|  |  |  |
| --- | --- | --- |
| **F** | outer triangle sum | |
| Input | Standard Input |
| Output | Standard Output |
| Time Limit | 10 seconds |

***Problem Description***

You are to find the sum of the outer number of an isosceles right triangle.

For example, for n = 5 the isosceles right triangle grid are filled with integers as follows:

**5**

**1** **8**

**9** 6 **1**

**2** 7 2 **6**

**3 5 7 8 9**

The sums of the outer integers are calculated as below:

sum = 5 + 1 + 9 + 2 + 3 + 5 + 7 + 8 + 9 + 6 + 1 + 8 = 64

***Input***

The input consists of a few test cases. For each test case, the first line of input is a positive integer **n (n <= 10)** that determines the dimension of the triangle. Each of the next **n** lines contains 1 to **n** integers respectively that will fill the isosceles right triangle. Input is terminated by a case where **n** is 0.

***Output***

Each line of output will start with “Case #:” where # is replaced by the case number. Then you have to output the sum of the outer numbers of the triangle.

***Sample Input Output***

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5  5  1 8  9 6 1  2 7 2 6  3 5 7 8 9  3  1  2 3  4 5 6  0 | Case #1:64  Case #2:21 |