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 4	21 minutes	23 out of 25
LATEST	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

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		Attempt 1	30 minutes 27 minutes	22.5 out of 25 21 out of 25
		Attempt 1	27 minutes	21 001 01 20
① Correct answers ar	o hiddon			
Submitted Jul 12 at 9:35				
	•			
Incorrect	Question 1			0 / 1 pts
	To use strings as	s a data stream source or sink, use the <string:< th=""><th>strooms header</th><th></th></string:<>	strooms header	
	to use stilligs as	s a data stream source of silk, use the CSCFING:	Stream Theater	
	True			
	O False			
	Taise			
ı				
	Question 2			1 / 1 pts
	Question 2			r
	Variables tested	with the #if preprocessor directive are created	using #define.	
	True			
	O False			
	Question 3			1 / 1 pts
	The bending of			
	The heading of a	a try block can contain ellipses in place of a par	ameter.	
	O True			
	False			
	o i alse			
ı				
	Question 4			1 / 1 pts
	Quootion 4			·
	In the <i>primed lo</i>	oop pattern, you read data before the loop and a	t the end of the loop.	
	True			
	O False			
	Question 5			1 / 1 pts
	A specialized en	ror handling block of code, is called a catch bloc	Sk.	
	True			
	0.51			
	O False			
l				
	Question 6			1 / 1 pts
	QUESTION 0			, pto
	The predefined of	constantcpluplus indicates which version of	the C++ standard is being used.	
	True			
	O False			

Question 6	1 / 1 pts
The predefined constantcpluplus indicates which version of the C++ standard is being used.	
True	
○ False	

1 / 1 pts Question 7

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L	_	

```
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);
}

    | initine test
    | limit loop
    | data loop
    | iterator or range loop
    | loop-and-a-half
    | senthel loop
    | counter-controlled loop
    | primed loop
```

Question 8	1 / 1 pts
Which of the following loop patterns are used here?	
<pre>string s{"Hello CS 150"}; while (s.size()) { if (s.at(0) == 'C') break; s = s.substr(1); } cout << s << endl;</pre>	
✓ sentinel loop	
☑ loop-and-a-half	
☐ inline test	
☐ limit loop	
□ primed loop	
☐ iterator or range loop	
☐ data loop	
☑ counter-controlled loop	

```
What happens when you execute the (erroneous) line:

assert(2 + 2 == 5);

The program prints an error message and terminates

An exception is thrown, which may be caught.

Since this is impossible, the code will not compile.

Nothing happens. The statement is not true, so it is skipped

The program prints an error message and continues running
```

```
Question 10

1/1 pts
```

```
What is the correct prototype for the input operator?
enum class Suit
{
    HEARTS, SPADES, CLUBS, DIAMONDS
};

    istream& operator<<(istream& in, Suit& suit);

    istream& operator>>(istream& in, Suit& suit);

    istream& operator>>(istream& in, const Suit& suit);

    istream& operator>>(istream& in, Suit& suit);

    istream& operator>>(istream& in, Suit& suit);
```

Incorrect	Question 11	0 / 1 pts
	Structure variables should be passed to functions <i>by value</i> .	
	True	
	O False	

O / 1 pts

The push_back member function adds elements to the end of a vector expanding the vector's capacity if needed.

True

False

Assume that v contains [1, 2, 3]. The result of writing cout << v[4]; is a compiler error.

True

False



Question 16	1 / 1 pts
Given the following structure and variable definitions, which data members are <i>default initialized</i> ?	
struct Employee	
<pre>{ long empID;</pre>	
std::string lastName;	
double salary;	
<pre>int age; };</pre>	
Employee bob{777, "Zimmerman", 5000000.0, 76}; None of these	
Oage	
O empID	
○ lastName	
O calany	

Question 17		1 / 1 pts
Match each item with the correct statement below.		
Points to the first element in v	v.begin()	
Creates the empty vector []	vector <int> v;</int>	
Safely returns a reference to the fourth element in v	v.at(3);	
Removes the last element in v	v.pop_back()	

Question 18	1 / 1 pts
Explicitly initializing an array like this: $int \ a[3] = \{1, 2, 3\}$; requires the size and the number of elements supplied to be the same.	
O True	
False	

Question 19	1 / 1 pts
In C++ using == to compare one array to another is permitted (if meaningless).	
True	
○ False	

```
Question 20

The value for the variable b is stored:

int a = 1;
void f(int b)
{
  int c = 3;
  static int d = 4;
}

  The example does not provide enough information
  in the CPU machine registers
  on the stack
  on the stack
  in the static storage area
```

Question 21

The size of the array is not stored along with its elements.

True			
O False			

Question 22	1 / 1 pts
In C++, global variables are stored:	
in the static storage area	
O on the stack	
O on the heap	
O in CPU registers	
O on your hard disk	

Question 23	1 / 1 pts
Assume that <i>ppi</i> correctly points to <i>pi</i> . Which line prints the address of <i>ppi</i> ?	
<pre>int main() { double pi = 3.14159; double *ppi; // code goes here // code goes here }</pre>	
O cout << π O None of these	
O cout << ppi;	
© cout << *ppi;	

Question 24	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 writin Pixel *p = reinterpret_cast <pixel *="">(img);</pixel>	ng:
○ False	

Question 25	1 / 1 pts
How can we print the address where n is located in memory?	
int n{500};	
O cout << n& << endl;	
O cout << *(&n) << endl;	
O cout << n << endl;	
O cout << *n << endl;	
⊚ cout << &n << endl;	

