## C++ Programming STL Map

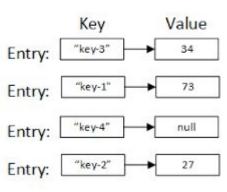
Mostafa S. Ibrahim
Teaching, Training and Coaching since more than a decade!

Artificial Intelligence & Computer Vision Researcher PhD from Simon Fraser University - Canada Bachelor / Msc from Cairo University - Egypt Ex-(Software Engineer / ICPC World Finalist)



## Map

```
#include<vector>
   using namespace std;
 6@ void print(const map<string, int> &mp) {
       // You could iterate on map and set normally like vector.
 8
       for (const pair<string, int> &item : mp)
                                                   // const with &
 9
           cout << item.first << "-" << item.second << " | ":
10
       cout << "\n";
11 }
12
13@int main() {
14
       map<string, int> mp;
                                // Array with index not integer
15
       mp["mostafa"] = 10;
       mp["Saad"] = 20;
16
17
       mp["mostafa"] = 30;
       mp["Mostafa"] = 40;
18
19
20
       print(mp); // Mostafa-40 | Saad-20 |
                                              mostafa-30
21
22
       auto it = mp.find("Saad");
23
24
       if (it != mp.end())
25
           mp.erase(it);
26
27
       print(mp); // Mostafa-40 | mostafa-30
28
       cout << mp.count("Mostafa") << "\n";
29
```



## More

"Acquire knowledge and impart it to the people."

"Seek knowledge from the Cradle to the Grave."