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Lab 2

**Question 2:**

**Ex1:**

* While loop = n, since there is a nested while loop so its n\*n = n^2. The rest are constants. Therefore the time complexity is O(N^2).

**Ex2:**

* This is similar to the previous example, one for loop is n, but we have a nested for loop thus it’s n^2. There the time complexity is O(N^2).

**Ex3:**

**Cost** **Times**

C1 O(N)

C2 O(N)

C3 O(N)

C4 O(1)

**Ex4:**

**Cost Times**

C1 O(N)

C2 O(N)

C3 O(1)

C4 O(1)