The Prime Beginning

locked

Problem Submissions Leaderboard Discussions

Once upon a time, there lived a little fish called "G", he wanted to see the world so he left his little fish village. Upon leaving, he encountered a monster. If he wants to survive, he has to answer the monster's question correctly. The monster will say a number **n**, and G must determine whether n is a prime number or not a prime number. If **n** is prime, print "IT IS A PRIME" without the quotation marks, if **n** is not a prime number, print "IT IS NOT A PRIME" without the quotation marks. Prime numbers are whole numbers greater than 1, that have only two factors – 1 and the number itself. Prime numbers are divisible only by the number 1 or itself. Help G to overcome his first challenge, this is the start of an epic journey.

Input Format

The first and only line contains an integer **n**.

Constraints

2<=n<=1000

Output Format

If **n** is prime, print "IT IS A PRIME" without the quotation marks, if **n** is not a prime number, print "IT IS NOT A PRIME" without the quotation marks.

Sample Input 0

```
2
```

Sample Output 0

```
IT IS A PRIME
```

Explanation 0

the number 2 has only 1 and itself as factors. Therefore 2 is a prime number.

Sample Input 1

```
4
```

Sample Output 1

```
IT IS NOT A PRIME
```

Explanation 1

the number 4 has 1, 2, and 4 as its factors. Therefore, 4 is not a prime.

Submissions: 22
Max Score: 1
Difficulty: Medium

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C

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code