01	
(i) CMP performs subtraction without modifying	ony
of the operands. It updates the required flac	Js.
CMP is a non-destructive instruction. On the hand, sub performs adread subhaction and st.	UNC!
the rout in the destroction operat.	0405
Example:	
c Mir eax, 3	
iz zon ; jamps if eax-3=0.	
SUB eax , 2; $eax = eax - 2$.	
(ii) 1) Rushme stades are used as temporary strong	ige .
for registers.	
2) Return addresses for CAUS are sound in sta	rcles-
3) To pass hachion orguments.	
4) To stone local variables.	
(iii) TMP doesn't keep hack of where to return	
If just jungs to the trangel label without le	cnowir
where to return afterwards.	
(iv) too LAHF loads the steeles flags into the AH	
register.	
SAHF restures the flags values from the 17H	•
register.	
(V) PSP instruction will insmediately remove the	
return address from the stack causing the	
purgram to crash.	
(vi) Calling a user-defined procedure without using	
the to uncontrolled execution.	本

(a) a: AL = EFH (b) AX = FFFEH cx = OFH; IS push AX who c: AL = DBL ; Loop execution- A: AL = 18h PX = FFEFH e: AL = 87L DX = FFFEL
(a) a: Al = Efh (b) AX = FFFEH b: Al = 30h
c: AL = DBK ; Loop execution- A: AL = 18h ; Loop execution- BX = FFEFK DX = FFFEK
c: Al = DBh ; Loop execution- A: Al = 18h ; Loop execution- BX = FFEFh DX = FFFEL
e: AL = 18h DX = FFFFh DX = FFFFH
e: Al = B7h DX = FFFEh
Ŵ3:
Q3:
(a) · clata
val1 soward?
X SDWORD ?
·code
main PROC
CMP val1, ecx
ile else-cond
CMP eck, edr
ile edse and
mov x, 1
else:and:
$M6Y$ χ , 2
(b) ESP = 00001FF8h
aj Esi?=0000 1 FF &1
EAX (6) ESP- OOODIFFUL
C) EAX = CUCOUC
000000 27h & [X1+4] 9ESP = 0000 1FFOL DIBIP= 115000001
000000 25h + [X1] ->ESP= 00001 FF4h
11500000h + ret allres > ESP=0000 IFFEL
EDX after return, ESP
resturs to initial
value.
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