Due No due date Points 25

Time Limit 30 Minutes Questions 25

Allowed Attempts Unlimited

Take the Quiz Again

Attempt History

	Attempt	Time	Score
KEPT	Attempt 4	21 minutes	23 out of 25
LATEST	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

Correct answers are hidden.

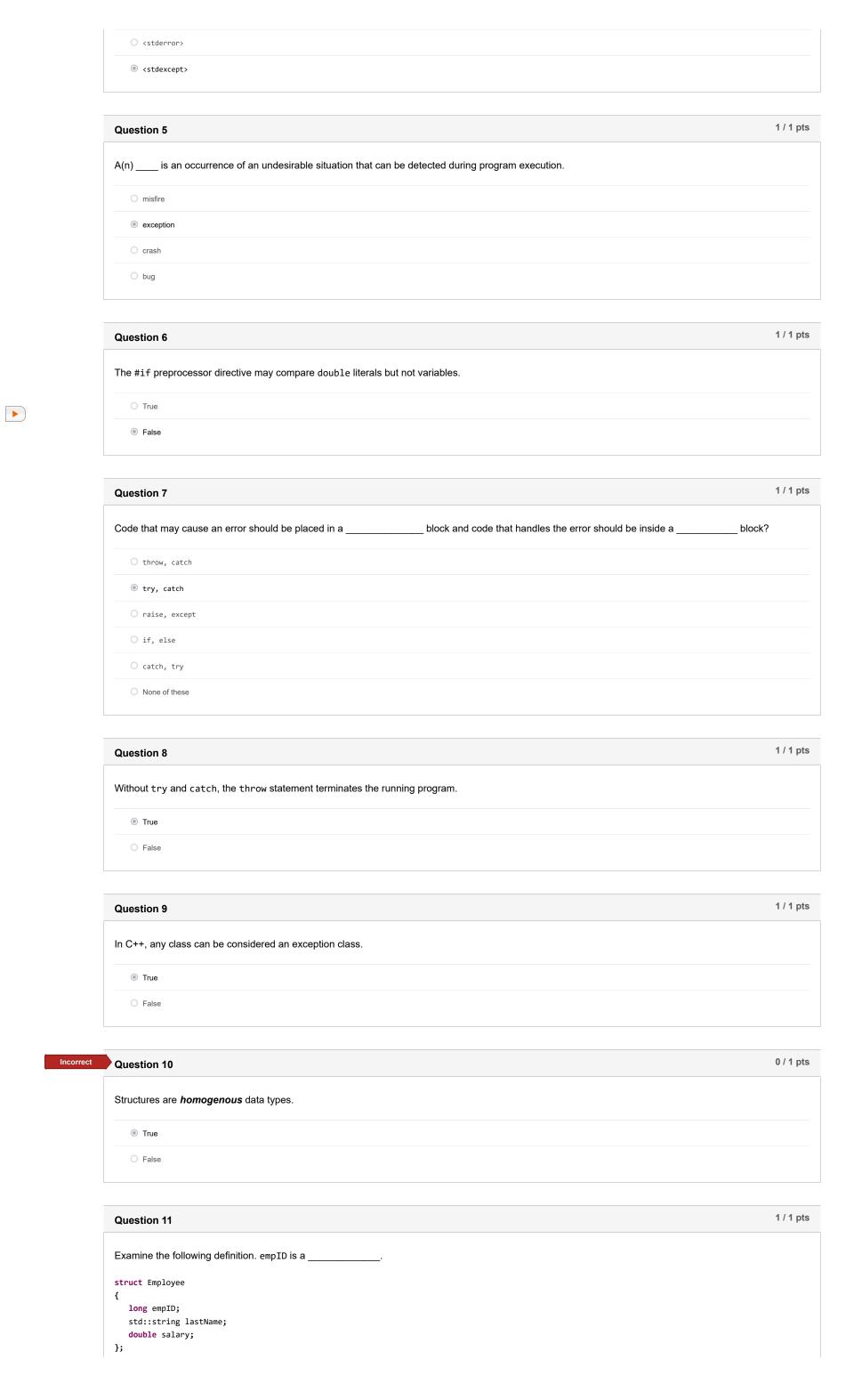
Submitted Jul 13 at 3:47am

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1 / 1 pts
Question 1
Which line fails to work correctly?
template <typename T>
void print(const T& item)
    cout << item << endl;</pre>
   O print(2 + 2);
   print(3 + 2.2);
    print(string("goodbye"));
   None of these
   O print("hello");
```

Question 2	1 / 1 pts
To use strings as a data stream source or sink, use the <sstream> header</sstream>	
⊚ True	
○ False	

Question 3	1 / 1 pts
What happens when you execute the (erroneous) line:	
<pre>auto x = sqrt(-1);</pre>	
The statement is skipped and the program continues	
The function throws and exception. If not caught the program terminates.	
The code does not compile. You cannot take the square root of a negative number.	
The function returns an error value and the program continues	
The program prints an error message and terminates	

Question 4	1 / 1 pts
What header file to you need to include to use the standard C++ error-handling classes?	
O <cerror></cerror>	
○ <cstdlib></cstdlib>	
○ <except></except>	
O None of these	



O field	
○ type-id	
O instance variable	
O None of these	
◎ data member	
O structure tag	
Question 12	1 / 1 pts
It is <i>illegal</i> to include the same struct definition multiple times, even if the definitions are exactly the same.	
True	
○ False	
Question 13	1 / 1 pts
The structure and variable definitions are fine. Which statements are legal?	
struct Rectangle { int length, width; } big, little;	
Struct Rectangle { Int length, winth, } big, little;	
O None of these are correct	
<pre>© cin >> little.width;</pre>	
O cout << Rectangle.length;	
O cin >> big;	
<pre>O double p = 2 * (length + width);</pre>	
Question 14	1 / 1 pts
Which of these are true?	
<pre>int main()</pre>	
<pre>{ vector<int> v{1, 2, 3};</int></pre>	
<pre>for (int i = v.size() - 1; i >= 0; i) cout << v.at(i) << " ";</pre>	
<pre>cout << endl; }</pre>	
□ Endless loop (may crash, but not necessarily)	
Prints 3 2 1	
☐ Issues a compiler warning, but no error	
Compiler error (does not compile)	
