

Assignment 5 sol

What is the memory size for the following address bus sizes

- 32 bits **4GB**
- 29 bits **0.5 GB**
- 25 bits **32 MB**
- 18 bits **256KB**

How many address bits needed for these memory sizes

- 32 MB **25**
- 16 MB **24**
- 2 GB **31**
- 256 KB **18**

Assume that SP=FE2EH, AX=3291H, BX=F43CH, and CX=09. Find the contents of the stack and stack pointer after the execution of each of the following instructions

PUSH AX

PUSH BX

PUSH CX

SS:FE28				→ 09
SS:FE29				00
SS:FE2A			→ 3C	3C
SS:FE2B			F4	F4
SS:FE2C	→	91	91	91
SS:FE2D		32	32	32
SS:FE2E	→			