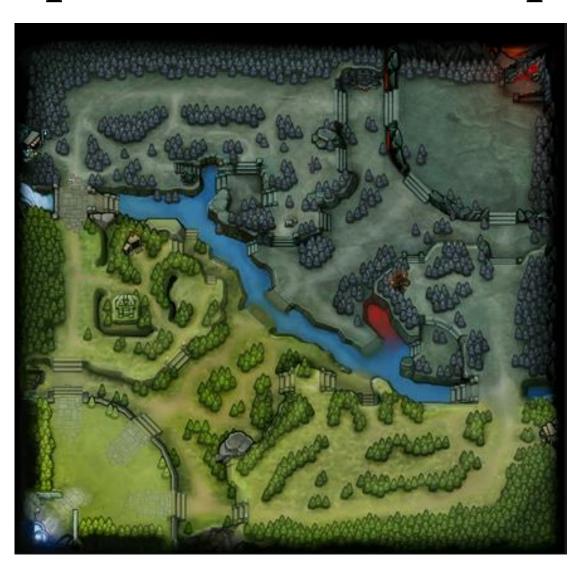# Topic 6. «Set and Map»

What are set and map?

- Set is container that stores unique elements following a specific order.

- Map is an associative container that stores elements formed by a combination of a key value and a mapped value, following a specific order.

Declaration

```cpp
#include <set>
set <int> A;


#include <map>
map <string, int> name_to_IQ;
```

How to access elements in map?

```
name_to_IQ["Bob"] = 80;
name_to_IQ["Alice"] = name_to_IQ["Bob"];
```

Methods

- size() – the number of elements in set/map;
- clear() – to remove all the elements from set/map;
- erase(…) – remove some element from set/map;
- insert(…) – add element some element to the set/map;
- count(…) – how many elements with the specified value in the set/map?

Questions?