



Programming challenges in C++

6. Using structs

Nacho Iborra

IES San Vicente



This work is licensed under the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-sa/4.0/>

Table of Contents

Programming challenges in C++

1. Using structs in C++.....	3
1.1. Using arrays of structs.....	3
1.2. Try yourself: Desarrollos en las bicicletas.....	3

1. Using structs in C++

Structs are an easy way to group different information regarding a given element or object. For instance, personal data, object coordinates, etc. To define structures in C++ we use the struct keyword, followed by the name of the struct. Inside this element, we place the fields of the struct. For instance:

```
struct person
{
    string name;
    int age;
    string telephone;
};
```

Then, we can define variables of this type, and fill the corresponding fields:

```
person p;
p.name = "Nacho";
p.age = 39;
p.telephone = "966112233";
```

1.1. Using arrays of structs

We can also create an array of these structures and fill the data of each index:

```
person people[10];
people[0].name = "Nacho";
people[0].age = 39;
people[0].telephone = "966112233";
```

1.2. Try yourself: Desarrollos en las bicicletas

Let's face [this challenge](#). You MUST solve it using structs.