Soda Tables

problem 03

2 points

Taylor has X cans of regular soda and Y cans of diet soda. He wants to create some identical refreshment tables for a party at his school. He also doesn't want to have any sodas left over. Write a program to find the greatest number of refreshment tables that Taylor can stock.

You will receive 2 lines of input, the first will be "X" and the second will be "Y".

Input

```
6
15
```

Output

```
3
```

Discussion

The goal is to set out the largest number of tables with identical sets of refreshments, using all of the available cans of soda. To do that, look for the largest number which divides evenly into both X and Y. In this case, X=6 can be divided by 1, 2 and 3 evenly. And Y=15 can be divided by 1, 3, and 5 evenly. So 3 is the largest divisor they both share.