

Practice Array 1 (Given in today's practice lab)

Q0. Create following program, discuss in class and already shared on google drive.

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main(){
    srand(time(0));
    int a[10], i;
    for (i=0;i<10;i++){
        a[i] = rand() % 100;
        printf ("%d ", a[i]);
    }
    printf ("\n");
    return 0;0
}
```

Q1. Extend above program and count number of elements less than 50

Q2. Extend/ modify above program, initialize array with values -50 to +50. Count and print negative numbers and positive numbers

Q3. Extend first program, print even number & odd numbers in separate lines. Hint: Use two separate loops to print even & odd numbers

Q4. Extend first program to generate each random number larger than previous number. Hint: You may generate first random number before loop

Q5. Extend first program, compare pair of numbers and print first number is smaller or second is smaller. By pair, we mean first & second numbers are pair, third & fourth numbers are pair and so on

Q6. Extend first program and print pair of numbers in separate lines. Here, each consecutive number are pairs. For example, first & second number are pair, second & third are pair, third & fourth are pair and so on