Find the sum of prime numbers not greater than N.

Your task is to find the sum of all prime numbers not greater than N and you have to do it FAST. Otherwise you will get "Execution time limit exceeded". Choose wisely!

To clarify, a prime number is a number that is divided only by itself and 1.  
1 is not considered to be prime.

**Note:** Return the answer modulo 256.

**Examples**

For N = 5 the answer should be 2 + 3 + 5 = 10.  
For N = 50 the answer should be 328 % 256 = 72.

* **[input] integer N**
  + 1 ≤ N ≤ 106.
* **[output] integer**
  + The answer to the task.

<https://codefights.com/challenge/QhmkfX3QomHDnd3wk>

--ACEPTADO—

int Sum\_prime\_numbers(int N) {

    if (N < 2) return 0;

     if (N == 2) return 2;

     int sum = 2;

     for (int i = 3; i <= N; i += 2)

     {

         bool es = true;

         int sqr = (int) sqrt(i);

         for (int j = 3; j <= sqr; j += 2)

         {

             if (i % j == 0)

             {

                 es = false;

                 break;

             }

         }

         if (es)

         {

             sum += i;

         }

     }

     return sum % 256;

}