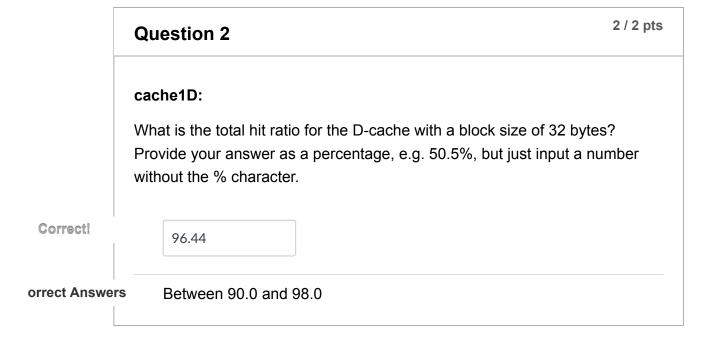
p4AQuestions Results for SHIHAN CHENG

Score for this attempt: **20** out of 20 Submitted Mar 31 at 8:53pm

This attempt took 30 minutes.

Cache1D: What is the total hit ratio for the D-cache with a block size of 4 bytes? Provide your answer as a percentage, e.g. 50.5%, but just input a number without the % character. Correct | 82.48 Between 80.0 and 90.0



Question 3	2 / 2 pts
cache1D:	

What is the total hit ratio for the D-cache with a block size of 64 bytes? Provide your answer as a percentage, e.g. 50.5%, but just input a number without the % character.

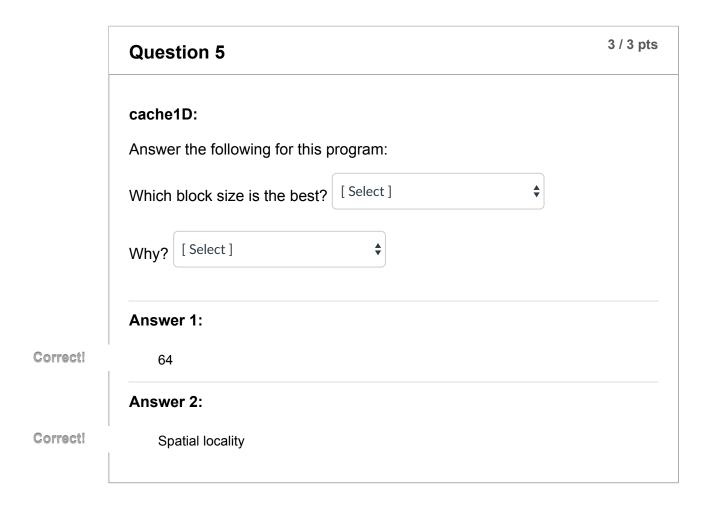
Correct!

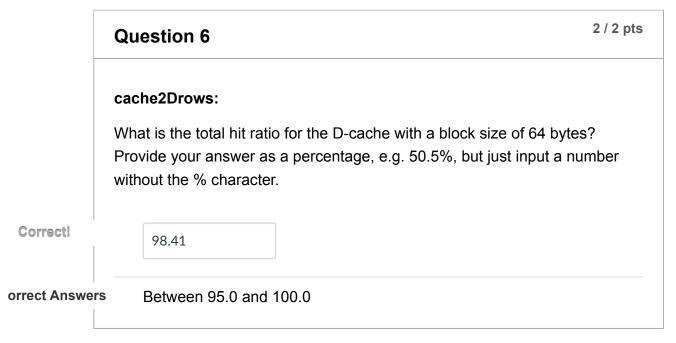
97.2

orrect Answers

Between 95.0 and 100.0

	Question 4	2 / 2 pts			
	cache1D:				
	Answer this question without running pin again. Assume that the 100, element integer array that you allocated starts at address 0x50000000 memory, the size of an integer is 4 bytes and the D-cache is initially e As you read the integers in the array one-by-one, starting at index 0, I many D-cache misses will you see for reading the first 40 integers wh cache block size is:) in mpty. now			
	a) 4 bytes: 40				
	b) 32 bytes: 5				
	c) 64 bytes: ³				
	Answer each part by entering an integer between 0 and 40.				
	Answer 1:				
Correct!	40				
	Answer 2:				
Correct!	5				
	Answer 3:				
Correct!	3				





Question 7 2 / 2 pts

cache2Dcols:

What is the total hit ratio for the D-cache with a block size of 64 bytes? Provide your answer as a percentage, e.g. 50.5%, but just input a number without the % character.

Correct!

87.12

orrect Answers

Correct!

Correct!

Between 80.0 and 90.0

Question 8		2 / 2 p
Comparing cac	he2Drows with ca	che2Dcols:
array you allocat integer is 4 bytes empty. As you re	ed starts at address s, D-cache block siz ead the integers in the 0], how many D-cac	g pin again. Assume that the 2-D integes 0x40000000 in memory, the size of ance is 64 bytes and the D-cache is initially the 2-D array one-by-one, starting with the misses will you see for reading the
a) cache2Drows	: 1	
b) cache2Dcols:	10	
Answer each par	rt by entering an inte	eger between 0 and 10.
Answer 1:		
1		
1 Answer 2:		

	Question 9 3 / 3 pts			
	Comparing cache2Drows with cache2Dcols:			
	Compare the performance (hit ratio) of the D-cache for the 2 programs.			
	Which one is better? cache2Drows			
	Why? Spatial locality			
	Answer 1:			
Correct!	cache2Drows			
	Answer 2:			
Correct!	Spatial locality			

Quiz Score: 20 out of 20