## Nov23\_PSP\_17Apr

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You won	t to bny	an Pthon	16	
Amazon		Flipkart		Apple
1.2 Lakhs	1.1	lakhs	1.	3 LaKhs
Where where	•	ng the	Prom?	
Example 2	. 1			
Suppose	yon get	3 offers	from diff	erent companse
	CTC	lo catton	company	
	25 lakhs	Remote	Startup	
	26 Lakhs	Your City	MPL TPer	
	28 Lakha	2000 KMS	MARNE	

Unique chopes for indeviduals

Flepkart faces a crucial challenge en Pueffective
Puventory management. Each grocery item on platform
corres its own experation date ACTI and profit
margen Beis. To minimize potential losses we need
to sell all items before its expery. Ketum the
maximum profit for the given products.

ACIJ - expiration time for item p

BCIJ - profits for item p

True t starts at 0, and Pt takes 1 mil 0f true to sell one product.

Profit

18

Item can only be sold when t < ACPJ

A Ci7 = 3 1 3 2 3  B Ci7 = 6 5 3 1 9  T 9tem Pendex Profit  1 0  0 1 5 2 2  1 4 9 = 20  Total = 2  Can We do bett	Exm	mple							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	month	2e M	gher	P
0 1 2 3 4 0 4  T Stern Pindex Profet 1 0 0 1 5 2 2 1 4 9 = 20 Total =	A	C17 =	3	l	3	2	3						·
0 1 2 3 4 0 4  T 9tern Pindex Profet 1 0 0 1 5 2 2 1 4 9 = 20 Total =	12	3 e17 =	ь	5	3	1	9			T	Herri	Pndex	Γ
0 1 5 2 2 1 4 9 = 20 Total =			0	1	2	3	4			D	4		
1 4 9 = 20 Total =	T	Herri 1	Pndes		Þ70-	f#				ı	v		
10100	0	1			5					2	2		
	1	4			g		= (	20			Tota		
	2	O			6		1		С	an l			-1/

The greedy approaching selecting a technique to be greedy based on few parameters and assuming this path WIII gline correct answer

## Aniz 1

Maxennize profit

A = 1 2

B = 3 1500

T	Hern Pondex	Profit	
0	Ø	3	Total = 1503
I	1	1500	

## Observation

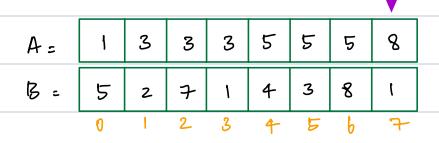
If you are tilpkort what is your ideal

profit? I sum of all profits

If you want to sell everything you need

to prioritize experation time

SORT BASED ON EXPIRY (ACID)

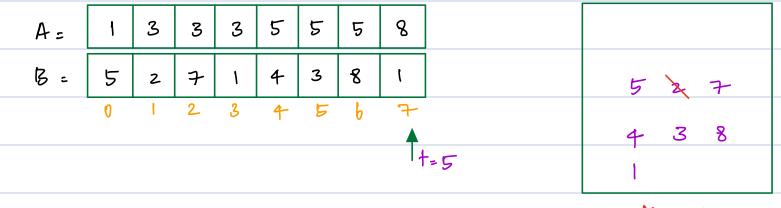


Т	Pudes	A Cro > T	Profit
0	0	1 > 0	5
-	1	3>1	<del>2</del> 8
2	2	8>2	7
3	4	5 >3	4
4	5	5 > 4	3
5	7	8 > 5	1
		Total	28
		1 - 5	

At any point if we are unable to choose the

Ptern T>2 A CiJ, get rid of least profit and

Prek current item Men theap



Men Heap

```
# pseudo code
```

```
11 sort the arrays bonsed on ACI)
 heap: heapify (CJ)
 Put t-0;
 for (1=0; P<n; 1++) &
       Pf (+ < A CiJ) & // three less than expery
           heap. Pusert ( & CiJ);
           6++1
       else E
               (BCi) > heap Co) &
                 // Replace BCi) with heap head
                heap. extract min co;
                 heap. Prosent (Blij);
```

for li=0, i< heap. size(): 9+4) & ans += heap cit;

