**PROBLEMS**

1. **MinMax Combo**
2. **Stop the explosion.**
3. **Pass the Test**

**MinMax Combo:**

Find the maximum from the list of minimum numbers formed from the substrings of a given list.

**Input Format:**

Length of the string **n.**

**n** space separated positive integers.

Length of the substring **m.**

**Output Format:**

Maximum positive integer.

**Sample Test Cases:**

**Input 1:**

6

79 74 5 72 54 59

3

**Output:**

54

**Input 2:**

5

49 41 12 34 93

4

**Output:**

12

**Learn Code Meaning**

Professor named Raji is an inspiring woman who always inspires her students with her wonderful verbal and writing skills. Despite her efforts of making her students interested in coding she failed. She thought that her language itself is not enough and came up with an interesting riddle. Those who solves it will be first to represent the college youth festival coordinator.

**Riddle:**

A series of numbers are given and you have to find what number will come for a given positive integer input.

The series is **2, 6, 15, 28, 85, 96, 469, 904, 2601, …**

Help them to solve the puzzle.

**Hint: Square has 4 sides and so our question.**

**Input format:**

Positive Integer **n**.

**Output format:**

Positive integer.

**Sample Testcase:**

**Input 1:**

11

**Output:**

27841

**Input 2:**

25

**Output:**

26771145025

**List operations:**

Given a list has 2 properties

1. Change the given index value to other value
2. Get the minimum sum by performing an operation on each index between given 2 indices inclusive.

**Operation:** T**=**A[i]+ax-by, where a and b are given and choose x and y so that T is minimum.

The properties are represented as 1 and 2 respectively

Print the minimum sum for every 2 properties given.

Here indices are taken from 1

**Input Format:**

First line contains length of list(**n**) and number of queries(**q**) separated by space.

Next line contains n space separated value of the list **A.**

Next **q** lines contain space separated property number and its values.

**Output Format:**

Minimum sum for every second property.

**Sample Test Cases:**

**Input 1:**

6 3

3 5 1 2 4 6

2 2 5 4 5

1 3 4

2 1 4 6 2

**Output:**

0

2

**Input 2:**

8 1

4 5 6 7 1 2 4 7

2 1 6 4 8

**Output:** 9

Hello 104,

I welcome you all to this **CODE3000-2.0** round 3 which has 5 challenges in the coming 5 weeks and submission of the code and getting cutoff marks for at least 3 challenges is must and should for proceeding to the further rounds.

This is our 4th challenge of the round 2 and the link is provided below.

Hacker rank link: [www.hackerrank.com/code3000-2-0](https://www.hackerrank.com/code3000-2-0)

Please do not share this link with those who are not qualified.

**Note**: **As I have said the minimum number of participations should be 3. So, who haven’t participated till now this is the last chance that you could make it to next round. Do please submit your codes to count a participation.**

Think Hard, Code Smart.

Thank You.