Midterm 3 Study Guide

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 30	23 minutes	25 out of 25
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	Attempt 26	16 minutes	25 out of 25
	Attempt 25	18 minutes	24 out of 25
	Attempt 24	15 minutes	25 out of 25
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	Attempt 19	20 minutes	23 out of 25
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	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 20 at 6:21pm

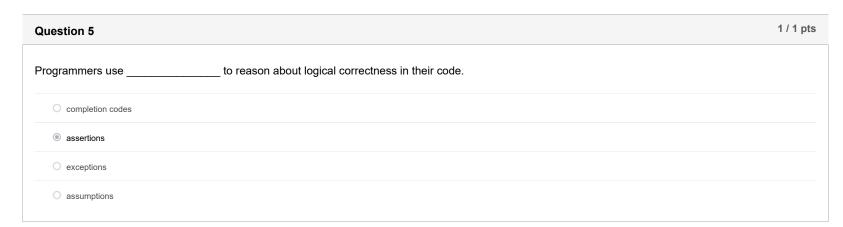


Question 2	1 / 1 pts
Assume that you have the following code:	
<pre>istreamstring in("one"); int n;</pre>	
Which of these (erroneous) statements cause the program to terminate?	
□ (in >> n;	
<pre> assert(2 + 2 == 5); </pre>	
□ cout << sqrt(-1);	
<pre>cout << stoi("one");</pre>	

Question 3 1/1 pts

What happens with the following section of code?
<pre>if (APPLE) cout << "Running on a Mac" << endl; else if (WIN32) cout << "Running on Windows" << endl; else if (_linux) cout << "Running on Linux" << endl; else cout << "Running on an unknown platform" << endl;</pre>
The program will crash if compiled on one platform, but run on another.
Only the lines that identify your platform will be included in the executable
All lines will be included in the program. It will print the platform you are running on.
The program will not compile

Question 4	1 / 1 pts
Variables tested with the #if preprocessor directive are created using #define.	
True	
○ False	



Question 6	1 / 1 pts
A loop that reads data until some special value is found is called a data loop.	
○ True	
False	

Question 8

In the *loop-and-a-half*, you use a break statement to exit the loop when the sentinel is found.



Which statement is false? The elements in a vector:	
None of these	
O are accessed by name	
are stored next to each other in memory	
O are homogeneous	
O are all of the same type	
Question 16	1 / 1 pts
To count the number of elements in a vector that match a particular value, use the STL function:	
O count_if	
○ find	

•)

○ search

count

O minmax_element

Question 17	1 / 1 pts
Examine the following code (which is legal). What changes are necessary to allow the statement if (m1 != m2) to compile?	
<pre>struct Money { int dollars{0}, cents{0}; } m1, m2;</pre>	
<pre>bool equals(const Money& lhs, const Money& rhs) { return lhs.cents == rhs.cents && lhs.dollars == rhs.dollars; }</pre>	
O This is not possible in C++.	
O The name of equals() must be changed to operator==	
You must write a function named operator!=	
The function equals() must be named notEquals().	
The type Money needs to be a class	

Question 18	1 / 1 pts
What is a common pointer error?	
O Dereferencing a pointer	
Assigning a new value to a pointer	
O Using indirection on a pointer	
O Setting a pointer value to nullptr	
Using a pointer without first initializing it	

Question 19	1 / 1 pts
The elements of a C++ <i>string</i> array with no explicit initialization, created in a function will be set to <i>null</i> .	
○ True	
False	

```
These pointers should point to "nothing". Which is not correctly initialized?

vector<int> *vp(0);

All are correctly initialized to point to nothing.

int *pi = nullptr;
```



Question 21	1 / 1 pts
The subscripts of a C++ array range from θ to the allocated array size -1 .	
○ False	

Question 22	1 / 1 pts
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	

Question 23	1 / 1 pts
What prints?	
<pre>int a[] = {1, 3, 5, 7, 9}; int *p = a; cout << *p++; cout << *p << endl;</pre>	
O 22	
O 12	
O 33	
O None of these	
13	

Question 24	1 / 1 pts
Examine the following code. What is stored in a after it runs.	
<pre>int f(int * p, int x) { *p = x * 2; return x / 2; } int a = 3, b, c; c = f(&b, a);</pre>	
O 2	
O 1	
O 6	
O Does not compile	
③ 3	

Question 25	1 / 1 pts
If img is a pointer to the first byte in an image loaded into memory, Pixel is a structure, you can create a Pixel pointer pointing to the image by writi Pixel *p = static_cast <pixel *="">(img);</pixel>	ng:
O True	
False	

