OUTER TRIANGLE SUM

Time Limit 1 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