

```
public static List<Integer> sieveOfEratosthenes(int n) {
 boolean[] prime = new boolean[n + 1];
for (int i = 0; i <= n; i++)
     prime[i] = true;
for (int p = 2; p * p <= n; p++) {
     if (prime[p]) {
         for (int i = p * p; i <= n; i += p)</pre>
             prime[i] = false;
}
List<Integer> primes = new ArrayList<>();
for (int i = 2; i <= n; i++) {
     if (prime[i]) {
         primes.add(i);
return primes;
```