

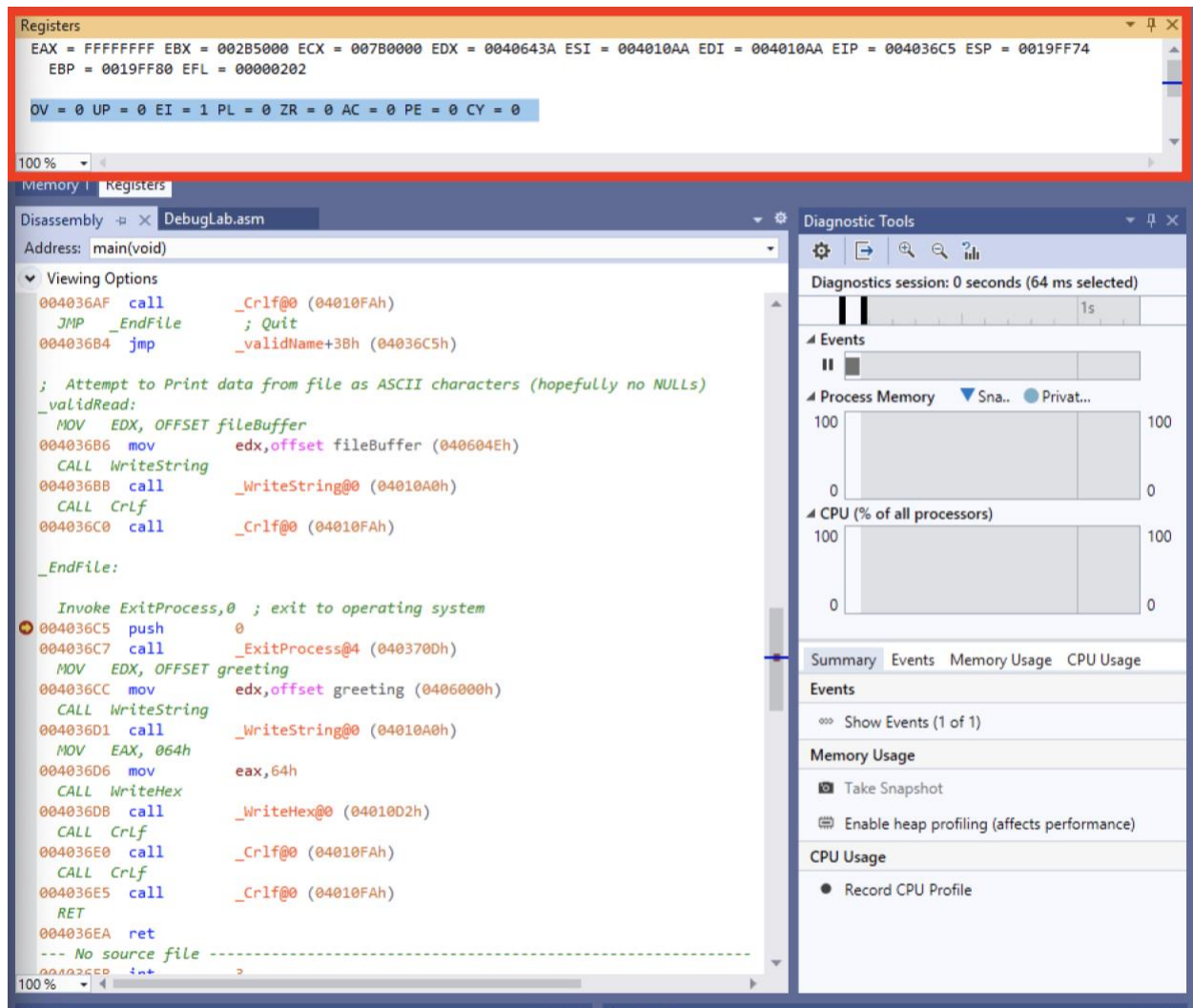
## Part 1 - Questions

1. What is the current value (in Hex) of the EAX Register?

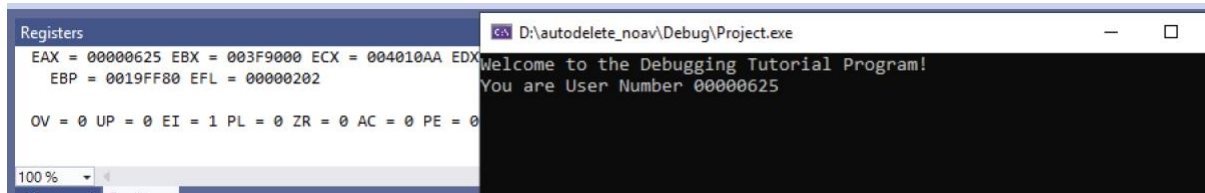
EAX = FFFFFFFF

2. What is the current state (Set/Clear) of the following flags: Carry, Overflow, Zero, Sign?

Carry = 0 | Overflow = 0 | Zero = 0 | Sign = 0 | All clear



## Part 2 - Navigating Code and Procedures



## Part 3 - Disassembly View

1. What is the memory address (in the code segment) of the instruction located at the `_validName` code label? Note that this question is not asking about the address of the `JNE _validName` instruction, but the actual code label (defined as `_validName:`).  
040368Ah
2. What instruction (with operands, if any) is stored at the code segment address from Question 1 above? In addition to writing the instruction (with operands, if any), please circle this line on the screenshot attached to this part in your report, including the address from Question 1.

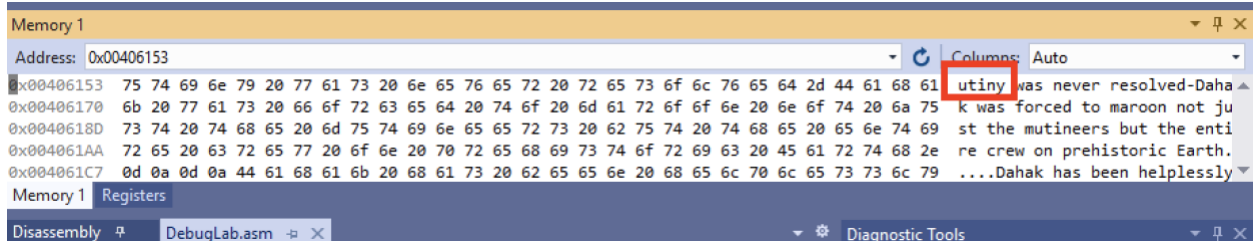
```
mov  eax, dword ptr
00403674  cmp      eax, 0FFFFFFFFh
        JNE  _validName      ; Filename Checks Out!
00403677  jne      _validName (040368Ah)
        MOV  EDX, OFFSET fileNameError ; Print Filename Error!
00403679  mov      edx, offset fileNameError (040643Ah)
        CALL WriteString      ; Notify User
0040367E  call     _WriteString@0 (04010A0h)
        CALL Crlf
00403683  call     _Crlf@0 (04010FAh)
        JMP  _EndFile          ; Quit
00403688  jmp      _validName+3Bh (04036C5h)

; Attempt to Read Input File to Memory
_validName:
mov  eax, dword ptr [fileHandle (040604Ah)]
```

3. What is the significance of the relationship between the value in EIP (in the Registers window) and the leftmost value on any given line?  
The EIP is pointing to the first byte of the next instruction to be executed which is the leftmost of any given line.

## Part 4 - Spelunking through Memory

- Let  $n$  = (the last three digits of your OSU ID number). What is the  $(n+1)$ st byte (index  $n$ ) of TestText.txt, interpreted as an ASCII character?  
 $257^{\text{th}}$  = u in mutiny.



## Part 5 - Keeping Careful Watch

- What is the unsigned value of fileHandle after opening the TestText.txt file?

300

