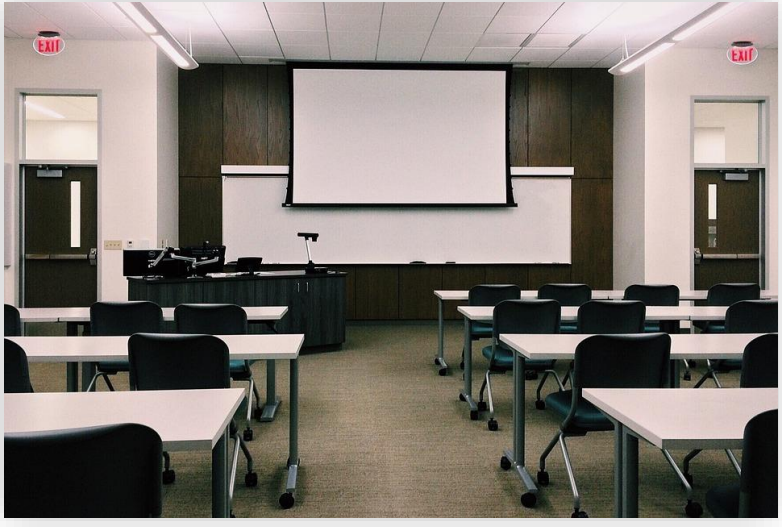
Arrays initialization

1. Collections
2. Arrays
3. Creating an array

Collections

1. Collections

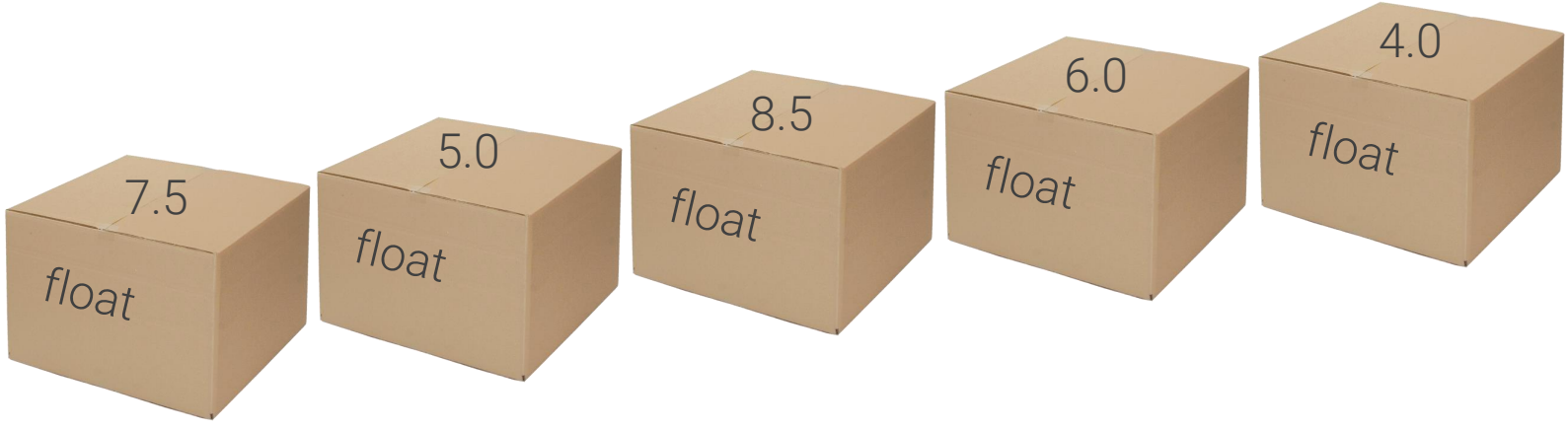


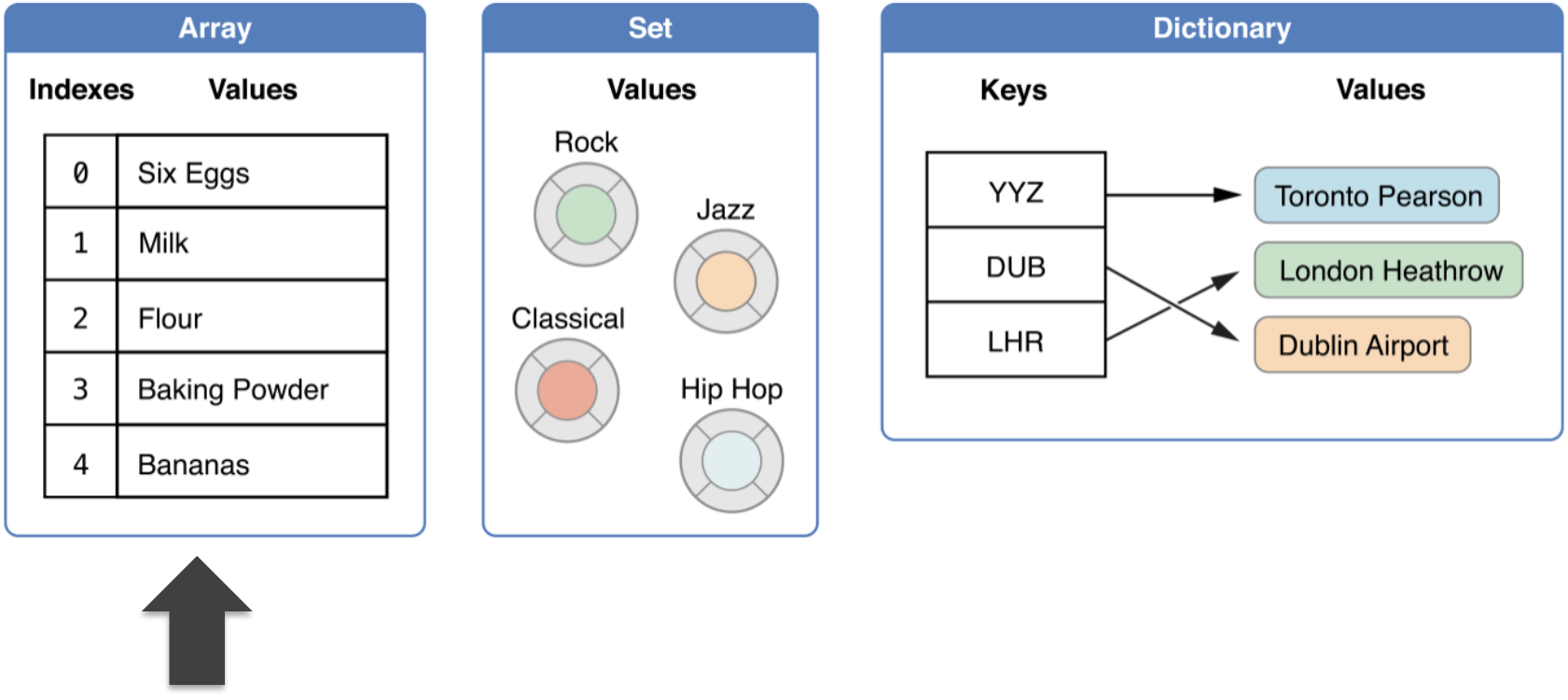
scores

1. Collections

```
float score1 = 7.5f;
float score2 = 5.0f;
float score3 = 8.5f;
