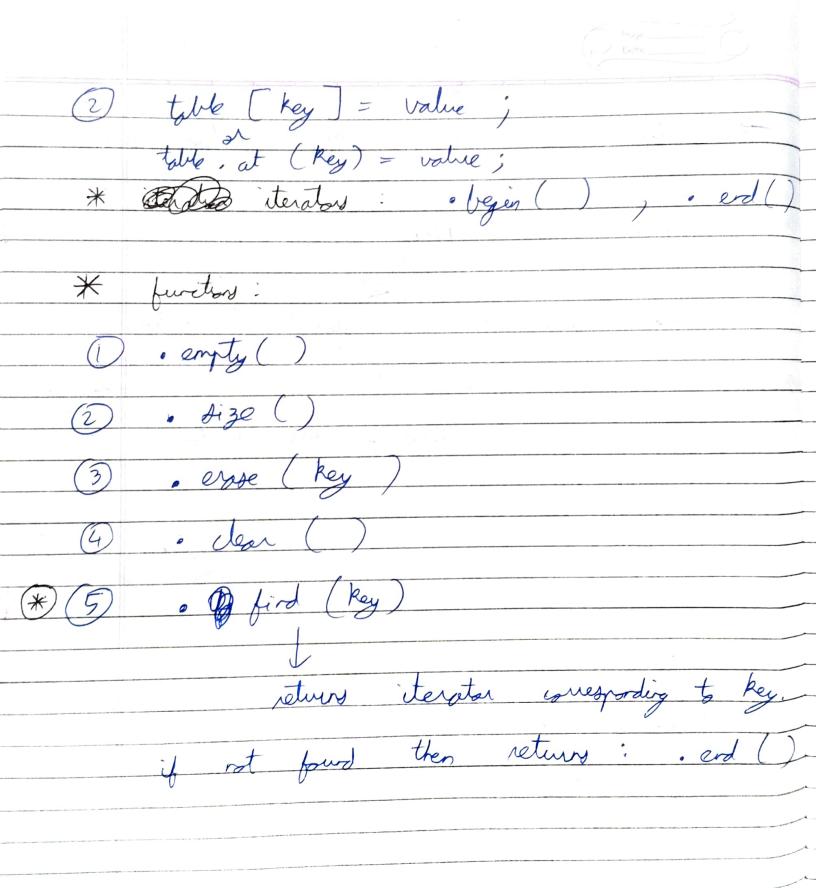
Map

to stere key-value pain. -> container rot in order of map
in section (unorted) unordered ordered (sorted)
rundom (O(1) O(gn) (also not in
order)

time of interton (deletion) == for comparison (works for both) <unordered\_map> < map > => vection: unordered - map < int, char > table; map < int, Jan > table Z; => insertion: 1) first create a pair and then use insert () eg - table intert (make - pain (x, a));



## Sorting a Map by value in C++ STL

Last Updated: 29 Dec, 2022

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<u>Maps</u> are associative containers that store elements in a mapped fashion. Each element has a key value and a mapped value. No two mapped values can have equal key values. By default, a Map in C++ is sorted in increasing order based on its key. Below is the various method to achieve this:

<u>Method 1 – using the vector of pairs</u> The idea is to copy all contents from the map to the corresponding vector of <u>pairs</u> and <u>sort the vector of pairs according to second value</u> using the <u>lambda function</u> given below:

Below is the implementation of the above approach: