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.

ex -> 8, 2, 4, 9, 4, 6, 3, 10 elemb -1 -1 2 4, 4, 4, 2, 3 idx -1 -1 2 2 2 1 6

Bruke force: for every; we will

travel from (i-1) to 0,

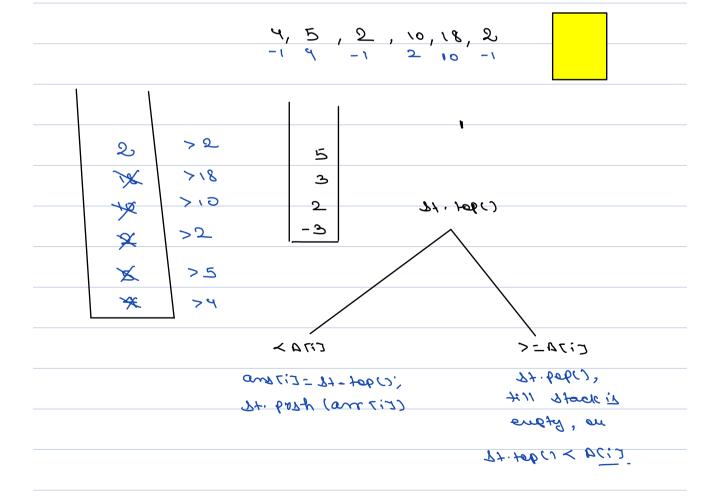
enomals thit newlaw

, Fit was made seller &

Optimized idea :-

Cx 73- (8, \*, \*, \*, \*, 5, \*, \*, \*, \*)





ans -> []; Ticoom
Trock (); Diock ();
for $i \rightarrow 0$ to $m-1$
while (! st. empty () & & 11.top >= A(1))}
77.806 CZ.
; t (77: 18 Embly ()) &
ans 7:3 = -1;
6166 g
are cis = st. tobas;
3
1. CE:24) Hand . +8

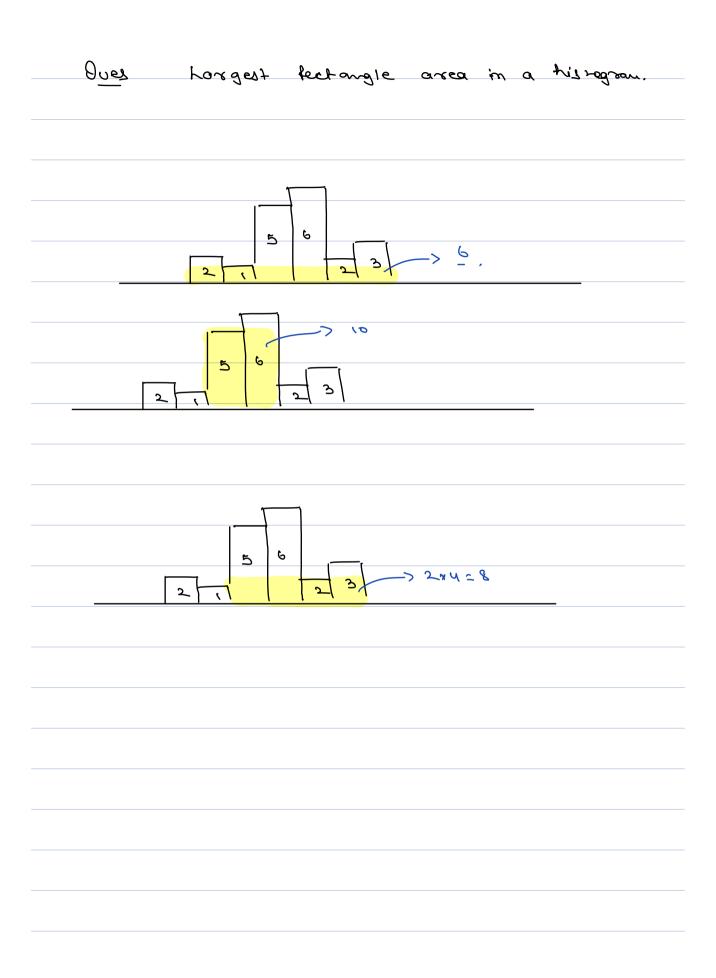
```
arr \rightarrow 4, 5, 2, 10, 18, 2

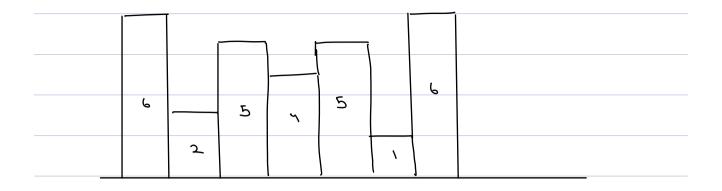
mbh \rightarrow -1, 4, -1, 2, 10, -1

mbh \rightarrow -1, 0, -1, 2, 3, -1, -1
```

```
ans -> [];
                               T. C = 0 cm)
Di -> Stock ();
                                 3.C30m)
for ; -> 0 to m-1
         while (! st. empty () & & D[11.top) >= D[1])}
               77.806 17.
            ; t (1) . the Empty ()) &
                   : 1-= F:700
               elne &
                   oro (:) = T+ + tob();
               St. push (i);
        3
```

Dues	het the dist of milb.
<u>Jues</u>	Lind reaves; smaller to light.  Travel o 101
ู ดูกาล <sup>'</sup>	find nearest greater to left.
gnor	find nearest greater to right.

