



STUDENT REPORT

DETAILS

Name

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Roll Number

KUB23CSE110

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:

```
def find_final_value(X, Y):  
    while Y != 0:  
        if X < Y:  
            X, Y = Y, X  
        T = X - Y  
        X = Y  
        Y = T  
    return X
```

RESULT

0 / 5 Test Cases Passed | 0 %