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 26	16 minutes	25 out of 25
LATEST	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 1:55pm

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

Question 2	1 / 1 pts
In the <i>primed loop pattern</i> , you read data before the loop and at the end of the loop.	
True	
○ False	

Question 3	1 / 1 pts
A function template may be defined in a header file.	
● True	
○ False	

orrect	Question 4	0 / 1 pts
	What is true about this code?	
	what is true about this code?	

True

O False

```
template <typename T, typename U>
T pickle(T& a, const U& b) {
          a += b;
          return b;
   }
   int main()
          auto x = 42.5;
auto y = pickle(x, 5);
          cout << x << endl;</pre>
          cout << y << endl;</pre>
   ☐ In main, x prints 47
   In main, x prints 47.5
   ☐ In main, y prints 5
   ■ No answer text provided.
   In main, y prints 47.5
                                                                                                                                                   1 / 1 pts
Question 5
The #if preprocessor directive may compare double literals but not variables.
   O True
   False
                                                                                                                                                   1 / 1 pts
Question 6
The directives #if defined(symbol) and #ifndef symbol mean, essentially, the same thing.
   O True
   False
                                                                                                                                                   1 / 1 pts
Question 7
What happens when this code fragment runs?
istringstream in("12");
int n;
in >> n;

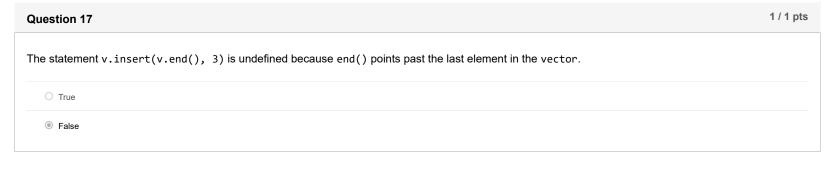
    It compiles, but fails to link

   O It sets an error state in in.
   O It does not compile.
   n is set to 12

    It throws a runtime exception

   None of these
                                                                                                                                                   1 / 1 pts
Question 8
The standard library version of sqrt(-2) throws a runtime exception because there is no possible answer.
   O True
   False
                                                                                                                                                   1 / 1 pts
Question 9
In the flag-controlled-pattern, you use Boolean variable to signal when the sentinel is found.
```

	Question 10	1 / 1 pts
	vector subscripts begin at 0 and go up to the vector size.	
	○ True	
	False	
	Question 11	1 / 1 pts
	An unnamed (anonymous) function is called a(n):	
	O functor	
	O stub	
	lambda	
	O iterator	
	O None of these	
Incorrect	Question 12	0 / 1 pts
	The C++ specific term for a collection of variables that have distinct names and types is a structure .	
	○ True	
	False	
	Question 13	1 / 1 pts
	Assume that v contains [1, 2, 3]. The result of writing cout << v.at(4); throws a runtime exception.	
	True	
	○ False	
Incorrect	Question 14	0 / 1 pts
	What does this code do?	
	<pre>int x = 0;</pre>	
	<pre>vector<int> v{1, 3, 2}; for (auto e : v) x += e;</int></pre>	
	cout << x << endl;	
	□ Prints 6	
	 ✓ Finds the last element in v ✓ Prints 2 	
	Sums the elements in v	
	□ Prints 0	
	☐ Finds the largest element in v	
Incorrect	Question 15	0 / 1 pts
	Assume vector <int> v; Writing cout << v.front(); throws a runtime exception.</int>	
	○ False	
	Question 16	1 / 1 pts
	A vector consists of indexed elements.	
	True	
	○ False	



Question 18	1 / 1 pts	
Which area of memory are local variables stored in?		
O Uninitialized Data		
○ Text		
Stack		
О Неар		
O Initialized Data		

Question 19	1 / 1 pts
Explicitly initializing an array like this: $int \ a[3] = \{1, 2, 3\}$; requires the size to be the same or smaller than the number of elements supplied.	
○ True	
False	

```
Question 21

Which array definition is initialized to all zeros?

int SIZE = 3;
int al[SIZE];
int a2[3];
int a3[3]{};
int a4[] = {1, 2, 3};
int a5[3] = {1, 2};

a

a

a

A

None of these
```

```
Question 22

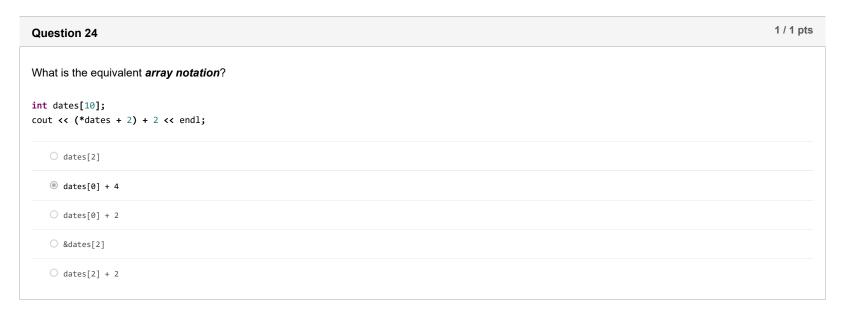
What is printed when you run this code?

int n{};
int *p;
*p = n;
cout << *p << end1;</pre>
```



O The address value where <i>n</i> is stored
O Will not compile
No compilation errors, but undefined behavior when run
O The value 0 (stored in n)
O None of these

ect	Question 23	0 / 1 pts
	What is printed when you run this code?	
	<pre>int *n{nullptr}; cout << &n << endl;</pre>	
	No compilation errors, but undefined behavior	
	O No output; compiler error.	
	○ The address value where <i>n</i> is stored	
	O The word "nullptr"	
	○ The address value 0	



Question 25	1 / 1 pts
In C++ printing an array name prints the value of the first element in the array.	
○ True	
False	

