IIUPC 2012

Problem F: Simply Loopy

Given an integer **n**, print what the following function (written in C++) will return:

Input

First line of input will contain the number of test cases, $T \le 600$. Then there follows T lines, each containing an integer n $(1 \le n \le 10^5)$.

Output

For each case, print the case number starting from 1 and the value returned by the function 'lol(n)'. See the sample output for exact formatting.

Sample Input	Output for Sample Input
3	Case 1: 5
5	Case 2: 40
6	Case 3: 175
7	

Note: A straight forward implementation of the given function may take millions of years, even for the fastest computers!

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