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1 //Description: Generate primes through n using the Sieve of Eratosthenes
2 void getPrimes(int n, bool isPrime[]) {
3     //set all indices to true
4     memset(isPrime, true, sizeof(isPrime));
5     //0 and 1 are not prime
6     isPrime[0] = false;
7     isPrime[1] = false;
8     //loop from 2 to sqrt of max
9     for(int i = 2; i < sqrt(n+1); i++){
10         //if we find a prime
11         if(isPrime[i]){
12             //set each multiple of that prime to false;
13             for(int j = i*2; j < n+1; j += i)
14                 isPrime[j] = false;
15         }
16     }
17 }

```

primesieve.cpp