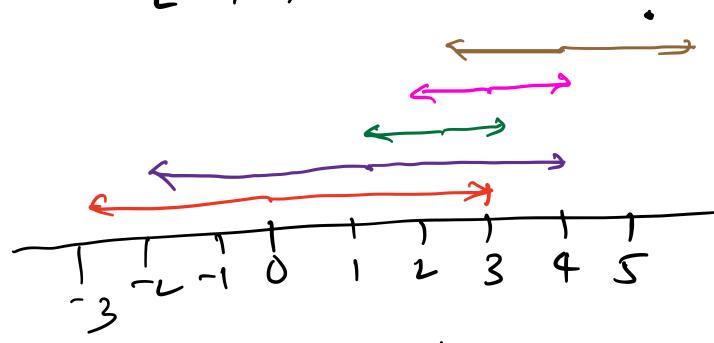
LC 132G

Minimum # of taps to open to water a gorden

Inturior

Consider the below example (3,3,1,(,2,0))



From the above altogram we con think that tap purple opened at o'th possition aver maximum. So, at is' we greedily Pick ten took that overs maximum range.

once we reach point 4. It is evident that we have inspected that the garden and all the points are Covered.

However, After Treaching 4 ut showever, After Treaching 4 ut shows any feel to other to spen to further inspect the tremening of all of the servering.

But, if we look closely, the toep Brown had already been opened at 2 Caus HII G.

SO, the point is, while inspecting current wet alea. If we encounter any tep that avery

beyond our maximum area under inspection, we can sately Say that at some point, another tap opens which will not block our inspection only the corea under inspection is complete.

so as long as we encounter a maximum trange that goes beyond our trange of inspection, we can safely increment ten count and up date area of inspection.

7

1900 tem Left [3,3,1,1,2,0] mgn (0,1-10mx(1)) Right med (n, i+rageli) 45 * Better ranges for every left, it it has maximus right pret that i've can carray.

x 43 A 5

Start-end= (D, D, B, O, D, D) nut all Zers initialy. iterate through in N=0; left =0, right=3 max(0,3) = 3Start_end (left) = 3 lett = 0, xight = 4 max (3,4) =4 Similarly 511 the remaining. The point is cet each stout, it we find a betterend, update first end [Stout] = better one. = max (Stated (Stat) 1 Consent and

Sterrt_End=[4, 3, 5, 0,0,0)

Filling Start-End allay is
first nort of the problem.
at any point index of start-end
gives start range and its correspond
Start-end [i] gives and large.

Part - 1

initialite mand-vonge =0 allowable trans =0 falls =0

Traverse the travel of NH

if flu inspeller joes to a point when no taps are whenty open of no taps were opened during the inspection that richtly

gives from notes forward

Cond

then we can say that no matter how many taps we open we cont water whose saven. i > max-range.

return-1.

Card 2 If we encounter a transport is a greater than wrent transport,

Softly spen the tap and whate the wrent - rank -> new-allenger transport.

e > allowable _ Sough.

+aps ++

allowable _ range = maxvange.

Stivelly, mak_rough = max (max_rough, Stout End(i))

from the simplified imash, @D' Apro e! MR20 Al=4 T20 MR=4 T21 AR= 4 MR Z 5 (tel estend at 2 but we doubt increased tup yet. Ut sucrement out ARS end

@ 3 AR = 4 MAZS T=1 @4 AR 24 MR=5 T-1 @ 5 1) AR but MK we do have so tops to AR=5. MR =5' ? and so ch.