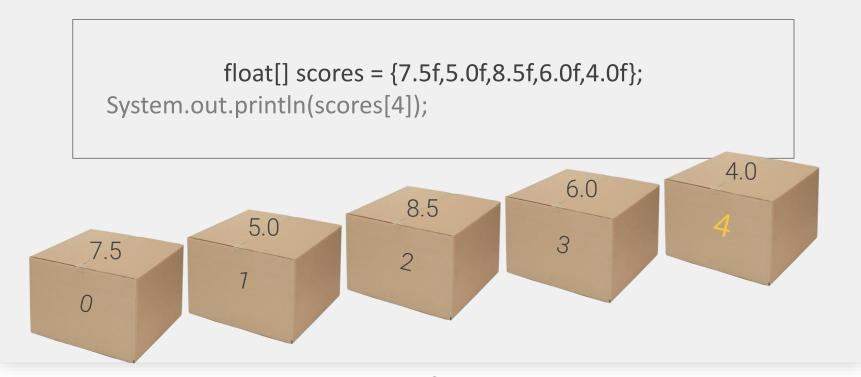


¿Qué instrucción usarías para mostrar el último elemento del array?

```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
//insert code here
```

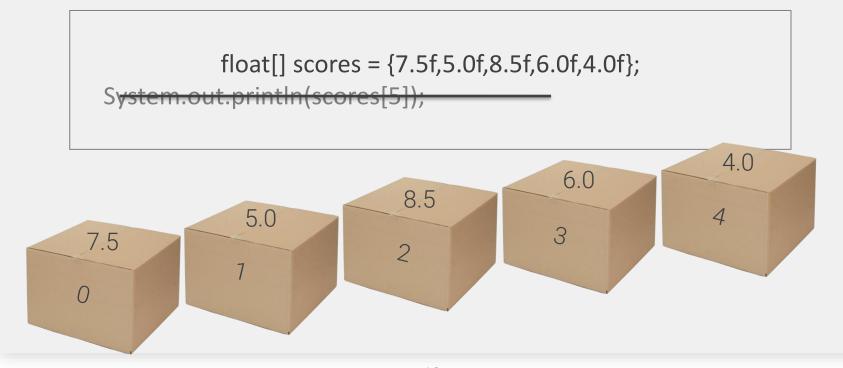


¿Qué instrucción usarías para mostrar el último elemento del array?





¿Qué instrucción usarías para mostrar el último elemento del array?





¿Cual será el valor de s?

```
double[] numeros= {4.0,6.2,3.75,5.1,9.99};
double s = numeros[0] + numeros[3]
```

- a. 4.0
- b. 9.1
- c. 9.99
- d. 5.1



¿Cual será el valor de s?

```
double[] numeros= {4.0,6.2,3.75,5.1,9.99};
double s = numeros[0] + numeros[3]
```

- a. 4.0
- b. 9.1 //= 4.0 + 5.1
- c. 9.99
- d. 5.1



Modifying an array



Modifying an array

```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};

scores[1] = 9.99f;

System.out.println(scores[1]);

//Prints: 9.99
```



```
int[] array= new int[5];
array[0]++;
array[0]*=5
array[1]+=2;
```

- a. 0
- b. 1
- c. 5
- d. 7



```
int[] array= new int[5];
array[0]++; //1
array[0]*=5 //5
array[1]+=2;
```

- a. 0
- b. 1
- c. 5 //0+1=1->1*5=5
- d. 7



```
int[] array= new int[5];
array[0]++; //1
array[0]*=5 //5
array[1]+=2;
```

- a. 0
- b. 1
- c. 5 //0+1=1->1*5=5
- d. 7



```
int[] array= new int[5];
array[0]++; //1
array[0]*=5 //5
array[1]+=2;
```

- a. 0
- b. 1
- c. 5 //0+1=1->1*5=5
- d. 7

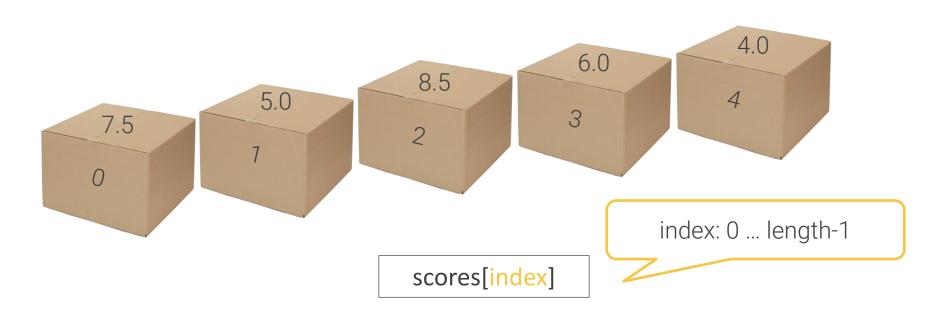


```
int[] array= new int[5];
array[0]++; //1
array[0]*=5 //5
array[1]+=2;
```

