

## 2916 - Free Numbers

### Description

Mr. Renicom want to solve a new problem in Number Theory. The formulation is as follow: given two square free numbers  $A$  and  $B$  you must determine if the product of both is also square free number or not.

An integer  $N$  is square free if for every prime  $p$  that divide  $N$  then  $p^2$  not divide  $N$ .

### Input specification

Input contains several tests cases. Each test case consist of two square free numbers  $A$  and  $B$  ( $1 \leq A, B < 2^{31}$ ).

### Output specification

For each pair  $A$  and  $B$  in the input you must print YES if the product is square free or NO in other case.

### Sample input

```
1 1
6 3
```

### Sample output

```
YES
NO
```

### Hint(s)

Source	Frank Arteaga Salgado
Added by	<b>frankr</b>
Addition date	2014-05-13
Time limit (ms)	5000

## Caribbean Online Judge

Test limit (ms)	5000
Memory limit (kb)	64000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text