

Name: Meet Patel
Student ID: 214304869
2021Z
LAB_C

Part 2:

ORG 0

s: DM 0

p5: DC "B = ? "

d0: DD 10 ; A = 10 (can be changed)

DD -1, -2

ld x1, x0, d0
ecall x0, x1, 0

ld x2, x0, p5
ecall x3, x2, 5

ld x5, x0, 0
ld x6, x0, 0

blt x3, x1, IF
blt x1, x3, ELSEIF
beq x1, x3, ELSE

IF: addi x5, x0, 1
addi x6, x0, 2
beq x0, x0, Exit

ELSEIF: addi x5, x0, 5
addi x6, x0, 5
beq x0, x0, Exit

ELSE: addi x5, x0, 0
addi x6, x0, 0
beq x0, x0, Exit

Exit: sd x5, 16(x0)
sd x6, 24(x0)

RVS (RISC-V Visual Simulator) v0.39

File Fname: /eecs/home/meet2610/Desktop/eecs2021/Lab3/Lab3Part2.a Help

ORG 0
s: DM 0
p5: DC "B = ?"
d0: DD 10 ; A = 10 (can be changed)
DD -1, -2
ld x1, x0, d0
ecall x0, x1, 0
ld x2, x0, p5
ecall x3, x2, 5
ld x5, x0, 0
ld x6, x0, 0
blt x3, x1, IF
blt x1, x3, ELSEIF
beq x1, x3, ELSE
IF: addi x5, x0, 1
addi x6, x0, 2
beq x0, x0, Exit
ELSEIF: addi x5, x
ELSE: addi x5, x0
Exit: sd x5, 16i
sd x6, 24i

Compile BIN HEX INT TXT Source InitPC 0x0000000000000020 START Stop Run Next TXT Listing

zero 0x0000000000000000 0
x1 ra 0x0000000000000000 0
x2 sp 0x0000000000000000 0
x3 gp 0x0000000000000000 0
x4 tp 0x0000000000000000 0
x5 t0 0x0000000000000000 0
x6 t1 0x0000000000000000 0
x7 t2 0x0000000000000000 0
x8 t3 0x0000000000000000 0
x9 t4 0x0000000000000000 0
x10 t5 0x0000000000000000 0
x11 t6 0x0000000000000000 0
x12 t7 0x0000000000000000 0
x13 t8 0x0000000000000000 0
x14 t9 0x0000000000000000 0
x15 t10 0x0000000000000000 0
x16 t11 0x0000000000000000 0
x17 t12 0x0000000000000000 0
x18 t13 0x0000000000000000 0
x19 t14 0x0000000000000000 0
x20 t15 0x0000000000000000 0
x21 t16 0x0000000000000000 0
x22 t17 0x0000000000000000 0
x23 t18 0x0000000000000000 0
x24 t19 0x0000000000000000 0
x25 t20 0x0000000000000000 0
x26 t21 0x0000000000000000 0
x27 t22 0x0000000000000000 0
x28 t23 0x0000000000000000 0
x29 t24 0x0000000000000000 0
x30 t25 0x0000000000000000 0

Refresh HEX INT FLP Regs Refresh HEX INT FLP TXT Memory Clear Execution Cancel Enter INP

RVS (RISC-V Visual Simulator) v0.39

File Fname: /eecs/home/meet2610/Desktop/eecs2021/Lab3/Lab3Part2.a Help

ORG 0
s: DM 0
p5: DC "B = ?"
d0: DD 10 ; A = 10 (can be changed)
DD -1, -2
ld x1, x0, d0
ecall x0, x1, 0
ld x2, x0, p5
ecall x3, x2, 5
ld x5, x0, 0
ld x6, x0, 0
blt x3, x1, IF
blt x1, x3, ELSEIF
beq x1, x3, ELSE
IF: addi x5, x0, 1
addi x6, x0, 2
beq x0, x0, Exit
ELSEIF: addi x5, x
ELSE: addi x5, x0
Exit: sd x5, 16i
sd x6, 24i

