Loop Race Conditions

Due Oct 24, 2019 at 11:59pm **Points** 13 **Questions** 13

Time Limit None Allowed Attempts Unlimited

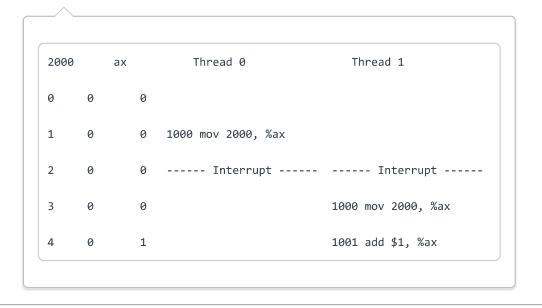
This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	less than 1 minute	13 out of 13
LATEST	Attempt 2	less than 1 minute	13 out of 13
	Attempt 1	9 minutes	11 out of 13

Score for this attempt: **13** out of 13 Submitted Oct 22, 2019 at 1:49pm This attempt took less than 1 minute.

	Question 1	1 / 1 pts
	Value in %ax after instruction 4?	
Correct!	1	
orrect Answei	1 (with margin: 0)	

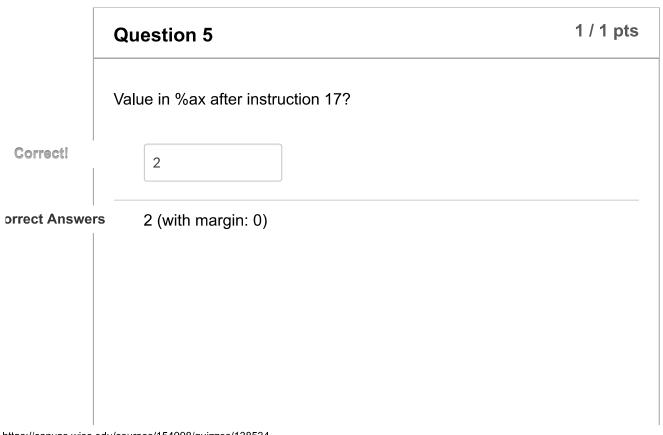


1 / 1 pts **Question 2** Value in %ax after instruction 5? Correct! 0 orrect Answers 0 (with margin: 0) 2000 ax Thread 0 Thread 1 0 0 0 0 1000 mov 2000, %ax 0 ----- Interrupt ----- Interrupt -----1000 mov 2000, %ax 0 1 1001 add \$1, %ax 0 0 ----- Interrupt ----- Interrupt -----

Question 3 1 / 1 pts Value in %ax after instruction 6? Correct! 1 1 (with margin: 0) **orrect Answers** 0 0 1000 mov 2000, %ax 0 0 ----- Interrupt ----- Interrupt -----0 3 1000 mov 2000, %ax 1 1001 add \$1, %ax 0 0 ----- Interrupt ----- Interrupt -----6 1 1001 add \$1, %ax

	Question 4	1 / 1 pts
	Value in address 2000 after instruction 11?	
Correct!	1	
orrect Answer	s 1 (with margin: 0)	
https://capvas.wisc.	edu/courses/154998/guizzes/138534	

)	0	0		
	0	0	1000 mov 2000, %ax	
2	0	0	Interrupt	Interrupt
3	0	0	1	1000 mov 2000, %ax
ļ	0	1	1	1001 add \$1, %ax
;	0	0	Interrupt	Interrupt
;	0	1	1001 add \$1, %ax	
,	1	1	1002 mov %ax, 2000	
3	1	1	1003 sub \$1, %bx	
)	1	1	1004 test \$0, %bx	
.0	1	1	Interrupt	Interrupt
1	1	1		1002 mov %ax, 2000



0	0	0		
1	0	0	1000 mov 2000, %ax	
2	0	0	Interrupt	Interrupt
3	0	0		1000 mov 2000, %ax
4	0	1		1001 add \$1, %ax
5	0	0	Interrupt	Interrupt
6	0	1	1001 add \$1, %ax	
7	1	1	1002 mov %ax, 2000	
8	1	1	1003 sub \$1, %bx	
9	1	1	1004 test \$0, %bx	
10	1	1	Interrupt	Interrupt
11	1	1		1002 mov %ax, 2000
12	1	1		1003 sub \$1, %bx
13	1	1		1004 test \$0, %bx
14	1	1	Interrupt	Interrupt
15	1	1	1005 jgt .top	
16	1	1	1000 mov 2000, %ax	
17	1	2	1001 add \$1, %ax	

Question 6	1 / 1 pts
Value in %ax after instruction 20?	
1	

Correct!

