

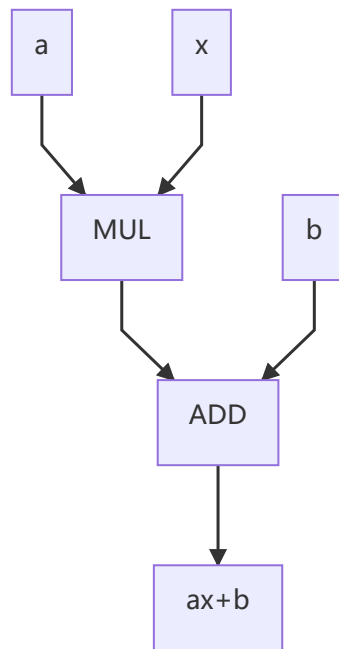
ICS Hw1

Author Haihan Gao

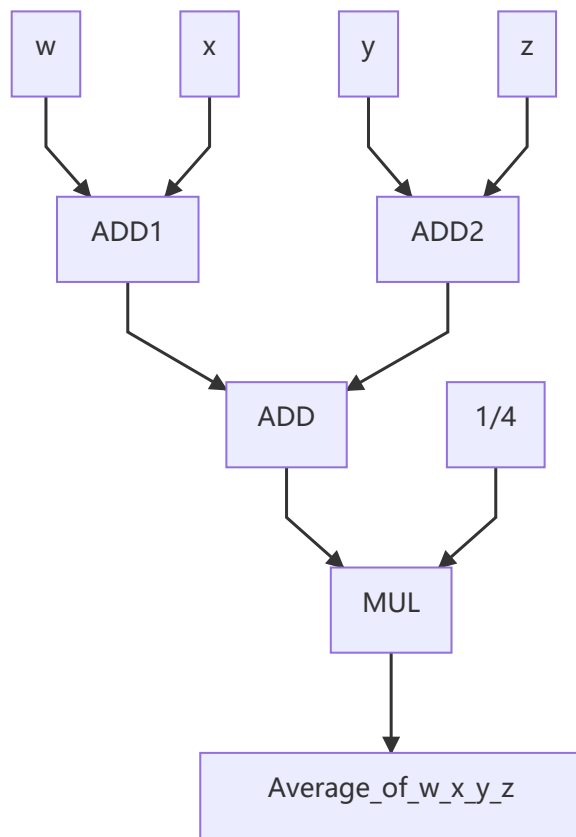
Student number:PB18030980

Question 1

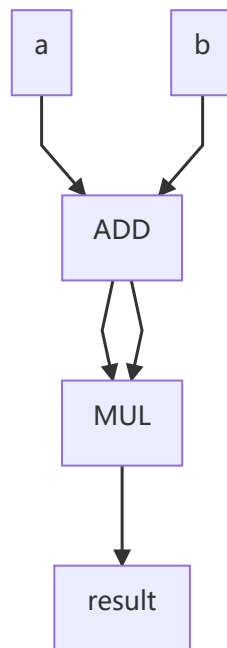
a



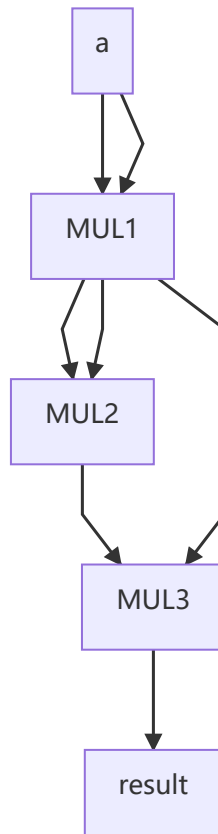
b



c



d



Question 2

a We have $5 \times 2 \times 3 = 30$ transformation processes

b "C,x86,Core microarchitecture" "C++,x86,Core microarchitecture" "Pascal,x86,Core microarchitecture"

c We have $5 \times (2 + 4) = 30$ transformation processes

Question 3

a $2^n \geq 400 \quad n \geq 9$

b 112

Question 4

a 00010110

b 00001101

c 10001000

d 00000001

Question 5

a 1100

b 01011000

c 1011

d 11

Question 6

- a 85
- b -115
- c -128
- d -1

Question 7

[22:15] 00110011

[31] 1

[30:23] 01111101

Question 8

$1+1/4+1/16+1/128+1/256=1.3242$

10000010 130

value=-10.5936

Question 9

- 0xBBFF
- 0xFFFF
- 0x4000

Question 10

X	Y	Z	Q1	Q2
0	0	0	0	1
0	0	1	0	1
0	1	0	0	1
0	1	1	0	1
1	0	0	1	1
1	0	1	1	1
1	1	0	1	1
1	1	1	0	0