Unordered Map

Unordered map is similar to maps except that it is unordered and there is no sorting of keys. Internally, unordered map is implemented using Hash Table, the key provided to map is hashed into indices of a hash table which is why the performance of data structure depends on the hash function a lot but on average, the cost of search, insert, and delete from the hash table is O(1).

In the worst case, its time complexity can go from O(1) to O(n), especially for big prime numbers. In this situation, it is highly advisable to use a map instead to avoid getting a TLE(Time Limit Exceeded) error.

1. To use an unordered map, you have to include the 'unordered map' header file

#include <unordered_map>

2. The syntax to declare an unordered map is:

std::unordered_map<key_type, value_type> name;