



```
public class problem10_primeSummation {
    public static void main(String[] args) {
        long sum = 0L;
        long j = 2L;

        // as long as our current prime is less than 2,000,000
        // we execute the loop and add it to the sum
        while (j < 2000000L) {
            if (isPrime(j) == true) {
                sum += j;
            }
            j++;
        }

        System.out.println(sum);
    }

    public static boolean isPrime(long n) {
        for (long i = 2; i <= Math.sqrt(n); i++) {
            if (n % i == 0) {
                return false;
            }
        }
        return true;
    }
}
```