

Question 1

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:- $O(n^2)$

```
b.) for(i=1;i<=n;i*=3)  
    for(j=1;i<=n;j++)  
        printf("Hello");
```

Time Complexity:- $O(n \log(n))$