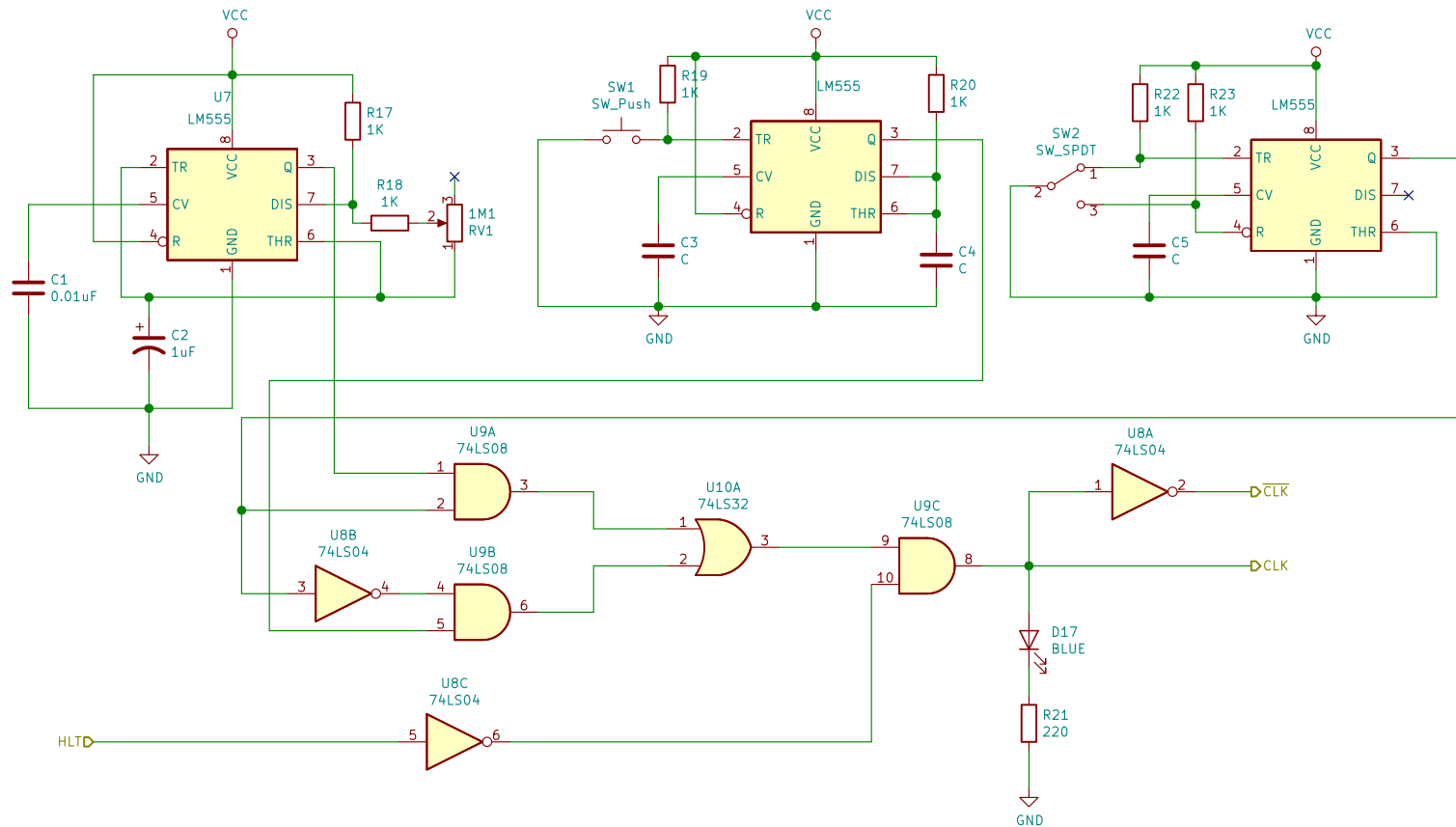


Rev: v1.1
Id: 3/26



Breadboard Computer Schematic
Computer Science 4

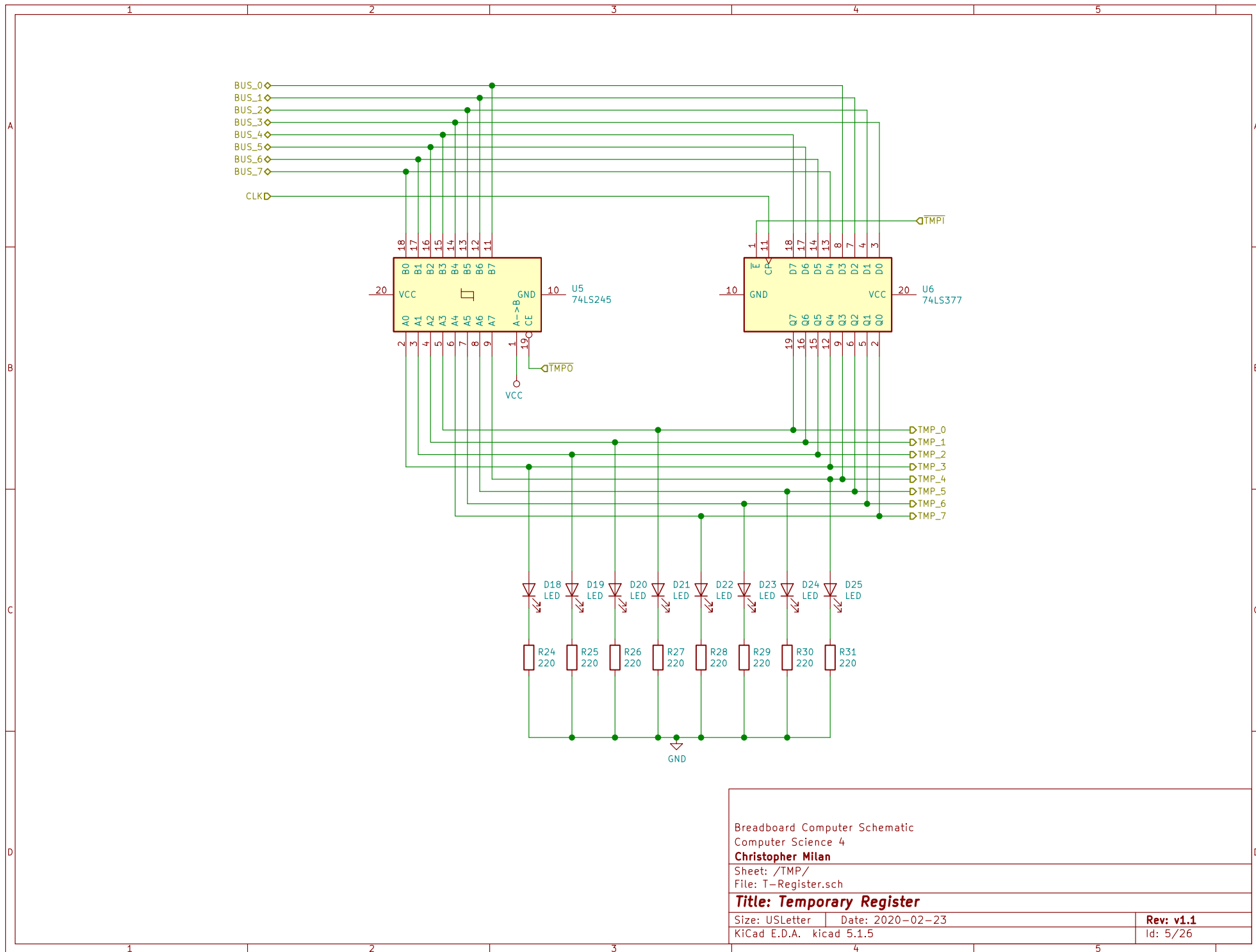
Christopher Milan

Sheet: /Clock/
File: clock.sch

Title: Clock