float score4 = 6.0f;
float score5 = 4.0f;
…
float score25 = 7.0f;
```

scores

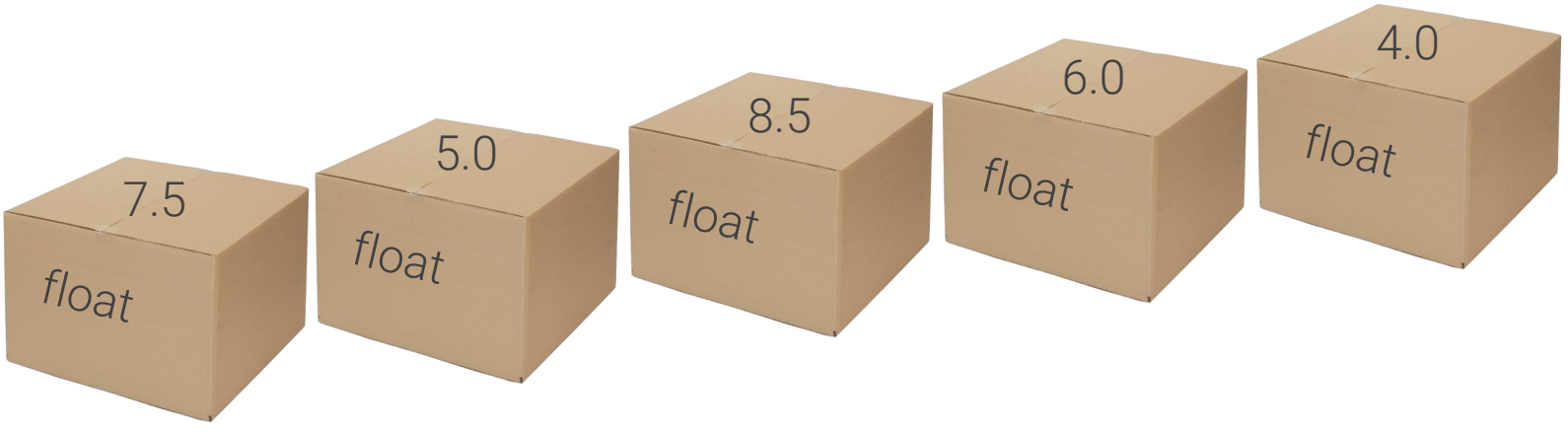



Array
Indexes
Values
0
Six Eggs
1
Milk
2
Flour
3
Baking Powder
4
Bananas
Set
Values
Rock
Jazz
Classical
Hip Hop
Dictionary
Keys
Values
YYZ
DUB
LHR
Toronto Pearson
London Heathrow
Dublin Airport

