Logic Building Assignment : 70

Complete below code snippet by writing definitions of below function
1.SearchLast() - Search last occurrence of number
2.EvenCount() - Count even elements
3.OddCount(). - Count odd elements
4.SumAll(). - sum of all elements

```
#include<iostream>
using namespace std;

class Array
{
    protected:
        int *Arr;
        int size;

    public:
        Array(int value = 10)
        {
                cout<<"Inside Connstructor\n";

            this->size = value;
                this->Arr = new int[size];
        }

         Array(Array &ref)
        {
            cout<<"Inside copy connstructor\n";

            this->size = ref.size;
             this->Arr = new int[this->size];

             for(int i = 0;i<size;i++)
             {
                      this->Arr[i] = ref.Arr[i];
             }
        }

         ~Array()
         {
               cout<<"Inside Destructor\n";

              delete []Arr;
          }
```

```
                inline void Accept();
                inline void Display();
};

void Array::Accept()
{
    cout<<"Please enter the values\n";

    for(int i = 0;i<this->size;i++)
    {
        cin>>Arr[i];
    }
}

void Array::Display()
{
    cout<<"Elements are\n";

    for(int i = 0;i<this->size;i++)
    {
        cout<<Arr[i]<<" ";
    }
    cout<<"\n";
}

class ArrSearch : public Array
{
        public:
            ArrSearch(int no = 10) : Array(no)
          {}

          int Frequency(int);
          int SearchFirst(int);
          int SearchLast(int);
          int EvenCount();
          int OddCount();
};

int ArrSearch::SearchFirst(int value)
{
    int i = 0;

    for(i = 0; i < size; i++)
    {
        if(Arr[i] == value)
        {
            break;
        }
    }

    if(i == size)
    {
        return -1;
    }
    else
    {
        return i + 1;
    }
}
int ArrSearch::Frequency(int value)
{
    int icnt = 0;

    for(int i = 0; i<size; i++)
    {
        if(Arr[i] == value)
        {
            icnt++;
        }
    }

    return icnt;
}

int ArrSearch::SearchLast(int value)
{
        // Logic
}

int ArrSearch::EvenCount()
{
        // Logic
}

int ArrSearch::OddCount()
{
        // Logic
}

int ArrSearch::SumAll()
{
        // Logic
}
```

```
int main()
{
    cout<<"Inside main\n";

    ArrSearch sobj1(5);
    sobj1.Accept();
    sobj1.Display();

    int iret = sobj1.Frequency(11);

    cout<<"Frequency is "<<iret<<"\n";

   iret = sobj1.SearchFirst(11);

    cout<<"First occurance is is "<<iret<<"\n";

     // Call all the above functions

    return 0;
}
```