

```
1  /*
2   | Sieve of Eratosthenes |
3   Desc: Get all primes from 1 to MXP in O(n*log(log(n)))
4   Source: KawakiMeido
5   State: Untested lmao
6 */
7 const int MXP = 1e6;
8
9 vector<int> primes;
10
11 void Sieve(){
12     bitset<MXP+1> bs;
13     bs.set();
14     bs[0] = bs[1] = 0;
15     for (int i=2; i*i <= MXP; i++){
16         if (!bs[i]) continue;
17         for (int j=i*i; j <= MXP; j+=i){
18             bs[j]=0;
19         }
20     }
21
22     for (int i=1; i <= MXP; i++){
23         if (bs[i]) primes.push_back(i);
24     }
25 }
```