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## **Spanning Subtrees**

Input: Standard Input
Output: Standard Output



Let  $\mathbf{K}_n$  denote the complete undirected graph with n vertices where n is an even number. In other words,  $\mathbf{K}_n$  is a graph with n vertices where every two vertices are connected. Your task is to find the maximum number of spanning trees of  $\mathbf{K}_n$  that can be formed in such a way that no two of these spanning trees have a common edge.

## Input

Each test case will have an even integer n ( $2 \le n \le 400$ ), the number of vertices. The last test case will be followed by a single 0 denoting end of input.

## **Output**

For each test case, print a line in the format, "Case X: Y", where X is the case number & Y is the maximum possible number of spanning trees.

Sample	e Input	
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## **Output for Sample Input**

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4		Case 1: 2	
0			

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