## 1138 - Trailing Zeroes (III)

You task is to find minimal natural number N, so that N! contains exactly Q zeroes on the trail in decimal notation. As you know N! = 1\*2\*...\*N. For example, 5! = 120, 120 contains one zero on the trail.

## **Input**

Input starts with an integer  $T \leq 10000$ , denoting the number of test cases.

Each case contains an integer Q ( $1 \le Q \le 10^8$ ) in a line.

## **Output**

For each case, print the case number and N. If no solution is found then print 'impossible'.

Sample Input	Output for Sample Input
3	Case 1: 5
1	Case 2: 10
2	Case 3: impossible
5	