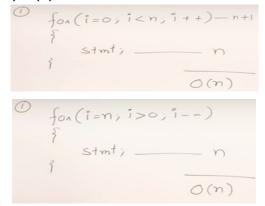
Time complexity:

1) O(n)



for
$$(i=1; i < n; i=i+2)$$

$$\frac{1}{2}$$

$$\frac{n}{2}$$

$$O(n)$$

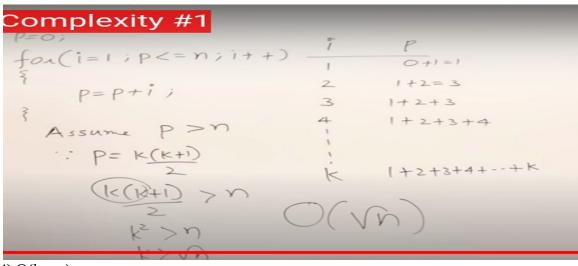
$$fon(i=1; i < n; i=i+20)$$
 $fon(i=1; i < n; i=i+20)$
 $fon(i=1; i < n; i=i+20)$

2) O(n2)

for (i=0; in+1

for (j=0; jn\times(n+1)
$$start;$$
 — $n\times n$
 $n\times n$
 $n\times n$

3) O(n1/2)



4) O(log n)

for (i=1;i < n;i=i*2)

for (i=1;i < n;i=i*2)

strat;

$$2 \times 2 = 2$$

$$2^{2} \times 2 = 2^{2}$$

for
$$(i=n; i>=1; i=i/2)$$

stant;

Assume $i<1$
 $\frac{n}{2^2}$
 $\frac{n}{2^k} < 1$
 $\frac{n}{2^k} < 1$

(8)
$$fon(i=0; i< n; i+1)$$
 $fon(j=0; j< n; j+1)$
 $fon(j=0; j< n; j$

```
for (i=0; i*i < n; i++)

Stmt;

i*i < n

i*i > -n

i^2 = n

i = \sqrt{n}
```