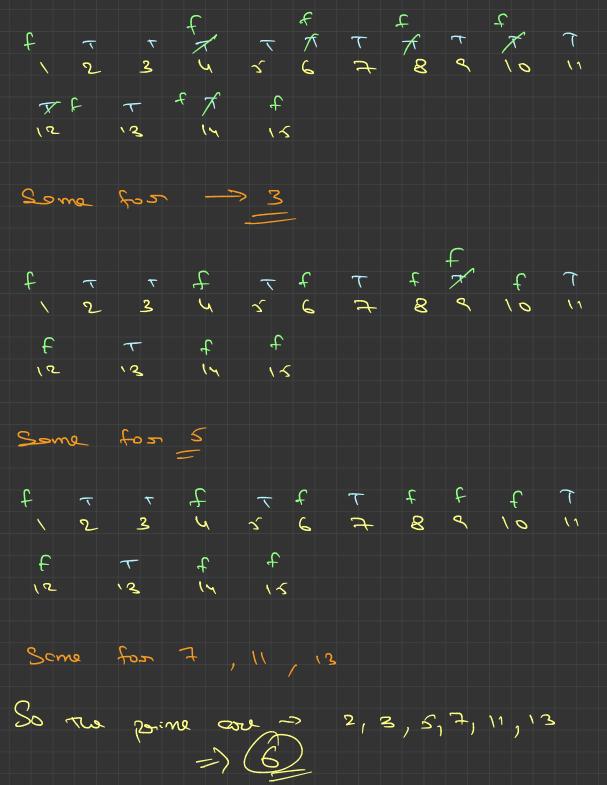


Sime No Serve of Francisco segmented seize MA Exockey lonly Mance Apparach olb > barne not not bzino 12, ---- ,9,10 class Solution { public: bool checkPrime(int n){ for(int i = 2; i < n; i++){ $if(n\%i == 0){$ = (i.1. M) return false: return true; int countPrimes(int n) { int count = 0; E13e for(int i = 2; i < n; i++){ if(checkPrime(i)) count++; (> b=:we return count;

Seive of Everyostheres 4=15 So we most the torse on one Bus we don't need 1 & n so we mank T T T X F we know that the smallest poins no +2 f 2 -> Pz:ne is it possible -> all the moltiple of 2 So -> we make the force of the



, larroy nois ba: wa -> 42000 88 2) Greet from 2 tru end, morks 2 21 The no. Comps in 40012 08 vou - brime 3) Repeat (2) 4111 (N-1) only The 4) Rest elements monked as prime S) Reton Count

```
class Solution {
public:
  int countPrimes(int n) {
     if(n == 0) return 0;
     // make a vector with mark all prime with true
     vector<bool> prime(n, true);
     // mark 0 & 1 -> false - bcoz it will not count in prime
     prime[0] = prime[1] = false;
     int count = 0:
     for(int i = 2; i < n; i++){
       // check in array if i is prime mark or not
       // if prime -> count++ -> and start the table of i -> mark all non-prime
       if(prime[i]){
          count++;
          // get the table of 2 -> mark false;
          for(int j = 2^*i; j < n; j = j+i)
            prime[j] = false;
       }
     return count;
};
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