

1 2 3 7 apply next negation on only (mm element) 1) For -10 - 100 0 1 2 where chard the negation be applied? We always regation on the minimum element. Do we know any data structure which can give us the minimum in optimised time? - Min heap -> Extract the minimum Clement, do a regation, put it back and then I what if all elements are use apply regation on ogain on min no. For 0, 1, 2, 3, 4 apply negation on O. For tr, -ve no. apply negation on We can prune some steps also 1 of is there at heap, no more operations are required.

K % 2 = 20

- came rope proflem

Find subset of size k With maximum sum

chose k man values of

sol b every step contributing glos al sol.

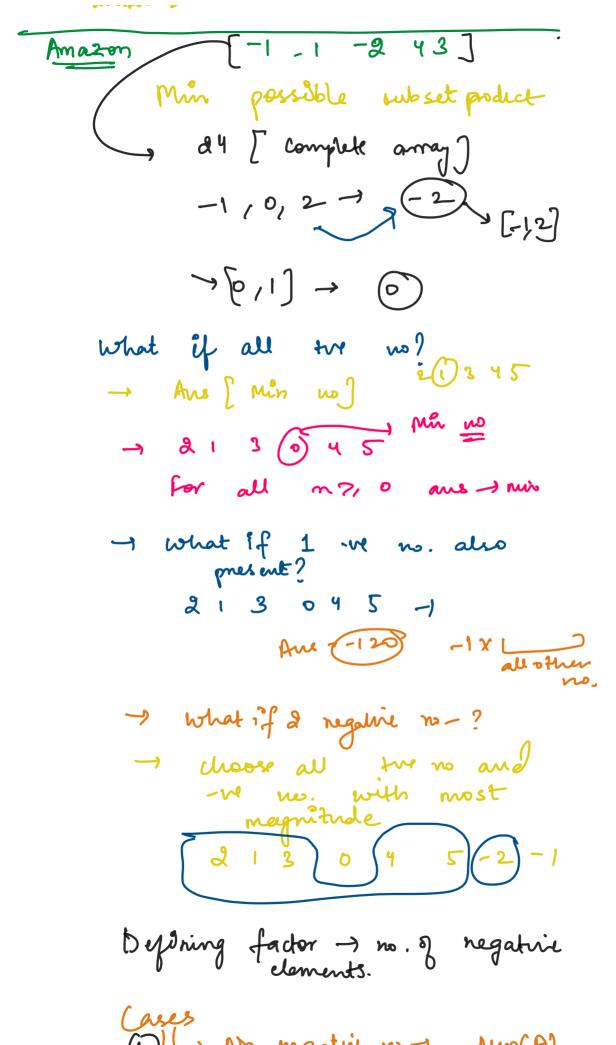
will greedy always work? A) It only works only when local ans -

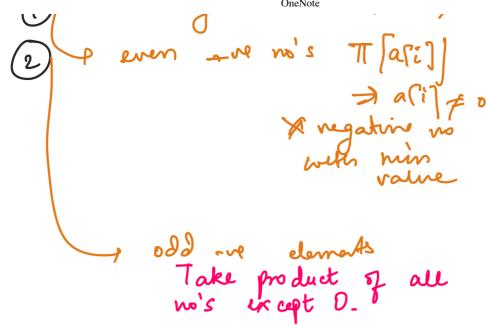
Example:

Local solution for first step +1

Gebal ans -> 2

+ Greedy can only work only when local answer contributes to global





Greedy solution are always based on intuition and observation.

	Activity		Selection		Problem		
St.	as 1	a, 3	a ₂	a 3	ay 8	95	
end				7			

-> You can perform only addirity at a time.

find max. no of activities that can be performed.

[a, a, a, a, as 4

car choose activities in any order. (ci < Si+1 / constraint

86 survation:

1. 6

He Marinum as. Poplatforms we had at a time is the moss as trains at a time on the platform.

Matter of Concern:

It a train is bearing, 9 can acconsolate another train after its end time.

- 1) Sort Arrival Time
- 2 Sort Departure Time

- Reep pointers to those array and inc/dec.

Time Complexity: O(n logn)

20/04/2020

Job Scheduling Each Job has a deadline and profit associated.

Job	Deadline	Profit		
a	4	20		
a b	1	to		
C	(40		
d	l	30		

1 Job = 1 day

1 Job = 1 day

o Job can be performed any order.

· Not necessary to perform · Marinise profit

			٢	Ans = 60
	a	2	001	
	Ь	1	19	
	C	2	27	
	d	1	25	
	e	3	15	,
		clae		Ans → 142
X	Sort	job	as per	deadline

Hum -> To do Marinize profit ?? Yes CO) hat should be the day one, I have oph ons Jay 3, 8 4f I dont pelsem job c on day 3, and do

Day & then S of the other jess. to perform the its Day itself. which job to first ?? When to prefer it? to the possible perform it

> Deling

maximum distance that any mice has to travel.

optimal hole for mice at -9

Max ([M,-H], | M2-H2)

Maxp(|M,-H2|, 1M2-H1))