

* Assignment No- 7 *

Title - To use map associative container.

problem Statement:-

write a c++ program in c++ to use map associative Container. The keys will be the name of states and the values will be the populations of the state, when the program runs, the user is ~~per~~ to type name of a State. The program then looks in the map using the state name as an index and return the population of the state.

prerequisites:- object oriented programming.

objectives:- - To learn the concept of map associative

Theory:-

Map associative Container:-

Map associative Container are associated containers that store element in mapped fashion. Each element has key value and a mapped value. No two map value can have same value.

map :: operator []

this operator is used to reference the present at position given inside the operator. It is similar to the at() function, the only difference is that the at() function,

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an out of range exception when the position is not in the bounds of the size of map, while this operators causes undefined behavior.

Syntax:-

map name [key]

parameters:

key value mapped to the element to be fetched Returns:

direct reference to the element at a given key value.

Facilities:- linux operating system, C++

Algorithm:-

① start

② Give header file to map associative container.

③ Insert states name so that we get values of population of that state.

④ Use population Map.insert()

⑤ Display population of states.

⑥ Stop.

Conclusion:- Hence we have successfully studied the concept of map associative container.