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TiME COMPLEXITY OF

1.

for( int i=0;i<=n;i++){

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

cout<<”Hi”;

}

Answer: **Time complexity is O(n^2) as there are two nested loops the inner loop runs for n(n+1)/2 times and outer loops for n times**

2.)

for( int i=0;i<=n;i=i\*3){

for( int j=0;j<=n;j++){

cout<<”Hello”;

}

}

Answer: **Time complexity is O(nlogn) as there are two nested loops The outer loop runs for 3^k<n times which is logn and the inner loops runs for n times**