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Roll No: 20P-0101

Lab Task: 5

Subject: COAL Lab

Section: BCS-4B

Submitted To Respected Sir:

Khurram Shahzad

```
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| ; think of this as the "if"

; the swap potion

mov dx, [data + bx + 2]

mov [data + bx + 2], ax ; again with the AX?

mov [data + bx], dx

noswap:
```

```
38
                      add bx, 2
39
40
                      cmp bx, 10
41
42
                      jne innerloop
43
44
                      ; check outer loop termination
45
46
                      sub cx, 1
47
48
                      jnz outerloop
49
50
                      ;exit system call
51
52
                      mov ax, 0x4c00
53
54
                      int 0x21
55
```

```
DS:0000
          0 1 2 3 4 5 6 7
                                  8 9 A B C D E F
         02 03 04 05 02 08 F0 FE
                                 AD DE 1B 05 C5 06 00 00
DS:0010
         18 01 10 01 18 01 92 01
                                 01 01 01 00 02 FF FF FF
DS:0020
         FF FF FF FF FF FF FF
                                 FF FF FF FF EB 19 CO 11
                                                          ó.
DS:0030
         A2 01 14 00 18 00 F5 19
                                 FF FF FF FF 00 00 00 00
DS:0040
         05 00 00 00 00 00 00 00
                                 00 00 00 00 00 00 00 00
1 Step 2ProcStep 3Retrie∨e 4Help ON 5BRK Menu 6 7 up 8
```