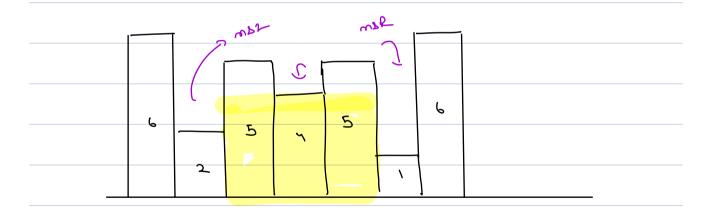


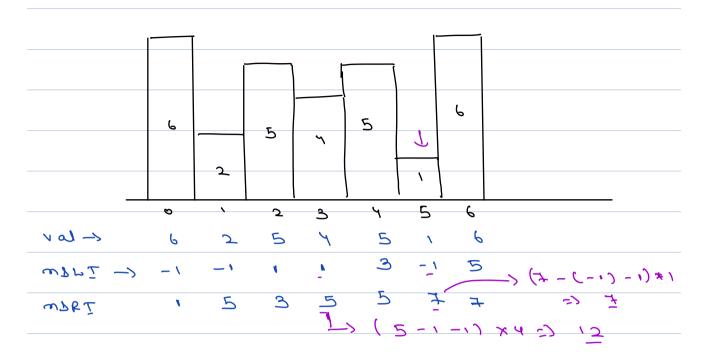


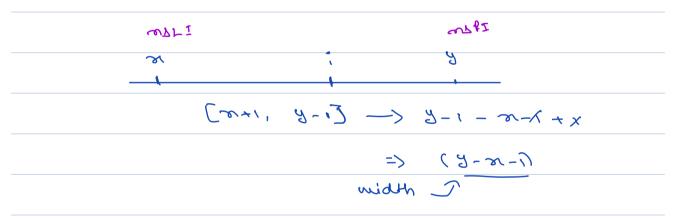
claim: height of man area rectangle,

must be equal to height of ance

of the buildings.







	msr 73 —>
	mrs 22 —>
1.c3 0 m	too every height tris
5.C > 0 cm	width= (mse (i]- msc(i]-1)  teight = h(i];  area = More (area, width a teight);
	refren area.

<u> ار مع</u>	hiven	om o	orray,	find the sum of	
	(mor	4 ~ m'm)	for all	subarrougs.	
			5 9		
<i>ا</i>	e	man	nin	min - goss	
Ø	0	2	2	0	
•	<b>\</b>	5	2	3	
೦	2	5	2	3	
١	1	5	5	0	
١	2	5	3	5	
2	5	3	3	0	
				As -> 8	
		2(1-3	1) Z + (4	-1) + 3 (1-2)	
Br	we force	<u>e</u>		contribution	•
	1 2		ll sigh ac	tedm	19,
	<u>-</u> ) (	check as			
		0 0			