Compile BIN HEX INT TXT Source InitPC 0x0000000000000070 START Stop Run Next TXT Listing

zero 0x0000000000000000 0
x1 ra 0x0000000000000000 0
x2 sp 0x00202b3f203d2842 9842654750646338
x3 gp 0x0000000000000000 0
x4 tp 0x0000000000000000 0
x5 t0 0x0000000000000001 1
x6 t1 0x0000000000000002 2
x7 t2 0x0000000000000003 3
x8 t3 0x0000000000000004 4
x9 t4 0x0000000000000005 5
x10 t5 0x0000000000000006 6
x11 t6 0x0000000000000007 7
x12 t7 0x0000000000000008 8
x13 t8 0x0000000000000009 9
x14 t9 0x000000000000000a 10
x15 t10 0x000000000000000b 11
x16 t11 0x000000000000000c 12
x17 t12 0x000000000000000d 13
x18 t13 0x000000000000000e 14
x19 t14 0x000000000000000f 15
x20 t15 0x0000000000000010 16
x21 t16 0x0000000000000011 17
x22 t17 0x0000000000000012 18
x23 t18 0x0000000000000013 19
x24 t19 0x0000000000000014 20
x25 t20 0x0000000000000015 21
x26 t21 0x0000000000000016 22
x27 t22 0x0000000000000017 23
x28 t23 0x0000000000000018 24
x29 t24 0x0000000000000019 25
x30 t25 0x000000000000001a 26

Refresh HEX INT FLP Regs Refresh HEX INT FLP TXT Memory Clear Execution Cancel Enter INP

Part 3:

ORG 0

s: DM 0

p5: DC "A = "

p6: DC "B = "

p7: DC "C = "

DD -1, -2

ld x2, x0, p5

ecall x3, x2, 5

ld x2, x0, p6

ecall x4, x2, 5

ld x2, x0, p7

ecall x5, x2, 5

addi x9, x0, 5

beq x5, x9, AND

beq x0, x0, ELSE

AND: blt x4, x3, IF

beq x0, x0, ELSE

IF: addi x10, x0, 1

addi x11, x0, 2

beq x0, x0, Exit

ELSE: addi x10, x0, 0

addi x11, x0, 0

Exit:

sd x10, 24(x0)

sd x11, 32(x0)

RVS (RISC-V Visual Simulator) v0.39

File Fname: /eecs/home/meet2610/Desktop/eecs2021/Lab3/Lab3Part3.a

ORG 0

s: DM 0

p5: DC "A = "

p6: DC "B = "

p7: DC "C = "

DD -1, -2

ld x2, x0, p5

ecall x3, x2, 5

ld x2, x0, p6

ecall x4, x2, 5

ld x2, x0, p7

ecall x5, x2, 5

addi x9, x0, 5

beq x5, x9, AND

beq x0, x0, ELSE

AND: blt x4, x3, IF

beq x0, x0, ELSE

IF: addi x10, x0, 1

addi x11, x0, 2

beq x0, x0, Exit

Compile BIN HEX INT TXT Source InitPC 0x0000000000000028 START Stop Run Next TXT Listing

zero 0x0000000000000000 0

x1 ra 0x0000000000000000 0

x2 sp 0x0000000000000000 0

x3 gp 0x0000000000000000 0

x4 tp 0x0000000000000000 0

x5 t0 0x0000000000000000 0

x6 t1 0x0000000000000000 0

x7 t2 0x0000000000000000 0

x8 t3 0x0000000000000000 0

x9 t4 0x0000000000000000 0

x10 t5 0x0000000000000000 0

x11 t6 0x0000000000000000 0

x12 t7 0x0000000000000000 0

x13 t8 0x0000000000000000 0

x14 t9 0x0000000000000000 0

x15 t10 0x0000000000000000 0

x16 t11 0x0000000000000000 0

x17 t12 0x0000000000000000 0

x18 t13 0x0000000000000000 0

x19 t14 0x0000000000000000 0

x20 t15 0x0000000000000000 0

x21 t16 0x0000000000000000 0

x22 t17 0x0000000000000000 0

x23 t18 0x0000000000000000 0

x24 t19 0x0000000000000000 0

x25 t20 0x0000000000000000 0

x26 t21 0x0000000000000000 0

x27 t22 0x0000000000000000 0

x28 t23 0x0000000000000000 0

x29 t24 0x0000000000000000 0

x30 t25 0x0000000000000000 0

ADDRESS HEXADECIMAL INTEGER FLOAT

0x0000000000000000 0x00000000203d2841 540876865 2.672287E-31

0x0000000000000000 0x00000000203d2842 540876866 2.672287E-31

0x0000000000000000 0x00000000203d2843 540876867 2.672287E-31

0x0000000000000010 0xffffffffffffff 1 NOT A FL

0x0000000000000020 0xffffffffffffff -2 NOT A FL

Refresh HEX INT FLP Regs Refresh HEX INT FLP TXT Memory Clear Execution Cancel Enter INP

