find longest consequtive Sequence

```
int findLongestConseqSubseq(int arr[], int n)
{
  unordered_set<int> us(arr, arr + n);
  int res = 1;
  for(auto a : us)
{
    if(us.find(a - 1) == us.end())
    {
        int curr = 1;
        while(us.find(a + curr) != us.end())
        curr++;
        res = max(res, curr);
    }
    return res;
}
```

if element-1 is not found

If element-1 is not found

Then this means its a

Start of new Subsequence

find if element+1 gelement+2,

element+3... is a vailable

or not if available increase
the Chiront Counter.

Compare the Drevious

rount of Consecutive element

Count with present

Count with present

Counter Counter Counter.

Arr[] = { 1,3,9,2,8,2} Set S = Z 1, 3, 9, 2, 8> find 1-1 not in Sets means Start of new Subsequence Curt =1 Continuously Search in Set if 1 + curr is a vailable or not and increase the current Counter 1+1 - available in set S Curr = 1/2 2+2 -> available in set S Curr = 23 -> 1+3 ->hotav ai lable inset S Compare res updated if found that curris