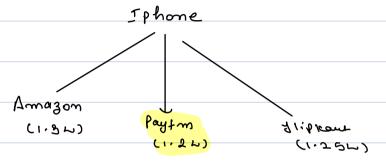
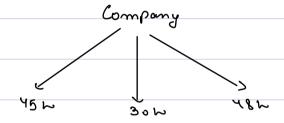
# Marinize our Profit & Minimizing our level.



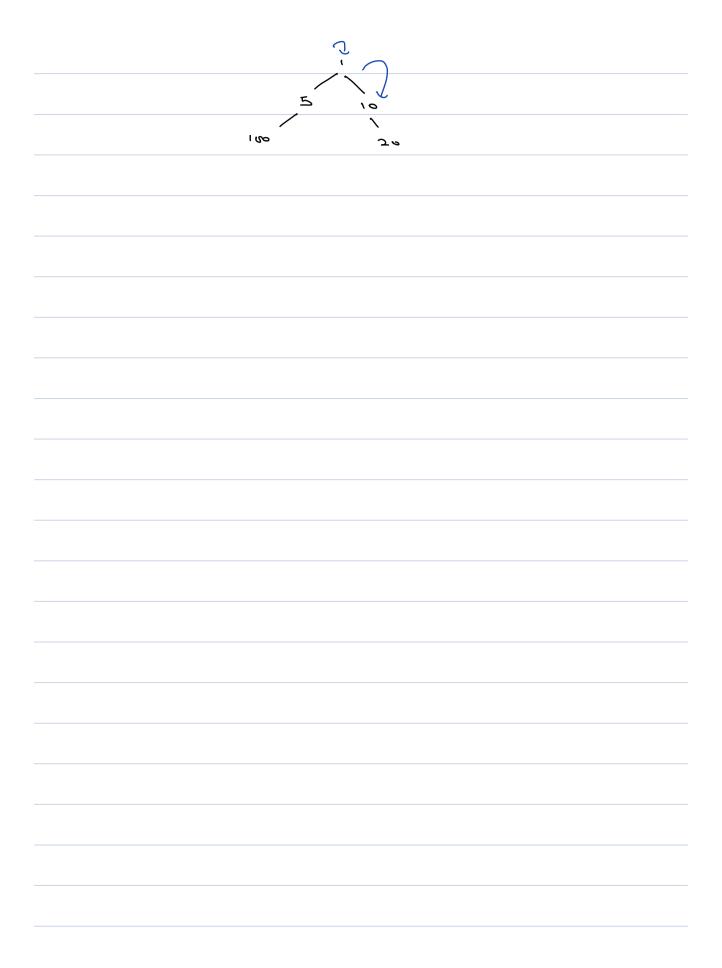
Considering -> Price (min).



-> Dook culture -> kind by hosed -> timings.

#### hreedy ->

it is an approach to solve optimisation problems by making locally optimal choices .



#### free Cars

There is a limited-time sale going on for toys.

A[i] -> sale end time for ith toy

B[i] -> beauty of ith toy

Time starts with t = 0, and it takes 1 unit of time to buy one toy and the toy can only be bought if T < A[i].

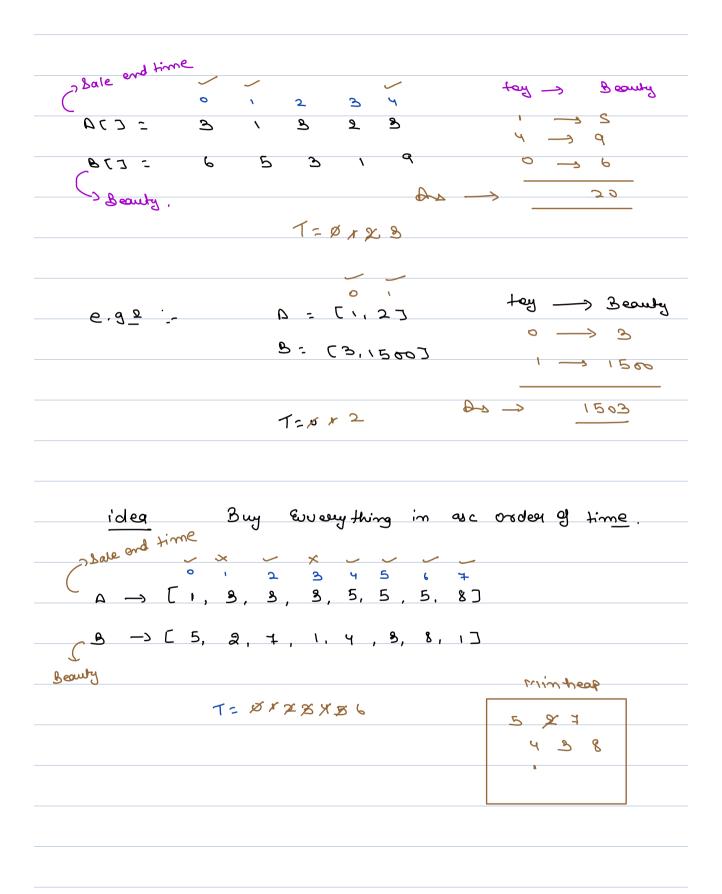
Buy toys such that the sum of the beauty of toys is maximized.

bns shot

Sale and time A(3 = 3 + 3 + 3 + 3) B(3 = 6 + 5 + 3 + 9) BoulyTotal Beauty  $\Rightarrow 18$ 

1= XX & 3

idea: - Buy in the Order of beauty.



idea: - [correct an incorrect step taken]
To rection on breason in constitution of
time mlagn
5.1 <u>0</u> C , 111692
minheap mh;
てこの',
for (i=o; i <n; i+1)="" mlegn<="" td="" {="" →=""></n;>
3 (C:74> 7) E;
mh. inseed (BTi);  T++;
2
eine &
( seef & tous < Tild) P!
extract min();
extract min();
Remove all the elements from the heap and add them and return
T.C- O(m/egm)
J.C. O(m/ogn)

## Coundy Distribution

There are N students with their marks. The teacher has to give them candies such that

- a) Every student should have at least one candy
- b) Students with more marks than any of his/her neighbours have more candies than them.

