Day 1

1. Write a menu driven program to perform operations in an array.

Enter size of Array:
***********************************Menu :
1. Insert
2. Delete
3. Search
4. Display
5. Exit
****
2. Analyze complexity of loops and recursive algorithms

```
int a = 0, b = 0;
for(i=0; i<n; i++){
    a = a + rand();
}
for(j=0; j<m; j++){
    b = b + rand();
}
```

```
int a = 0, b = 0;
for(i=0; i<n; i++){
    for(j=0; j<n; j++){
        a = a + j;
    }
}
for(k=0; k<n; k++){
    b = b + k;
}
```

```
int a = 0;
for(i=0; i<n; i++){
    for(j=n; j>i; j--){
        a = a + i + j;
    }
}
```