

Q-16

Due No due date Points 15 Questions 17 Time Limit 30 Minutes Allowed Attempts Unlimited

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	22 minutes	10.33 out of 15

ⓘ Correct answers are hidden.

Submitted Jul 20 at 7:52pm



Question 10.5 / 0.5 pts

Assuming that Star is a structure, the declaration: `vector<Star> stars(3);` creates three default initialized Star objects.

☒ True

☐ False

Question 20.5 / 0.5 pts

The declaration: `vector<string> v{"bill", "bob", "sally"};` creates a vector containing three string objects.

☒ True

☐ False

Question 31 / 1 pts

Assume `vector<double> speed(5);` Which line throws a *runtime error*?

☐ `speed.erase(speed.begin());`

☐ `speed[0] = speed.back();`

☐ `cout << speed[5];`

☐ `speed.front() = 12;`

☒ None of these

Question 41 / 1 pts

Which line of code can be added to print the value 4?

```
int main()
{
    struct S {int a, b; };
    vector<S> v;
    S s{3, 4};
    v.push_back(s);
    // Add code here
}
```

☐ `cout << v.b.at(0) << endl;`

☐ `cout << v.b << endl;`

☐ None of these

☒ `cout << v.at(0).b << endl;`

☐ `cout << v[0][0] << endl;`

IncorrectQuestion 50 / 1 pts

What is stored in data after this runs?

```
vector<int> data{1, 2, 3};
data.pop_back(0);
```

☐ [2, 3]

☒ [1, 2]

☐ [1, 2, 3, 0]

☐ None of these

☐ [1, 2, 3]

☐ []



Incorrect

Question 6

0 / 1 pts

What prints?

```
void f(const vector<int>& v)
{
    v.at(0) = 42;
}
int main()
{
    vector<int> x{1, 2, 3};
    f(x);
    cout << x.at(0) << endl;
}
```

☐ 1

☐ Nothing; compile-time error.

☒ 42

☐ Nothing; linker error

☐ Nothing; run-time error.

Incorrect

Question 7

0 / 1 pts

What prints?

```
vector<int> v{1, 2, 3, 4, 5};
v.pop_back();
cout << v.front() << endl;
```

☐ Nothing; compile-time error.

☐ 5

☐ Nothing; run-time error.

☐ 1

☒ 4

Question 8

1 / 1 pts

What is stored in data after this runs?

```
vector<int> data{1, 2, 3};
data.back();
```

☐ [1, 2, 3, 0]

☐ None of these

☐ [1, 2]

☐ []

☐ [2, 3]

☒ [1, 2, 3]

Incorrect

Question 9

0 / 1 pts

Which of these are true?

```
int main()
{
    vector<int> v{1, 2, 3};
    for (size_t i = v.size() - 1; i >= 0; i--)
        cout << v.at(i) << " ";
    cout << endl;
}
```

☐ Crashes when run

☐ Compiler error (does not compile)

☐ Issues a compiler warning, but no error

☐ Prints 3 2 1

☒ Endless loop (may crash, but not necessarily)

Partial

Question 10

0.33 / 1 pts

Which of these are true?

```
int main()
{
    vector<int> v{1, 2, 3};
    for (auto i = v.size() - 1; i >= 0; i--)
        cout << v[i] << " ";
    cout << endl;
}
```

☐ Compiler error (does not compile)

☐ Endless loop (will likely crash, but not necessarily)

☒ Crashes when run

☒ Issues a compiler warning, but no error

☒ Prints 3 2 1



Question 11

1 / 1 pts

To count the number of elements in a vector that match a particular value, use the STL function:

☐ find

☐ count_if

☒ count

☐ search

☐ minmax_element

Question 12

1 / 1 pts

Examine the following code. Which element is erased?

```
vector<int> v{1, 2, 3};
v.erase(end(v));
```

☒ Compiles but no element is erased

☐ 2

☐ Does not compile

☐ 3

☐ 1

Question 13

1 / 1 pts

Assuming the following variable definition, which statement creates an object which refers to a position immediately following the last element in **v** and which prohibits you from changing **v**?

```
vector<double> v{1.2, 2.3, 3.4};
```

☒ `auto d = cend(v);`

☐ `auto b = end(v);`

☐ None of these

☐ `auto c = cbegin(v);`

☐ `auto a = begin(v);`

Question 14

1 / 1 pts

Examine the following code. Which element is erased?

```
vector<int> v{1, 2, 3};
v.erase(begin(v) + 1);
```

☐ Does not compile

☐ Compiles but no element is erased

☒ 2

☐ 3

☐ 1

Question 151 / 1 pts

What is x?

```
vector<int> v{1, 2, 3};  
auto x = max_element(v.begin(), v.end());
```

☒ an iterator

☐ 1

☐ 3

☐ a std::pair object

☐ None of these

Question 160.5 / 0.5 pts

The statement `v.insert(v.end(), 3)` appends the element 3 to the end of the vector v.

☒ True

☐ False

Question 170.5 / 0.5 pts

Assume the vector v contains [1, 2, 3]. `v.erase(0);` is a syntax error.

☒ True

☐ False

