```
tasthenes(int n) {
public stat List<Intege
                              m[n + 1];
    Doore
                      <= n; i++)
    fo
        prime[i] = true;
            for (in
                                  <= n; i += p)
                prime[i] = false;
    List<Integer> primes = new ArrayList<>();
    for (int i = 2; i <= n; i++) {
        if (prime[i]) {
            primes.add(i);
    return primes;
```