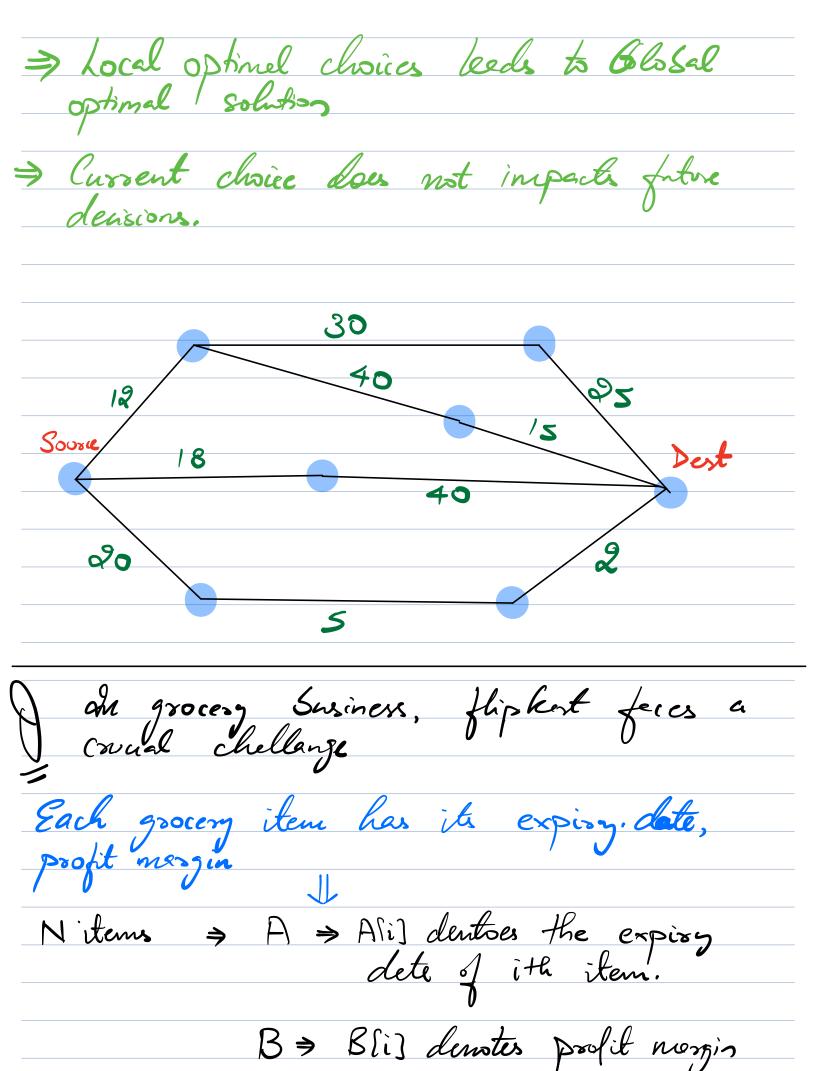
Buy an apphone	
	Physics Partin
Amezon 1.3 lakhs	Fliphert Paytin 1.25L 1.15L
Maximising Profit	or minimisny besses.
Recouites Hising	for Goszle
Arget: Hire 1	overall cost to company candidate every month.
36L 35D 48L 42L	226
28L 48L	314
Jan Feb	296 Mesch Dec.
yan Pes	Nustra Dec.
Ω	\mathbf{O}
Every north	primise the annul hiring.
Then in	Janny.



Comb 1

Time	Item	Profit
	4	9
1	Ö	6
2	2	3
3		18
/ • • • • • • • • • • • • • • • • • • •		J

Time	Item	Profit
0	1	5
1	0	6
2	4	9
3		(20)
		Are

$$A = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$B = \begin{bmatrix} 3 \\ 1 \end{bmatrix}$$

Jime Stem Profit

O O 3

1 1 1/500

(503)

A = (1, 3, 3, 3, 5, 5, 5, 7)

B = (5, 2, 7, 6, 4, 3, 8, 9)

