Minimum Number of Stops:-

#LeetCode/Medium

an airplane limit of jump = K

airport -> [1011011...] 2 is landable O is not.

find minimum possible Jump.

[10110001]

#algorithm/greedy

greedy > Jump maximum then come back to find valid landing position. if the extanting position reached that means airplane can't reach its destination.

unfaithful greedy. breedy is not same as brotesque

- Bag of Tokens /

powers = [100, 200, 900] bright Piwer = 150

initial Scare = 0

able to decreare score 4 take any power

able to take any power under budget power to increase score.

approach: - sort (powers).

[100, 100, 200, 300, 500]

from the front

waste power to buy token waste score to buy power from the end. if (score >0)

Make Rope Colorful):

colon = "aabaa" time needed = [1,2,3,4, 1] find minimum time to get no consequitive element some color.

if colonci-i] &= colonci] : Pred = 0

con be simpler one += min(prev, time needed[i]);

```
Break a palindrome :-
                                      codeh: have to be lepicographically
              "abcba" -) "aneba"
                                             smallest possible.
                                            approach: - after first non a
               "aaaa" -> "aaab"
                                                ore; if it's all a change last to b.
           [ Circular Geas Station] v actum the storting stortion (unique)
            qas = [12345] \quad cost[i] = cost to go
pos station
                                                          from i to its
                                                          gos station.
            cest=0, ans=0;
               for (intico; ec yos. site(); i++){
                        cet = cet + gosci] - cortci)
                        if (est <0) (est =0;
                                                            First
                                       oms = i+1; }
                                                             check of
       Dry Run gas
                                                         Egas >= Ecost
                              2 3 4
                             0+2-4 0+3-5 0+9-1
           est = 0
                        -2>0
                              -270 -270 3
           ans = 0
                        2
                               3 4 4
  Minimum no. of Tops to water the Granden
                                                            https://
                                                            leetcode.com/
                                                            problems/minimum-
#LeetCode/Hard
           range of tap = [3 4 1 1 0 0]
                                                            number-of-taps-to-
                                                            open-to-water-a-
garden/description/
#Revision trick: - generate the left side reach array
                                                  Upt = map(o, i-range(i))
right = min(n, i+range(i))
            Range: 3 4 1 1 0 0

West - 0 0 1 2 9 5

right - 3 5 3 4 9 5
                                                  leftreach [left]
                                                 = max (uptrach [ uft], right)
          Uffrench: 5 3 4 0 9 5
           now work will be some on this array here, Oftreach [0]=5
           mean there exist a top which starts from o f end at 5.
           bftreach [1] = 3 means there exist a top starting brown 2
                                                      and goes to 3.
          left reach [3]=0 means there's no top storting from 3.
```

```
Algo :- man reach=0, tap=0, cmr=0
          for (int i = 0 to h) {

if (i) max reach) return -1
                   if ( i > curr ) { curr = mass reach; }
                   max reach = mans (mox reach, orr[i])
```

```
Dry Run 2 Ronge
                       4
                            0
                                 S
                            5
                  5
     majo reach 0
      top o
                                  1
                            5
                       5
                                  5
      eurs 0 0
              1=0
Dry Rm 2: reach 3
                                     O
       left Reach: 4
                                   ら
                                         0
                              0
                     3
                         4
                                        1=5
                             1=3
                                   1=9
                    1=1 1=2
                1=0
   mapo Reach 0
                     9
                              9
                         4
                                   5
      curr o
                0
                              4
                         4
            ٥
```

man reach = 0, tap = 0, cmr = 0 fore (int i= 0 to h) {
if (i> maprison) return ~1 not possible if (i > curr) { ur = mass reach ; } map reach = mays (map reach, orz[i])

Minimum Replacement to Sort Array

top 0

9,7,6 Frambe broken ento 1,6 the shay some 3,9

nepport = nuscij/ wit if (mms[i] 1. last 70) no of port ++; last = nums[i] / no of part count += no. of parts - 2;

Earliest Possible Day of bloom):-

#LeetCode/Hard

plant i'me = [2 3 9]
grant fime = [2 8 3]

planting has to be done manually to one seed at a time growing can be automatic.

Tric; plant first which growing fakes maximum time to grow N lash of class logic.