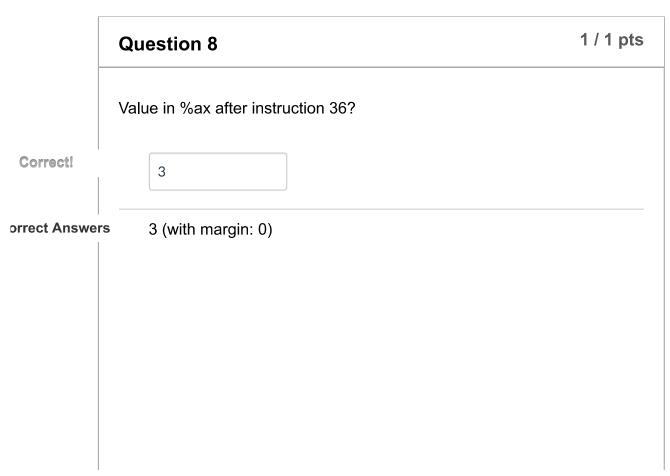
orrect Answers

1 (with margin: 0)

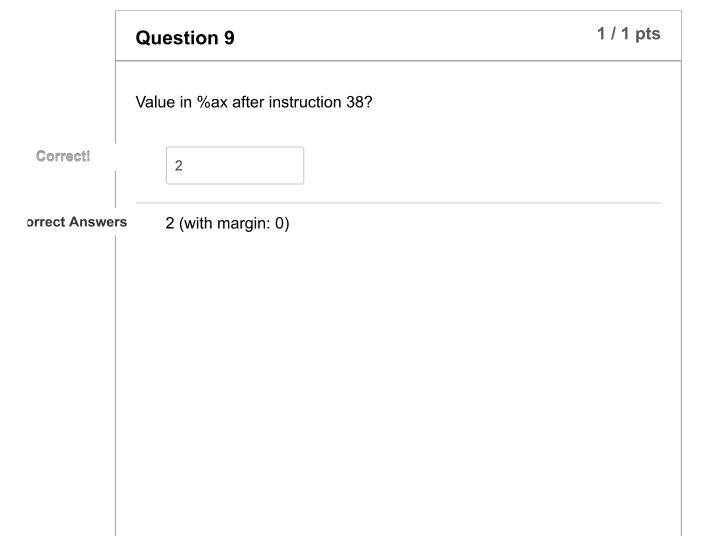
10	1	1	Interrupt	Interrupt
11	1	1		1002 mov %ax, 2000
12	1	1		1003 sub \$1, %bx
13	1	1		1004 test \$0, %bx
14	1	1	Interrupt	Interrupt
15	1	1	1005 jgt .top	
16	1	1	1000 mov 2000, %ax	
17	1	2	1001 add \$1, %ax	
18	1	1	Interrupt	Interrupt
19	1	1		1005 jgt .top
20	1	1		1000 mov 2000, %ax

	Question 7	1 / 1 pts
	Value in address 2000 after instruction 28?	
Correct!	2	
prrect Answers	2 (with margin: 0)	

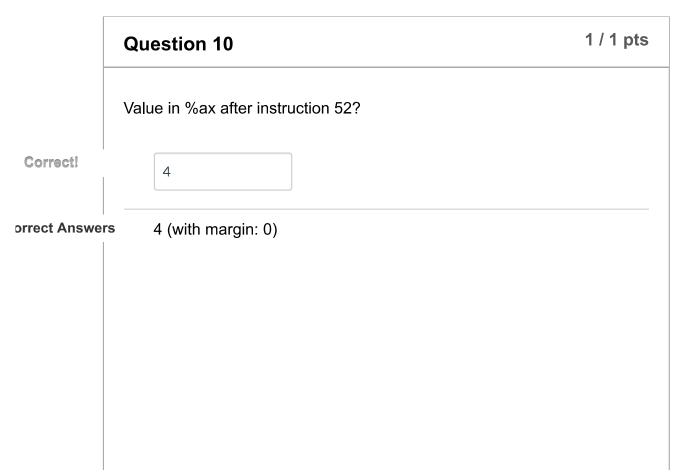
18	1	1	Interrupt	Interrupt
19	1	1		1005 jgt .top
20	1	1		1000 mov 2000, %ax
21	1	2	Interrupt	Interrupt
22	2	2	1002 mov %ax, 2000	
23	2	2	1003 sub \$1, %bx	
24	2	2	1004 test \$0, %bx	
25	2	2	1005 jgt .top	
26	2	1	Interrupt	Interrupt
27	2	2		1001 add \$1, %ax
28	2	2		1002 mov %ax, 2000



