

Scanned with CamScanner

```
#2) Pount the & largest clarante
     veder/vit> klaugest (veder/vit) aux, int n, int k) &
         benowity - guene Lint, vector Lint), qualtic Lints) mint;
          vector (int) res;
          for ("int i=0; kn; i++)}
            minH. push (are [i]);
             y (min. H. Size () > K)
                  mun H. pop ()
           while (I min H empty ()) }
               res. push-back (murth. top ());
               murH pop ();
                          a billding mint, at sent u
           reverse (mint begins), mint enals)
                               11 on min Heap min on top
                              Reversing to get qualist
           juling ses;
                                  rundeus first
     K Clasest Nurrburs
  Return & dosest inteques to x in the given away
   ave= $ 1,2,3,4,6}
                          0/9=1,2,3,4.
   K=4; X=3.
           vector (int) kelosest (vector (int) & aux, int k, int x)}
                perouty-quere (pare/int, int)> max H;
                for Cont 1:0; (1000 8, 20 (); 1++) &
                     max H. push (Sabs (aux[i]-x), aux[i] });
                     2 (max H. Size () > K)
                        maxH. pap();
                ¿ while ( 1 max H. empty ()) }
                     ves. push-back (thax H. top (). lecond);
                     maxil. pop (); and is realist
                3 sout;
                return mes
```

```
#4) Sout a & souted away
   Coiver an away of integers of 20120 n; where each
   clarant is at most to away form its tauget
   position. Pount souted array.
                       01P: 2368 12 56
   I/P-
   N=6; K=3.
                          (1999 . 4 min
  aux: 2 6 3 12 56 8

at most b. (1) 4 man (1) 3 lines
  0/P: 2 3 6 8 12 56 2
  1) Building minH, as sout in ascending order.
  @ Pop and push to O/P as soon as Gize > k.
code vector (int) nearly Souted (int * avec, int n, int k) ?
         penoenty-que < int, vector < int>, questier < int>)
          vector L'int) eus;
         fore (int i=0; i<n; i++) {
              mint fush (aver [2]);
     min H. 2 ( min H. 2) 20 () > K) & S
                  ves push - back (mint top ());
                   minH. pop ();
      while (1 minH empty (1) S
              us. fush - back (mint top ());
              munti pop ();
 · ( leve of & got Heart) Soud - Adug sous
           setura see; age Hxon
                                 Separt:
       3
                             section only
```

```
# 5) Sop & Juguant clamente
  Given an integue away nums and an integue k;
  return the k most juguent elements (in any order).
  21P - nums: [1,1,1,2,2,3] k=2.
  OIP - [1,2] thou thous
                                       laugest (80 minH)
vector (int) top by frequent (vector (int) & nums, int k) }
          unouder-map (int, int) hash;
          int size = nums. size ();
          fore (int i=0; i/size; i++)}
 y (hash. find (nums [i]) == hash. and ())

Here (hash [nums [i]] = 1; hash [nums [i]] = 1;
               else hash [rums [2]] ++; 100)
            vector (int) res;
            pero enty - queue < paint int, int>, vector < paint int, in
                             quester (pair (int)) mint.
    for (auto it: hash) &
                min H. push (Sit. second, it. fust ?);
                y (min. H. & ?2e() > K)
                    mint. pop ();
             while (1 mint. empty ()) &
                 ues. push-back (min H. top ());
                 minH! fop ()
              3 kereuse (eves. begin (), eus. end ());
             ropines sons;
```

```
Guguerry Sout Chanactur
IP: S='true'
0/P: "edet" / "edete"
    String furguerry Dout (String &) &
       unoudered - map (char, int) hash;
       for (int i=0; i< 8. long th(); (++) s
        g (hesh. find [ho[2))== hash. end())
              hash [s[i]]=1;
              L
hash[s[i]]++;
      foursuity-queue < pair (int, chare) max H;
        for (auto it hash)
            maxH. Bush Eit. Second, it. first });
        Steing les;
       while ( 1 max H. empty ()) }

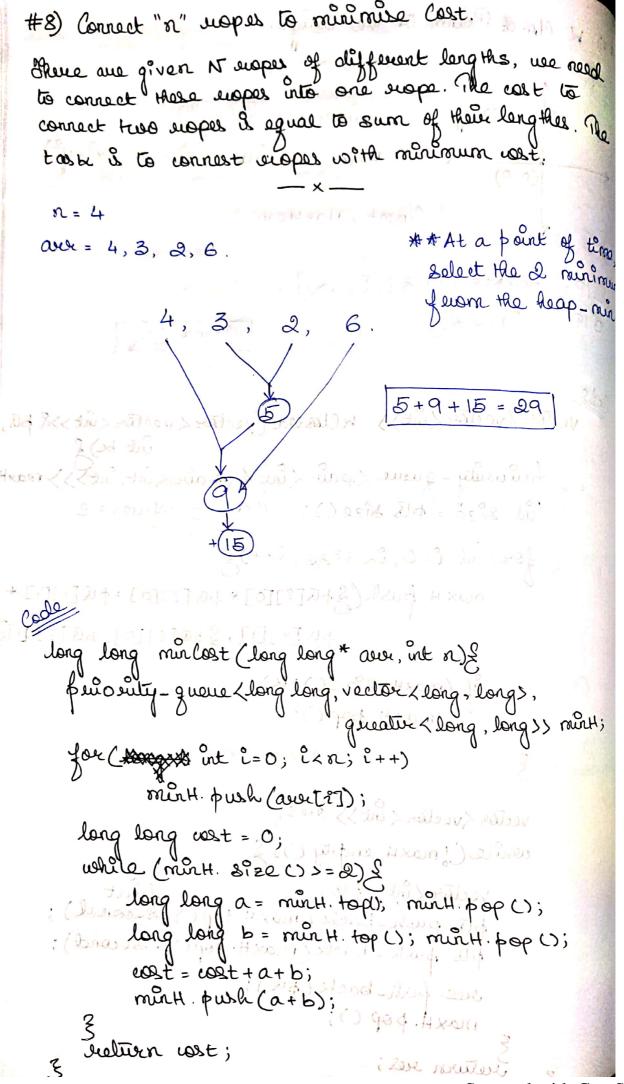
for (int i=0; i< max H. top() first; i++)
                ues += (max H. top () second);
        maxH. pop (); 11 push number of times it is persont
         return ins,
Using Compare function coded in Gifty
 5. Kensey e ( and keging), sup and ( ));
```