Que2 2:

T. e= O(nlogn) 8.C= O(n)

A -> There are N Students with their marks. The teacher has to give them candles such that 1) Each student should have at least one candy 2) Students with more marks than any of her her herghbours have more candy than them

example

marks: comoles = 1 3

There are 2 neighbours left, right

look at them one at a tone

total = 7

QW2 3

Wha	+	one	tv	œ.	menimum		\WW1	hun	nbur	r of		combre		teacher
has	to	we	_	PF.	M	ar K.s	<b>L</b> (	<b>)</b> ~~e	4	4	4	4	4	
			4	4	4	4	4							
			1	1	1	ſ	)		to:	tal	- 5			

aus 4

Return menemun candies et marks is

# pseudo code

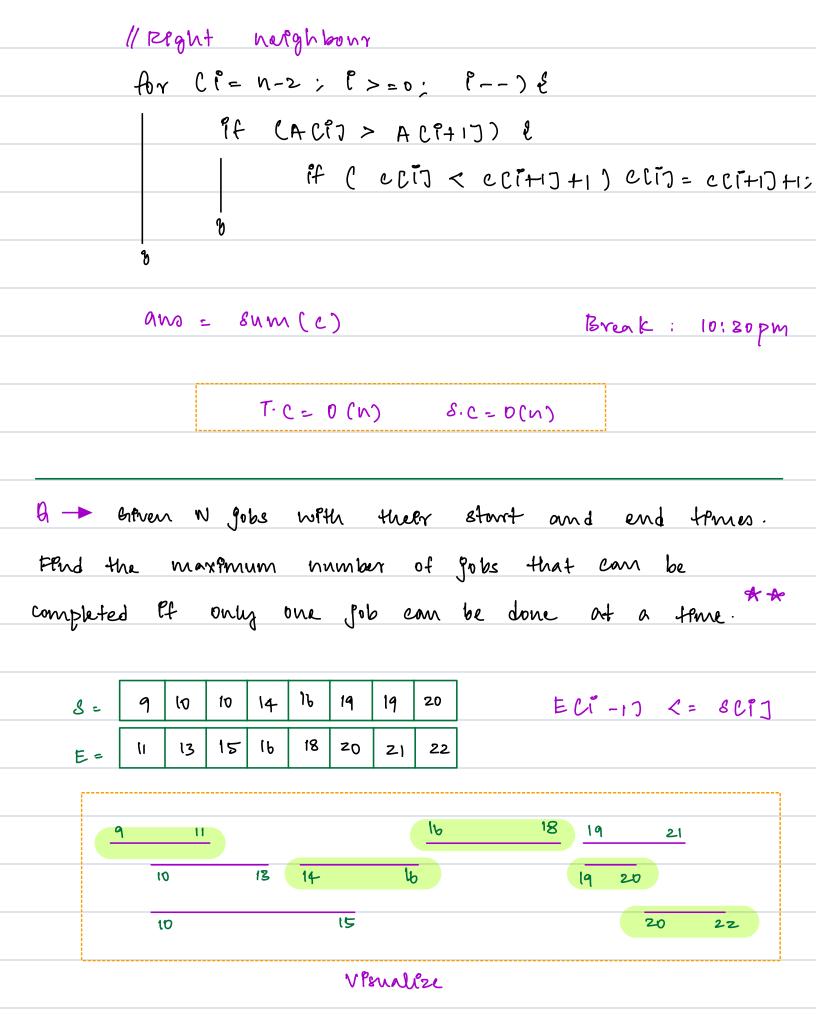
ent conj;

for li=v; i<n; i++) Cli]=1;

11 Left neghborr

for ( = 1; (<n; (++) {

84 (Alig > Ali-17) elig = Cli-17+1,



Ap	>70 h	ch																
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				E:	5	10	lo	11	20	19				(	<b>J</b>			
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		ı			5			8	10			13		19				
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No No

