

Mr Toothless and His GCD Operation

You are given N . You have to find two numbers a and b such that $\text{GCD}(a, b)$ is as maximum as possible where $1 \leq a < b \leq N$.

Input

Input starts with an integer T (≤ 100), denoting the number of test cases.

Each case contains an integer N ($2 \leq N \leq 10^6$).

Output

For each case, print the case number and then print a and b . If there exists multiple solutions print the one where $a+b$ is maximum.

Sample Input/Output

Sample Input	Sample Output
1	Case 1: 1 2
2	

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