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

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Attempt History

	Attempt	Time	Score
KEPT	Attempt 4	21 minutes	23 out of 25
LATEST	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.

bmitted Jul 13 at 3:29am



What preprocessor directive *is not used* when you wish to create blocks of code that are only compiled under certain circumstances?

O #If def

#if def

#if not used when you wish to create blocks of code that are only compiled under certain circumstances?

A loop that reads data until some special value is found is called a sentinel loop.

True

False

What happens when you execute the following (erroneous) code:

istreamstring in("one");
int n;
int n;
in >> n;

The stream is put into a failed state, so the program terminates

The program prints an error message, but continues running

The program prints an error message and unconditionally terminates

The stream is put into a failed state, but the program continues running

The code will not compile, since "one" is not convertible to an int.

Question 5	1 / 1 pts
After writing data to an ostringstream object named os, you can retrieve the string it contains by using:	
O to string(os)	



O os.to_string()			
<pre>O static_cast<string>(os);</string></pre>			
os.str()			
O None of these			

Question 6	1 / 1 pts
In the <i>loop-and-a-half pattern</i> , you read data before the loop and at the end of the loop.	
○ True	
False	

Question 7	1 / 1 pts
Which of the following loop patterns are used here?	
<pre>int upper = 0; char ch; while (in.get(ch)) { if (ch >= 'A' && ch <= 'Z') upper++; }</pre>	
□ counter-controlled loop	
□ primed loop	
☐ limit loop	
☐ iterator or range loop	
□ sentinel loop	
☑ data loop	
□ loop-and-a-half	
☑ inline test	

Question 8	1 / 1 pts
Variables tested with the #if preprocessor directive are created using #define.	
True	
○ False	

```
Question 9

Which line fails to work correctly?

template <typename T>
    void print(const T& item)
{
        cout << item << endl;
}

        print(string("goodbye"));

        print("hello");

        print(2 + 2);

        None of these

        print(3 + 2.2);
</pre>
```

```
The declaration: vector<int> v; creates a vector object with no elements.

True

False
```

Incorrect Question 11 Question 11

```
Which line will not compile?
int main()
{
   vector<int> v{1, 2, 3};
   auto size = v.size();
   cout << v.back() << endl;</pre>
                                // 1.
   cout << v.front() << endl; // 2.
   cout << v.at(0) << endl; // 3.
   cout << v.at(size) << endl; // 4.</pre>
   cout << v.pop_back() << endl; // 5.</pre>
}
   O 2
   1
   O 5
   O 3
```

A vector subscript represents the element's counting position. True False

Question 13	1 / 1 pts
The declaration: vector <int> v(10); creates a vector object containing ten elements initialized to 0.</int>	
True	
○ False	

Question 14	1 / 1 pts
Examine the following code. Which element is erased?	
<pre>vector<int> v{1, 2, 3}; v.erase(begin(v) + 1);</int></pre>	
O 3	
O Does not compile	
O Compiles but no element is erased	
② 2	
O 1	

Question 15	1 / 1 pts
When using the STL function count_if, the third argument is:	
○ cbegin(v)	
O the value to count	
a predicate function	
○ cend(v)	
O None of these	

Question 16	1 / 1 pts
The declaration: vector <string> v(5); creates a vector containing five empty string objects.</string>	
True	
O False	

Question 18	1 / 1 pts
Which of these lines correctly prints 2.5?	
<pre>struct S { int a = 3; double b = 2.5; };</pre>	
S obj, *p = &obj	
<pre>O cout << *(p.b) << endl;</pre>	
O cout << *p->b << endl;	
O cout << *p.b << endl;	
O cout << *(p).b << endl;	
<pre>© cout << p->b << endl;</pre>	

Question 19	1 / 1 pts
The subscripts of a C++ array range from θ to the allocated array size -1 .	
True	
○ False	

Question 20	1 / 1 pts
The elements of a C++ array created in a function are allocated on the stack.	
True	
○ False	

Question 21	1 / 1 pts
What is the address of the first pixel in the last row of this image?	
Pixel *p; // address of pixel data int w, h; // width and height of image	
O p + w + (h - 1)	
<pre> p + w * (h - 1) </pre>	
○ p + w + h	
O p + w * h	
O None of these are correct	

```
A forward reference can be used when you want to use a pointer to a structure as a data member without first defining the entire structure.

True

False
```

O / 1 pts

If p is a pointer to a structure, and the structure contains a data member x, you can access the data member by using the notation: *p.x

	True	
	○ False	
Incorrect	Question 24	0 / 1 pts
	In C++ initializing an array with the contents of another is permitted.	
	True	
	○ False	
Incorrect	Question 25	0 / 1 pts
	If size_t len = 0; then len - 1 is the smallest possible unsigned number.	
	True	
	○ False	