Midterm 2 Study Guide

Due No due date Points 25 Questions 25 Time Limit 30 Minutes Allowed Attempts Unlimited

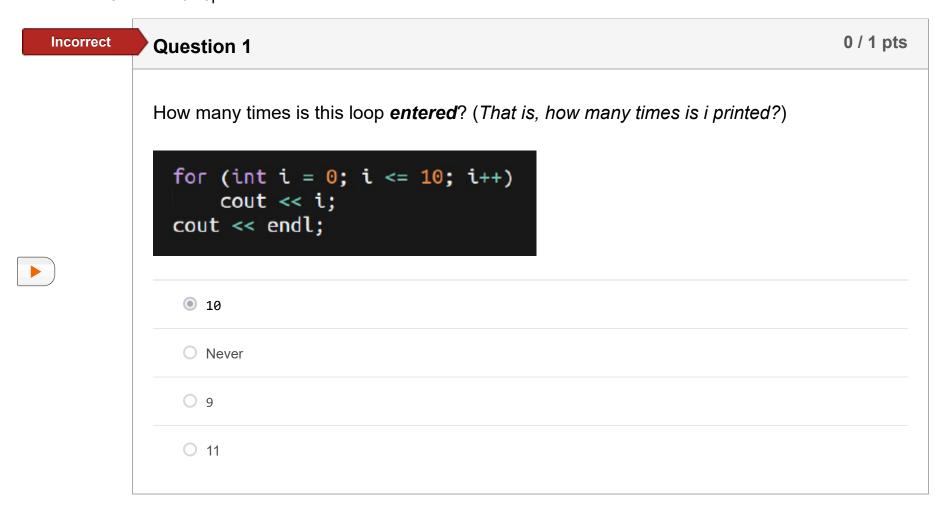
Take the Quiz Again

Attempt History

	Attempt	Time	Score	
KEPT	Attempt 1	30 minutes	18.33 out of 25	
LATEST	Attempt 3	22 minutes	16 out of 25	
	Attempt 2	16 minutes	16.17 out of 25	
	Attempt 1	30 minutes	18.33 out of 25	

① Correct answers are hidden.

Submitted Jun 27 at 6:40pm



Incorrect	Question 2	0 / 1 pts
	A <i>guarded</i> loop is also known as a <i>test-at-the-top</i> loop.	
	O True	
	False	

Question 3	1 / 1 pts
Loops are used to implement selection in C++.	



Question 4	1 / 1 pts
Loop bounds often used in scientific and mathematical applications.	
limit bounds	
O data bounds	
O None of these	
 sentinel bounds 	

Question 5	1 / 1 pts
Which line <i>advances the loop</i> ?	
<pre>1. string s("Hello CS 150"); 2. while (s.size()) 3. { 4. if (s.at(0) == 'C') break; 5. s = s.substr(1); 6. } 7. cout << s << endl;</pre>	
O None of these	
5	
O 4	
O 2	

Question 6	1 / 1 pts
Look at the problem statement below. The of the loop is that a period vencountered.	vas
How many characters are in a sentence? Count the characters in a string until a period is encountered. If the string contains any characters, then it will contain a period. Count the period as well.	
Oplan	



Question 7	1 / 1 pts
How many times is this loop entered? (That is, how many times is i printed?) for (int i = 1; i <= 10; i++) cout << i; cout << endl;	
10	
O Never	
O 11	
O 9	

Incorrect Question 8 0 / 1 pts



Below is the illustration from the loop building strategy. The *highlighted lines* represent. If current-character is a period then:

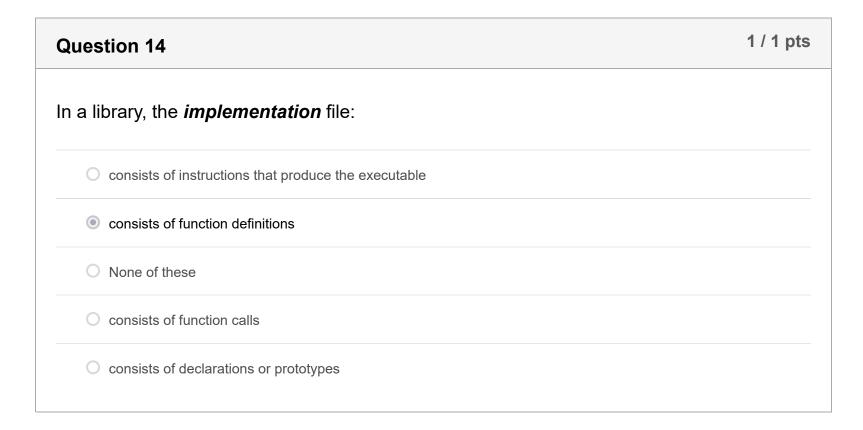
```
Given: the variable str is a string (may be empty)
Create the counter variable, initialized to {	ext{-}}1
If the variable str has any characters then
    Set counter to 0
    Create the variable current-character as a character
    Place the first character in str into current-character
    While more-characters and current-character not a period
       Add one to (or increment) the counter variable
       Store the next character from str in current-character
    If current-character is a period then
       Add one to the counter to account for the period.
      Set counter to -2
If counter is -1 the string was empty
Else if counter is -2 there was no period
bounds precondition
goal operation
loop bounds
goal precondition
O loop postcondition
```

