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Assignement 1

**Question 1**

What is the time, space complexity of following code:

int a = 0, b = 0;

for (i = 0; i < N; i++) {

a = a + 1;

}

for (j = 0; j < M; j++) {

b = b + j;

}

Time complexity =O(N+M)

Space complexity =O(1)

**Question 2**

What does it mean when we say that an algorithm X is asymptotically more efficient than Y?

ANS: a)X will be a better choice for all inputs