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GitHub Link: <https://github.com/BRoy98/OSLab>

Code: Print prime numbers using Multithreading

Description: A prime number is a natural number greater than 1 whose only factors are 1 and itself.

A thread is a task that runs linked to a process. A process we can have multiple threads and threads can run other threads and so on. By default a process runs on a single thread. Each thread is new tasks that can be run indefinitely and in parallel to the other threads.

Code Snippet:

```
void *printPrimeNumbers(int count)
{
    int printCount = 0;
    int num = 1;
    int i;
    while (printCount < count)
    {
        num++;
        for (i = 2; i <= num - 1; i++)
        {
            if (num % i == 0)
                break;
        }
        if (i >= num - 1)
        {
            printf("%d ", num);
            printCount++;
        }
    }
    printf("\n\n");
}
```

Boundary Conditions: It can only take integers as input. Invalid input checking are not there in the code.

Test Cases:

Input: 10

Output: First 10 prime numbers are: 2 3 5 7 11 13 17 19 23 29

Input: 5

Output: First 5 prime numbers are: 2 3 5 7 11

Github Link: <https://github.com/BRoy98/OSLab/blob/master/multithreading.c>