



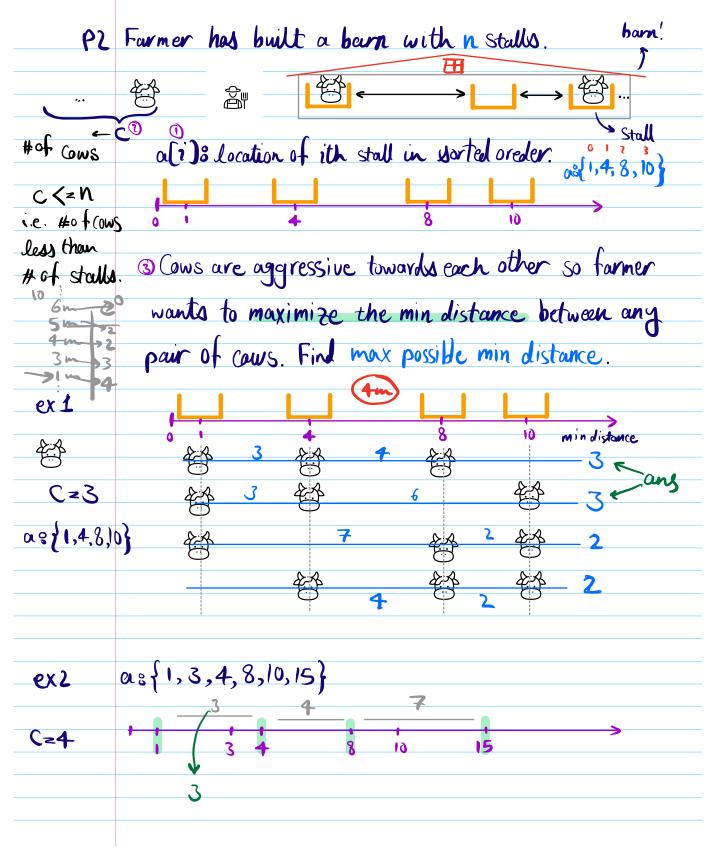
P1.2	Find min time to paint all boards if p painters are
5	
	available.
•	0 1 2 3 4
0/5	←G→ ←3→ ←6→ ←1→ ←9→
	★ ★
	38
P=2	$\max(\frac{10}{5\times2}, \frac{(3+6+1+9)\times2}{33}) =$
	$max(\frac{16}{6+3})^{2},\frac{32}{6+49}x^{2})$
	MOX ((5+3+6)2, (1+9) x 2)=
١X١	16
	(8)
To a	for X=1 Eaixt 30 p2 rev>P
TC3	for X=1 = Zaixt P2_Frev>P 2 = NumPainters(a, X, t) -> O(n) p2 < P
acixixiy b	2 = NumPainters (a, X, t) -> O(n) p2 <p< th=""></p<>
	OP 1 overally Pt overall
	time (4)
	p is reverse proportional to time pox Time p x
	time PX time

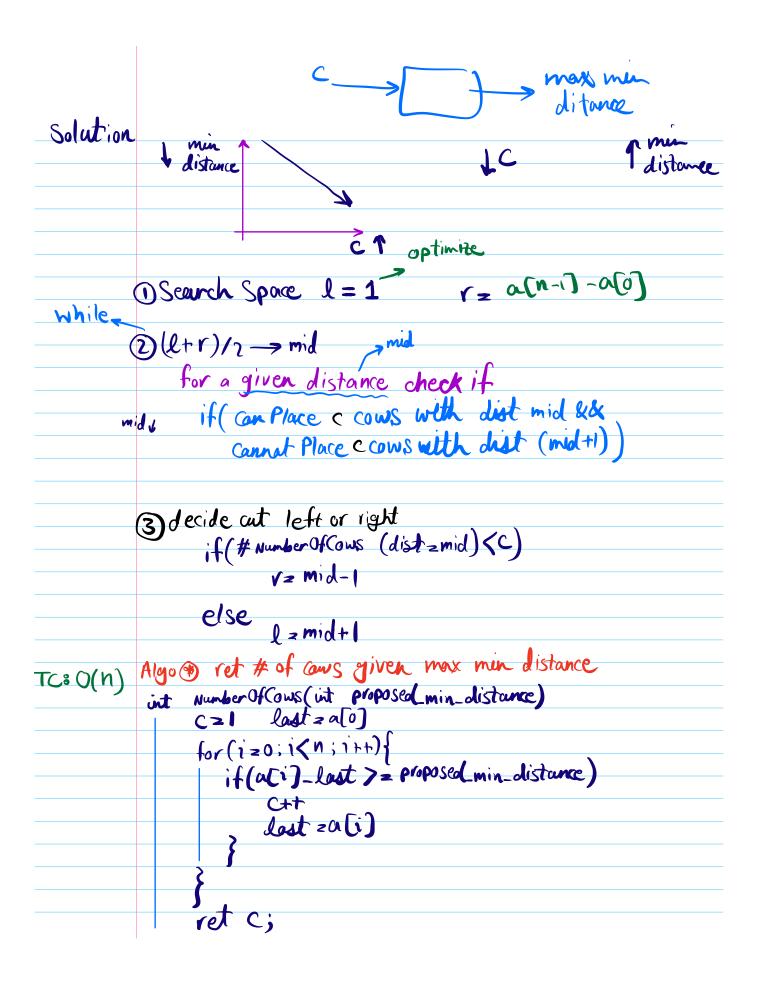
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P is no. of Painter
while O Search space

| = max (ai)xt | = i=0 | xt
         1) check mid is answer (mid = (4+1)/2)
now? o(n) = if (Num-Painters (ar, mid, t) <= P & Q

Num-Painters (ar, mid-1, t) > P)
                  ret mid
         3 Cut portion of seans space by updating lorr if (P2 > P)
                  l=midtl
else r=mid-1
          TCOO(nlogn)
          scso(1)
          int binSearch (
             nza.len
             1 = ; Y= (1)
             while(&<=r)}
               mul = (l+1)/2 / floor
if ( ) ret rud
                             ) l = mul+1
                                 //a[mid] > target
             ret - 1 N nat found
```







```
int binSearch (int all, target) {
    nza.len
   1 = 0 , Y= M-1
   while(l <= r){
        mid = (l+1)/2 / floor
if (a[mid] = = target) ret mid
if (a[mid] < target) l = mid+1
        else remid-1
                                               //a[mid] > target
    ret - 1 N rat found
```