Project Euler #3: Largest prime factor



Problem Statement

This problem is a programming version of Problem 3 from projecteuler.net

The prime factors of 13195 are 5, 7, 13 and 29.

What is the largest prime factor of a given number N?

Input Format

First line contains \$T\$, the number of test cases. This is followed by \$T\$ lines each containing an integer \$N\$.

Output Format

For each test case, display the largest prime factor of \$N\$.

Constraints

\$1 \le T \le 10\$ \$10 \le N \le 10^{12}\$

Sample Input

2			
10			
17			

Sample Output

5 17