Given an integer array A, find the index of nearest smallest element on left for all i index in A[]. Formally, for all i find j such that A[j] < A[i], j < i and j is maximum.

Bruke force: - for every; we will

travel from (i-1 to 0,

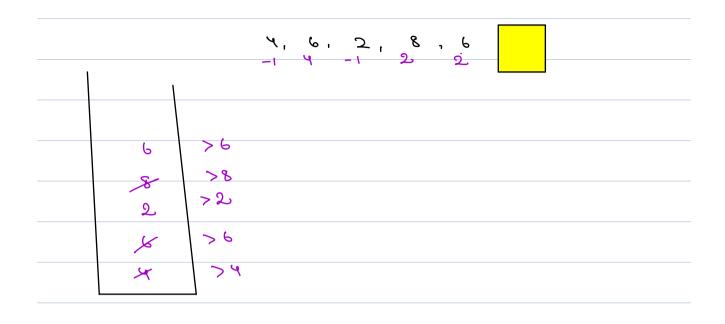
enomals thit newlaw

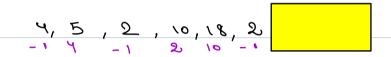
, Fit was mark selle on &

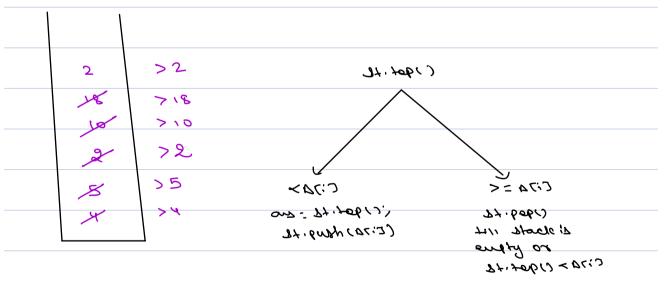
Optimized idea :-

> 5

ar 12- (8, \*, \*, \*, \*, E, \*, \*, \*, \*)







ζ /	ens
0 ,	
2 3	

ans -> [3',	1.C30m)
Di -> Stack ()',	J.C > Om) -> Stock
for $i \rightarrow 0$ to $m-1$	
1	
() by empty ()	3 (C:70 = < 904.48 3 3
77. 606C2.	2)
ig (24. engly c) ?	7
= C:) Emo	·, <u>5</u> ~
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
61/4 g and L(1]: Pt	Harry 3 m
) ana (1 3 2 3 .	
(C)70) Mug. Le	
27 1 2001 (120. 33	,
13	

```
arc \rightarrow 4, 5, 2, 10, 18, 2

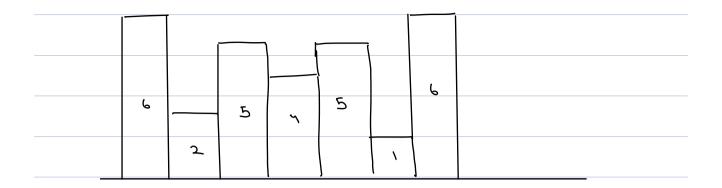
mbh \rightarrow -1, 4 -1, 2, 10, -1

mbh \rightarrow -1, 0, -1, 2, 2, -1
```

ans -> [3]
DI -> Stock (); S.C. > Och) -> Stock
for i -> 0 to m-1
while (! 22. empsy () & & P[12. 200]> = 05:37 &
7+. bobcs.
ig (4). endry (1) ?
ig (14. engly (2) }    amx(1) = -1:
elle g
= 000 (1.2= 77. 406 (2); }
81.6my C; J. 3 J
3

Dues	het the dist of mlb.
<u>Jues</u>	find reaves; smaller to light.
التقا ً	find neavest greater to left.
guer	find neoust greater to right.
	3-reat 9:55 pm - 10:05 pm

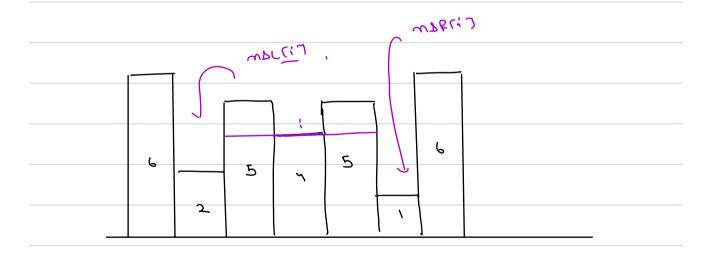
## Ques horgest fectangle area in a tistagram. > 5x2=10

