

Write a function called `is_prime` that checks if a given positive integer is a prime number. It should return true or false. For example `is_prime(25)` and `is_prime(1337)` is false, `is_prime(2)` and `is_prime(2017)` is true. Use the main function below.

```
#include <iostream>
using namespace std;

// Write your function here.

int main() {
    if (is_prime(1) || !is_prime(2)) cout << "I feel disturbance in the force" << endl;
    for (int n = 200; n <= 300; n++) {
        if (is_prime(n)) {
            cout << n << " is a prime" << endl;
        }
    }
}
```