

Prime Factorization

Time limit: 1 second

Memory limit: 1024 megabytes

Write a program to do prime factorization. For example: $18 = 2 \cdot 2 \cdot 3$. The output will be sorted from the smallest to the largest. The range of the input integer is less than 100000.

- **Input Format**
An integer n .
- **Output Format**
The prime factorization of n . Please make sure to have a space between each prime and have a “\n” at the end.
- **Technical Specifications**
 - $1 \leq n \leq 10^5$

Input Example	Output Example
18	2 3 3
543	3 181
4096	2 2 2 2 2 2 2 2 2 2 2 2 2 2