Size: USLetter Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 4/26



Breadboard Computer Schematic
Computer Science 4

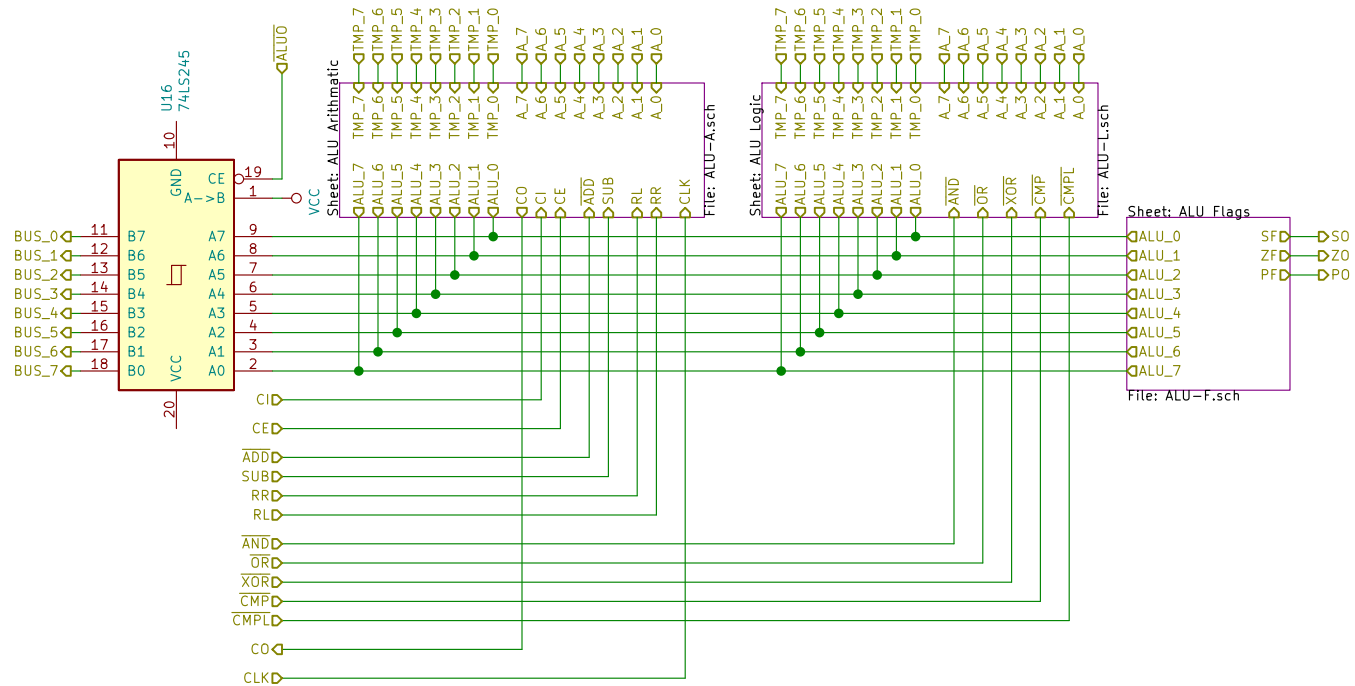
Christopher Milan

Sheet: /TMP/
File: T-Register.sch

Title: Temporary Register

Size: USLetter | Date: 2020-02-23
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Rev: v1.1
Id: 5/26



Breadboard Computer Schematic
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Sheet: /ALU/

