

1. Traverse the array and print the elements in all possible order.

```
#include <iostream>
using namespace std;
int main() {
    int i,n;
    cout<<"How many elements in Array:";
    cin>>n;

    int a[n];
    cout<<"Enter Elements:";

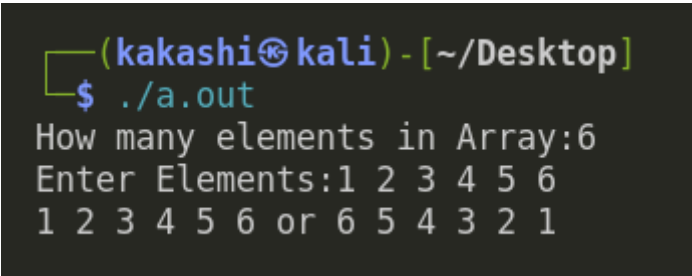
    for(i=0;i<n;i++)
    {
        cin>>a[i];
    }

    for(i=0;i<n;i++)
    {
        cout<<a[i]<<" ";
    }

    cout<<"or"<<" ";

    for(i=n-1;i>=0;i--)
    {
        cout<<a[i]<<" ";
    }
    return 0;
}
```

:output



```
(kakashi@kali) - [~/Desktop]
$ ./a.out
How many elements in Array:6
Enter Elements:1 2 3 4 5 6
1 2 3 4 5 6 or 6 5 4 3 2 1
```

2. Delete the element of specified position in the array

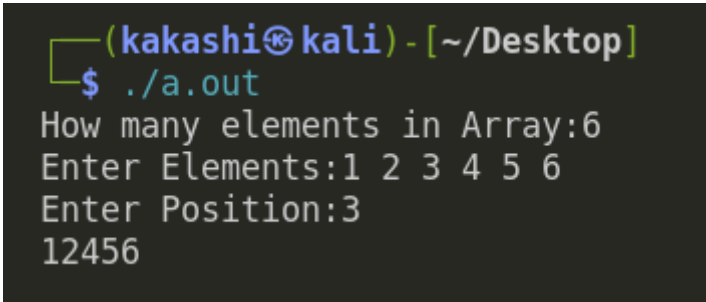
```
#include<iostream>
using namespace std;
int main()
{
    int n,i,p;
    cout<<"How many elements in Array:";
    cin>>n;
    int a[n];
    cout<<"Enter Elements:"<<ends;

    for(i=0;i<n;i++)
    {
        cin>>a[i];
    }

    cout<<"Enter Position:";
    cin>>p;
    p=p-1;

    for(i=0;i<n;i++)
    {
        if(i==p)
        {}
        else if(p<n)
        { a[i]; }
        else { cout<<"Invalid Position";
        exit(0);
        }
    }
    n--;
    for(i=p;i<n;i++)
    {
        a[i]=a[i+1];
    }
    for(i=0;i<n;i++)
    {
        cout<<a[i]<<ends;
    }
    return 0;
}
```

:output



```
(kakashi@kali) - [~/Desktop]
$ ./a.out
How many elements in Array:6
Enter Elements:1 2 3 4 5 6
Enter Position:3
12456
```

3. Print the minimum number and the maximum number of the array.

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

int getMin(int arr[], int n)
{
    int res = arr[0];
    for (int i = 1; i < n; i++)
        res = min(res, arr[i]);
    return res;
}

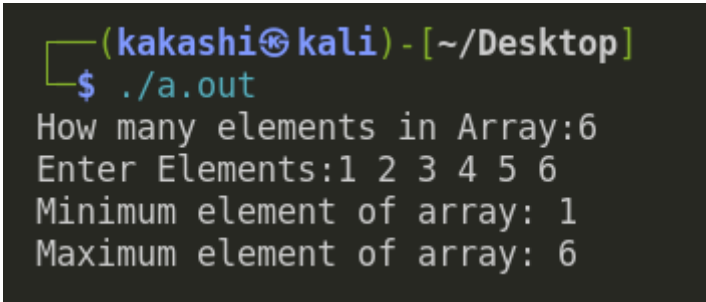
int getMax(int arr[], int n)
{
    int res = arr[0];
    for (int i = 1; i < n; i++)
        res = max(res, arr[i]);
    return res;
}