#7) L Close Paints to the Osigin (x,y) distance = \((x2+y2) Here we will maximize (x2+y2) Closest (Max Heap). GIP: points [[1,3], [-2,2]]; d= 1 01P: [[-2,2]] distance, (x,y) vector (vector (int)) belosest (vector (vector (int)) & pts, benoenty-guere <pair < int &, pair < int, int >>> maxt int size = pls. size(); 1/no. of column = 2. for (int i=0; ix 8°ze; i++) } max H. fush (Spa[2][0] * pa[2][0] + pa[2][1] * ρω[ε][ι], ξρω[ε][ο], ρω[ε],[ι]ξ' y (max+ &12e()>k) max H. pop (); and to it to expect) is vector (vector (int)) eres; while (max H. empty ()) } vector (int) pts;

pts. push-back (max H. top () second);

pts. push-back (max H. top () . second); ves. fuh-back (pt); maxH. pop (); : July relies Justim sees;

Scanned with CamScanner



```
#) a) Reorganize Strings (Leet Code) ALLAZON
  Reaming & the characters in a string such that
 no 2 adjacent elements are some
              I dea a to odd the most fuguently
IP: "aab"
              occurring strong; followed by the Ind most
olp: "aba"
              occurred steams.
stung wonganizestung (stung &) &
    unordered - map (char, int) hashmap;
   for (ink i=0; ix8, length(); i++)&
       y (hashmap. find (8[2]) == hashmap. end ())
           has hmap. of [S[i]]=1;
       else
          hashmap [8[i]] ++;
    feriority - quere (pair (int, int)) max H;
   for (auto it: hashmap)
        max H. fush (& it. second, it. first });
    steing res = " ";
    whild ( max H. empty ()) >
        pave (int, int) a = max H. top (); sewandling
        max H. pop ();
        pair (int, int) b = max H top (); maxtupopts
        max H. pop ();
       ues += a. second;
       Jus + = a.b. Second;
        int fug-most = mos a. finst - 1;
       int fluig-less = b. fieut -1;
        y (freg-most > 0)
                             max H. push (5 1 eug. most
a. Se cond?
       y (fung-less >0) max H. push (& fung-less, b. Dac cond E)
     (1 max H. empty ()) & 11 I element left
       pavil (int) top = max H. top (); maxitispops
```

max H. pop (); (www.) & pourt & De in 18 10000 " (top. fint > 1) 11 of the last element has a seturn " "; fuguerry more than I then the return " "; suguerry can't be achieved rus + = top. Second; (Ot has to be together) ععله ξ return eas; 2(2 prints) prints simple out prints 3 ingenduct of property and subseque [x & long the (): C++)> los hmap & [5[1]]=1; 1 = [[3]2] gon/sol mondy - queue Lprinzie, ac>> maxit. (oute it hashnap) MAXH FLER (& it second it fint E). is ite (f max H samp) Billion intermed () yet Histor = a Kalu aus BI MAKE HOPE ! () PRO HALLIN . G 1 - + 200, \$. w asser - + 2000 . the Court > 0) max H. public & first mas gon & 2) Dang. Hxom (0 < 200 - gen f) }