ARRAY TYPES

Static array

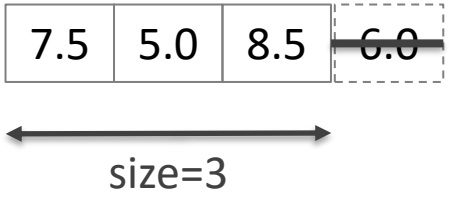
Dynamic array



ARRAY TYPES

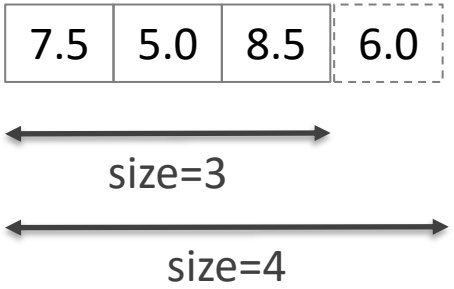
Static array

Size cannot be changed



Dynamic array

Size can be changed



ARRAY TYPES

Static array

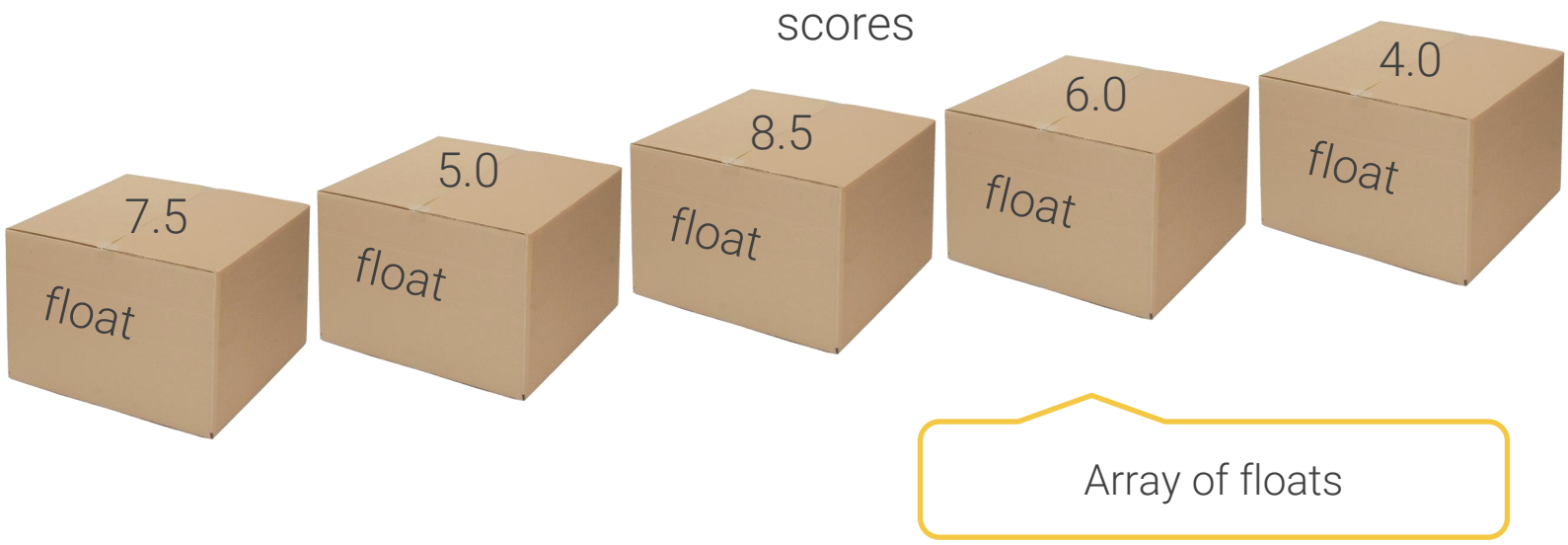