RVS (RISC-V Visual Simulator) v0.39

File Fname: /eecs/home/meet2610/Desktop/eecs2021/Lab3/Lab3Part3.a

ORG 0

s: DM 0

p5: DC "A = "

p6: DC "B = "

p7: DC "C = "

DD -1, -2

ld x2, x0, p5

ecall x3, x2, 5

ld x2, x0, p6

ecall x4, x2, 5

ld x2, x0, p7

ecall x5, x2, 5

addi x9, x0, 5

beq x5, x9, AND

beq x0, x0, ELSE

AND: blt x4, x3, IF

beq x0, x0, ELSE

IF: addi x10, x0, 1

addi x11, x0, 2

beq x0, x0, Exit

Compile BIN HEX INT TXT Source InitPC 0x0000000000000070 START Stop Run Next TXT Listing

zero 0x0000000000000000 0

x1 ra 0x0000000000000000 0

x2 sp 0x00000000203d2843 540876867

x3 gp 0x0000000000000000 18

x4 tp 0x0000000000000000 5

x5 t0 0x0000000000000005 5

x6 t1 0x0000000000000018 0x0000000000000001 1

x7 t2 0x0000000000000020 0x0000000000000002 2

x8 t3 0x0000000000000000 0

x9 t4 0x0000000000000001 1

x10 t5 0x0000000000000001 1

x11 t6 0x0000000000000002 2

x12 t7 0x0000000000000000 0

x13 t8 0x0000000000000000 0

x14 t9 0x0000000000000000 0

x15 t10 0x0000000000000000 0

x16 t11 0x0000000000000000 0

x17 t12 0x0000000000000000 0

x18 t13 0x0000000000000000 0

x19 t14 0x0000000000000000 0

x20 t15 0x0000000000000000 0

x21 t16 0x0000000000000000 0

x22 t17 0x0000000000000000 0

x23 t18 0x0000000000000000 0

x24 t19 0x0000000000000000 0

x25 t20 0x0000000000000000 0

x26 t21 0x0000000000000000 0

x27 t22 0x0000000000000000 0

x28 t23 0x0000000000000000 0

x29 t24 0x0000000000000000 0

x30 t25 0x0000000000000000 0

ADDRESS HEXADECIMAL INTEGER FLOAT

0x0000000000000000 0x00000000203d2841 540876865 2.672287E-31

0x0000000000000008 0x00000000203d2842 540876866 2.672287E-31

0x0000000000000010 0x00000000203d2843 540876867 2.672287E-31

0x0000000000000018 0x0000000000000001 1 4.940656E-32

0x0000000000000020 0x0000000000000002 2 9.881313E-32

0x0000000000000000 0x0000000000000000 0

0x0000000000000001 0x0000000000000001 1

0x0000000000000002 0x0000000000000002 2

0x0000000000000003 0x0000000000000003 3

0x0000000000000004 0x0000000000000004 4

0x0000000000000005 0x0000000000000005 5

0x0000000000000006 0x0000000000000006 6

0x0000000000000007 0x0000000000000007 7

0x0000000000000008 0x0000000000000008 8

0x0000000000000009 0x0000000000000009 9

0x000000000000000a 0x000000000000000a 10

0x000000000000000b 0x000000000000000b 11

0x000000000000000c 0x000000000000000c 12

0x000000000000000d 0x000000000000000d 13

0x000000000000000e 0x000000000000000e 14

0x000000000000000f 0x000000000000000f 15

0x0000000000000010 0x0000000000000010 16

0x0000000000000011 0x0000000000000011 17

0x0000000000000012 0x0000000000000012 18

0x0000000000000013 0x0000000000000013 19

0x0000000000000014 0x0000000000000014 20

0x0000000000000015 0x0000000000000015 21

0x0000000000000016 0x0000000000000016 22

0x0000000000000017 0x0000000000000017 23

0x0000000000000018 0x0000000000000018 24

0x0000000000000019 0x0000000000000019 25

0x000000000000001a 0x000000000000001a 26

0x000000000000001b 0x000000000000001b 27

0x000000000000001c 0x000000000000001c 28

0x000000000000001d 0x000000000000001d 29

0x000000000000001e 0x000000000000001e 30

0x000000000000001f 0x000000000000001f 31

0x0000000000000020 0x0000000000000020 32

0x0000000000000021 0x0000000000000021 33

0x0000000000000022 0x0000000000000022 34

0x0000000000000023 0x0000000000000023 35

0x0000000000000024 0x0000000000000024 36

0x0000000000000025 0x0000000000000025 37

0x0000000000000026 0x0000000000000026 38

