

## Logic Building Assignment: 17

1. Accept N numbers from user and return frequency of even numbers.

```
6
Input:
           N :
           Elements: 85
                           66
                                 3
                                       80
                                            93
                                                  88
Output:
           3
Program Layout:
#include<stdio.h>
int CountEven(int Arr[], int iLength)
     // Logic
int main()
{
     int iSize = 0,iRet = 0,iCnt = 0;
     int *p = NULL;
     printf("Enter number of elements");
     scanf("%d",&iSize);
     p = (int *)malloc(iSize * sizeof(int));
     if(p == NULL)
     {
           printf("Unable to allocate memory");
           return -1;
     }
     printf("Enter %d elements ",iLength);
     for(iCnt = 0;i<iLength; iCnt++)</pre>
     {
           printf("Enter element : %d",iCnt+1);
           scanf("%d",&p[iCnt]);
     }
     iRet = CountEven(p, iSize);
```



```
printf("Result is %d",iRet);
free(p);
return 0;
}
```

## 2. Accept N numbers from user and return difference between frequency of even number and odd numbers.

90

```
Input:
           N:
           Elements: 85
                           66
                                 3
                                       80
                                            93
                                                  88
Output:
          1 (4 - 3)
Program Layout:
#include<stdio.h>
Int Frequency(int Arr[], int iLength)
     // Logic
}
int main()
{
     int iSize = 0,iRet = 0,iCnt = 0, iRet = 0;
     int *p = NULL;
     printf("Enter number of elements");
     scanf("%d",&iSize);
     p = (int *)malloc(iSize * sizeof(int));
     if(p == NULL)
     {
           printf("Unable to allocate memory");
           return -1;
     }
     printf("Enter %d elements ",iLength);
     for(iCnt = 0;iCnt<iLength; iCnt++)</pre>
     {
           printf("Enter element : %d",iCnt+1);
           scanf("%d",&p[iCnt]);
```



```
}
iRet = Frequency(p, iSize);
printf("%d",iRet);
free(p);
return 0;
}
```

## 3. Accept N numbers from user check whether that numbers contains 11 in it or not.

Input: N: 6

Elements: 85 66 11 80 93 88

Output: 11 is present

Input: N: 6

Elements: 85 66 3 80 93 88

Output: 11 is absent

Program Layout :

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

#define TRUE 1 #define FALSE 0

typedef int BOOL;

int iSize = 0,iRet = 0,iCnt = 0;
int \*p = NULL;

BOOL bRet = FALSE;

printf("Enter number of elements");



```
scanf("%d",&iSize);
p = (int *)malloc(iSize * sizeof(int));
if(p == NULL)
{
     printf("Unable to allocate memory");
     return -1;
}
printf("Enter %d elements ",iLength);
for(iCnt = 0;iCnt<iLength; iCnt++)</pre>
     printf("Enter element : %d",iCnt+1);
     scanf("%d",&p[iCnt]);
}
bRet = Check(p, iSize);
if(bRet == TRUE)
     printf("11 is present");
else
{
     printf("11 is absent");
free(p);
return 0;
```

## 4. Accept N numbers from user and return frequency of 11 form it.

Input: N: 6

Elements: 85 66 3 15 93 88

Output: 0

}

Input: N: 6

Elements: 85 11 3 15 11 111

Output: 2



```
Program Layout:
#include<stdio.h>
int Frequency(int Arr[], int iLength)
     // Logic
int main()
{
     int iSize = 0,iRet = 0,iCnt = 0, iRet = 0;
     int *p = NULL;
     printf("Enter number of elements");
     scanf("%d",&iSize);
     p = (int *)malloc(iSize * sizeof(int));
     if(p == NULL)
           printf("Unable to allocate memory");
           return -1;
     }
     printf("Enter %d elements ",iLength);
     for(iCnt = 0;iCnt<iLength; iCnt++)</pre>
     {
           printf("Enter element : %d",iCnt+1);
           scanf("%d",&p[iCnt]);
     }
     iRet = Frequency(p, iSize);
     printf("%d",iRet);
     free(p);
     return 0;
}
```

5. Accept N numbers from user and accept one another number as NO , return frequency of NO form it.

Input: N: 6



```
NO:
                      66
           Elements: 85
                           66
                                 3
                                       66
                                            93
                                                  88
Output:
           2
                      6
Input:
           N :
           NO:
                      12
           Elements: 85
                            11
                                 3
                                       15
                                            11
                                                  111
Output:
           0
Program Layout:
#include<stdio.h>
int Frequency(int Arr[], int iLength, int iNo)
     // Logic
int main()
     int iSize = 0,iRet = 0,iCnt = 0, iRet = 0, iValue = 0;
     int *p = NULL;
     printf("Enter number of elements");
     scanf("%d",&iSize);
     printf("Enter the number");
     scanf("%d",&iValue);
     p = (int *)malloc(iSize * sizeof(int));
     if(p == NULL)
     {
           printf("Unable to allocate memory");
           return -1;
     }
     printf("Enter %d elements ",iLength);
     for(iCnt = 0;iCnt<iLength; iCnt++)</pre>
```