Size cannot be changed

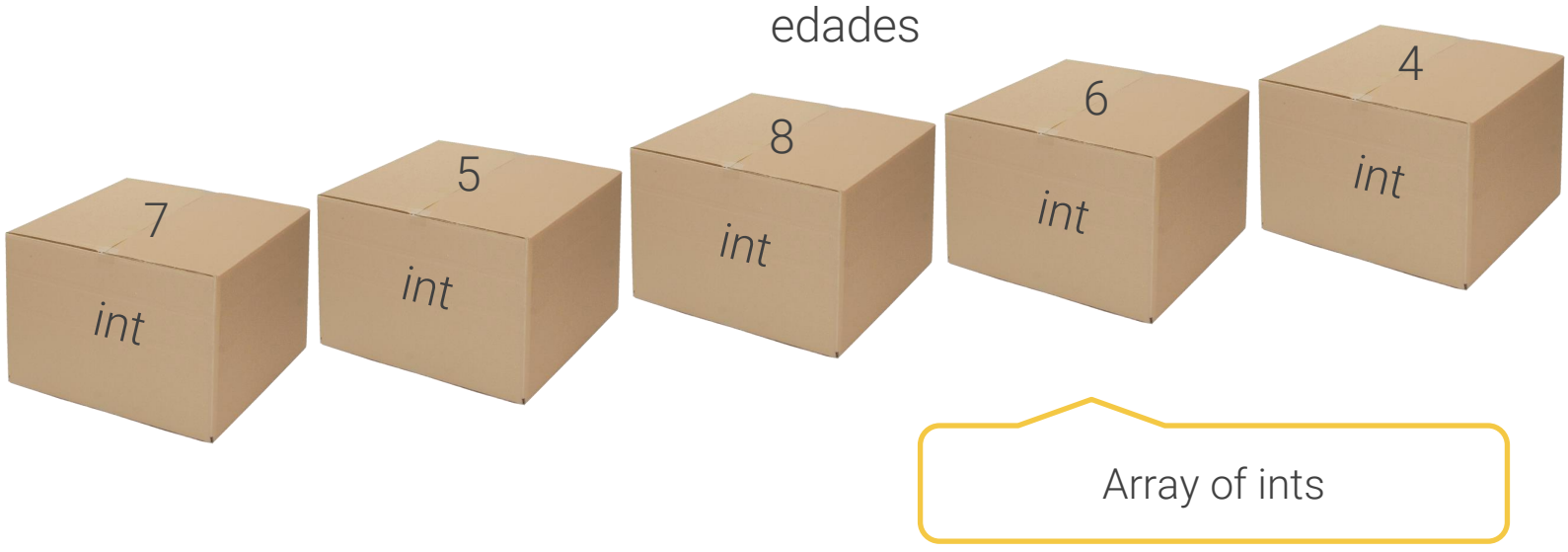
Dynamic array

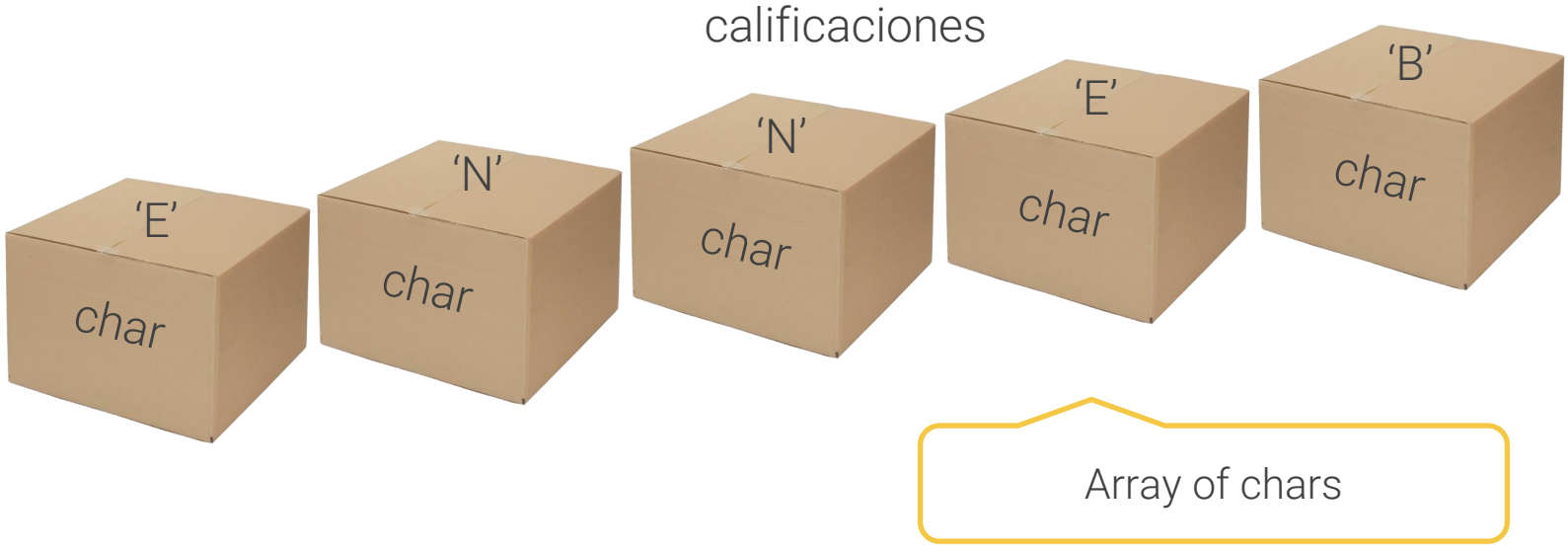
Size can be changed

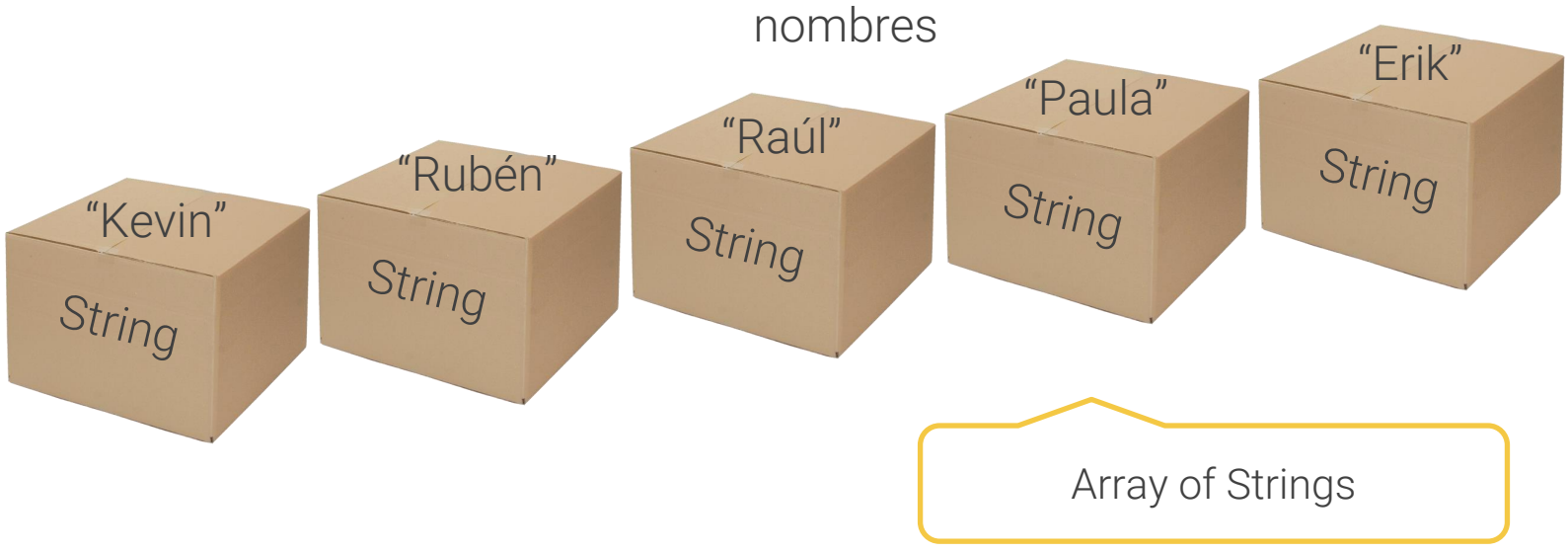
Arrays

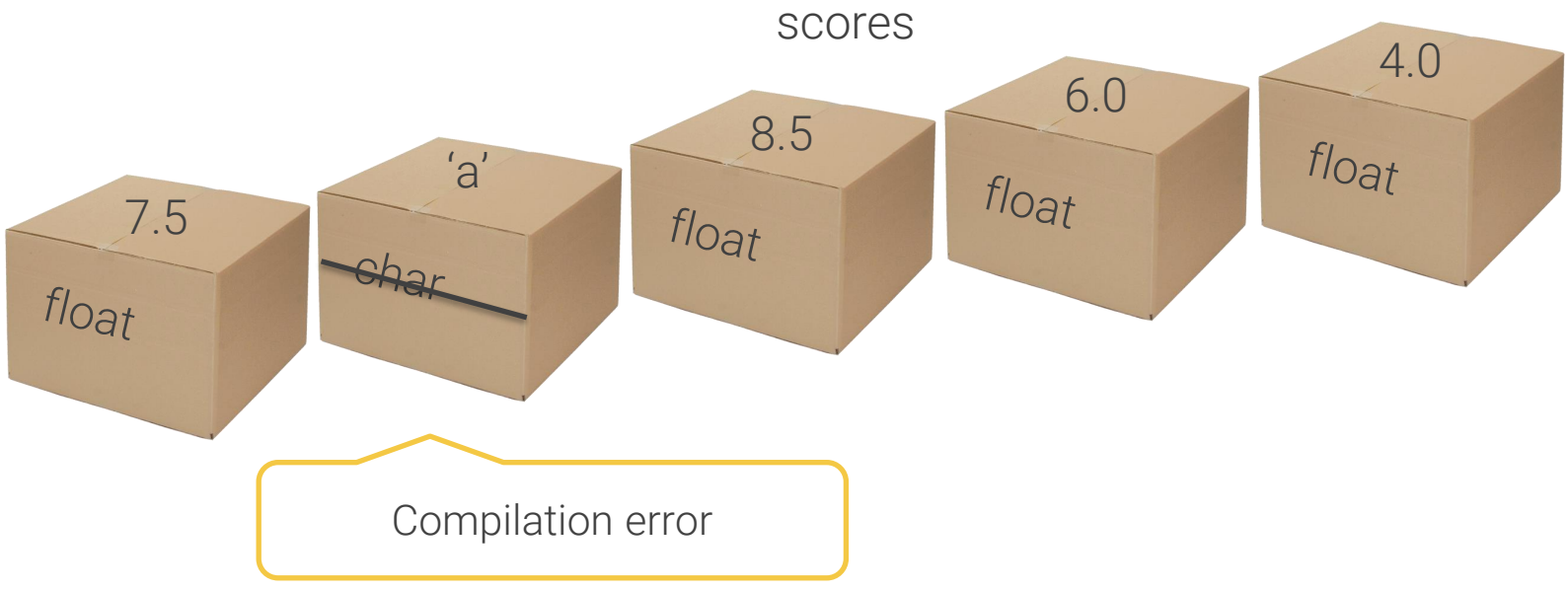
Array: data structure that contains a group of elements



