Assignment On Malloc (Dynamic Memory Allocation)

1. Write a program which accept number from user and return difference between summation of all its factors and non factors.

```
Input : 12
Output : -22          (28  - 50)
```

2. Write a program which accept N numbers from user and return difference between summation of even elements and summation of odd elements.

```
Input : 5
Elements : 7, 14, 9, 3, 10
Output : 5          (24   19)
```

3. Write a program which accept N numbers from user check whether that numbers contains 11 in it or not.

```
Input :  5
Elements : 111  61  11  93  11
Output : 11 is present
```

4. Write a program which accept N numbers from user and display all such elements which are divisible by 5

```
Input : 5
Elements : 10  25  30  42  49
Output :   10  25  30
```

5. Write a program which accept N numbers from user and display all such elements which are even and divisible by 5.

```
Input : 5
Elements : 10  25  30  42  49
Output : 10  30
```

6. Write a program which accept N numbers from user and display all such elements which are divisible by 2 and 5.

```
Input : 5
Elements : 10  25  30  42  49
Output : 10  30
```

7. Write a program which accept N numbers from user and display all such elements which are divisible by 2 or 5.

```
Input : 5
Elements : 10  25  30 42  49
Output : 10  25  30  42
```

8. Write a program which accept N numbers from user and display all such elements which are multiples of 7.

```
Input : 5
Elements : 10  25  30  42  49
Output : 42  49
```

9. Write a program which accept N numbers from user and return frequency of 11 form it.

```
Input : 5
Elements : 10  25  30  42  49
Output :   0

Input :  5
Elements : 111  61  11  93  11
Output : 2
```

10. Write a program which accept N numbers from user and accept one another number as Num , return frequency of Num form it.

```
Input :  5
Elements : 21  61  11  93  21
Num: 21
Output : 2

Input :  5
Elements : 21 61 11 93 21
Num: 7
Output : 0
```

11. Write a program which accept N numbers from user and return frequency of even numbers.

```
Input :  5
Elements : 4, 7, 10, 13, 20
Output : 3
```

12. Write a program which accept N numbers from user and return difference between frequency of even number and odd numbers.

```
Input :  5
Elements : 4, 7, 10, 13, 20
Output : 1                    (3  2)
```

13. Write a program which accept N numbers from user and accept one another number as Num , check whether Num is present or not.

```
Input :  5
Elements : 2 6 11 3 21
Num: 21
Output : TRUE

Input :  5
Elements : 2 6 11 3 21
Num: 7
Output : FALSE
```

14. Write a program which accept N numbers from user and accept one another number as Num , return index of first occurrence of that Num.

```
Input :  5
Elements : 2 6 11 3 11
Num: 11
Output : 2
```

Input : 6
Elements : 2 6 11 3 11 21
Num: 7
Output : -1

15. Write a program which accept N numbers from user and accept one another number as Num , return index of last occurrence of that Num.

Input : 5
Elements : 2 6 11 3 11
Num: 11
Output : 4

16. Write a program which accept N numbers from user and accept Range, Display all elements from that range

Input : 5
Elements : 5 18 32 7 25
Range: 10 to 30
Output : 18 25

17. Write a program which accept N numbers from user and return product of all odd elements.

Input : 5
Elements : 3 8 5 10 7
Output : 105 (3 * 5 * 7)

18. Write a program which accept N numbers from user and return the largest number

Input : 5
Elements : 12 7 22 5 17
Output: 22

19. Write a program which accept N numbers from user and return the smallest number.

Input : 5
Elements : 12 7 22 5 17
Output: 5

20. Write a program which accept N numbers from user and return the difference between largest and smallest number.

```
Input :  5
Elements : 12  7  22  5  17
Output: 17              (22-7)
```

21. Write a program which accept N numbers from user and display all such numbers which contains 3 digits in it.

```
Input :  5
Elements : 123  45  678  1000  999
Output: 123  678  999
```

22. Write a program which accept N numbers from user and display summation of digits of each number.

```
Input :  3
Elements : 123  45  678
Output:      6     9     21
```