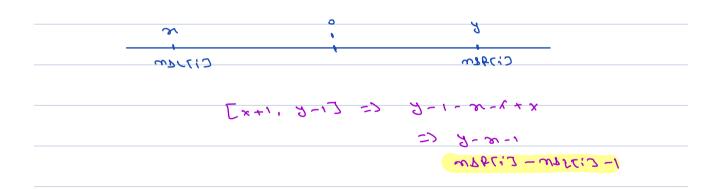


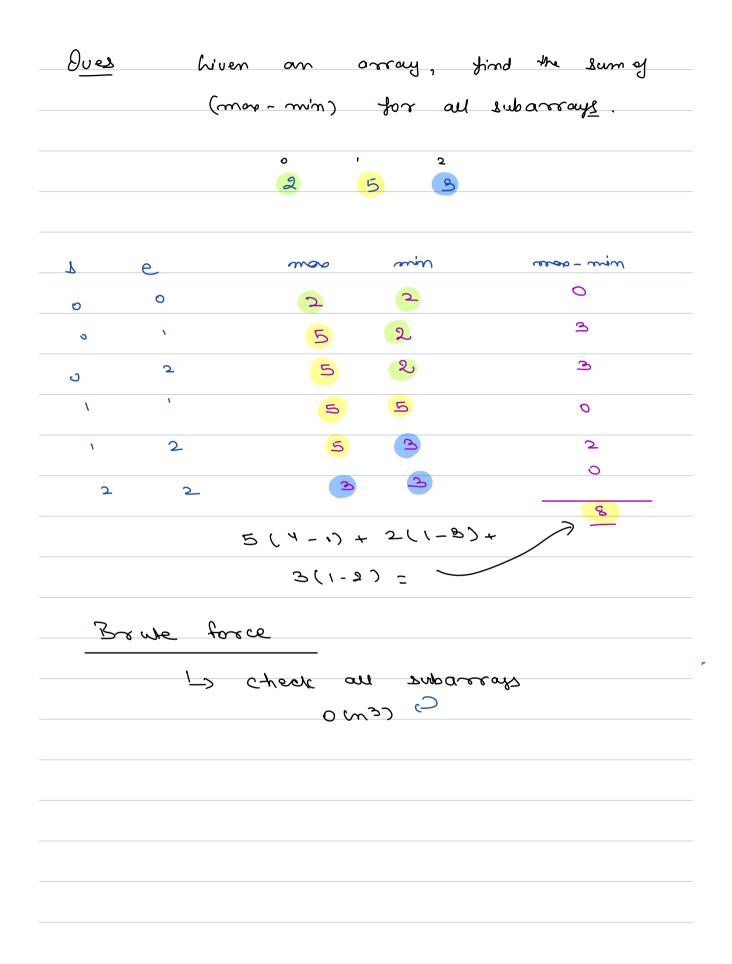
claim: - height of man area rectangle,

must be equal to height of one

of the buildings.







To time :-
In how many subarroays ATiJis marons.
<u>\$</u>
·
342: 6
2,13,8,4,1,5,3,6,2,7
5 13 8 1 4 1 2 3 6 5 7
Ques In how many subarray 5 will be
θος 2×5=ρ. αρω ω β.
5
2,13,8,4,1,5,3,6,2,7
2
(Out a)
Ques on how many subarrays & will be
5 x 2 = 1º.
3 2+1 en e
maris maris
Line ord points (: to e-1)
1-2-1+x e-x-i+x
((-ム) * (モー)

we. of Importants in maring !? Wooder
=> (1-8) (8-1) => (1- mac(13) (map(13-1)
(i-wr(iz) (msr(i)-i)
5 1 2 2
5 13 8 4 1 2 3 4 2 6 9
$F \leftarrow g \omega m$
=> (;- m arc;3) (max br;3-;)
=> (5-2) (7-5)= 3 × 2=6

. sen, Len, nga, ush, mer for it o to man Mar = (i- mac(i]) (map(i] -i) mm= (1-mb(C(3) (mb(C()-i)) ans+ = (Mas - Minn) \* que (1) con newlere T.C.s Om) 3.C -> 0 cm)