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The Virtual Learning Environment for Computer Programming

## Divisors in order

Write a program to print in order all the divisors of a given number.

## Input

Input consists of several cases, each with a natural number $n$ between 1 and $10^{9}$.

## Output

For every $n$, print the divisors of $n$ in increasing order.

## Observations

- Your program must be "efficient" to be accepted by the judge.
- You are not allowed to use vectors or alike.


## Hint

Every divisor smaller than the square root of $n$ has a corresponding divisor greater than the square root of $n$. It could be useful to make two loops, one for "small" divisors, and another for "large" divisors.

## Sample input

```
200
```

6
1
100
999999998
999999937

## Sample output

```
divisors of 200: 1 2 4 5 8 10 20 25 40 50 100 200
divisors of 6: 1 2 3 6
divisors of 1: 1
divisors of 100: 1 2 4 5 10 20 25 50 100
divisors of 999999998: 1 2 691 1382 723589 1447178 499999999 999999998
divisors of 999999937: 1 999999937
```


## Problem information

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