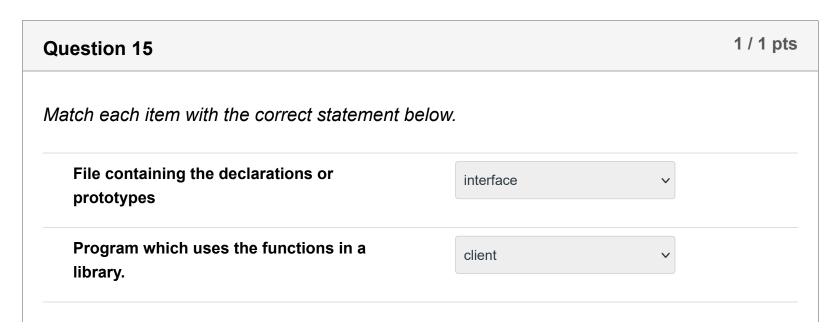
	Question 10	1 / 1 pt
	In a do-while loop, (condition) is followed by a semicolon.	
	True	
	O False	
	Question 11	1 / 1 pt
	An incomplete, yet compilable, linkable and executable function is calle	ed a?
	O declaration	
	stub	
	O prototype	
	O None of these	
orrect		0 / 1 pt
rrect	Question 12	071 pt
	A parameter with a default argument cannot appear before a paramete argument.	er without a default
	O True	
	False	

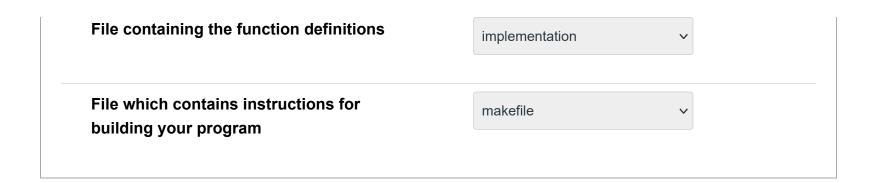
advancing the loop

Incorrect Question 13 0 / 1 pts

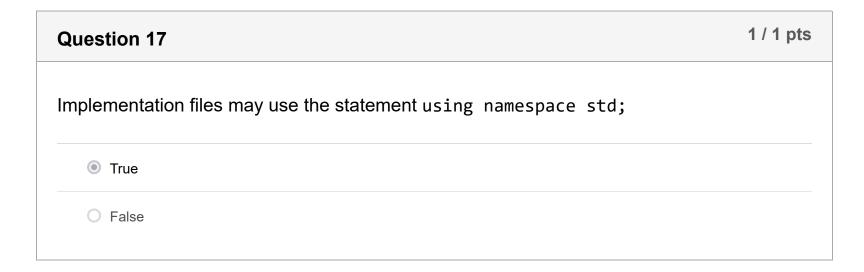








Question 16	1 / 1 pts
What prints here?	
<pre>auto a = 3, b = 3; cout << (a != b ? "panda": a % 2 ? "stork": "tiger") << endl;</pre>	
<pre>stork</pre>	
O Undefined behavior	
Opanda	
O Does not compile	
O tiger	



```
The getline() function is a member function in the istream class.

True

False
```

```
Question 19

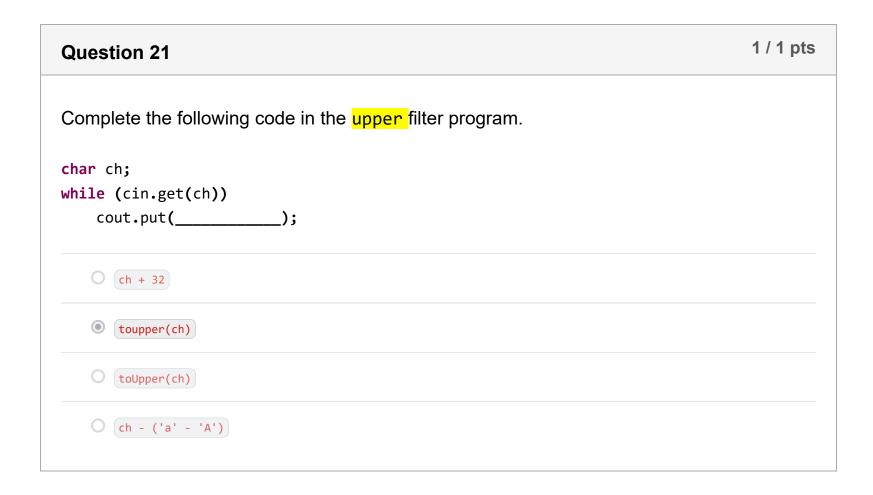
What is the value of r("axxbxx")?

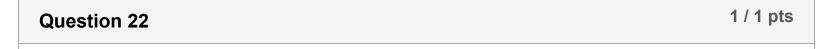
string r(const string s)
{
```



	יח (front == "x" ? "" : f	10112) 1 1 (3.3403)	(=//)	
O "a	b "			
O "ax	bx "			
O Sta	ck overflow			
"ab	п			

Question 20	1 / 1 pts
Assume the user types "brown cow" when this code runs. What type is ch2?	
<pre>char ch1; auto ch2 = cin.get(ch1);</pre>	
O int	
O bool	
O char	
O ostream&	







```
What is the value of r(3, 3)?

int r(int n, int m)
{
   if (m) return n * r(n, m - 1);
   return 1;
}

② 27

③ 3

③ 12

⑤ 9

⑤ Stack overflow
```

Assume the user types "brown cow" when this code runs. What prints?

char c;
cout.put(cin.get(c));

Does not compile

brown cow

true (or 1)

Question 24	1 pts
What does this function do?	
<pre>void myfun(const string& word)</pre>	
<pre>if (word.size() == 0) return; myfun(word.substr(1)); cout << word[0];</pre>	
}	
Prints the string word in reverse	
O Prints the string word	
O Prints the length of the string word	
O Prints the string word both forward and reverse	



Question 25	1 / 1 pts
Before you run your program, asking the operating system to connect standard ou file is called redirection.	tput to a
True	
O False	

