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1ST DSA ASSIGNMENT

1.) Find the time complexity for the following scenarios

a.) for(i=1;i<=n;i++)

for(j=i;i<=n;j++)

printf("Hi");

=>

TIME COMPLEXITY-O(n^2) As Inner loop runs for n-times and outer loop also runs for times and Both are nested.

b.) for(i=1;i<=n;i\*=3)

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

printf("Hello");

=>

TIME COMPLEXITY-O(n.logn) As inner loop runs for n-times and outer loop runs for logn times and both loops are nested.