## Midterm 3 Study Guide

Points 25

Questions 25

Time Limit 30 Minutes

Allowed Attempts Unlimited

Take the Quiz Again

## Attempt History

Due No due date

	Attempt	Time	Score
KEPT	Attempt 30	23 minutes	25 out of 25
LATEST	Attempt 32	24 minutes	23 out of 25
	Attempt 31	29 minutes	24 out of 25
	Attempt 30	23 minutes	25 out of 25
	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 5:54pm

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;
}

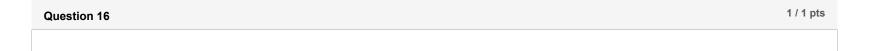
In main, x prints 40
In main, a prints 4

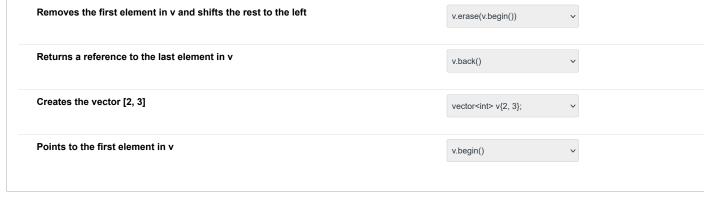
Question 2 1/1 pts



O catch (exception) { }

O catch(){ }	
<pre>     catch(){ } </pre>	
O catch(*){ }	
Question 9	1 / 1 pts
A completion code is a special return value that means "the function failed to execute correctly."	
True	
○ False	
Question 10	1 / 1 pts
The declaration: vector <string> v(5); creates a vector containing five empty string objects.</string>	
True	
O False	
Question 11	1 / 1 pts
Assume the vector v contains [1, 2, 3]. v.erase(0); is a syntax error.	
<ul><li>True</li></ul>	
O False	
Question 12	0 / 1 pts
	·
The C++ specific term for classes like vector are generic classes.	
True	
○ False	
	1 / 1 pts
Question 13	1/1 pts
Each element in a vector may be of a different type.	
O True	
False	
	1 / 1 pts
Question 14	17 1 pts
In the declaration: vector <int> v; the word vector represents the object's <b>base type</b>.</int>	
○ True	
False	
	1 / 1 pts
Question 15	17 1 pts
An unnamed (anonymous) function is called a(n):	
O functor	
⊚ lambda	
O None of these	
O iterator	
O stub	





Match each item with the correct statement below.

Question 17	1 / 1 pts
Assume vector <double> v; Writing cout &lt;&lt; v.back(); throws a runtime exception.</double>	
O True	
False	

Question 18	1 / 1 pts
All of these are legal C++ statements; which of them uses the C++ dereferencing operator?	
int a = 3, b = 4;	
None of these use the dereferencing operator.	
<pre>   int x = *p; </pre>	
O z *= a;	
○ int y = a * b;	
○ int *p = &b	

Question 19	1 / 1 pts
The variable <b>buf</b> is a pointer to a region of memory storing contiguous <b>int</b> values. (This is similar to your homework, where you had a region of mer storing <b>unsigned char</b> values.) The four lines shown here are legal. <b>Which operation is legal</b> ?	nory
<pre>int *p1 = buf; const int *p2 = buf; int * const p3 = buf; const int * p4 const = buf;</pre>	
<pre>   *p3 = 5;</pre>	
O p3++;	
O *p4 = 7;	
O p4++;	
○ *p2 = 3;	

Question 20	1 / 1 pts
In C++ assigning one array to another is permitted.	
O True	
False	

Question 21	1 / 1 pts
Which expression returns the number of countries?	
<pre>string countries[] = {"Andorra", "Albania", };</pre>	
<pre>     sizeof(countries) / sizeof(countries[0])</pre>	
O len(countries)	
O None of these	
<pre>O sizeof(countries) * sizeof(countries[0])</pre>	



What is the term used to describe a variable which stores a memory address?

O Ivalue
O None of these
O pointer
O rvalue
O reference

