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Jd : 2010/239

lection, 12

Course: CSE 350

Assignment:

Arm to the O: N: I

Iw an sw instructions heed memory access.

hiver that,

No -25%, and Sw = 10%

: fraction of all cycles that the data

remorg used is = (25+(0)).

- 35%. LAND)

Am to the D'N:2

addi, beg, Iward sw instructions will reed the input of the sign enterden.

Freed that,

Given that,

addi = 20%, box = 25%, Iw = 25%, sw = 10%.

Addi = 20%, box = 25%, Iw = 25%, sw = 10%.

Fraction of all cycles whose the input of incustion of all cycles whose the input of incust headed is = (20+25+25+10)%.

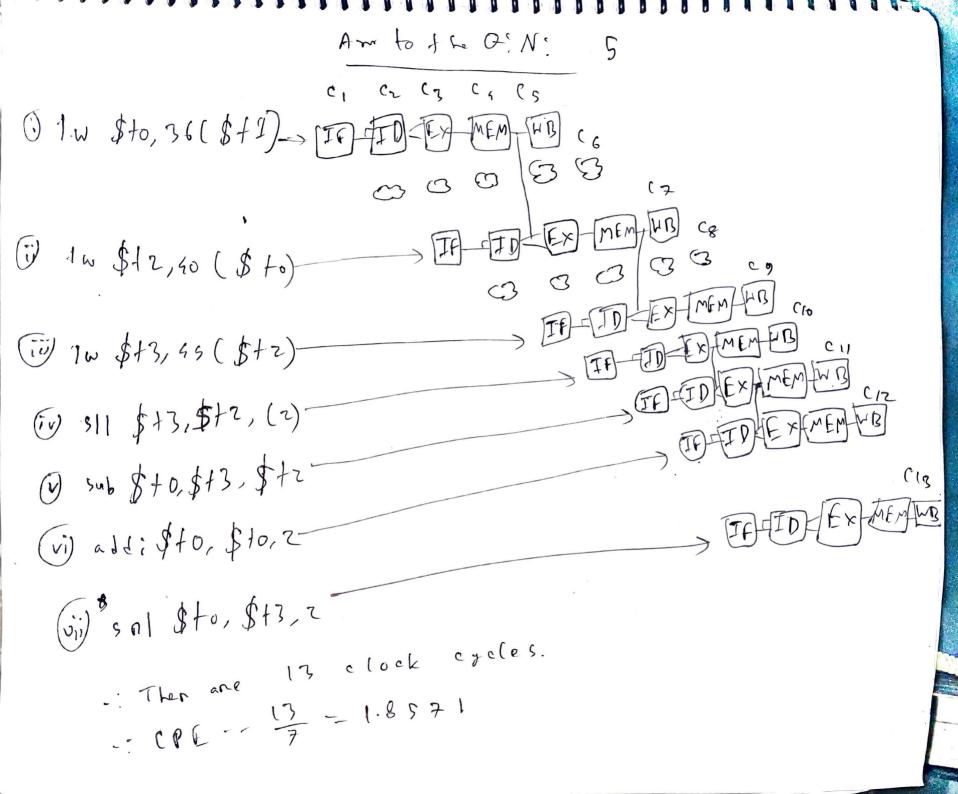
Sign enterd circuit headed is = (20+25+25+10)%.

c Ans)

Amo to the D: N: 3

Datapath showing the pipeline stages using stall is given below: \$ 1w \$ fo, 36 (\$f1) [F] FD CR 1w \$ +2,40(\$+0) 1 w \$+3, 44 (\$+12) s11 \$+3, \$+2,2 e13 c 14 e 15 CU sub \$10, \$13, \$t2 TO EX MEM [W] C19 addi \$ +0, \$+0,2 sal \$40,\$43,2 · (PA - 19 -2.714. (100)

Am to fee O. N: 4 1 1 w \$to, 36(\$+1)- IFF FD EX MEM FB (6 EX-MEMPLUB (i) 1 w \$12,40 (\$ to) (iv) 1w \$+3,45 (\$+2) JET IDEX MEMENTO (w) 311 \$+3,\$+2, (2) (v) sub \$+0,\$+3,\$+2 Ciz > FEFTD EX MEMINE (vi) addi \$to, \$to, 2-(vii) \$ 1 \$to, \$t3, 2 .: Ther are 13 clock cycles. -: CPE-- 13 - 1.8571 CAMI



We convot to scheduling here. Because,
it will charge the sequence of the code.

and will earle emon.

For for the sever lines of MIPS instaction.

There will be 13 clock cycles.