Majority Element -1

ass = 1 1 2 3 4 1 1 6 1 1 169. Majority Element 1=10 have 1 = 5 Given an array nums of size n, return the majority element. fresij= 6 > 56 lis The majority element is the element that appears more than [n / 2] times. You may assume that the majority element always exists in the array. nejerity Elevent 1 2= N ws. legla 2=5 x 104 Example 1: Bushforce -> Use Growth & -107 C= nunsfil Z= 109] Socen **Input:** nums = [3,2,3]Output: 3 Cont frequency & useint Example 2: which Ever flog > 1/2 than **Input:** nums = [2,2,1,1,1,2,2]Output: 2 that is rejoily Elenest Tc>O(n) SC -3 O(n) Adril soln [Moore Voly Alo] SC > O(1) TC > O(n) ass = 1 1 2 3 4 pair district Elevents New Renainly Con he ngjærfelenet 3 4 5 b b 7 99 Uscent offair as some assl = So we need to do spain of distinct Element District Element for went -- I some Joh ++ & your hi court o other but in dist of spossible Majority evenet b 7 9, 9, 2 3 4 5 6 vit = an [o] cont = 1 on holly if (vel == all(i)) coent ++; eloe of count -- is if (count == 0) of val= all (i) is count= 1; }

```
Vel= | Count=1
                     val= / Coent = 2
      So coult + +
                      US=1 Cons=1
                                                  3
        cont --
11=2
                      V-l= \ Lond=0
        Count -
11:5
                         As cont = 0 & Ab
                                               Ab3 Se mul
                        updek vel= 3 cont=1
                                               Denge
                 val=1 Lond=0
                         & whate vel =7 const =1
                 VI = 4 Cont = D
                            which vel=5 court=1
                           & 5 can be one nejority clevent
```

```
Code | C++
                                  yhe Questian bolta hai hi clanet Exist
   int majorityElement(vector<int>& nums) {
      int n=nums.size();
                                  hata hai dow just need do
      int v=nums[0];
                                   lest Velue
      for(int i=1;i<n;i++){</pre>
                                  But if nyority element doesn't Exist we
                                   need do vortz drie ki lest vil
           if(count==0){
              v=nums[i];
                                  majority has
                                               & Nill
                           To wife this vis rejoily or not
                                           Vin Alley Again
                                                    >= 1/2) Seten V;
                                   else retren -13
```