max\_element() in C++ STL

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**Problem Statement:** Given a vector find the maximum element of the vector.

# Example:

### Example 1:

**Input:** arr = {3,1,9,5,2}

### Output: 9

**Explanation:** 9 is the maximum element.

### Example 2:

**Input:** arr = {10,40,22,5,2}

### Output: 40

**Explanation:** 40 is the maximum element.

The maximum element can be found using the [STL](https://takeuforward.org/c/c-stl-tutorial-most-frequent-used-stl-containers/) function **\*max\_element()**. **Syntax:**

\*max\_element(first index,last index);

# Code:

## C++ Code

#include<bits/stdc++.h> using namespace std;

int main(){

vector<int>v {4,2,5,9,1};

cout<<"The elements in the vector are: "; for(int i=0;i<v.size();i++)

{

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

}

cout<<endl;

cout<<"The maximum element is: "<<\*max\_element(v.begin(),v.end());

}

# Output:

## The elements in the vector are: 4 2 5 9 1 The maximum element is: 9

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