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/*
File: isprime.cpp
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Synopsis: This program list prime number from minimum number to maximum
number.
*/

#include <iostream>
#include <cmath>

using namespace std;

// FUNCTION PROTOTYPE FOR read_range
//Parameter min is minimum number and max is maximum nummber.
void read_range(int & min, int & max);

// FUNCTION PROTOTYPE FOR is_prime
/* Parameter j is the number that is being determined
whether or not it is a prime number. */
bool is_prime(int j);

// DO NOT MODIFY THE MAIN ROUTINE IN ANY WAY
int main()
{
    int imin(0), imax(0);

    // Read in range
    read_range(imin, imax);

    // Print prime numbers
    cout << "Primes:";
    for (int j = imin; j <= imax; j++) {
        if (is_prime(j))
        {
            cout << "  " << j;
        }
    }
    cout << endl;

    return 0;
}

// DEFINE FUNCTION read_range() HERE:
/* This function reads the range of minimum number and maximum number.
The function determined whether or not the minimum number and maximum
number
smaller than 2 and whether or not minimum number is bigger thhan
maximum
number.
*/
void read_range(int & min, int & max){

    cout << "Enter minimum and maximum: ";

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cin >> min >> max;

while(min < 2 || max < 2 || min > max){

if(min < 2 || max < 2){
    cout << "Error. Minimum and maximum must be at least 2." << endl;
    cout << "Enter minimum and maximum: ";
    cin >> min >> max;
}

else if(min > max){

    cout << "Error. Minimum must be less than maximum." << endl;
    cout << "Enter minimum and maximum: ";
    cin >> min >> max;

}
}

// DEFINE FUNCTION is_prime() HERE:
// This function determined whether or not j is a prime number.
bool is_prime(int j){

    int b;

    for (b = 2; b <= j - 1; b++){

        if (j % b == 0){

            return false;

        }

    }

}

```