Midterm 3 Study Guide

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 28	22 minutes	25 out of 25
LATEST	Attempt 29	23 minutes	24 out of 25
	Attempt 28	22 minutes	25 out of 25
	Attempt 27	20 minutes	20 out of 25
	Attempt 26	16 minutes	25 out of 25
	Attempt 25	18 minutes	24 out of 25
	Attempt 24	15 minutes	25 out of 25
	Attempt 23	21 minutes	24 out of 25
	Attempt 22	24 minutes	24 out of 25
	Attempt 21	18 minutes	24 out of 25
	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 20 at 2:45pm

Question 1	1 / 1 pts
Which of the following loop patterns are used here?	
<pre>auto len = str.size(); while (len) out << str.at(len);</pre>	
O iterator or range loop	
O data loop	
O primed loop	
O inline test	
counter-controlled loop	
O loop-and-a-half	
O limit loop	
○ sentinel loop	

Question 2	1 / 1 pts
A loop that reads data until the input stream signals that it is done is called a data loop.	
True	
○ False	

Question 3	1 / 1 pts
In the <i>flag-controlled-pattern</i> , you read data before the loop and at the end of the loop.	

False	
Question 4	
Which of the following blocks is designed to catch any type of exception?	
O catch(){ }	
O catch(exception){ }	
<pre> catch(){ }</pre>	
O catch(*){ }	
Question 5	
Function templates with generic parameters may use the keyword class or the keyword struct for their type parameters.	
True	
○ False	
Question 6	
Question 6	
A(n) is an occurrence of an undesirable situation that can be detected during program execution.	
O crash	
exception	
O bug	
O misfire	
Question 7	
What is correct for # 4?	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } 2 (3</pre>	
<pre>{ string s = "hello"; cout << s.at(5) << endl; } cout << e. 4 () << endl; }</pre>	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } 2 (</pre>	
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<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } cout << e. 4 () << endl; } exception& try catch</pre>	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } cout << e. 4 () << endl; } exception& try catch what</pre>	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } cout << e. 4 () << endl; } exception8 try catch what if</pre>	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } cout << e. ② () << endl; } exception& try catch what if None of these</pre>	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } cout << e. ② () << endl; } exception& try catch what if None of these</pre>	
<pre>What is correct for # 4? int main() {</pre>	
<pre>What is correct for # 4? int main() { string s = "hello"; cout << s.at(5) << endl; } exception8 try catch what if None of these while Question 8</pre>	

Question 9

1/1 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 = 42.0;
    auto y = pickle(x, 4.5);
    cout << x << endl;
    cout << y << endl;
}

This code does not compile.

In main, x prints 46

In main, x prints 46.5

In main, x prints 4.5</pre>
```

Question 10	1 / 1 pts
The following is an <i>anonymous structure</i> .	
<pre>struct {int hours, seconds; } MIDNIGHT{0, 0};</pre>	
True	
○ False	

Question 11	1 / 1 pts
An unnamed (anonymous) function is called a(n):	
O functor	
○ iterator	
⊚ lambda	
O stub	
O None of these	

```
A vector represents a linear heterogeneous collection of data.

O True

False
```

```
The statement v.insert(v.begin(), 3) inserts the element 3 into the vector v, shifting the existing elements to the right.

True
```

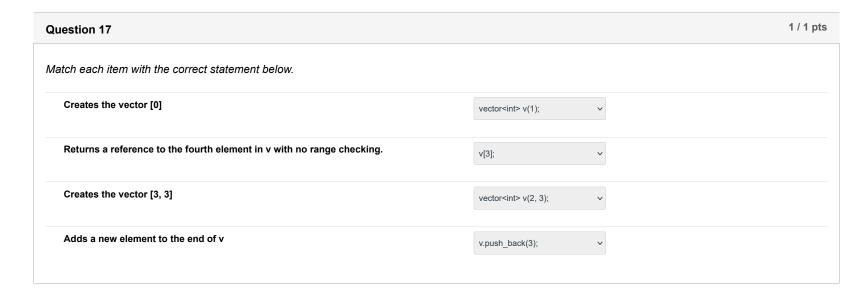


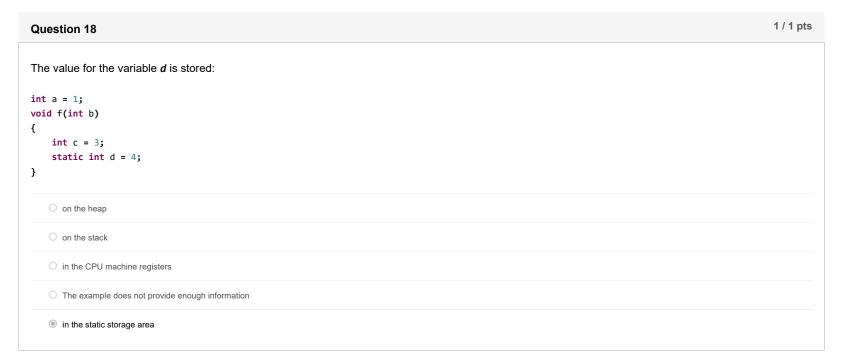
O True

False

○ False	
Question 15	1 / 1 pt

Question 16	1 / 1 pts
The declaration: vector <int> $v = new \ vector<>()$; creates a vector object with no elements.</int>	
○ True	
False	





```
An incomplete type and a forward reference generally mean the same thing.

True

False
```

```
Question 20

The value for the variable a is stored:

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

O in the CPU machine registers

O on the stack
```



O on the heap		
in the static storage area		
The example does not provide enough information		

Question 21	1 / 1 pts
Assume that p is a pointer to the first of 50 contiguous integers stored in memory. What is the address of the first integer appearing after this sequence integers?	e of
O &p + 50;	
O None of these	
O sizeof(p) + 50;	
O p + sizeof(int) * 50;	

Question 22	1 / 1 pts
Examine this version of the <i>swap()</i> function. How do you call it?	
<pre>void swap(int * x, int & y) { }</pre>	
int a = 3, b = 7; // What goes here ?	
O swap(a, b);	
O swap(a, &b);	
O None of these	
○ swap(&a, &b);	

Question 23	1 / 1 pts
The size of the array is stored along with its elements.	
O True	
False	

Question 24	1 / 1 pts
The value for the variable c is stored:	
<pre>int a = 1; void f(int b) { int c = 3; static int d = 4; }</pre>	
on the stack	
The example does not provide enough information	
O in the CPU machine registers	
in the static storage area	
O on the heap	

Question 25			1 / 1 pts
Match each item with the correct term below.			
Expression using the address operator	p = &a	v	
Expression using the dereferencing operator	y = *a;	V	

Expression returning the number of allocated bytes used by an object	sizeof(Star)	v
Address value 0	nullptr	~