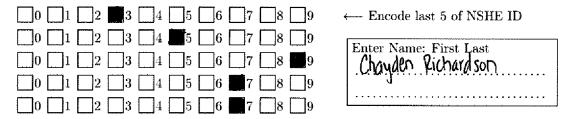
Richardson Chayden Mark: 10/10 (total score: 5/5)



+90/1/2+

CS 218 - Worksheet 5



For each of the following questions, select only the best answer.

Question 1 Given the following code fragment, what is in the ax register?

 $\mathbf{x} = 0\mathbf{x}0000\mathbf{c}$

Question 2 Given the following code fragment, what is in the ax and dx registers?

```
list dw 12, 14, 16, 18, 20

mov rbx, list
mov rsi, 3
mov ax, word [rbx+rsi*2]
cwd
idiv word [rbx+2]

ax = 0x0001 and dx = 0x0002
```

 \Box ax = 0x0001 and dx = 0x0002 \Box ax = 0x0004 and dx = 0x0001 \Box ax = 0x0002 and dx = 0x0000 \Box ax = 0x0001 and dx = 0x0004 **Question 3** Given the following code fragment, what is in the eax and edx registers?

```
list dd 12, 14, 16, 18, 20

mov rbx, list
mov rsi, 2
mov eax, dword [rbx+rsi*4]
cdq
idiv dword [rbx+4]

eax = 0x00000002 and edx = 0x00000001

eax = 0x00000001 and edx = 0x000000000
```

Question 4 Given the following code fragment, what is in the eax and ebx registers?

1, 3, 5, 7, 9, 11

```
mov
             rsi, 4
             eax, 19
     mov
     mov
lp:
             eax, dword [list+rsi*4]
     sub
     ìnc
             rsi
     dec
             rcx
             rcx, 0
     стр
     jne
             1p
             ebx, dword [list]
```

list

dd

mov ebx, dword [list]

eax = 0x00000001 and ebx = 0x00000000eax = 0x00000001 and ebx = 0x00000001eax = 0x-0000001 and ebx = 0x00000001

1/1

1/1

1/1

1/1

Question 5 Given the following code fragment, what is in the eax and ebx registers?

dd 3, 5, 7 list rsi, 0 mov eax, 0 mov rcx, 3 mov eax, dword [list+rsi*4] lp: add inc rsi loop lp mov ebx, esi \mathbf{X} eax = 0x00000000f and ebx = 0x00000003 eax = 0xffffffff and ebx = 0x00000000feax = 0x00000001 and ebx = 0x00000003

 $f_{i}(j)$

1/1