



give a pdf file with those added with the test case

I currently cannot generate PDF files directly here due to missing dependencies. However, I can provide you with the complete content suitable for a PDF, which you can easily copy and convert using any online or offline tool like Adobe Acrobat, Microsoft Word (save as PDF), or an online PDF generator.

Here is the full content including the C++ code snippets with demo inputs for each container type:

C++ STL Container Examples with Demo Input

Vector Example:

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

int main() {
    int n;
    cout << "Enter number of elements for vector: ";
    cin >> n;
    vector<int> v(n);
    cout << "Enter " << n << " elements for vector:\n";
    for (int i = 0; i < n; i++) {
        cin >> v[i];
    }
    cout << "Vector elements are: ";
    for (int x : v) cout << x << " ";
    cout << "\n";
    return 0;
}
```

Demo input:

```
5
10 20 30 40 50
```

Set Example:

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

int main() {
    int n;
    cout << "Enter number of elements for set: ";
    cin >> n;
    set<int> s;
    cout << "Enter " << n << " elements for set:\n";
    for (int i = 0; i < n; i++) {
        int x; cin >> x;
        s.insert(x);
    }
    cout << "Set elements (sorted and unique) are: ";
    for (int x : s) cout << x << " ";
    cout << "\n";
    return 0;
}
```

Demo input:

```
6
10 20 30 20 10 40
```

Map Example:

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

int main() {
    int n;
    cout << "Enter number of key-value pairs for map: ";
    cin >> n;
    map<int, string> m;
    cout << "Enter " << n << " key-value pairs (integer key and string value):\n";
    for (int i = 0; i < n; i++) {
        int key; string value;
        cin >> key >> value;
        m[key] = value;
    }
    cout << "Map elements are:\n";
    for (auto& pair : m) {
        cout << pair.first << " -> " << pair.second << "\n";
    }
    return 0;
}
```

Demo input:

```
3
1 apple
2 banana
3 orange
```

Priority Queue Example:

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

int main() {
    int n;
    cout << "Enter number of elements for priority queue: ";
    cin >> n;
    priority_queue<int> pq;
    cout << "Enter " << n << " elements for priority queue:\n";
    for (int i = 0; i < n; i++) {
        int x; cin >> x;
        pq.push(x);
    }
    cout << "Priority queue elements (from top to bottom): ";
    while (!pq.empty()) {
        cout << pq.top() << " ";
        pq.pop();
    }
    cout << "\n";
    return 0;
}
```

Demo input:

```
4
15 5 20 10
```

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