



# CODING BLOCKS

Code Your Way To Success

## Comparators

### Array **Run on IDE**

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

bool myCompare(int a,int b){

    return a>b;
}

int main() {

    int a[] = {5,4,3,1,2,6,7};
    int n = sizeof(a)/sizeof(int);

    sort(a,a+n,myCompare);
```

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

## Vector Run on IDE

```
#include <iostream>  
#include <vector>  
#include <algorithm>  
using namespace std;  
  
bool compare(int a,int b){  
    return a>b;  
}  
  
int main() {  
  
    vector<int> v;  
    v.reserve(100);  
  
    int n;  
    cin>>n;
```

```

for(int i=0;i<n;i++){
    int temp;
    cin>>temp;
    v.push_back(temp);
}
v.pop_back();

//v.clear();
cout<<v.capacity()<<endl;

sort(v.begin(),v.end(),compare);
//Print these
for(int i=0;i<v.size();i++){
    cout<<v[i]<<" ";
}

cout<<v.max_size()<<endl;


return 0;
}

```

## String Run on IDE

```

#include <iostream>
#include <vector>

```

```
#include <algorithm>

using namespace std;

bool compare(int a,int b){
    return a>b;
}

int main() {

    vector<int> v;
    v.reserve(100);

    int n;
    cin>>n;

    for(int i=0;i<n;i++){
        int temp;
        cin>>temp;
        v.push_back(temp);
    }
    v.pop_back();

    //v.clear();
    cout<<v.capacity()<<endl;

    sort(v.begin(),v.end(),compare);
    //Print these
    for(int i=0;i<v.size();i++){
```

```
        cout<<v[i]<<" ";  
    }
```

```
    cout<<v.max_size()<<endl;
```

```
    return 0;
```

```
}
```