0x0000000000000027 0x0000000000000027 39

0x0000000000000028 0x0000000000000028 40

0x0000000000000029 0x0000000000000029 41

0x000000000000002a 0x000000000000002a 42

0x000000000000002b 0x000000000000002b 43

0x000000000000002c 0x000000000000002c 44

0x000000000000002d 0x000000000000002d 45

0x000000000000002e 0x000000000000002e 46

0x000000000000002f 0x000000000000002f 47

0x0000000000000030 0x0000000000000030 48

0x0000000000000031 0x0000000000000031 49

0x0000000000000032 0x0000000000000032 50

0x0000000000000033 0x0000000000000033 51

0x0000000000000034 0x0000000000000034 52

0x0000000000000035 0x0000000000000035 53

0x0000000000000036 0x0000000000000036 54

0x0000000000000037 0x0000000000000037 55

0x0000000000000038 0x0000000000000038 56

0x0000000000000039 0x0000000000000039 57

0x000000000000003a 0x000000000000003a 58

0x000000000000003b 0x000000000000003b 59

0x000000000000003c 0x000000000000003c 60

0x000000000000003d 0x000000000000003d 61

0x000000000000003e 0x000000000000003e 62

0x000000000000003f 0x000000000000003f 63

0x0000000000000040 0x0000000000000040 64

0x0000000000000041 0x0000000000000041 65

0x0000000000000042 0x0000000000000042 66

0x0000000000000043 0x0000000000000043 67

0x0000000000000044 0x0000000000000044 68

0x0000000000000045 0x0000000000000045 69

0x0000000000000046 0x0000000000000046 70

0x0000000000000047 0x0000000000000047 71

0x0000000000000048 0x0000000000000048 72

0x0000000000000049 0x0000000000000049 73

0x000000000000004a 0x000000000000004a 74

0x000000000000004b 0x000000000000004b 75

0x000000000000004c 0x000000000000004c 76

0x000000000000004d 0x000000000000004d 77

0x000000000000004e 0x000000000000004e 78

0x000000000000004f 0x000000000000004f 79

0x0000000000000050 0x0000000000000050 80

0x0000000000000051 0x0000000000000051 81

0x0000000000000052 0x0000000000000052 82

0x0000000000000053 0x0000000000000053 83

0x0000000000000054 0x0000000000000054 84

0x0000000000000055 0x0000000000000055 85

0x0000000000000056 0x0000000000000056 86

0x0000000000000057 0x0000000000000057 87

0x0000000000000058 0x0000000000000058 88

0x0000000000000059 0x0000000000000059 89

0x000000000000005a 0x000000000000005a 90

0x000000000000005b 0x000000000000005b 91

0x000000000000005c 0x000000000000005c 92

0x000000000000005d 0x000000000000005d 93

0x000000000000005e 0x000000000000005e 94

0x000000000000005f 0x000000000000005f 95

0x0000000000000060 0x0000000000000060 96

0x0000000000000061 0x0000000000000061 97

0x0000000000000062 0x0000000000000062 98

0x0000000000000063 0x0000000000000063 99

0x0000000000000064 0x0000000000000064 100

0x0000000000000065 0x0000000000000065 101

0x0000000000000066 0x0000000000000066 102

0x0000000000000067 0x0000000000000067 103

0x0000000000000068 0x0000000000000068 104

0x0000000000000069 0x0000000000000069 105

0x000000000000006a 0x000000000000006a 106

0x000000000000006b 0x000000000000006b 107

0x000000000000006c 0x000000000000006c 108

0x000000000000006d 0x000000000000006d 109

0x000000000000006e 0x000000000000006e 110

0x000000000000006f 0x000000000000006f 111

0x0000000000000070 0x0000000000000070 112

0x0000000000000071 0x0000000000000071 113

0x0000000000000072 0x0000000000000072 114

0x0000000000000073 0x0000000000000073 115

0x0000000000000074 0x0000000000000074 116

0x0000000000000075 0x0000000000000075 117

0x0000000000000076 0x0000000000000076 118

0x0000000000000077 0x0000000000000077 119

0x0000000000000078 0x0000000000000078 120

