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## 13062. SubDiagonal Paths

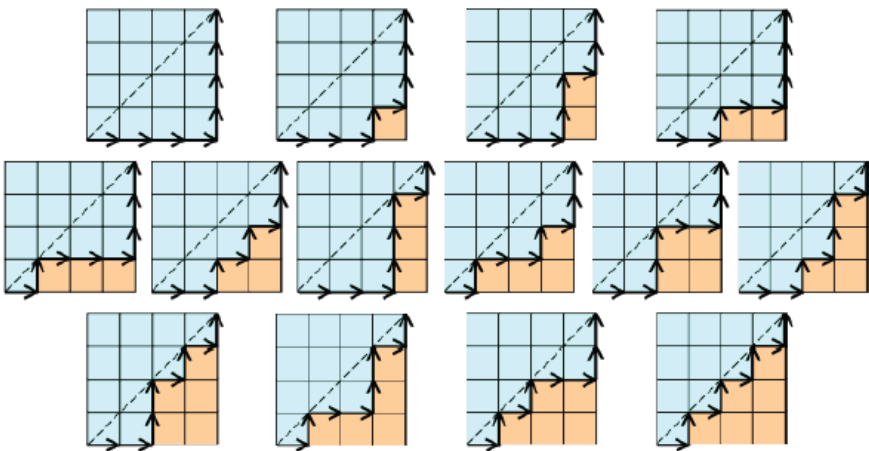
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### Description

Time Limit: 1sec Memory Limit: 256MB

You are to find all of the paths on the bottom diagonal of a  $n \times n$  grid. The path must only go from left to right or bottom to top. Given a dimension of the grid (ex.  $n = 4$ ), specify the number of such paths (ex. solution = 14).



### Input

The input consists of a single integer  $n$ , the dimension of the square grid,  $1 \leq n \leq 30$ , on each line. A zero will indicate the end of the input and should not be processed.

### Output

For each input  $n$ , you should output the number of paths, as described above, that exist in an  $n \times n$  grid, one per line.

### Sample Input

Copy

```
1
2
3
4
0
```

### Sample Output

Copy

```
1
2
5
14
```

Problem Source: 2014年每周一赛第十五场暨“指点传媒杯”第六届中山大学ICPC新手赛模拟赛

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