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#15 Days of Coding Challenge
#Day 14
Count primes
#Leetcode 204
Solution:
class Solution {
public:
   int countPrimes(int n) {
       vector<int> a(n , 1);
       for(long i = 2; i < n ; i++) {
            if(a[i] == 1){
                for(long j = i*i; j < n ; j+=i){</pre>
                    if(a[j] == 1) a[j] = 0;
                }
            }
           else{continue; }
        }
       int cnt = 0;
       for (int k = 2; k < n; k++) {
            if(a[k] == 1) cnt++;
        }
       return cnt;
   }
} ;
Time Complexity: O(n log log n)
```

Space Complexity: O(n)