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Time Complexity Analysis - Homework

1) for (j = 0; j < n; j++)

foo(j);

The time complexity would be **O(n)** because the method foo is being called j times and is constant.

2) for (j=0; j < n; j++)

faa(j);

The time complexity would be **O(n^2)** because the method foo is being called j times and is linear.

3) for (j = 0; j < n; j++)

faa(k);

The time complexity would be **O(1)** because the parameter ‘k’, in the method faa is not being iterated by the expressions in the for loop.