Assessment Test

Started: Jan 16 at 4:56pm

Quiz Instructions

This is a simple assessment test for testing students' general programming and computer concepts, so that the findings can help the instructor adjust the pace of the instruction and approach to accommodate different student programming ability levels.

Question 1	1 pts
When using the call by reference method of passing arguments to a function function can change the value of the original variable from the caller.	on, the called
True	
○ False	
Question 2	1 pts
Question 2	ı pto
variable is passed to the called function. It suggests that the variable was r	
variable is passed to the called function. It suggests that the variable was r	
variable is passed to the called function. It suggests that the variable was r called function.	
variable is passed to the called function. It suggests that the variable was recalled function. True False Question 3	never given to the
variable is passed to the called function. It suggests that the variable was recalled function. True False	never given to the

Question 4	1 pts
There is no need to pass parameters to a function from another, if parameter variables.	ers are global
○ True	
○ False	
Question 5	1 pts
Which of the following will you choose to define a variable for the age of you programming language supports short, integer, and long integer?	ur house if a
○ short integer	
○ integer	
○ long integer	
Question 6	1 pts
In writing a loop with the condition i <= 1000, imagine i starts at 1 and incresiteration. What is the value of i after the loop ends?	ases by 5 for each
	ases by 5 for each
iteration. What is the value of i after the loop ends?	ases by 5 for each
iteration. What is the value of i after the loop ends?	ases by 5 for each
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iteration. What is the value of i after the loop ends? O 1000 O 1001 O 1005 O 995	1 pts
iteration. What is the value of i after the loop ends? 1000 1001 1005 995 Question 7 The number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be the same as the number of arguments passed to a function must be a functio	1 pts

Question 8 1 pts What could go wrong with the following code, which looks for the largest element in an array? public static int getMax(int [] list) { int max = list[0]; for (int i = 1; i < list.length; i++) { if (list[i] > max) max = list[i]; } return max; } ○ list's length is too big O list has elements with unknown values ○ list is empty O All elements are the same O None of them **Question 9** 1 pts Most programming languages allow integers and strings; will the comparison 123 == "123" be true or false in Java/C/C++/Python? ○ True ○ False **Question 10** 1 pts A global variable should be avoided in your program because

☐ Memory allocated even they are not used in your program		
☐ Can be changed accidentally.		
☐ Name conflicts		
☐ Difficult to maintain		
Question 11 1 pts		
If you wish to change the values of three variables: a, b, and c so that a has the lowest value, b has intermediate value, and c has the highest value. How many if-statements do you need if you cannot use loops and library or custom functions in your program?		
○ 1		
○ 2		
○ 3		
○ 4		
Question 12 1 pts		
If you need to print an integer backwards, such as 1234 and 4321. Can you write code to accomplish this without relying on specific library functions, arrays, or any other library data structures like lists, vectors, etc?		
○ True		
○ False		
Question 13 1 pts		
If you want to print all multiples of 4 from 4 to 1000, simply create a loop with a condition i <= 1000, assuming i starts at 4 and i will be multiplied by 4 for each iteration		
○ True		
○ False		

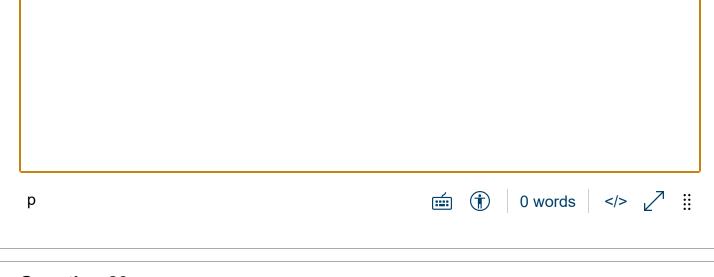
Question 14	1 pts
In most programming languages, reference types are heap-based, which requires the programmer to deallocate the memory in C++. In other languages, such as Java, the memory be deallocated when the function that declared those reference types finishes.	nory
○ True	
○ False	
Question 15	1 pts
When you compare two reference types in most programming languages using an equal operator like ==, it compares their addresses but not their actual contents	
○ True	
○ False	
Question 16	1 pts
When one reference type is assigned to another using an assignment operator like =, the is that two variables refer to the same object or memory address.	result
○ True	
○ False	
Question 17	1 pts
Most programming languages have for-loops and while-loops, and you may use either to achieve the same result.	
○ True	
○ False	

