

Logic Building Assignment: 51

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";</pre> 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";</pre> delete []Arr; }

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```
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;
}</pre>
```

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