CMPS-224 Quiz	z-9 name
Clearly indicate	your answers please.
	atements in x86 assembly, using only push and pop, that will move to register rax.
push 0x1	
pop rax	
	ers can call external functions such as write() with the syscall write is an atomic function, it would mean that
	an intrinsic function on the processor. rites directly to memory.
	ill complete without interruption.
	ins outside the processor pipeline.
	ling a function in your x86 assembly program that accepts one nat register should you store the argument value in?
A. rax	
Brdi	
C. rsi D. rsp	
4. Your x86 fun store the retu	ction returns one value to the caller. What register should you irn value in?
Arax	
B. rbx C. rbp	
D. rsp	
5. The ARM arc	hitecture is
	ther name for the MIPS architecture. SC architecture
	SC architecture
	d mostly on super computers
6. What is the o	only x86-64 instruction that takes a full 64-bit immediate?
A. xor	
B. stos C. cmp	
C. C. 111	•

D..mov

7. What does this instruction do?	
lea rsi, [rbp]	
A. copies into rsi the value at address rbp Bcopies the value of rbp into rsi C. compares rsi with the address of rbp D. loads into rbp the value in rsi	
8. What does the following assembly code do?	
section .rodata display db "Go Roadrunners",10,0	
 A. creates a read-only display named db. Bdefines a string of length 15. C. displays the words "Go Roadrunners" and goes to a new line. D. loads a string into the heap section of the executable. 	
9. When calling a function that requires eight arguments, where are the seventh and eighth argument values stored?	
on the stack	
10. Write x86 statements that will cause a program to branch to label top if the value in eax is 25, otherwise branch to bottom .	
write your statements here	
cmp eax, 25 je top jmp bottom	
top:	
bottom:	