## SET, UN ORDERED SET LE MULTISET

Map store (key, values) while set store only

set is collection of elements/kg.

(i) SET fordered SET

Set stores the unique elements. In set values/ elements core stored in sorted form.

11 Decleration of set set & string 7 5;

11 Insertion of value in set T. ( = 0 ( gn) cots.insert ("abc") j-11 & Soinsed (" ZSH!) s. insert (" par");

11 sewiching or geting value from set. aux it = Sifind (1'abc"); //T. ( = 0/09x) I tais find of Dill return the itrator of the value it exist otronwise return s. end();

```
Il print entire set
  Void print (set Istoing 7 &s)
         11 way -1
       for (string value: s)
     Cout ex value excends;
       11 way - 2
      for ( auto it = s.begin(); it != s. end(); it++)
        r cont LL (xit) LC endl)
                  10/30% 90/9MOD 17W 16/107
  11 Erase value from set
     auto it = sofind ("abc");
     if ( it = s. end ()) }
     11 way-1 -) so erase (id);
                         Citrator tostellar
    11 way -2
       S. exase (" ab (")
                    Valye.
Imp.
```

The indential implementation of sets is done by using Red-Black Tree. Red-Black Trees one self balancing trees. (ii) unordered set.

unordered\_set < string > s)

They also store the unique values but order is wood maintied. & all the time complexity car O(1).

Il print en fire set

The internal implementation of unordered sot is done by hash tables.

imp ) As like in mor unordered map we can't use complex doctor stoucture into

same one are only primitive on water trace

in unorded-sed.

(iii) Multiset

myltiset < String 7 S.

In multiset we can insert multiple values of same date like "asc" & asc" can be inserted two times.

And all other tice one same o (loga).

Also store values into sorted order.

Il find pr

auto it = s.find ("abc"); Il This find fr

will retwoin the iterator

serase (it); duplicate and presents.

This ergs fr will ergs only that ask"

serase ("abc"); Il This ergs fr will delete

all the "abc" in multiset

Imp the ergs fr fivelue pass fild & il.

Imp tra erase in fivalue pass hilitail.

Instrumently no and interactor of find traited

Te an hill (E) to an interactor miling

The an El Mal