Sieve.

Preimality Testing: Decide whethere N is prime ore not

Prime Generation: Generates primes within a specific range

1,3,5,7,....

Sieve of erratosthenes

1021th NIN 1021th 1

(31) 1/2 3/2 3/4 3/5 3/6 (37) 3/8 3/9 3/6

91 42 93 34 95 96 97 48 96 50

\[\lambda_{121}\right]=\lambda_{10}

N=50 marked [100];

for (int i=2; $i \leq N$; i++)

i SIN , i 2 < N

NAODIEZ

- N (log2N)

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 $\frac{1}{5\times10}$ $\frac{1$

1 (Jog2N)