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

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	18 minutes	14.67 out of 15
LATEST	Attempt 4	13 minutes	12.33 out of 15
	Attempt 3	22 minutes	13 out of 15
	Attempt 2	18 minutes	14.67 out of 15
	Attempt 1	22 minutes	10.33 out of 15
LATEST	Attempt 4 Attempt 3 Attempt 2	13 minutes 22 minutes 18 minutes	12.33 out of 15 13 out of 15 14.67 out of 15

① Correct answers are hidden.

Submitted Jul 21 at 9:28am



Question 1	0.5 / 0.5 pts
The push_back member function adds elements to the end of a vector.	
True	
○ False	

Question 2	0.5 / 0.5 pts
Contiguous allocation means that the elements are stored next to each other in memory.	
True	
○ False	

Question 3	1 / 1 pts
What is stored in data after this runs?	
<pre>vector<int> data{1, 2, 3}; data.front();</int></pre>	
O [1, 2, 3, 0]	
[1, 2, 3]	
O None of these	
0 [2, 3]	
O [1, 2]	
O []	

```
The following code is logically correct. What is the semantically correct prototype for mystery()?

vector<double> v{1, 2, 3};
mystery(v);

Either mystery(const vector<int>&); or mystery(vector<int>&); could be correct.

void mystery(vector&);

void mystery(vector<int>&);

void mystery(vector<int>);

void mystery(const vector<int>&);

void mystery(const vector<int>&);
```

```
Question 5

Which lines have an identical effect?

int main()
{
    vector<int> v{1, 2, 3};
    auto size = v.size();
```

```
      Question 6
      1/1 pts

      What prints?
      vector<int> v{1, 2, 3, 4, 5}; cout << v.pop_back() << end1;</td>

      5
      1

      Nothing; run-time error.
      Nothing; compile-time error.

      9 Nothing; compile-time error.
      4
```

```
      Question 7
      1/1 pts

      What is stored in data after this runs?
      vector<int> data{1, 2, 3}; data.clear();

      O None of these
      [1, 2, 3]

      O [2, 3]
      [1, 2, 3, 0]

      O [1, 2]
      [1]
```

```
Question 9

Which of these are true?

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

```
Compiler error (does not compile)

Prints 3 2 1

Crashes when run

Endless loop (may crash, but not necessarily)

Issues a compiler warning, but no error
```

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

Prints 3 2 1

Issues a compiler warning, but no error
```

Incorrect Question 11 0 / 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 b = end(v);

auto d = cend(v);

None of these

auto c = cbegin(v);

auto a = begin(v);

```
Assuming the following variable definition, which statement creates an object which refers to the first element in v and which prohibits you from changing v?

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

auto d = cend(v);

None of these

auto a = begin(v);

auto b = end(v);

auto c = cbegin(v);
```

```
Assuming the following variable definition, which statement creates an object which refers to the first element in v and which prohibits you from changing v?

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

auto a = begin(v);

auto b = end(v);

auto c = cbegin(v);

auto d = cend(v);

None of these
```

Question 15	1 / 1 pts
Examine the following code. Which element is erased?	
<pre>vector<int> v{1, 2, 3}; v.erase(begin(v), end(v));</int></pre>	
All the elements are erased	
O 1	
O 3	
O Does not compile	
O 2	

Question 16	0.5 / 0.5 pts
Assume the vector v contains [1, 2, 3]. v.erase(v.begin()); changes v to [2, 3].	
True	
○ False	

Question 17	0.5 / 0.5 pts
The statement v.insert(v.end(), 3) appends the element 3 to the end of the vector v.	
True	
○ False	

