

Day-38 of the #101days of coding challenge-----

//Original array: 4 1 5 9 12 9 22 45 7

//Next Greater Element:

//4: 5

//1: 5

//5: 9

//9: 12

//12: 22

//9: 22

//22: 45

//45: -1

//7: -1

Code:-

```
#include<iostream>
```

```
using namespace std;
```

```
int nextMostPowerFulElement(int *arr, int n)
```

```
{
```

```
    int i, j, tempArray;
```

```

for(i = 0; i<n; i++)
{
    tempArray = -1;
    for(j = i+1; j<n; j++){

        if(arr[i] < arr[j])
        {
            tempArray = arr[j];
            break;
        }
    }

    cout<<arr[i]<<"---"<<tempArray<<endl;
}

}

int main()
{
    int n;

    cout<<"Enter the size of the array"<<endl;

```

```
cin>>n;
```

```
int arr[n];
```

```
cout<<"Enter the elements"<<endl;
```

```
for(int i = 0; i<n; i++)
```

```
{
```

```
    cin>>arr[i];
```

```
}
```

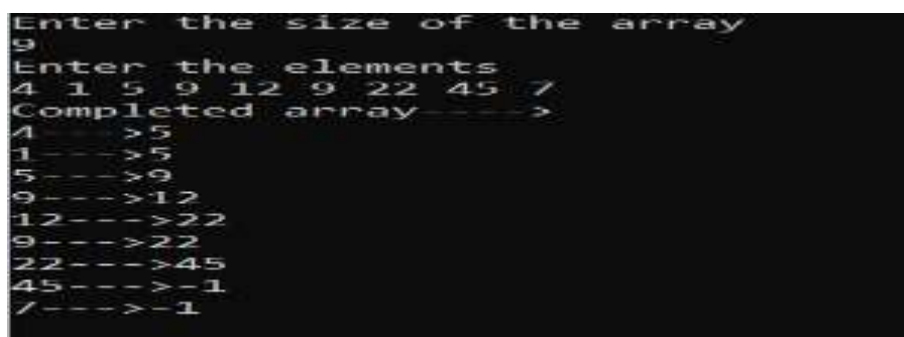
```
cout<<"Completed array---->"<<endl;
```

```
nextMostPowerFulElement(arr, n);
```

```
return 0;
```

```
}
```

Output:-



```
Enter the size of the array
9
Enter the elements
4 1 5 9 12 9 22 45 7
Completed array---->
4---->5
1---->5
5---->9
9---->12
12---->22
9---->22
22---->45
45---->-1
7---->-1
```