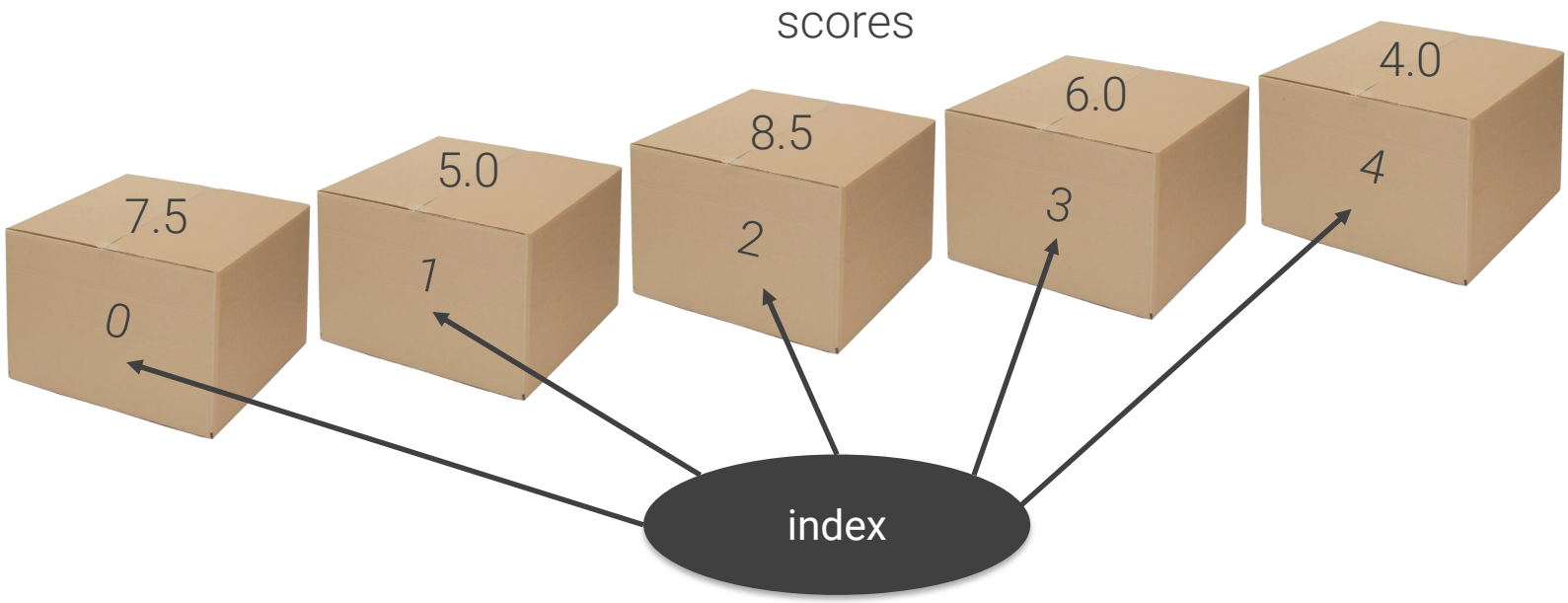

edades
7
int
5
int
8
int
6
int
4
int
Array of ints


calificaciones
'E'
char
'N'
char
'N'
char
'E'
char
'B'
char
Array of chars


nombres
"Kevin"
String
"Rubén"
String
"Raúl"
String
"Paula"
String
"Erik"
String
Array of Strings