int main()
{
    int c,i;
    cout<<"How many elements in Array:";
    cin>>c;
    int arr[c];

    cout<<"Enter Elements:";
    for(i=0;i<c;i++)
    {
        cin>>arr[i];
    }

    int n = sizeof(arr) / sizeof(arr[0]);
    cout << "Minimum element of array: " << getMin(arr, n)
    << "\n";
    cout << "Maximum element of array: " << getMax(arr, n);
    return 0;
}
```

:output

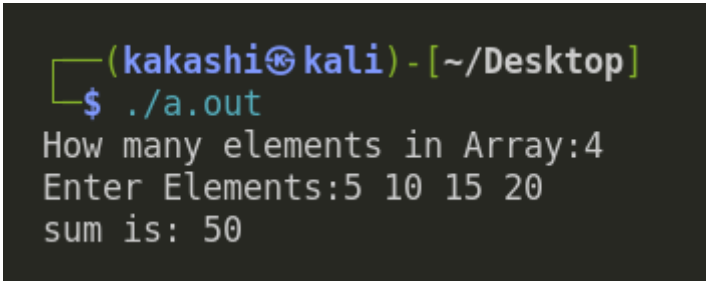
A terminal window with a dark background. The prompt is '(kakashi@kali) - [~/Desktop]'. The user enters '\$./a.out'. The program outputs: 'How many elements in Array:6', 'Enter Elements:1 2 3 4 5 6', 'Minimum element of array: 1', and 'Maximum element of array: 6'.

```
(kakashi@kali) - [~/Desktop]
$ ./a.out
How many elements in Array:6
Enter Elements:1 2 3 4 5 6
Minimum element of array: 1
Maximum element of array: 6
```

4. Sum the array elements and print the result.

```
#include<iostream>
using namespace std;
int main()
{
    int n,i,sum=0;
    cout<<"How many elements in Array:";
    cin>>n;
    int a[n];
    cout<<"Enter Elements:";
    for(i=0;i<n;i++)
    {
        cin>>a[i];
    }
    for(i=0;i<n;i++)
    {
        sum=sum+a[i];
    }
    cout<<"sum is:"<<" "<<sum;
    return 0;
}
```

:output



```
(kakashi@kali) - [~/Desktop]
$ ./a.out
How many elements in Array:4
Enter Elements:5 10 15 20
sum is: 50
```

5. Insert an element at the last position(consider that the array is not full and we can still insert an element in the array.

```
#include<iostream>
using namespace std;
int main()
{

int n,i;
cout<<"How many elements in Array:";
cin>>n;
int a[n];
cout<<"Enter Elements:";

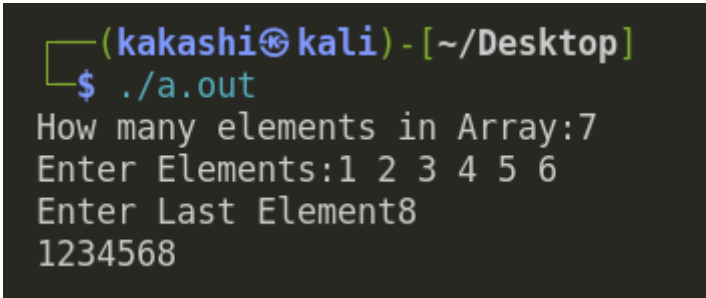
for(i=0;i<n-1;i++)
{
cin>>a[i];
}

cout<<"Enter Last Element";
cin>>a[n-1];

for(i=0;i<n;i++)
{
cout<<a[i]<<ends;
}

return 0;
}
```

:output



```
(kakashi@kali) - [~/Desktop]
$ ./a.out
How many elements in Array:7
Enter Elements:1 2 3 4 5 6
Enter Last Element8
1234568
```