Sol T Item Profit

0 0 5

1 X 3 X 6

2 2 7

3 4 4

4 X 6

> 5 7

6





1) Sort the items on the Sasis of Nhow expiry time.

class Item X

int expisy'

int profit;

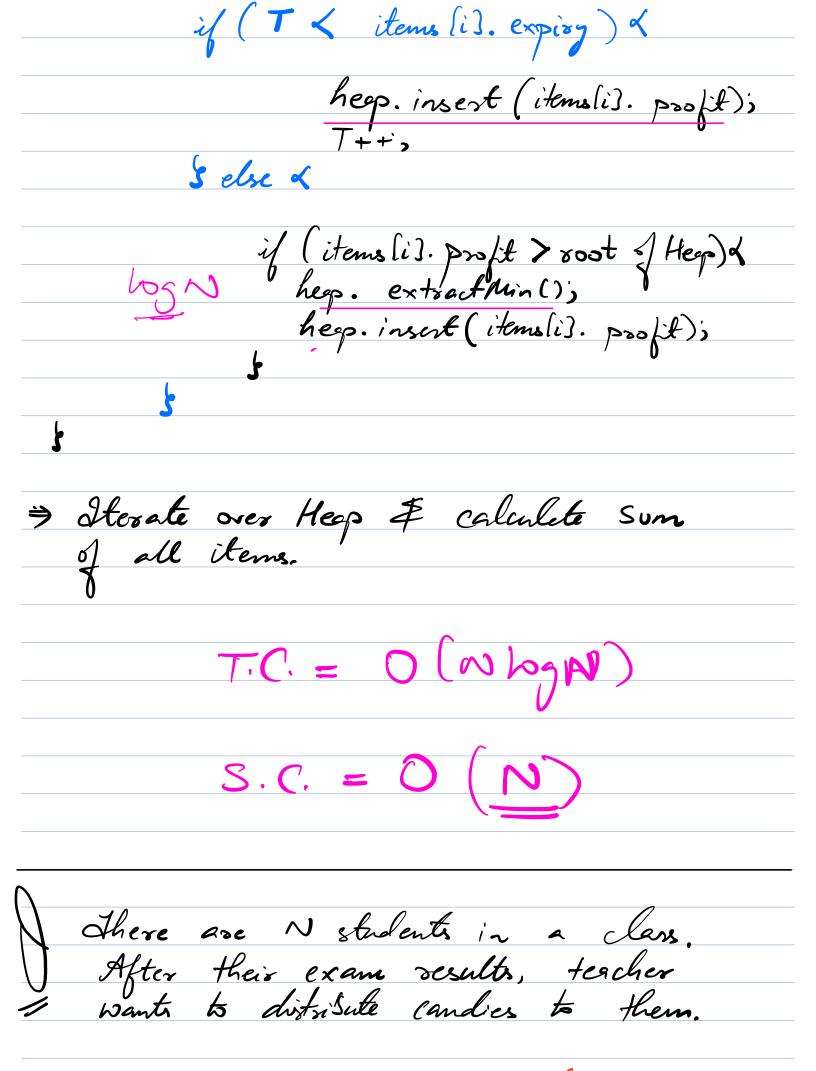
Item [] items = new Items[N];

Add all elements one by one.

Use comparator = sort.

MinHeop (int > heop;

pr (i= 0, i<n; i++) d



Const: 1) Every student must have attent

1 candy.
2) Students with mose mostes

Should be given more candies

than the neighbors. find the minimum candies required. $A = \begin{bmatrix} 0 & 1 & 2 & 3 & 4 \\ 1 & 5 & 2 & 1 & 10 \end{bmatrix}$ Candy = [1,3,2,1,2] Min # Candies = 9 Muiz A = (0, 4, 4, 4, 4) C: [1, 1, 1, 1]\$\frac{1}{2} = \frac{5}{2}

$$A = \begin{bmatrix} 0 & 1 & 2 & 3 \\ 8 & 10 & 6 & 2 \end{bmatrix}$$

$$CL = \begin{bmatrix} 1, 6, 3, 1, 10, 12, 20, 5, 2 \\ 1, 2, 1, 1, 2, 3, 4, 1 \end{bmatrix}$$

