① Students have either already taken or started taking this quiz, so take care when editing it. If you change any quiz questions in a significant way, you might want to consider re-grading students' quizzes who took the old version of the quiz.

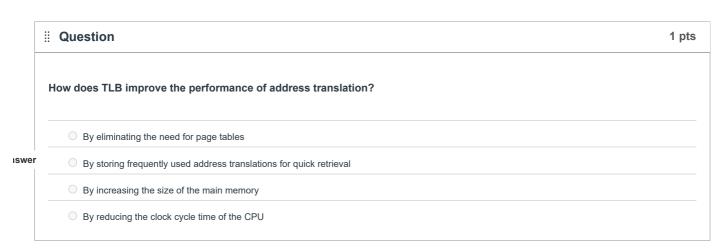
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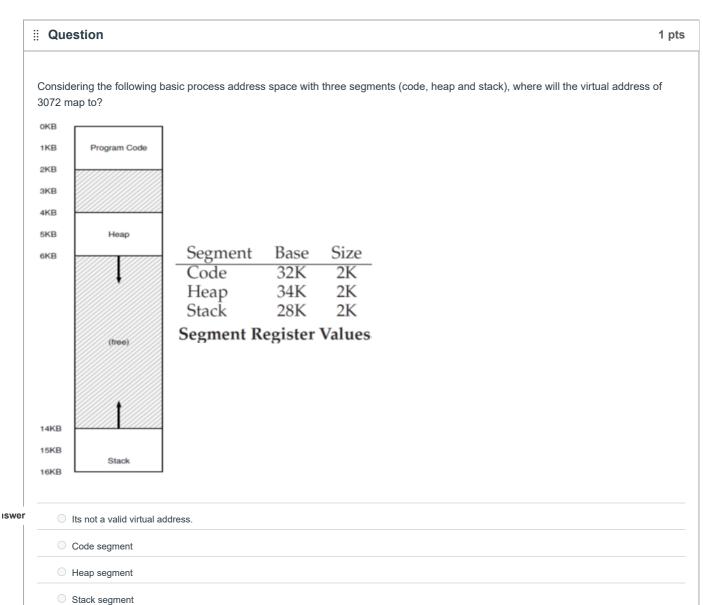
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**Details** 

Questions

✓ Show question details





<b>⊞ Question</b>			1 pts		
		ormation is given to you.			
MSB Values	Segment				
00	Code				
01	Heap				
11	Stack				
Which segment doe	Vhich segment does the virtual address 136 belong to?				
○ Code segmen	○ Code segment				
Heap segment	Heap segment Stack segment				
Stack segment					
ver					
lis not a valid	viitual addiess.				
<b>⊞ Question</b>			1 pts		
What happens wh	en a TLB miss o	ccurs?			
er The page tabl	The page table is searched for the required translation				
The TLB is flu	shed				
The process is	s context-switched				
○ The CPU skip	s the instruction cau	ising the TLB miss			
<b>Question</b>			1 pts		
In the coalescing	process of a free	buffer list, what condition triggers the merging of two adjacent free blocks?			
The blocks ha	The blocks have the same size				
The blocks are	The blocks are located at different memory addresses				
The blocks are	The blocks are not adjacent in the list				
The blocks ha	ive contiguous mem	ory addresses			
# Question			1 pts		
	s is 32 bits and tl	ne page size is 4 KB, how many bits are used for the virtual page number?			
10 bits					
ver 12 bits					

	② 20 bits	
	22 bits	
	iii Question	1 pts
	In a virtual-to-physical address translation, if the TLB (Translation Lookaside Buffer) has a hit ratio of 90%, what does this imply?	
	90% of the virtual addresses are invalid	
	90% of the virtual-to-physical translations are found in the TLB	
ıswer	90% of the physical addresses are in use	
	10% of addresses are found in TLB.	
	# Question	1 pts
	Assuming you made a call to malloc(200). How many bytes will actually be allocated?	
	© 200	
swer	O 208	
	O 204	
	O 192	
	# Question	1 pts
		<b>⊗</b> ×
	Paging is slower compared to contiguous memory allocation because?	
	The data is stored in non-contiguous regions	
ıswer	The RAM may be accessed multiple times for a data read.	
	The memory is divided into small holes	
	The page sizes are too small.	
	# Question	1 pts
	In terms of flexibility, which memory allocation technique provides better support for growing data structures?	
	Contiguous memory allocation	
	Segmentation	
ıswer	O Paging	
	None of the above	