



STUDENT REPORT

DETAILS

Name

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Roll Number

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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:

```
import math
x, y = int(input()), int(input())
print(math.gcd(x, y))
```

RESULT

3BR

14031

224A1

T 3BR
T 3BR

14031
14031

R24A1
R24A1

T 3BR
T 3BR