OBSERVATIONAL TIME COMPLEXITY

CODE/PSEUDOCODE	OBERVATIONAL TIME EVALUATION

main ()
{
printf(“hello”);
}
	T(n) = Constant/O(c)/O(1)
	
	Where ‘c’ is constant

main ()
{
If(condition1)
printf(“hello”);
else
printf(“Hi”);
}
	T(n) = Constant/O(c)/O(1)
	
	Constant Time complexity

main ()
{
for (i=1; i<=n; i++)
printf(“Hello”);
}
	T(n) = O(n)
	
	Linear Time complexity

main ()
{
for (i=1; i<=n; i++)
for (j=1; i<=n; i++)
printf(“Hello”);
}
	T(n) = $O(n^2)$
	
	Quadratic Time Complexity

main ()
{
for (i=1; i<=n; i++)
for (j=1; i<=n; i++)
for (k=1; i<=n; i++)
printf(“Hello”);
}
	T(n) = $O(n^3)$
	
	Cubic Time Complexity