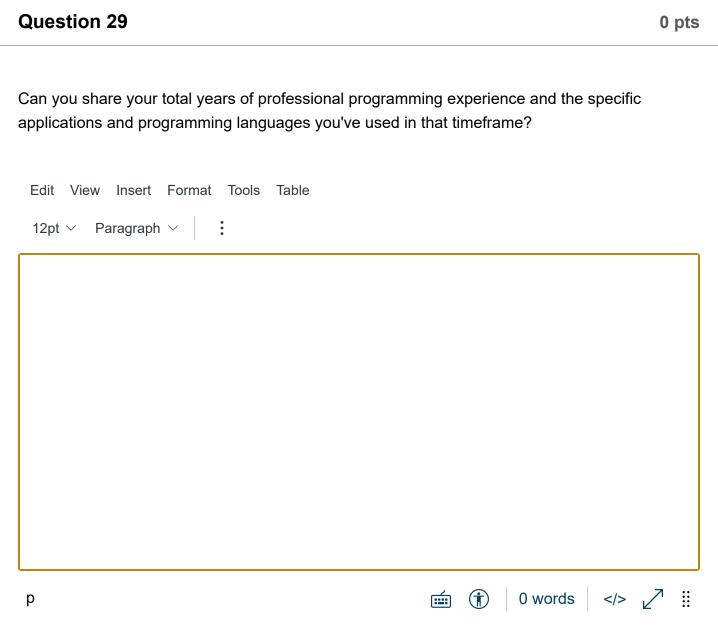
Question 18	1 pts
If your programming language does not allow the do-while loop, you cannot achieve result with a while-loop.	e the same
○ True	
○ False	
Question 19	1 pts
Most programming languages only allow a function to return a single value, however get around this by returning an array of values.	er you can
○ True	
○ False	
Question 20	1 pts
What factors should you consider when designing a function?	
☐ The function's purpose	
☐ The function's inputs	
☐ The function's output	
☐ Should optimize the function so that it can perform more tasks without calling other function	IS
☐ The side-effect of the function	
Question 21	1 nte
Question 21	1 pts
Most modern programming languages, such as JavaScript and Python, do not requ specify data type when defining a variable because the interpreter will identify data an actual value is assigned to it.	· ·
○ True	
○ False	

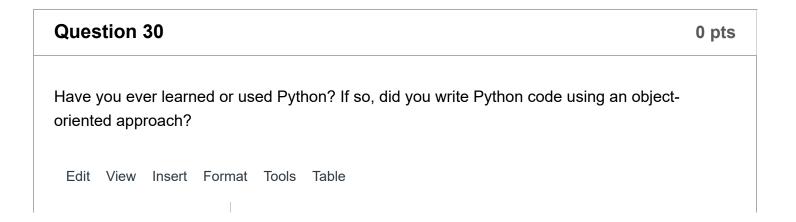
Question 22	1 pts
The advantage of compiled programming languages is that they can run quicker because compiled into native machine language, they may run natively without the need for a run interpreter, such as Java or Python.	
○ False	
Question 23	1 pts
The computer programming language is a machine language that computer hardware understand?	can
○ True	
○ False	
Question 24	1 pts
In Java or Python, "bytecode" refers to machine language that a computer hardware cunderstand	an
○ True	
○ False	
Question 25	1 pts
How many iterations does it take to sort an unsorted list of N floating-point values in re order using the Bubble sort algorithm?	·verse
○ N times	
○ 2 N times	

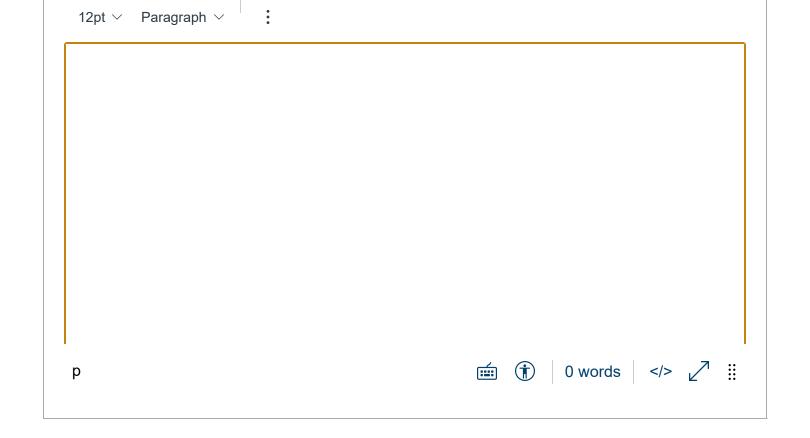
○ N * N times

2N N*N Nlog N Question 27 1 pt How many iterations does it take to add 1 to each element on a diagonal of a two-dimensional array with N rows and N columns? 2 N N N*N Unknown	Question 26	1 pt
N N N N N N N N N N N N N N N N N N N	How many iterations are required to add 1 to earling and N columns?	ach element of a two-dimensional array of N row
N N N N N N N N N N N N N N N N N N N	○ 2N	
Question 27 1 pt How many iterations does it take to add 1 to each element on a diagonal of a two-dimensional array with N rows and N columns? 2 N N N*N Unknown Question 28 0 pt Please provide a list of the programming courses you have completed in the past. Additionally, what was your undergraduate degree program?	○ N	
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