

Number dividers

Find all the divisors of the natural number N and print them in ascending and descending order.

Input

From the standard input device one integer is entered - N . $1 \leq N \leq 10000$.

Output

You need to output to the standard output device all the divisors of the number N in ascending order in the first line through the space and in the second - in descending order. Do not put a space at the end of lines.

Sample Input	Sample Output
1	1 1
60	1 2 3 4 5 6 10 12 15 20 30 60 60 30 20 15 12 10 6 5 4 3 2 1