scores
7.5
float
'a'
char
8.5
float
6.0
float
4.0
float
Compilation error

Array is an ordered list



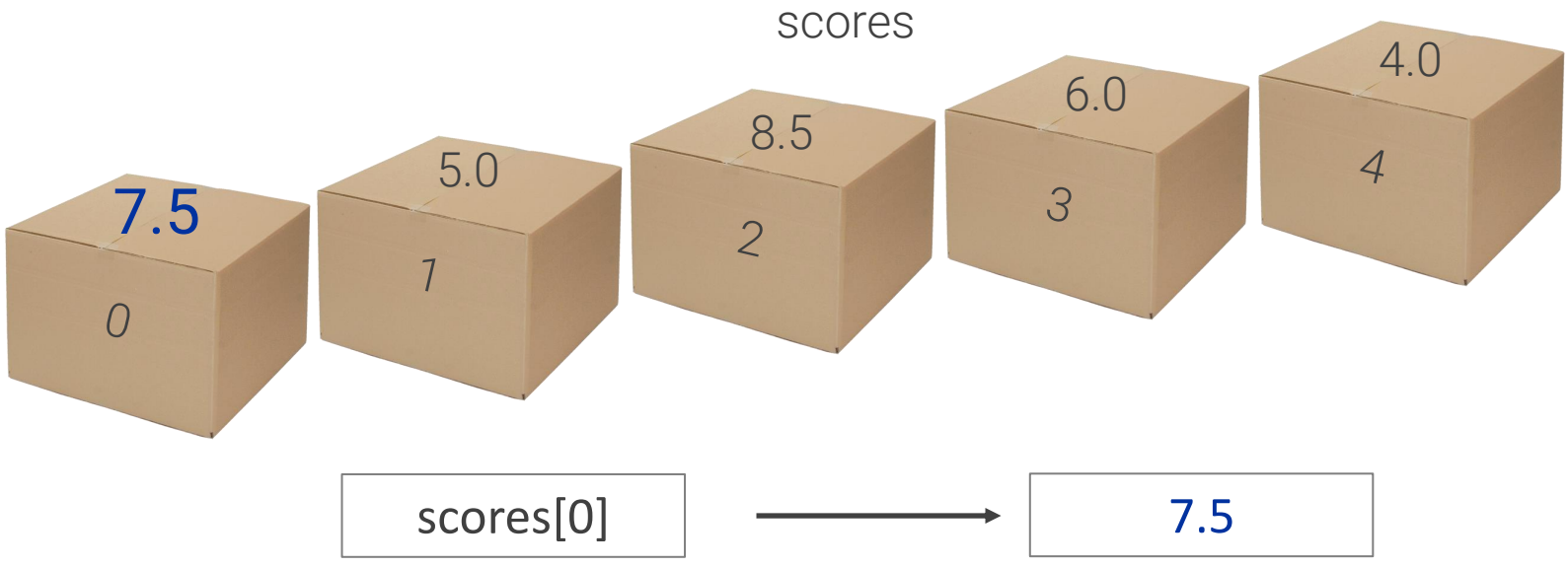
Array is an ordered list

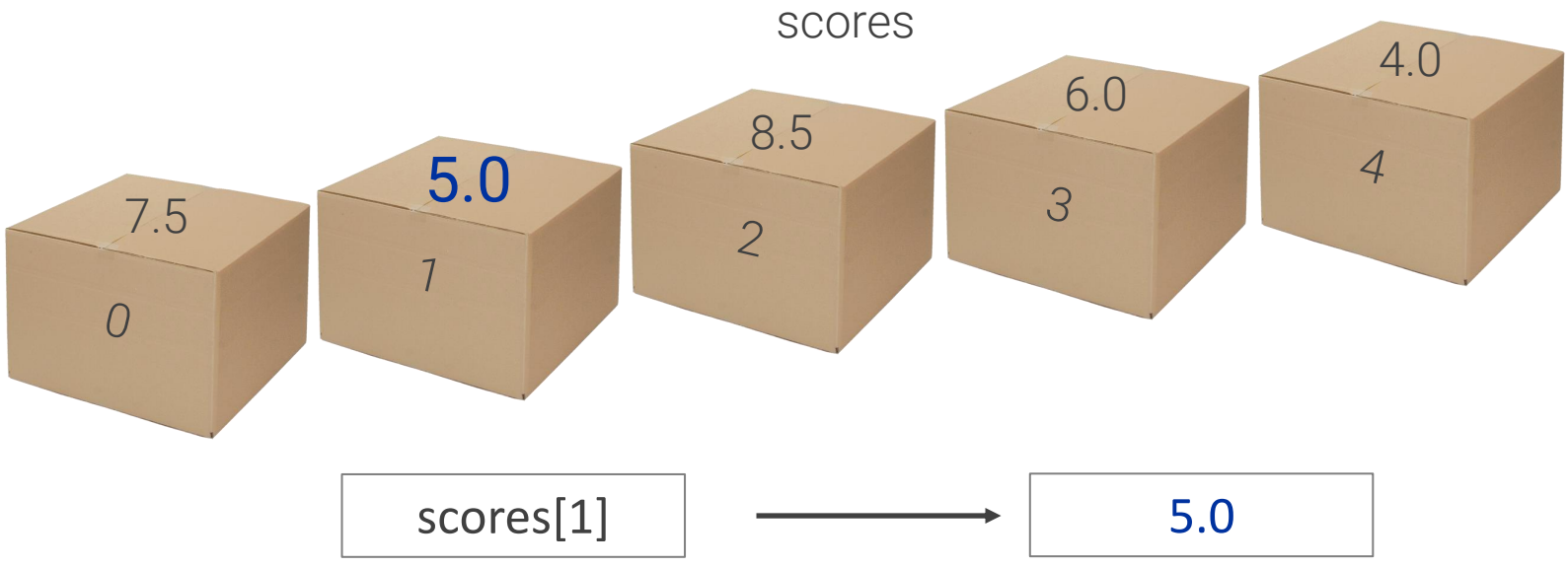
Array is an ordered list

Array is an ordered list

Array is an ordered list

Array is an ordered list


scores
7.5
0
5.0
1
8.5
2
6.0
3
4.0
4
scores[0]
7.5


scores
7.5
0
5.0
1
8.5
2
6.0
3
4.0
4
scores[1]
5.0

Creating an array

Declaring an array

```
float[] scores;
```

Declaring an array

```
