TCenayang Easy

Banget

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Data Structure 2023

19 May 2023

TCenayang Developers is planning to demolish a number of abandoned buildings to build a shopping mall in their area. help TCenayang to find their easiest way to get the largest area where a mall can be built.

There are several buildings in a 2D landscape. Each building has one height, given by h[i] where i is [1, n] When k-adjacent buildings are combined, they can form a rectangle with area **k x min(h[i], h[i+1], ..., h[i+k-1])**

Example: h = [3,2,3]

A rectangle with height h=2 and width k=3 can be constructed within the given constraints. The area formed is **h x k = 2 x 3 = 6**

Input Format

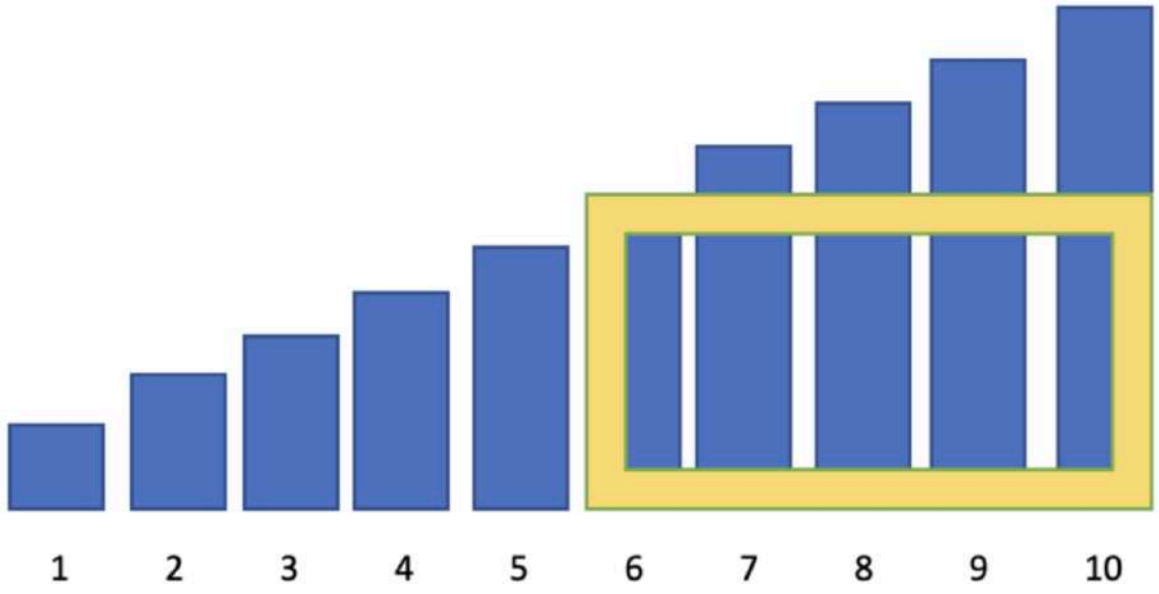
1. The first line contains **n**, which is the number of buildings.
2. The second row contains each building height, **n** total

Constraints

1 <= n <= 10^5 1 <= h[i] <= 10^6

Output Format

The resulting output is the area of the largest rectangle land that can be formed from the boundaries of each building.



Sample Input 0

10

1 2 3 4 5 6 7 8 9 10

Sample Output 0

30