

Que Nearest smaller element on left

2 | 1 | 9 | 5 | 3 | 10

3
1

⇒ -1 -1 1 1 1 3

for (int i = 0; i < n; i++) {

int j;

for (j = i - 1; j >= 0; j--) {

if (arr[j] < arr[i]) {

syso (arr[j]);

break;

if (j == -1) {
syso (-1);

}

i	j
0	-1
1	0 -1 1
2	1 -1 2
3	2 -1 3
4	3 -1 4
5	4 -1 5

⇒ $\frac{(n+1) \cdot n}{2} \Rightarrow O(n^2)$



1	3	5	10	13	3	15	14	9	7	0
-1	1	3	5	10	3	3	3	3	3	-1

0

Ques Next Greater Element on right



0	1	2	3	4	5	6	7	8	9	10	
1	3	5	10	13	3	15	14	9	7	0	20
3	5	10	13	15	15						

10	0
9	7
8	9
7	14
6	15

↑
decreasing order

Ques Max area rectangle