float[] scores;
```

Needs initialization

```
float[] scores;
System.out.println(scores[0]);
```

Compilation error

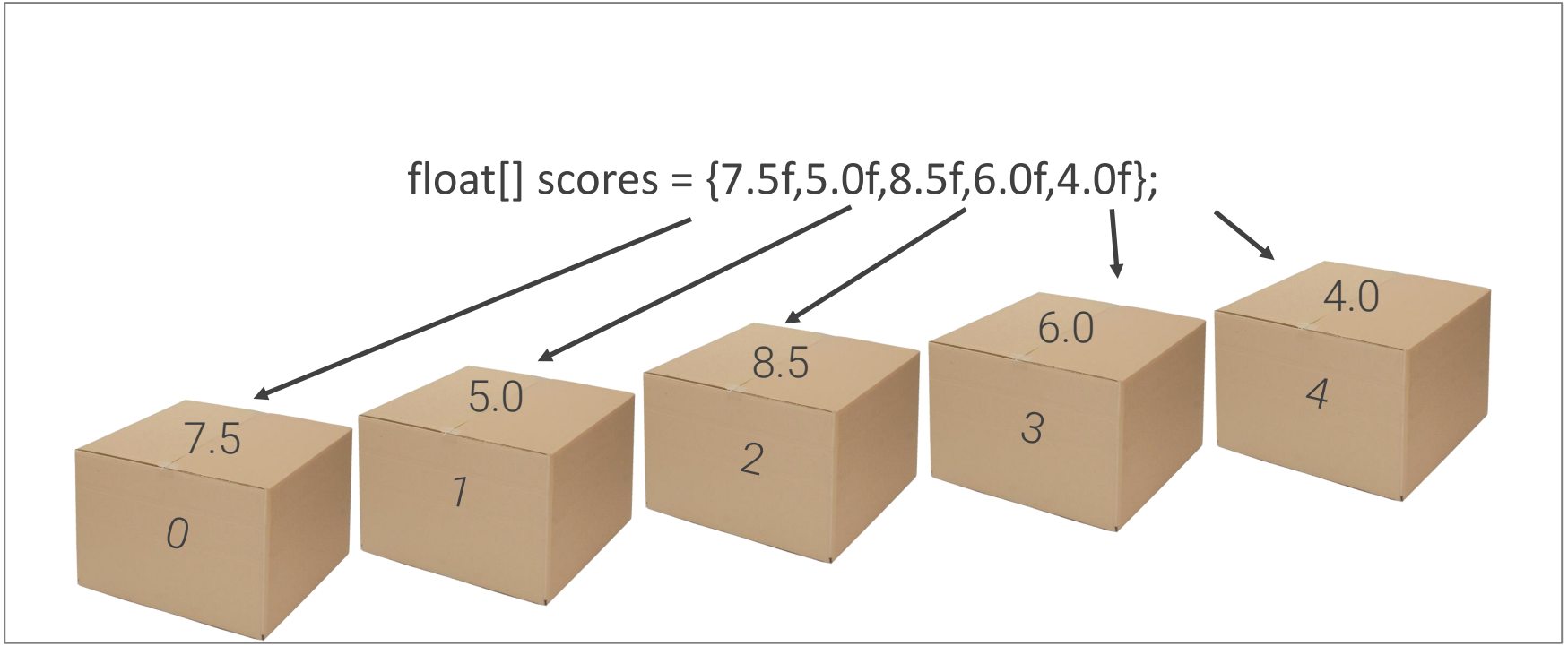
Creating an array with array literal

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

Creating an array with array literal

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

Creating an array with array literal



Creating an array with array literal

```
float[] scores = {7.5f,5.0f,8.5f,6.0f,4.0f};
System.out.println(scores[0]);
//Prints: 7.5
```

