n = 25

1 → n - (1-1) = 25

2 → n - (10-1) = 25-9 = 16

100 → n - (100-1) = 25-99 =

n - (i-1) < 0

n < (i-1).

---

i: [2 ---- n-1].

n%i == 0 → Not Prime.

TC = O(n).

i: [2 ---- n/2] TC = O(n).

n = 20.

1, 2, 4, 5, 10, 20

factors always occur in pairs

n = 36

1, 2, 3, 4, 6, 9, 12, 18, 36

$\sqrt{n}$ $\sqrt{n}$

$\sqrt{n}$

i [2 ---- $\sqrt{n}$]

TC = O($\sqrt{n}$)

$i \leq \sqrt{n}$

$i^2 \leq n$