

Problem 1

Greatest Common Divisor

Write a program that asks user input two positive integers and prints out its greatest common divisor.

Here is an example of the user session:

```
Please provide the first integer: 54  
you entered 54 for the first integer.
```

```
Please provide the second integer: 24  
you entered 24 for the second integer.
```

```
The divisors of 54 are: 1, 2, 3, 6, 9, 18, 27, 54
```

```
The divisors of 24 are: 1, 2, 3, 4, 6, 8, 12, 24
```

```
The greatest common divisor is: 6
```