

Modulo Division :

```
#include<iostream>

#include<stdio.h>

using namespace std;

class A
{
    public:
    int a[100],size,i,j,k,temp,temp2;
    void choice()
    {
        cout<<"Enter size of an Array "<<endl;
        cin>>size;
        a[size];
        int ch;
        for(i=0;i<size;i++)
        {
            a[i]=0;
        }
        do
        {
            cout<<"Enter your choice. 1.insertion 2.search 3.display 4.exit"<<endl;
            cin>>ch;

            switch(ch)
            {
                case 1:
                    insert();
                    break;
```

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        case 2:
            search();
            break;

        case 3:
            display();
            break;
    }
}while(ch!=4);

}

void insert()
{

    /*cout<<"how many value you want to enter in and given array"<<endl;
    cin>>j;*/
    cout<<"Enter your data one by one "<<endl;
        cin>>temp;
        temp2=temp;
    if(temp2<size)
    {
        while(a[temp2]!=0)
        {
            temp2++;
            if(temp2>size-1)
            {

```

```

        temp2=0;
    }
}
if(a[temp2]==0)
{
    a[temp2]=temp;
}

}
else if(temp2>=size)
{
    temp2=temp2%10;
    cout<<temp2<<endl;
    while(a[temp2]!=0)
    {
        temp2++;
        if(temp2>size-1)
        {
            temp2=0;
        }
    }

    if(a[temp2]==0)
    {
        a[temp2]=temp;
    }
}
}

```

```

void search()
{
    cout<<"Enter value you want to search in an given array"<<endl;
    cin>>k;
    for(i=0;i<size;i++)
    {
        if(a[i]==k)
        {
            cout<<"Value is found at "<<i<<"th Position"<<endl;
            break;
        }

    }
    if(a[i]!=k)
    {
        cout<<"Value is not found in an given array";
    }
}

void display()
{
    cout<<"Given array is "<<endl;
    for(i=0;i<size;i++)
    cout<<a[i]<<endl;
}

};

int main()
{
    A o;

```

```
        o.choice();  
        return 0;  
    }
```

/******Output*****

```
Enter size of an Array  
10  
Enter your choice. 1.insertion 2.search 3.display 4.exit  
1  
Enter your data one by one  
15  
5  
Enter your choice. 1.insertion 2.search 3.display 4.exit  
1  
Enter your data one by one  
25  
5  
Enter your choice. 1.insertion 2.search 3.display 4.exit  
1  
Enter your data one by one  
19  
9  
Enter your choice. 1.insertion 2.search 3.display 4.exit  
1  
Enter your data one by one  
29  
9  
Enter your choice. 1.insertion 2.search 3.display 4.exit  
1  
Enter your data one by one  
40  
0
```

```
Enter your choice. 1.insertion 2.search 3.display 4.exit  
3  
Given array is  
29  
40  
0  
0  
0  
15  
25  
0  
0  
19
```

*****/