Logic Building Assignment : 72

1. Write generic program which accept one value and one number from user. Print that value that number of times on screen.

Input :   M   7

Output :   M   M   M   M   M   M   M

Input :   11   3

Output :   11   11   11

Input :   3.7   6

Output :   3.7   3.7   3.7   3.7   3.7   3.7

```
template<class T>
void Display(T value, int iSize)
{
        // Logic
}
int main()
{
        Display('M',7);
        Display(11,3);
        Display(3.7,6);
        return 0;
}
```

2. Write generic program to accept N values and count frequency of any specific value.

Input : 10 20   30   10   30   40   10   40   10

Value to check frequency : 10

Output :   4

```
template<class T>
int Frequency(T *arr, int iSize, T iNo)
{
        // Logic
```

```
}
int main()
{
        int arr[]={10,20,30,10,30,40,10,40,10};

        int iRet = Frequency(arr,9,10);

        printf("%d",iRet);// 4

        return 0;

}
```

3. Write generic program to accept N values and search first occurrence of any specific value.

Input : 10   20   30   10   30   40   10   40   10

Value to search   : 40

Output : 6

```
template<class T>

int SearchFirst(T *arr, int iSize, T iNo)

{
        // Logic
}
int main()
{
        int arr[]={10,20,30,10,30,40,10,40,10};

        int iRet = SearchFirst(arr,9,40);

        printf("%d",iRet);// 6

        return 0;

}
```

4. Write generic program to accept N values and search last occurrence of any specific value.

Input : 10 20   30   10   30   40   10   40   10

Value to search   : 40

Output : 8

```
template<class T>

int SearchLast(T *arr, int iSize, T iNo)

{
      // Logic
}

int main()

{
      int arr[]={10,20,30,10,30,40,10,40,10};

      int iRet = SearchLast(arr,9,40);

      printf("%d",iRet);// 8

      return 0;
}
```

5. Write generic program to accept N values and reverse the contents.

Input :	10	20	30	10	30	40	10	40	10
Output :	10	40	10	40	30	10	30	20	10

```
template<class T>

void Reverse(T *arr, int iSize)

{
      // Logic
}

int main()

{
      int arr[]={10,20,30,10,30,40,10,40,10};

      for(int i=0;i<9;i++)

      {
            cout<<arr[i];    // 10 20   30   10   30   40   10   40   10
      }

      Reverse(arr,9);
```

```
for(int i=0;i<9;i++)
{
        cout<<arr[i];      // 10 40    10    40    30    10    30    20    10
}
return 0;
}
```