Ranick Patra ⏻

00 Hr **01** Min
40 Sec

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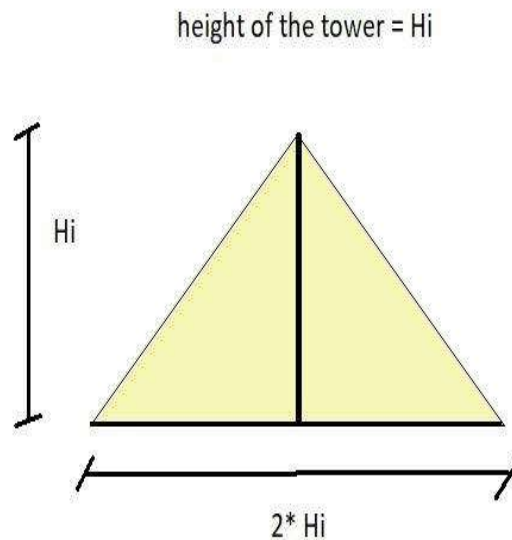| **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** |

ONLINE EDITOR (D)

Tower of Lights

╋ Problem Description

There are N number of Light towers (L1...LN) with height (Hi). Amount of area lighted by a tower of height Hi is shown in the image.

height of the tower = Hi

Hi

2* Hi

Total Area for this case is Hi2. These towers are placed on a long road. You need to find the total amount of area has light.

╋ Constraints

1 <= T <= 100

1 <= N <= 1000

0<= P <= 1000

1<= H <= 1000

╋ Input Format

The first line contains one Integer T, the number of test cases.

For each test case,

The first line contains one Integer N, the number of light towers. In next N lines, each line contains two integers P and H, where P represents the position and H represents the height.

╋ Output

T double values in T lines represent the area for each test case.

╋ Test Case

╋ Explanation

Example 1

Input 1

1

10 2

Output
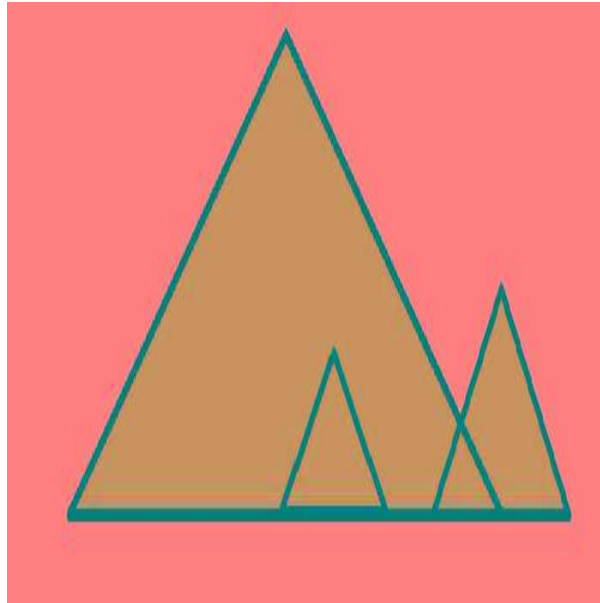
4.0

Example 2

Input 2

3 4 8 6 2 12 3

2

5 4

7 4

Output

70.75

23.0

Explanation picture for Example #2 and Example #1

Upload Solution [Question : D]

☐ I, **ranick patra** confirm that the answer   ☐ Took help from online sources
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