Data Structure and Algorithm

<u>Day 1</u>

1. Find the time complexity for the following scenarios

```
a) for(i=1;i<=n;i++) {
    for(j=i;i<=n;j++) {
        printf("Hi");
      }
}</pre>
```

```
b) for(i=1;i<=n;i*=3) {
    for(j=1;i<=n;j++) {
        printf("Hello");
      }
}</pre>
```

```
Ans: T_n = O(n)
```

Ans: $T_n = O(n^2)$