Prime Number Identification in JavaScript

# Introduction

This document provides an overview and implementation details of a JavaScript function designed to identify prime numbers. A prime number is one that is only divisible by 1 and itself, and has no other divisors.

## Understanding Prime Numbers

Prime numbers are integers greater than 1 that have only two factors: 1 and the number itself. Examples include 2, 3, 5, 7, etc. These numbers play a crucial role in various fields, particularly in mathematics and computer science, due to their fundamental properties in number theory.

## JavaScript Function for Prime Number Check

The function `IsPrime` checks whether a number is a prime number by trying to divide it by all numbers less than it. If any number divides it evenly (other than 1 and the number itself), it is not a prime number.

### Function Definition

let Isprime = function (i) {

  isPrime = true;

  for (let j = 2; j < i; j++) {

    if (i % j == 0) {

      isPrime = false;

      break;  // Exit the loop if any divisor is found

    }

  }

  re

### Usage Example

let n = 20;

for (let i = 2; i < n; i++) {

  let isPrime = Isprime(i);

  if (isPrime == true) {

    console.log(i);

  }

}

# Conclusion

The provided JavaScript code offers a straightforward method for identifying prime numbers. It is optimized for clarity and simplicity, making it easy for other programmers to understand and integrate into their projects.