



STUDENT REPORT

DETAILS

Name

B SUSHMITA

Roll Number

3BR23CA021

EXPERIMENT

Title

REDUCE TILL ZERO

Description

Dev loves the number zero. Dev gives Andrew two integers X and Y and asks him to perform the steps below on X and Y. until the value of Y has been reduced to zero. The below steps should be followed sequentially:

- 1. If $X < Y$, then swap values of X and Y.
- 2. If $Y = 0$. then return X
- 3. Otherwise, let $T = X - Y$.
- 4. Set $X = Y$ and then set $Y = T$
- 5. Repeat from step 1.

Your task is to help Andrew find and return an integer value, representing the value of X, when the value of Y has been reduced to zero.

Note: At least one of the X or Y will be a non-zero integer

Input Specification:

input1: An integer value X. representing the first number.

Input2: An integer value Y, representing the second number

Sample input:

48
18

Sample Output:

6

Source Code:

```
x = int(input())
y = int(input())

while y != 0:
    if x < y:
        x, y = y, x
    x, y = y, x - y

print(x)
```

RESULT

5 / 5 Test Cases Passed | 100 %