Feedback — Quiz 3: Computing Technology

Help Center

Authentication is not required for this quiz.

You submitted this quiz on **Tue 4 Aug 2015 9:59 PM PDT**. You got a score of **8.00** out of **10.00**.

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A computer algorithm is

Your Answer	Score	Explanation
 A precise specification of all the steps needed to compute a solution to a problem 	1.00	
A protocol for transmitting data over a network		
A description of the memory organization within a computer		
A description of the hardware and software capabilities of a computer		
Total	1.00 /	
	1.00	

Question 2

You can make a program more efficient by

Your Answer	Score	Explanation
Replacing your hard drives with faster solid state drives		
Recompiling it on a different computer		

Running it on the Amazon cloud		
Re-designing the algorithm to require fewer steps	~	1.00
Total		1.00 / 1.00

Question 3				
	Score	Explanation		
~	1.00			
	1.00 / 1.00			
		Score ✓ 1.00		

Question 5

Software engineering involves

Your Answer		Score	Explanation
O Debugging computer code			
Testing programs on a wide range of examples to see if they perform as expected			
All of these options	~	1.00	
Updating code so that it remains compatible with other software systems.			
Total		1.00 /	
		1.00	

Question 6

Bowtie, TopHat, and Cufflinks are

Your Answer		Score	Explanation
A web-based system for browsing genome data			
Programs for determining the function of a gene			
Elements of men's formal evening wear			
A suite of software tools for alignment and analysis of next- generation sequence data	~	1.00	
Total		1.00 /	
		1.00	

Question 7 Sequence alignment refers to **Your Answer** Score **Explanation** Making sure that all the DNA sequences in a file use the same format Finding the single nucleotide polymorphisms in a person's DNA Shuffling the positions in a sequence to randomize them Lining up two DNA sequences so that positions with the 1.00 same base match one another Total 1.00 / 1.00

Question 8 A software pipeline for RNA sequence (RNA-seq) analysis will **Your Answer** Score **Explanation** Process large raw sequence files into a summary table showing which genes were present Create a database in which one can efficiently store and 0.00 retrieve results Evaluate the best RNA-seq protocol for minimizing sequencing artifacts Automatically update all software to the latest version Total 0.00 /1.00

Total

Question 9					
Which of the following is not a computer operating system?					
Your Answer		Score	Explanation		
Google Drive	~	1.00			
○ Mac OS X					
Unix					
Microsoft Windows					

1.00 / 1.00

Question 10			
A data set large enough to overwhelm the main memory of	a compu	ter would	
Your Answer		Score	Explanation
Be at least 100 gigabytes in size			
Be larger than the available RAM			
Use uncompressed files rather than compressed ones			
Contain more than 1000 genomes' worth of data	×	0.00	
Total		0.00 / 1.00	