

Problem H. Linear equation

Given numbers a and b. Solve the equation $ax + b = 0$ in integer numbers. Print all solutions to this equation if their number is finite. Print NO if there are no solutions, print INF if there are infinitely many solutions.

Input data

Two numbers are entered.

Output

Print the answer to the problem.

Examples of
input data

```
int a;  
int b;  
int x;  
int output;
```

output

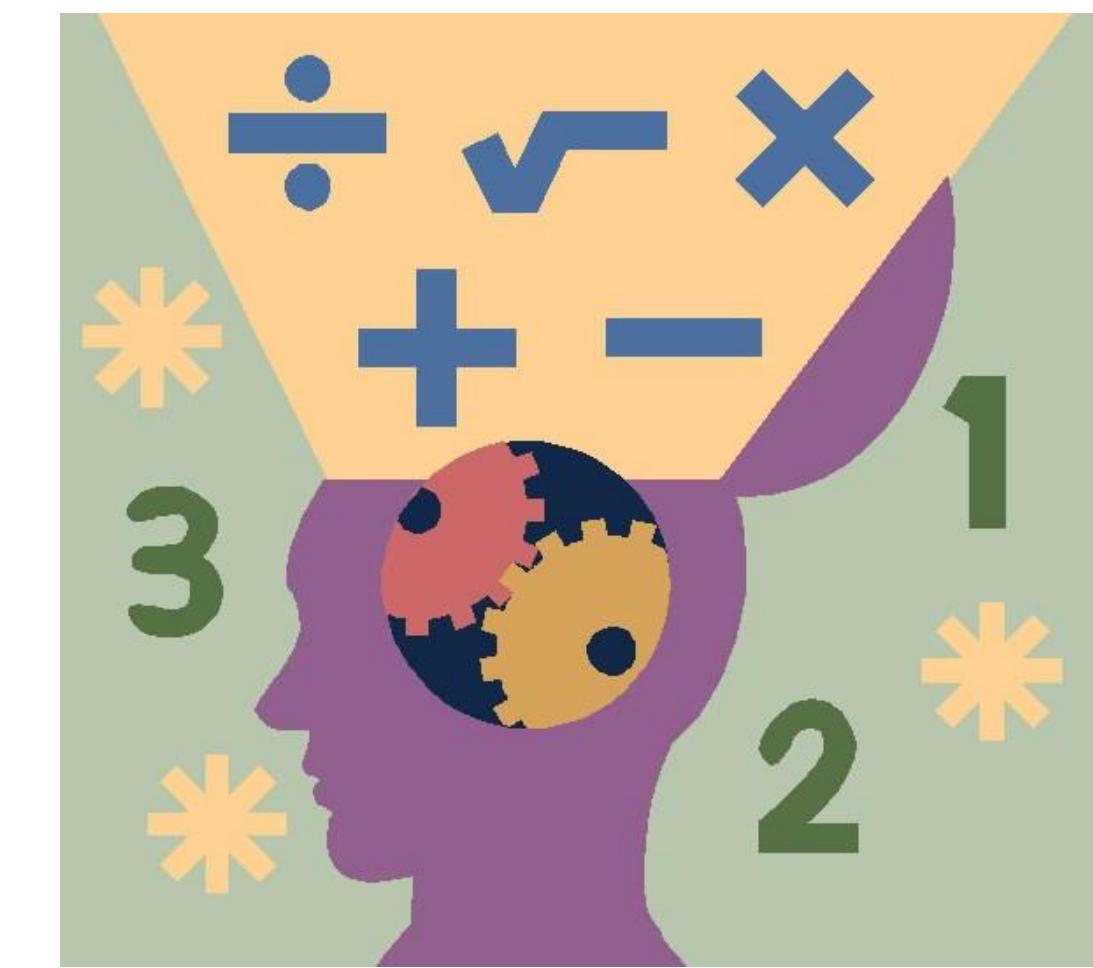
```
std::cin >> a >> b;
```

input data

```
6  
-2
```

output

```
NO  
  
if ( a != 0 ) {  
    if (b % a == 0) { // checks if future x will be integer  
        x = (0 - b) / a;  
        std::cout << "Solutions for x are: " << x << std::endl;  
    }  
    else {  
        std::cout << "No" << std::endl;  
    }  
}  
else if (b == 0 ) {  
    std::cout << "INF" << std::endl;  
}  
else {  
    std::cout << "No" << std::endl;  
}
```



$$6x - 2 = 0$$

$$x = 1/3$$

NO integer

$$0x + 0 = 0$$

INF

$$0x + 2 = 0$$

NO solution