

# Forum:[Hack Forums](#)

Thread: [Having a little trouble with emu8086](#)

camrymps - October 28, 2013, 5:52 am

I am having a little trouble with an assignment that I have to complete in emu8086. What I have to do is, as the teacher states:

Quote:Write two lines to push a byte stored in dh on to myStack.  
Write two lines to pop a byte stored in myStack into dl.

Here is the code that I have so far:

Code ;kevin o'keeffe

```
org 100h
jmp START
```

```
myStack db 8 dup (?)
_myStackSize equ 8
```

```
START:
mov si, _myStackSize    ;si holds size of myStack
```

```
mov dh, '1'            ;move '1' (which is ascii 31) to dh
mov cx, 5               ;Wish to execute loop body 5 times (must use cx with loop command)
PUSH_LOOP:
```

```
    ;push myStack
    [color=#FF0000]mov si, 0h    [/color]           ;change si so myStack[si] is the new top of myStack
    [color=#FF0000]mov dh, myStack(si)[/color]       ;mov dh to the new top of myStack
```

```
    inc dh
    loop PUSH_LOOP        ;dec cx      jnz PUSH_LOOP
```

```
mov cx, 5
POP_LOOP:                ;Wish to execute loop body 5 times (must use cx with loop command)
```

```
    ;pop myStack
    ;[color=#FF0000]???    [/color]                ;mov (ie copy) the top element of myStack to dl
    ;[color=#FF0000]???    [/color]                ;change si so myStack[si] is the new top of myStack
```

```
    mov ah, 02h          ;Send rv
    int 21h              ;to screen
```

```
    ;Advance screen to new print line
    mov ah, 02h
    mov dl, 0Dh
    int 21h
    mov dl, 0Ah
```

```
int 21h
loop POP_LOOP ;dec cx      jnz PUSH_LOOP
```

```
ret
```

The four lines in red are what I have to change/make. Please help!

**Cybride** - *October 29, 2013, 11:52 am*

Why are you trying to use absolute values here?

Code PUSH\_LOOP:

```
dec si
mov myStack[si], dh
```

Code POP\_LOOP:

```
mov dl, myStack[si]
inc si
```