N=100 Example 1.

```
int count = 0;
void example1(int n) {
   for (int i = 0; i < n; i++) (n)
       count++;
}
```

Count = 100

Example 2.

```
void example2(int n) {
    for (int j = 0; j < n; j++) {
for (int j = 0; j < n; j++)  (n) 
            count++;
    }
}
```

Count = 1002 = 10000

Example 3.

```
void example3(int n) {
    for (int i = 0; i < n; i++) {</pre>
        for (int \underline{j} = \underline{i}; j < n; j++)
            Count = 100 (100+1)
    }
}
                   # times inner
                      loop Mas
        n-l
```

Example 4.

```
void example4(int n) {
   for (int i = 0; i * i < n; i++)
        count++;
}</pre>
```

Example 5.

count =
$$\{log_2 | loo\} = \{c...\} = 7$$

 $2^c = 64$ $2^c 2' 2^2 2^3 2^7 2^5 2^6$
 $1^3 = 128$ $1 2 4 8 16 32 64$

Example 6.

```
void example6(int n) {

for (int i = n * n * n; i > 0; i /= 3)

count++;

Count = [logs/00<sup>3</sup>] = /3 = 0(-logs)
```

Example 7.

```
void example7(int n) {
   for (int i = 0; i < n; i += 5)
        count++;
}</pre>
```

$$Count = \frac{W0}{5} = 20$$

$$h = 20$$
 0 5 10 15 $20/5=4$

Example 8.

```
void example8(int n) {
       int m = 0;
       int i = n;
       }
       for (i = 0; i < n * m; i++) } (2)
count++;
10
  }
11
    count = nm
            = 100 \lceil \log_4 100 \rceil = 100.73...7 = 100.4 = 400
   Example 9.
  void example9(int n) {

for (int i = 0; i < n * n; i++) {

Take for (int j = 0; j * j * j < n; j++) }

count1++;

for (int j = 1; j < n; j *= 2)

count2++;

for (int j = 1; j < n; j *= 2)

count2++;
  }
       Total = 0 (35n·n2) = 0 (n2/3)
         Count 1 = ((3/100)) 1002 = 50000
         Count 2 = ([log_100]) 1002 = 70000
```