- a. 0
- b. 1
- c. 5 //0+1=1->1*5=5
- d. 7





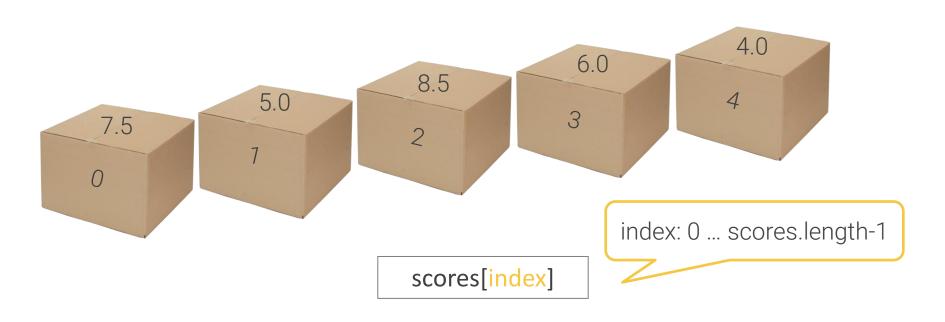




```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
int longitud = scores.length; //5
```



scores





```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
int posicion= //valor introducido por el usuario
```

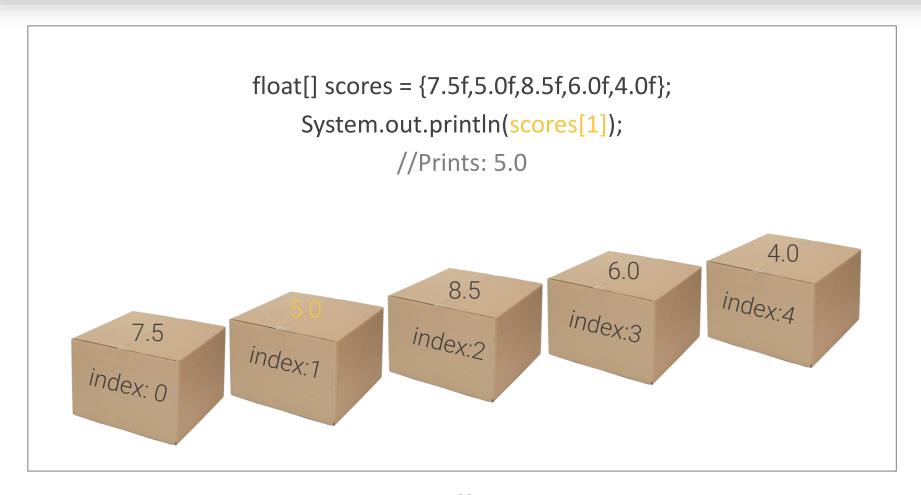


```
float[] scores = \{7.5f, 5.0f, 8.5f, 6.0f, 4.0f\};
int posicion= //valor introducido por el usuario
if ((posicion>=0) && (posicion<scores.length)){
    System.out.println(scores[posicion]);
}else{
  System.out.println("La posición introducida no existe");
```



```
float[] scores = \{7.5f, 5.0f, 8.5f, 6.0f, 4.0f\};
int posicion= //valor introducido por el usuario
if ((posicion>=0) && (posicion<scores.length)){
    System.out.println(scores[posicion]);
}else{
  System.out.println("La posición introducida no existe");
```







```
float[] scores = \{7.5f, 5.0f, 8.5f, 6.0f, 4.0f\};
    System.out.println(scores[0]);
    System.out.println(scores[1]);
    System.out.println(scores[4]);
```



```
float[] scores = \{7.5f, 5.0f, 8.5f, 6.0f, 4.0f\};
for ( loop counter ; loop condition ; loop increment) {
//code block
// will execute as long as loop condition is true
//more code
```



```
float[] scores = \{7.5f, 5.0f, 8.5f, 6.0f, 4.0f\};
for (loop counter; loop condition; loop increment) {
//code block
// will execute as long as loop condition is true
//more code
```



```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
for (int i=0; loop condition ; loop increment) {
//code block
// will execute as long as loop condition is true
//more code
```



```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
for (int i=0; i<scores.length; loop increment) {</pre>
//code block
// will execute as long as loop condition is true
//more code
```



```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
for (int i=0; i<scores.length; i++) {</pre>
//code block
// will execute as long as loop condition is true
//more code
```



```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
for (int i=0; i<scores.length; i++) {</pre>
  System.out.println( scores[i] );
//more code
                                                      Loop counter: 0, 1, 2, ...
```



```
for (int i=0; i<scores.length; i++) {
   System.out.println( scores[i] );
}</pre>
FOR
```

```
int i=0;

while(i<scores.length){
   System.out.println(scores[i]);
   i++;
}</pre>
WHILE
```

"El estudio sin deseo estropea la memoria y no retiene nada de lo que toma " La Salle

Leonardo Da Vinci