Creating an array with a default value

```
float[] scores = new float[25];
```

Creating an array with a default value

```
float[] scores = new float[25];
```

Creating an array with a default value

```
float[] scores = new int[25];
```

Compilation error

Creating an array with a default value

```
float[] scores = new float[25];
```

Array length: int number>0

Creating an array with a default value

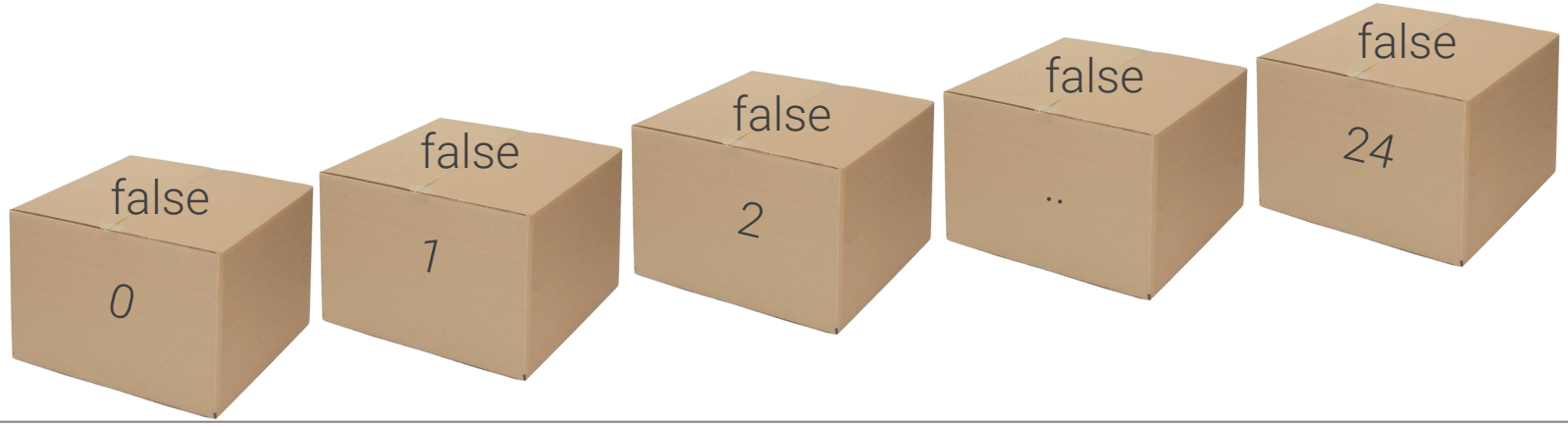
```
float[] scores = new float[25];
```

Creating an array with a default value

```
float[] scores = new float[25];
System.out.println(scores[10]);
//Prints: 0.0
```

Creating an array with a default value

boolean[] access= new boolean[25];

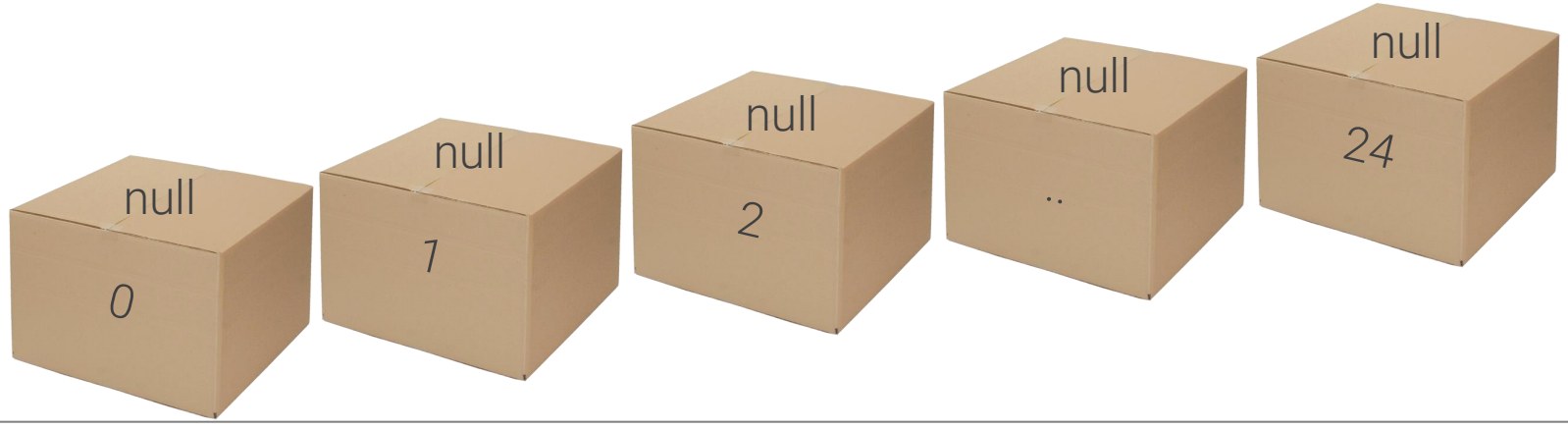


Creating an array with a default value

char[] qualifications= new char[25];

Creating an array with a default value

String[] names= new String[25];



“El aprendizaje nunca cansa a la mente“

Leonardo Da Vinci