Due No due date Points 25 Questions 25 Time Limit 30 Minutes Allowed Attempts Unlimited

Take the Quiz Again

## Attempt History

	Attempt	Time	Score
KEPT	Attempt 4	21 minutes	23 out of 25
LATEST	Attempt 5	30 minutes	17 out of 25
	Attempt 4	21 minutes	23 out of 25
	Attempt 3	26 minutes	19.89 out of 25
	Attempt 2	30 minutes	22.5 out of 25
	Attempt 1	27 minutes	21 out of 25

(!) Correct answers are hidden.

Submitted Jul 12 at 4:17pm



```
Question 1

The standard library version of stoi("UB-40") throws a runtime exception because there is no viable conversion.

True

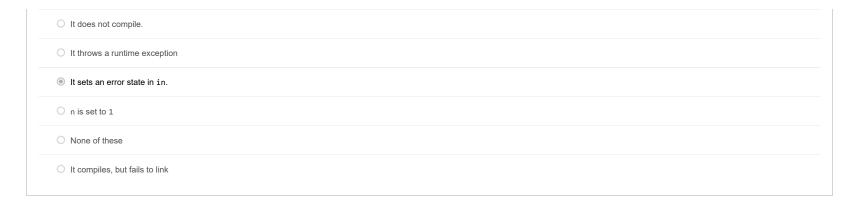
False
```

```
Incorrect Question 3
                                                                                                                              0 / 1 pts
         What is true about this code?
            template <typename T, typename U>
            T pickle(T& a, const U& b) {
                  a += b;
                  return b;
            int main()
                  auto x = 42.5;
                  auto y = pickle(x, 5);
                  cout << x << endl;</pre>
                  cout << y << endl;</pre>
            In main, x prints 47
            ■ No answer text provided.
            In main, y prints 5
            ☐ In main, x prints 47.5
            ☐ In main, y prints 47.5
```

```
Question 4

What happens when this code fragment runs in C++ 11?

istringstream in("one");
int n;
in >> n;
```



Question 5	1 / 1 pts
In the <i>flag-controlled-pattern</i> , you use Boolean variable to signal when the sentinel is found.	
True	
○ False	

Question 6	1 / 1 pts
<pre>Which of the following loop patterns are used here?  string s{"hello CS 150"}; for (auto e : s) {     if (toupper(e))        out.put('x'); }</pre>	
O data loop	
O inline test	
O limit loop	
O loop-and-a-half	
O counter-controlled loop	
iterator or range loop	
O sentinel loop	
O primed loop	

```
Question 7

Functions with generic parameters may use the keyword class or the keyword typename for their type parameters.

True

False
```

```
1 / 1 pts
Question 8
What prints?
string s("hello");
   if (s.size() > 2) throw 42;
   if (islower(s.back())) throw "goodbye";
    if (s == "hello") throw string("hello");
    s.at(s.size()) = 'x';
    cout << "one\n";</pre>
}
catch (const int& e) { cout << "two\n"; }</pre>
catch (const string& e) { cout << "three\n"; }</pre>
catch (exception& e) { cout << "four\n"; }</pre>
catch (...) { cout << "five\n"; }</pre>
   O five
   O three

    Undefined

   O one
   O four
   two
```



```
      Question 9

      Assume s1 and s2 are C++ string objects. Which of these calls is illegal?

      template <typename T>

      void addem(T a, T b)

      {

      Cout << a << " + " << b << "->"

      (a + b) << endl;</td>

      }

      addem(4.5, 5.5);

      O addem(s1, s2);

      O None of these

      (a) addem(1.5, 2);

      (a) addem(3, 4)
```

```
Question 10

Which of these is the correct syntax for a lambda which returns true if a number is evenly divisible by 4?

[](int e) { return e % 4; }

None of these

[](int n) { return n % 4 == 0; }

[int n] { return n % 4 == 0; }

[](int e) { return e % 4 == 4; }
```

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

| o cout << speed[speed.size()];
| speed[0] = speed.back()
| speed.erase(speed.begin());
| None of these
| speed.front() = 12;

The standard library types such as string and vector are *scalar* data types.

True

False

Question 13

Examine the following code. Which element is erased?

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

Does not compile

Compiles but no element is erased

3

2

1

Question 14

Which defines a vector to store the salaries of ten employees?

O vector<double> salaries[10];

```
The clear() member function removes all the elements from a vector.

True

False
```

```
Which of these are true?

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

    □ Endless loop (may crash, but not necessarily)

    □ Compiler error (does not compile)

    □ Issues a compiler warning, but no error

    □ Crashes when run

    □ Prints 3 2 1
```

```
Question 17
                                                                                                                                       1 / 1 pts
Which line prints 3?
int main()
   vector<int> v{1, 2, 3};
    auto size = v.size();
                               // 1.
   cout << v.back() << endl;</pre>
   cout << v.front() << endl; // 2.
                                  // 3.
   cout << v.at(0) << endl;
   cout << v.at(size) << endl; // 4.</pre>
    cout << v.pop_back() << endl; // 5.</pre>
}
   O 2
   0 4
   O 5
   0 1
   О 3
```



O False

The *static\_cast* instruction changes way that a pointer's indirect value is interpreted.

True