To find:  In how many subarrays ATII's moon.  2 , 13, 8, 4, 1, 5, 3, 6, 2, 7  muscis  Quas 3n how many subarrays 5 will be  moon ?  2 , 13, 8, 4, 1, 5, 3, 6, 2, 7  Quas 3n how many subarrays 6 will be  moon ?  5x2=10.  Litars PB.  (no. of short paints) * (no. of end (b))  (short to:) * (itoe-1)	
In how many subarrays ATiJis more.  2, 13, 8, 4, 1, 5, 3, 6, 2, 7   2, 13, 8, 4, 1, 5, 3, 6, 2, 7   2, 13, 8, 4, 1, 5, 3, 6, 2, 7   2, 13, 8, 4, 1, 5, 3, 6, 2, 7   Dues In how many subarrays & will be more m?.  2, 13, 8, 4, 1, 5, 3, 6, 2, 7   Dues In how many subarrays & will be more m?.  5x2=10.  2 hart PB.  2 notice and Party.  (no. of short point) * (no. of end 10)	To find:
Dues 3n town mony subarrays 5 will be more m?  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  Dues 3n town mony subarrays 6 will be more m?  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  Dues 3n town mony subarrays 6 will be more m?  5x 2 = 10.  1 2 2 10.  1 2 2 10.  1 2 2 10.  1 2 2 10.  1 2 2 10.  1 2 2 10.  1 3 2 10.  1 4 2 2 10.  1 4 2 2 10.  1 5 2 10.  1 5 2 10.  1 6 2 2 10.  1 6 2 2 10.  1 7 2 10.  1 8 10 10 10 10 10 10 10 10 10 10 10 10 10	
Qual 3n how many subarrays 5 will be more n?  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  Qual 3n how many subarrays 6 will be more n?  5x2=10.  Literat PB.  2 note: 2  2 note: 2  Cond forus.  (no. of short points) * (no. of end to)	
Qual 3n how mony subarray 5 will be movem?  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  Qual 3n how mony subarray 6 will be movem?  5x2=10  Litari PB.  2 notice  3 notice  4 notice  4 notice  5 notice  6 notice  6 notice  7 notice  1 notic	•
Ques 3n town mony subarrays 5 will be  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  Ques 3n town mony subarrays 6 will be  more more n?  5x2=10  1 2 2 2 2 2  1 2 2 2 2  1 2 2 2 2  1 2 2 2 2	
Dues 3n town mony subarrays 5 will be  2, 13, 8, 4, 1, 5, 3, 6, 2, 7  Dues 3n town mony subarrays 6 will be  5x2=10  5x2=10  1 bars PB.  2 hars PB.  2 no end (ahrs)  2 no end (ahrs)  1 more (1)  2 no end (ahrs)  2 no end (ahrs)  2 no end (ahrs)	
Ques 3n town mony subarrays 5 will be  max mon?  2 , 13, 8, 4, 1, 5, 3, 6, 2, 7  Dues 3n town mony subarrays 6 will be  more n?  5x2=10.  2 tors 9B.  2 marcis  end fairs.  ( mor of show points) * (mor of end 80)	
Quas 3n how many subarray 5 will be  2, 13, 8, 4, 1, 5, 3, 6, 2, 7   Duas 3n how many subarray 6 will be  moven ?  2 tout by.	
( wo. of 1900 tours) * (wo. of english)  Thank th.  Thank th.  Send tours  Send tours  Thank th.  T	mer ocij
( wo. of 1900 tours) * (wo. of english)  Thank th.  Thank th.  Send tours  Send tours  Thank th.  T	
( wo. of 1900 tours) * (wo. of english)  Thank th.  Thank th.  Send tours  Send tours  Thank th.  T	Ques In how many subarrays 5 will be
There beings # (wo. of english)  Those of there is a constant to militer  There is a constant	
Ones and start forms the constant of markers.  That the constant of markers of the constant of	D-3 3 3 = 6
Ones and start forms the constant of markers.  That the constant of markers of the constant of	
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Ones and start forms the constant of militer  That the constant of militer  That the constant of militer  That the constant of	2
( mo. of 7 for bound) * (wo. of ong 67)  - pri  - pri	5 , 13 , 8 , 4 , 1 , 2 , 3 , 6 , 2 , 7
( mo. of 7 for bound) * (wo. of 8 for b)  Dyary 6 7 .  Du 01/2)  End bound  Du 01/2)  Du 01/2  Du 01/2	
( mo. of 7 for bound) * (wo. of 8 for b)  Dyary 6 7 .  Du 01/2)  End bound  Du 01/2)  Du 01/2  Du 01/2	
( wo. of 7 tent boung) * (wo. of engly)  w engly  west! D  west! D  Ex 5 = 10  west  west  west  west  i	Ques In how many juborcaus 6 will be
( wo. of 1900 tong) * (wo. of engly)  and const. 2	
( no. of 19ent bound) * (wo. of enq bp)	•
and beyond (mo, of sight) # (mo, of sight)  work()  The proof of the proof of sight)	<i> ,</i>
( no. of 19en boung) * (no. of engly)  oug toung?  wors:2	start PB.
( no. of 19ton boing) * (no. of engly)	7 7+1 6
( no. of 7 terried met ( bound)	
(b+1 to i) * (i to e-1)	( no. of years boung) * (no. of engly)
·	(b+1 to i) * (i to e-1)
=) (!- D- x+/) * (e-x-1+1)	=) (!- b- x-y) * (e-r-i+x)

```
(i-s) + (e-i)
         (i- [i] Anon * (marci] * (i- [i]
                  no. of subcorray in which
                            i will be Meron
                  mazi-> 2
                  map: -> 7
       (i- morcis) * (workis -i)
   → (5-2) * (7-5) => 3×2=>6
for : -> 0 to m-1
        11- [in mon + (constill - i)
         (i- [i) 14m) * ([i- m] = mim 10 100
         on += (No. 9 mor - no. 9 min) + arkeiz
   · on newton
              T. C = 0 cm)
               8.C7 0 cm
```