

## 4825 Shares

A group of  $N$  persons and the ACM Chief Judge share equally a number of  $S$  shares (not necessary all of them). Let  $x$  be the number of shares acquired by each person ( $x$  must be an integer). The problem is to compute the maximum value of  $x$ .

Write a program that reads pairs of integer numbers from an input text file.

### Input

Each pair contains the values of  $1 \leq N \leq 10000$  and  $1 \leq S \leq 10^9$  in that order. The input data are separated freely by white spaces, are correct, and terminate with an end of file.

### Output

For each pair of numbers the program computes the maximum value of  $x$  and prints that value on the standard output from the beginning of a line, as shown in the example below.

### Sample Input

```
1 100
2 7
10 9
10 10
```

### Sample Output

```
50
2
0
0
```