STANDARD TEMPLATE LIBRARY (STL)

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1. STL Container: Vector
#include <iostream>
#include <vector>
using namespace std;
int main() {
// create vector of int type
vector<int> numbers {1, 2, 3, 4, 5};
// print vector elements using ranged loop
for (int number : numbers) {
cout << number << " ";
return 0;
Output
12345
2.STL Iterators
#include <iostream>
#include <vector>
using namespace std;
int main() {
// initialize vector of int type
vector<int> numbers {1, 2, 3, 4, 5};
// initialize vector iterator to point to the first element
vector<int>::iterator itr = numbers.begin();
cout << "First Element: " << *itr << " "<<endl;
// change iterator to point to the last element
itr = numbers.end() - 1;
cout << "Last Element: " << *itr;</pre>
return 0;
Output
First Element: 1
Last Element: 5
3.STL Algorithm: Sorting
#include <iostream>
#include <algorithm>
#include <vector>
using namespace std;
int main() {
```

```
// initialize vector of int type
vector<int> numbers = {3, 2, 5, 1, 4}; //
sort vector elements in ascending order
sort(numbers.begin(), numbers.end()); //
print the sorted vector
for (int number : numbers) {
  cout << number << " ";
  }
  return 0;
}
Output
1 2 3 4 5</pre>
```