28	2	2		1002 mov %ax, 2000
29	2	2		1003 sub \$1, %bx
30	2	2	Interrupt	Interrupt
31	2	2	1000 mov 2000, %ax	
32	2	2	Interrupt	Interrupt
33	2	2		1004 test \$0, %bx
34	2	2		1005 jgt .top
35	2	2	Interrupt	Interrupt
36	2	3	1001 add \$1, %ax	



_/ \				
28	2	2		1002 mov %ax, 2000
29	2	2		1003 sub \$1, %bx
30	2	2	Interrupt	Interrupt
31	2	2	1000 mov 2000, %ax	
32	2	2	Interrupt	Interrupt
33	2	2		1004 test \$0, %bx
34	2	2		1005 jgt .top
35	2	2	Interrupt	Interrupt
36	2	3	1001 add \$1, %ax	
37	2	2	Interrupt	Interrupt
38	2	2		1000 mov 2000, %ax



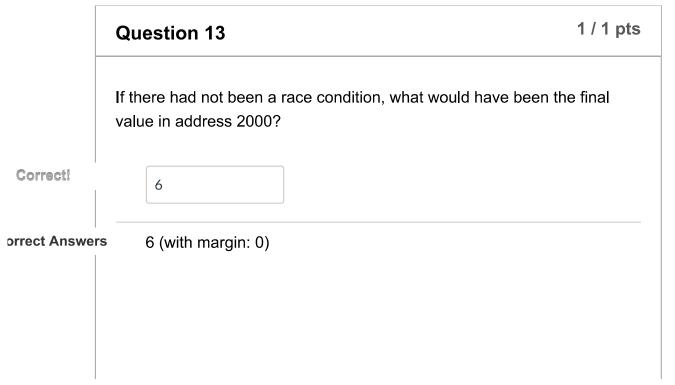
38	2	2		1000 mov 2000, %ax
39	2	3		1001 add \$1, %ax
40	3	3		1002 mov %ax, 2000
41	3	3		1003 sub \$1, %bx
42	3	3	Interrupt	Interrupt
43	3	3	1002 mov %ax, 2000	
44	3	3	1003 sub \$1, %bx	
45	3	3	1004 test \$0, %bx	
46	3	3	1005 jgt .top	
47	3	3	Interrupt	Interrupt
48	3	3		1004 test \$0, %bx
49	3	3		1005 jgt .top
50	3	3	Interrupt	Interrupt
51	3	3	1000 mov 2000, %ax	
52	3	4	1001 add \$1, %ax	

	Question 11	1 / 1 pts
	Value in %ax after instruction 54?	
Correct!	3	
orrect Answe	rs 3 (with margin: 0)	

38	2	2		1000 mov 2000, %ax
39	2	3		1001 add \$1, %ax
40	3	3		1002 mov %ax, 2000
41	3	3		1003 sub \$1, %bx
42	3	3	Interrupt	Interrupt
43	3	3	1002 mov %ax, 2000	
44	3	3	1003 sub \$1, %bx	
45	3	3	1004 test \$0, %bx	
46	3	3	1005 jgt .top	
47	3	3	Interrupt	Interrupt
48	3	3		1004 test \$0, %bx
49	3	3		1005 jgt .top
50	3	3	Interrupt	Interrupt
51	3	3	1000 mov 2000, %ax	
52	3	4	1001 add \$1, %ax	
53	3	3	Interrupt	Interrupt
54	3	3		1000 mov 2000, %ax

	Question 12	1 / 1 pts	
	Value in address 2000 after instruction 59?		
Correct!	4		
orrect Answei	s 4 (with margin: 0)		

47	3	3	Interrupt	Interrupt
48	3	3		1004 test \$0, %bx
49	3	3		1005 jgt .top
50	3	3	Interrupt	Interrupt
51	3	3	1000 mov 2000, %ax	
52	3	4	1001 add \$1, %ax	
53	3	3	Interrupt	Interrupt
54	3	3		1000 mov 2000, %ax
55	3	4		1001 add \$1, %ax
56	4	4		1002 mov %ax, 2000
57	4	4		1003 sub \$1, %bx
58	4	4	Interrupt	Interrupt
59	4	4	1002 mov %ax, 2000	



Two threads each loop 3 times; each loop increments variable by 1.

Quiz Score: 13 out of 13