

What is time complexity of following code :

```
count = 0
I = N
While (i > 0) :
    J = 0
    While (j < i) :
        count += 1;
        j = j + 1
    I = i // 2
```

Options :

- A)  $O(N) * O(\log N)$
- B)  $O(N^2)$
- C)  $O(N)$
- D) None

Answer :-

- A)  $O(N) * O(\log N)$