

What is the time complexity of following code :

```
a = 0
b = 0;
for i in range(N) :
    a = a + 25
    for j in range(M) :
        b = b + 50
```

Options :

- A)  $O(N) + O(M)$
- B)  $O(N) * O(M)$
- C)  $O(N) ^ O(M)$
- D) None

Answer:-

- A)  $O(N)+O(M)$