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/*
File: is_prime.cpp
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Creation Date: 2/22/2019
Synopsis:
This program determines if an input value is a prime number.
*/

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

int main()
{
    bool isprime(true);
    int i, number;

    cout << "Enter an integer greater than 2: ";
    cin >> number;
    cout << endl;

    for(i = 2; i < number; i++){
        if (number % i == 0) {
            isprime = false;
        }
    }

    if (isprime) {
        cout << "The value " << number << ": PRIME." << endl;
    }
    else
    {
        cout << "The value " << number << ": NOT PRIME." << endl;
    }
    return 0;
}

```