CMSC 313 Spring 2024
Quiz 5 Practice

Full Name _____ Student ID _____

Questions on this quiz are either short response of true or false. Please print your answers clearly.

Question 1. You are given the following x86-64 assembly code:

```
section .data
        arr db 1,1,1,1,1,1,1,1      ;0x0000 0000 address
        len equ $ - arr
        gap dq 2                    ;0x0000 0008 address
section .text
        global main
main:
        mov al, 1
        mov rbx, [gap]
        mov rcx, 0
loop:   imul rax, rbx
        mov [arr+rcx], BYTE al
        add cl, 2
        cmp cl, 6
        jl loop

        mov eax, 60
        mov edi, 0
        syscall
```

a. What are the values stored at address 0x0000 0000 through 0x0000 0007

address	value
0x0000 0000	2
0x0000 0001	1
0x0000 0002	4
0x0000 0003	1
0x0000 0004	8
0x0000 0005	1
0x0000 0006	1
0x0000 0007	1