$$CR: 1, 3, 2, 1, 1, 1, 3, 2, 1$$

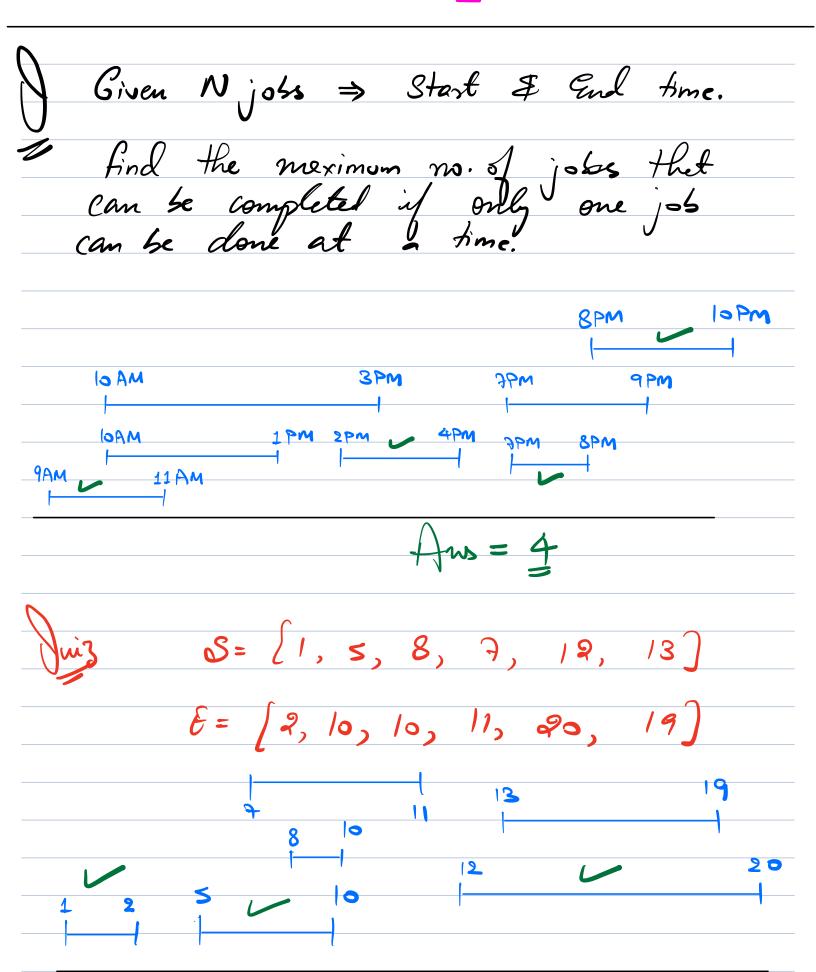
$$Aus: \begin{bmatrix} 1, 3, 2, 1, 2, 3, 4, 2, 1 \end{bmatrix}$$

$$\mathcal{L}(A[i] > A[i-i]) < \mathcal{L}(i-i) + 1$$

$$\begin{array}{ccc} CL[N] & CL[o] = 1', \\ CR[N-I] = 1', \end{array}$$

$$T \cdot C = O(N)$$

$$S \cdot C = O(N)$$



10 i) Sort the jobs basel on End time 2) Iterate & scleet as many jobs as possible.

$$E = [2, 10, 10, 11, 20, 19]$$

$$S = \begin{bmatrix} 1 & 5 & 8 & 7 & 13 & 19 \\ 2 & 3 & 4 & 5 \\ 1 & 5 & 8 & 7 & 13 & 19 \\ 2 & 1 & 1 & 19 & 20 \\ 2 & 1 & 1 & 1 & 1 \\ 2$$

Code

last and time = Eli);
\$
k
<u>ک</u>
seturn ans;
TC - O(N 200 M)
T.C. = 0 (NbgN)
Ω Ω Ω
Contest => Briday
Covide S (NOS)
Trees, Hegy & Greedy
Wednesday >> PS Session +/ Hega
bollows.