Find minimum candies to distribute.

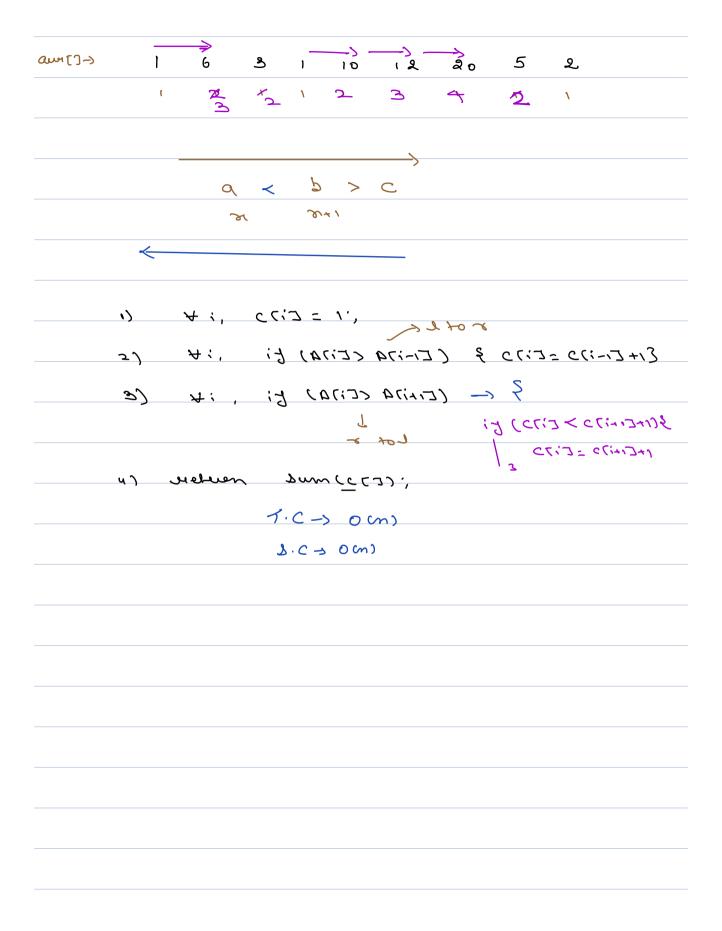




e.9 8) 4 4 4 4 Am - 3 4

e.g 4)

1 6 3 1 10 12 20 5 2 1 3 2 1 2 3 4 2 1 =)19 Aug ,



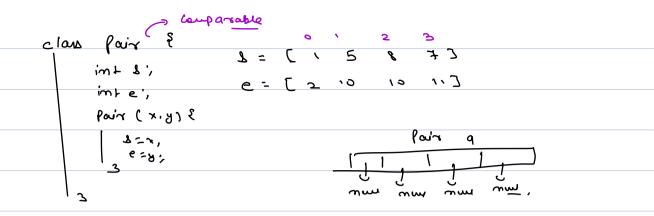
0 وي	M~~ m,	J <u>ob</u> \$ ;~			
Given N jobs with their start and end times. Find the maximum number of jobs that can be completed if only one job can be done at a time.					



### Concedy Ideas :-

- 1) Ithortest Duration Jets.
- 2) Shorter Haw time.
- 3) Shorlest End time.

	1 hors lest	Duration	J <u>e</u> b!- X		
	4	_	٦		
	1				
		5	6	10	
ھ)	Show he	t Stant	time x		
`				<i>σ1</i>	
				<u> </u>	
	2	ч	6	10	
			<i>&gt;</i> >	Stant earl	y
ુ ક	Shortest	End tim	<u>e '</u> -	stactor o	no describ
9 am		2 6m		7 pm	9 pm
	2			S 6 ~	
10	3	/-bw	d bm	6 pm 7 pm 8pm	_
	o		m		bu 10bm
·					<b>(3)</b>
			8	o <u>- 5</u> ,	
f,	riority du	u <fair></fair>	ρq ·_ ~	ne —	- C · ;
	Č				
			i ( Million )	اهن سر ک	
				Parget Minch	7



int solve (int (7s, int (7e) {
int n= bilen; = 4
Pair at7 = new Pairs (m),
for (i=0; i <n',i+1) td="" {<=""></n',i+1)>
۵۲:ع: سوس (مارع (۱۹۲۶) ، و درع) ،
3
Arrays. Sout (a, (Pair u, Pair u)
→ (v.e - v.e))
Prevjob Ended = a ToJ. E.,
and = 1',
400 (i=1; i < m', i++) {
Pou'r Pa a Ci'z',
if (P.1 >= Pseuzob Ended) &
ans++'1
Prev Job Ended = Pre',
Jueteren ans',

٦.	
	C3 Omlogn)
7.0	3 Om)