☐ Crashes when run	
Question 15	1 / 1 pts
User-defined types that combine multiple values into a single type are called structured types.	
True	
○ False	
Question 16	1 / 1 pts
User-defined types that contain a single value are called <i>scalar</i> types.	

Question 17 1/1 pts

To count the number of elements in a vector that match a particular condition, use the STL function:

O False

Question 18	
What is printed when you run this code?	
<pre>int *n{nullptr};</pre>	
cout << n << endl;	
No output; compiler error.	
○ The address value 0	
No compilation errors, but undefined behavior	

Question 19	1 / 1 pts
What is true about this code?	
int * choice;	
○ Syntax error; should be int choice*;	
O choice can point to any kind of object	
O choice currently points to an integer	
O choice currently contains an integer	
choice contains an undefined address	

Question 20	1 / 1 pts
The variable buf is a pointer to a region of memory storing contiguous int values. (This is similar to your homework, where you had a region of memory storing unsigned char values.) The four lines shown here are legal. Which operation is illegal ?	nory
<pre>int *p1 = buf; const int *p2 = buf; int * const p3 = buf; const int * p4 const = buf;</pre>	
<pre> *p2 = 7;</pre>	
O p2++;	
○ *p3 = 5;	
O p1++;	
○ *p1 = 3;	

```
Question 21
Explicitly initializing an array like this: int a[] = {1, 2, 3}; works in all versions of C++.
• True
• False
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Question 22

Which array definition produces {1, 2, 0}?

int SIZE = 3;
int a1[SIZE];
int a2[3];
int a3[3]{};
int a4[] = {1, 2, 3};
int a5[3] = {1, 2};
```



O a2		
O None of these		
O a1		
O a3		

Question 23	1 / 1 pts
All of these are legal C++ statements; which of them uses <i>indirection</i> ?	
int a = 3, b = 4;	
<pre> int x = *p; </pre>	
O int y = a * b;	
O None of these use indirection.	
O z *= a;	
O int *p = &b	

Question 24	1 pts
What is the address of the first pixel in the last row of this image?	
Pixel *p; // address of pixel data int w, h; // width and height of image	
O p + w + h	
p + w * (h − 1)	
O None of these are correct	
O p + w * h	
O p + w + (h - 1)	

Which expression returns the number of countries?

string countries[] = {"Andorra", "Albania", . . . };

sizeof(countries) * sizeof(countries)

len(countries)

sizeof(countries) / sizeof(string)

None of these

