Due No due date Points 25 Questions

Questions 25 Time Limit 30 Minutes

Allowed Attempts Unlimited

Take the Quiz Again

## Attempt History

	Attempt	Time	Score
KEPT	Attempt 16	30 minutes	24 out of 25
LATEST	Attempt 20	30 minutes	19 out of 25
	Attempt 19	20 minutes	23 out of 25
	Attempt 18	30 minutes	21 out of 25
	Attempt 17	30 minutes	23.5 out of 25
	Attempt 16	30 minutes	24 out of 25
	Attempt 15	30 minutes	21 out of 25
	Attempt 14	30 minutes	23 out of 25
	Attempt 13	24 minutes	22 out of 25
	Attempt 12	16 minutes	24 out of 25
	Attempt 11	17 minutes	19 out of 25
	Attempt 10	17 minutes	22 out of 25
	Attempt 9	20 minutes	20 out of 25
	Attempt 8	21 minutes	20 out of 25
	Attempt 7	25 minutes	21.5 out of 25
	Attempt 6	25 minutes	21 out of 25
	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

① Correct answers are hidden.

Submitted Jul 19 at 12:33pm

```
1 / 1 pts
Question 1
Which of the following loop patterns are used here?
string s{"Hello CS 150"};
while (s.size())
    if (s.at(0) == 'C') break;
    s = s.substr(1);
cout << s << endl;</pre>
   iterator or range loop
   ☐ limit loop
   loop-and-a-half
   ☐ primed loop
   sentinel loop
   counter-controlled loop
   ☐ data loop
   ☐ inline test
```

```
Question 2

Functions with generic (or type) parameters are known as template functions.

True

False
```

```
Question 3

Which of the following loop patterns are used here?

size_t pos = 0;
char ch;
in.get(ch);
while (ch != 'Q')
{
    pos++;
    in.get(ch);
```

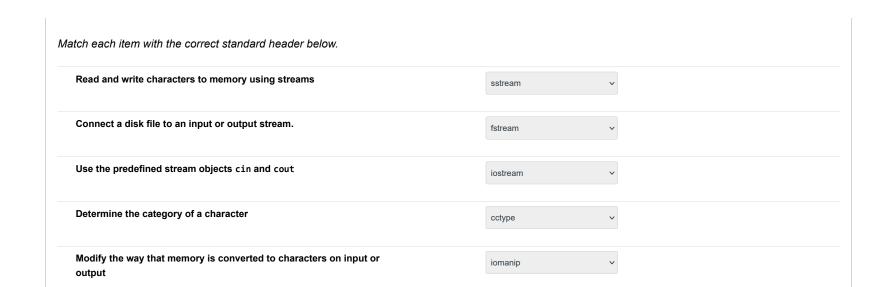
Incorrect Question 4

```
What prints?
string s("hello");
try {
   if (s.size() > 20) throw 42;
   if (isupper(s.back())) throw "goodbye";
    if (s == "Hello") throw string("hello");
    s[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>
   Undefined
   O three
   O five
   O four
   O two
   \bigcirc \  \, \mathsf{one}
```

Question 5	1 / 1 pts
What happens when you execute the following (erroneous) code:	
cout << stoi(42.5) << endl;	
No conversion takes place and the output stream is placed in a failed state.	
The double 42.5 is truncated to 42 and printed	
An exception is thrown, which may be caught	
The code does not compile because the argument is the wrong type.	
The program prints an error message and terminates since you cannot convert a double to an int	

Question 6	1 / 1 pts
Which line fails to work correctly?	
<pre>template <typename t=""> void print(const T&amp; item) {     cout &lt;&lt; item &lt;&lt; endl; }</typename></pre>	
None of these	
<pre>O print(3 + 2.2);</pre>	
O print("hello");	
<pre>O print(2 + 2);</pre>	
<pre>O print(string("goodbye"));</pre>	

Question 7 1/1 pts



```
What is true about this piece of code?

template <typename T, typename U>
T pickle(T& a, const U& b) {
    a += b;
    return b;
}
int main() {
    int x = 42;
    auto a = pickle(x, 4.5);
    cout << a << endl;
    cout << x << endl;
}

This code has a syntax error:

In main, x prints 46.5

In main, x prints 45.5

In main, x prints 45.5
```

Question 9	1	I / 1 pts
A(n)	is a statement about a condition which <b>must be true</b> when it is encountered in your code.	
exception		
opostcondition		
precondition		
assertion		

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

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

auto a = begin(v);

auto d = cend(v);

None of these

auto b = end(v);

auto c = cbegin(v);
```

Question 11	1 / 1 pts
To count the number of elements in a vector that match a particular condition, use the STL function:	
○ find	



```
© count_if

    count

    minmax_element
    search
```

```
Assuming the following variable definition, which statement creates an object which refers to a position immediately following the last element in v and which allows you to change the elements in v?

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

auto c = cbegin(v);

auto d = cend(v);

None of these

auto b = end(v);
```

Incorrect Question 13

Assume vector<int> v; Writing cout << v.front(); throws a runtime exception.

True

False

When passing a structure variable to a function, use *non-const reference* if the intent is to modify the actual argument.

True

False

User-defined scalar types are created with the enum class keywords in C++.

True

False

Incorrect Question 16

Incorrect Question 17

1 / 1 pts

Question 19	1 / 1 pts
Which line has <i>undefined</i> output?	
<pre>double speed[5] = {};</pre>	
<pre>© cout &lt;&lt; speed[5] &lt;&lt; endl;</pre>	
<pre>O cout &lt;&lt; speed[1] &lt;&lt; endl;</pre>	
<pre>O cout &lt;&lt; speed[0] &lt;&lt; endl;</pre>	
<pre>O cout &lt;&lt; speed[4] &lt;&lt; endl;</pre>	
O None of these	

Question 20	1 / 1 pts
C++ arrays have no support for bound-checking.	
True	
○ False	

Question 22	1 / 1 pts
Which area of memory are global variables stored in?	
○ Stack	



Incorrect Question 23

Question 24	1 / 1 pts
C++ arrays can be allocated with a size of <b>0</b> .	
○ True	
False	

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