Midterm 3 Study Guide

Due No due date Points 25 Questions 25 Time Limit 30 Minutes

Take the Quiz Again

Allowed Attempts Unlimited

Attempt History

	Attempt	Time	Score
KEPT	Attempt 30	23 minutes	25 out of 25
LATEST	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 5:25pm

Question 1	1 / 1 pts			
What happens when this code fragment runs?				
<pre>cout << stoi("12") << endl;</pre>				
O It does not compile.				
O It compiles, but fails to link				
O None of these				
<pre> stoi() returns 12 </pre>				
O It throws a runtime exception				
O It sets an error state in cout.				

Question 2	1 / 1 pts
Calling a template function like to_string <int>(3.5) is known as implicit instantiation.</int>	
○ True	
False	

uestion 3		1 / 1 pt
ou can report a logical error encoun	tared in valir code by ligha the throw keyward	
ou can report a logical error encoun	tered in your code by using the throw keyword.	

0	False

Question 5	1 / 1 pts
The line: ifstream in("x"); throws a runtime exception if a file x cannot be found.	
O True	
False	

Question 6		1 / 1 pts
Match each item with the correct loop form below.		
Indefinite limit loop that reduces its input	while (n != 0) { n /= 2; }	
Indefinite limit loop that uses successive approximations	while(abs(g1 – g2) >= EPSILOt ~	
Counter-controlled symmetric loop for producing a sequence of data	for (int i=12; i <= 19; i++) {} v	
Indefinite data loop that uses raw input	while(cin.get(ch)) {}	
Counter-controlled asymmetric loop for processing characters	for (size_t i=0, len=s.size(); i < l v	
Iterator loop that may change its container	for (auto& e : col) {}	
Iterator loop that cannot change its container	for (auto e : col) {}	
Counter-controlled loop for processing substrings	for (size_t i=4, slen=4, len=s.siz >	
Indefinite data loop that uses formatted input	while(cin >> n) {}	

```
Question 7

The directives #if defined(symbol) and #ifdef symbol mean, essentially, the same thing.

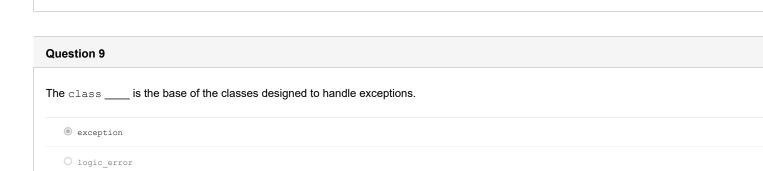
True

False
```

```
What happens with the following section of code?

if (_APPLE_)
    cout << "Running on a Mac" << end1;
else if (_WIN32)
    cout << "Running on Windows" << end1;
else if (_linux)
    cout << "Running on Linux" << end1;
else
    cout << "Running on an unknown platform" << end1;
```





1 / 1 pts

Question 10	1 / 1 pts
What prints?	
<pre>vector<int> v{1, 2, 3, 4, 5}; v.pop_back(); cout << v.back() << endl;</int></pre>	
O Nothing; run-time error.	
O 5	
O 1	
O Nothing; compile-time error.	

```
Question 11

In the declaration: vector<int> v; the word int represents the object's base type.

True

False
```

```
Question 13

Given the following structure and variable definitions, which data members are default initialized?

struct Employee
{
    long empID;
    std::string lastName;
    double salary;
    int age;
};

Employee bob{777, "Zimmerman"};

salary

empID
```



The program will not compile

O class

O runtime_error

O 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



☐ lastName

False

Which array definition is illegal (even if it may compile on some compilers)?

int	SIZE = 3;		
int	a1[SIZE];		
int	a2[3];		
int	a3[3]{};		
int	$a4[] = \{1,$	2,	3};

int a5[3] = {1, 2};

O a5

O a2

O a3

a1

None of these

Question 21

1 / 1 pts

The value for the variable *d* is stored:

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

in the static storage area

O on the stack

O on the heap

in the CPU machine registers

The example does not provide enough information

1 / 1 pts

Which array definition is illegal?

const int SIZE = 3; int a1[SIZE]; int a2[3]; int a3[3]{}; int a4[] = {1, 2, 3};

int a5[2] = {1, 2, 3};

Question 22

O a3

O a2

None of these

a5

O a1

Question 23

1 / 1 pts

Explicitly initializing an array like this: $int \ a[] = \{1, 2, 3\}$; only works in C++ 11.

O True

False

Question 24

1 / 1 pts

What is printed when you run this code?

int *n{nullptr}; cout << n << endl;</pre>

O The word "nullptr"

The address value 0

O No output; compiler error.



No compilation errors, but undefined behavior		

Question 25	1 / 1 pts
Array subscripts are not range checked	
True	
○ False	