0x0000000000000079 0x0000000000000079 121

0x000000000000007a 0x000000000000007a 122

0x000000000000007b 0x000000000000007b 123

0x000000000000007c 0x000000000000007c 124

0x000000000000007d 0x000000000000007d 125

0x000000000000007e 0x000000000000007e 126

0x000000000000007f 0x000000000000007f 127

0x0000000000000080 0x0000000000000080 128

0x0000000000000081 0x0000000000000081 129

0x0000000000000082 0x0000000000000082 130

0x0000000000000083 0x0000000000000083 131

0x0000000000000084 0x0000000000000084 132

0x0000000000000085 0x0000000000000085 133

0x0000000000000086 0x0000000000000086 134

0x0000000000000087 0x0000000000000087 135

0x0000000000000088 0x0000000000000088 136

0x0000000000000089 0x0000000000000089 137

0x000000000000008a 0x000000000000008a 138

0x000000000000008b 0x000000000000008b 139

0x000000000000008c 0x000000000000008c 140

0x000000000000008d 0x000000000000008d 141

0x000000000000008e 0x000000000000008e 142

0x000000000000008f 0x000000000000008f 143

0x0000000000000090 0x0000000000000090 144

0x0000000000000091 0x0000000000000091 145

0x0000000000000092 0x0000000000000092 146

0x0000000000000093 0x0000000000000093 147

0x0000000000000094 0x0000000000000094 148

0x0000000000000095 0x0000000000000095 149

0x0000000000000096 0x0000000000000096 150

0x0000000000000097 0x0000000000000097 151

0x0000000000000098 0x0000000000000098 152

0x0000000000000099 0x0000000000000099 153

0x000000000000009a 0x000000000000009a 154

0x000000000000009b 0x000000000000009b 155

0x000000000000009c 0x000000000000009c 156

0x000000000000009d 0x000000000000009d 157

0x000000000000009e 0x000000000000009e 158

0x000000000000009f 0x000000000000009f 159

0x00000000000000a0 0x00000000000000a0 160

0x00000000000000a1 0x00000000000000a1 161

0x00000000000000a2 0x00000000000000a2 162

0x00000000000000a3 0x00000000000000a3 163

0x00000000000000a4 0x00000000000000a4 164

0x00000000000000a5 0x00000000000000a5 165

0x00000000000000a6 0x00000000000000a6 166

0x00000000000000a7 0x00000000000000a7 167

0x00000000000000a8 0x00000000000000a8 168

0x00000000000000a9 0x00000000000000a9 169

0x00000000000000aa 0x00000000000000aa 170

0x00000000000000ab 0x00000000000000ab 171

0x00000000000000ac 0x00000000000000ac 172

0x00000000000000ad 0x00000000000000ad 173

0x00000000000000ae 0x00000000000000ae 174

0x00000000000000af 0x00000000000000af 175

0x00000000000000b0 0x00000000000000b0 176

0x00000000000000b1 0x00000000000000b1 177

0x00000000000000b2 0x00000000000000b2 178

0x00000000000000b3 0x00000000000000b3 179

0x00000000000000b4 0x00000000000000b4 180

0x00000000000000b5 0x00000000000000b5 181

0x00000000000000b6 0x00000000000000b6 182

0x00000000000000b7 0x00000000000000b7 183

0x00000000000000b8 0x00000000000000b8 184

0x00000000000000b9 0x00000000000000b9 185

0x00000000000000ba 0x00000000000000ba 186

0x00000000000000bb 0x00000000000000bb 187

0x00000000000000bc 0x00000000000000bc 188

0x00000000000000bd 0x00000000000000bd 189

0x00000000000000be 0x00000000000000be 190

0x00000000000000bf 0x00000000000000bf 191

0x00000000000000c0 0x00000000000000c0 192

0x00000000000000c1 0x00000000000000c1 193

0x00000000000000c2 0x00000000000000c2 194

0x00000000000000c3 0x00000000000000c3 195

0x00000000000000c4 0x00000000000000c4 196

0x00000000000000c5 0x00000000000000c5 197

0x00000000000000c6 0x00000000000000c6 198

0x00000000000000c7 0x00000000000000c7 199

0x00000000000000c