

Inversion Count

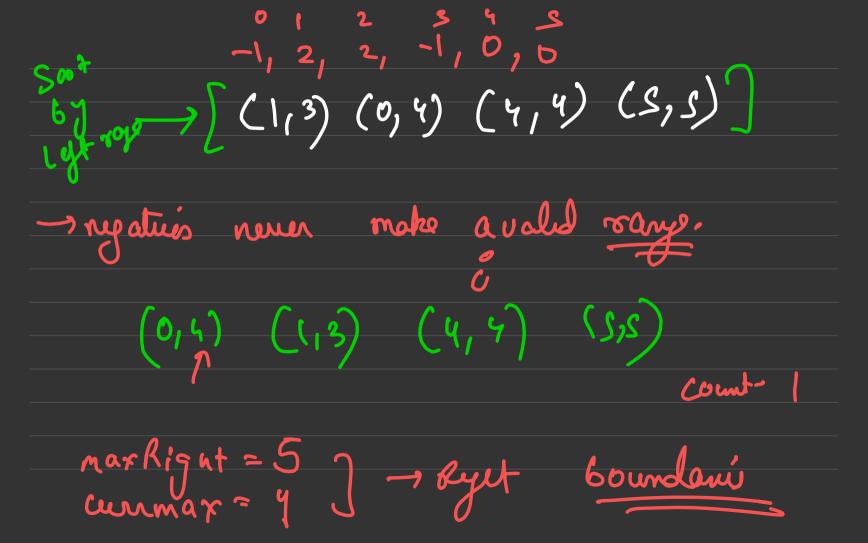
Do 400 au genen arrival tim and dept itime of n guests, in 2 diff lists. find the min hotel rooms regd for in culcating all the quests (24 hr) fromat) anid [9:00,9:40]

dpt-[9:10,(2:00] 9:40-6940 9:00 -> 900

=> arrival > [900,940, 950, 1100,1500, 1800]

dept -> [910,1200, 1120, 1130,1900,2000] Ne just need to keep a toack that whether us have a dept befor arrival Or not Sout -> avorival

in element represents the range of in soldier : e, a soldier can attack positions from [i-9 roli], i+0 rolis] fend min solders, battack the whole array. $\begin{bmatrix} -1 & 2 & 2 & -1 & 0 \\ S_1 & S_2 & S_2 \end{bmatrix} \rightarrow \begin{bmatrix} 3 \\ 2 \\ S_1 & S_2 \end{bmatrix}$ S1-> [2-2,2+2] S2 - [S-0,5+0]



Sol [iti]. left <= markight
itt

markights refrent first pos from When we need soldier

2, 3, 4, -1, 2, 0, 0, -1, 0 (-2,2) (-2,4) (-2,6)(2,6) (6,5) (6,6) (6,7) (out=9/2

-> Sort based on left range -> count → mino. of soldiess mar Right > sight most boundary of son Is first post for which we green of new a good green of -> curr Right -> Right boundary of curr clement if (v(i). [eft > markigal) set -) (v[i+1]. left z = markigal)