Prime Generation Primality Testing > O(N) 1 < N < 1.016 J ∈ n < 106 [1, N] -> generate all primes within this range i) With promatity testing -> (NJN) 1 2 + 3 + 2 + 5 + .... +  $= n \left( 1 + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \dots + \frac{1}{n} \right)$ = n. logn

 $\frac{126}{12n} = 0$   $\frac{126}{12n$ 

CPU RAM C GPU