File: ALU.sch

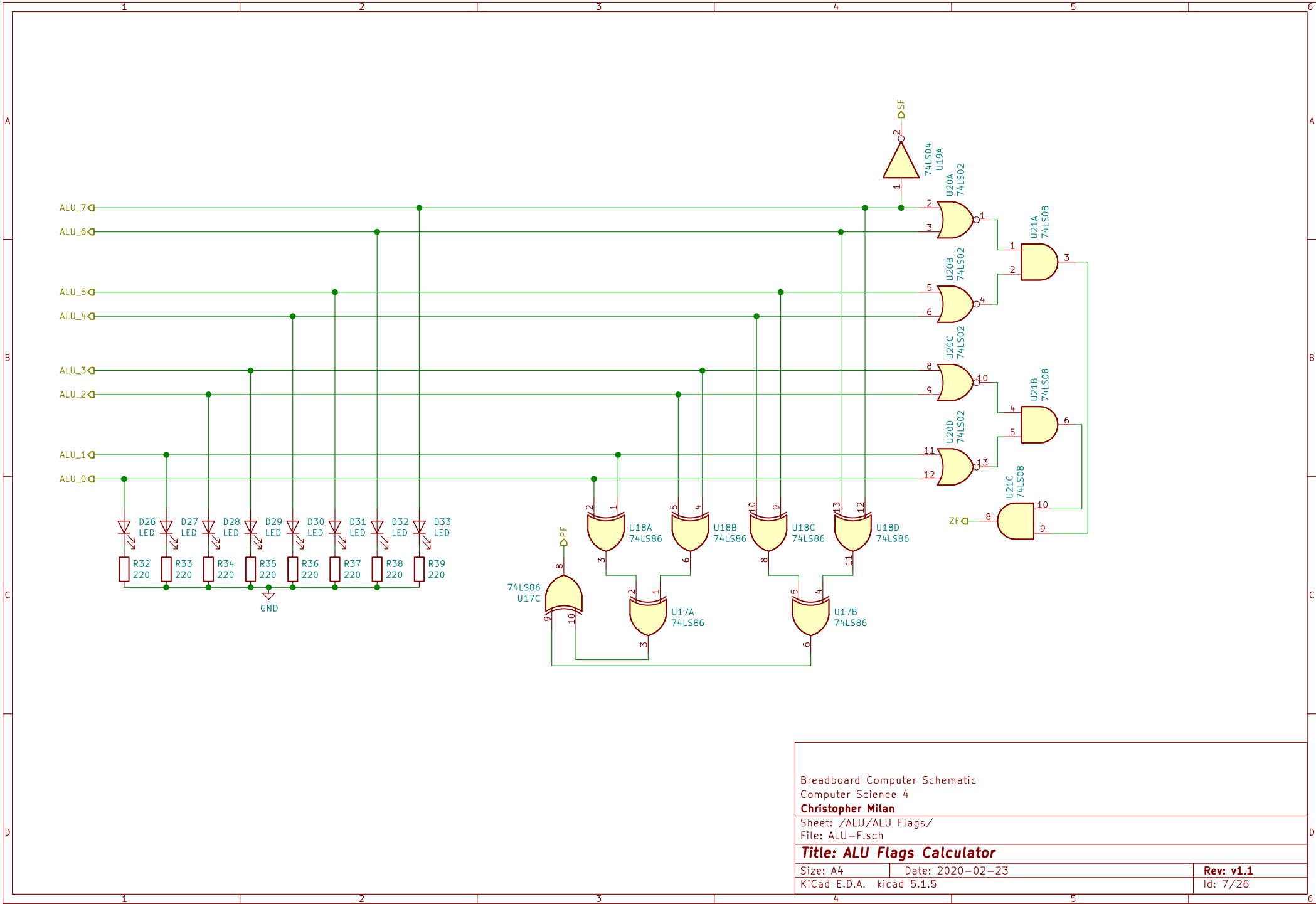
Title: Arithmetic Logic Unit

Size: USLetter Date: 2020-02-23

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Rev: v1.1

Id: 6/26



Breadboard Computer Schematic

Computer Science 4

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Sheet: /ALU/ALU Flags/

File: ALU-F.sch

Title: ALU Flags Calculator

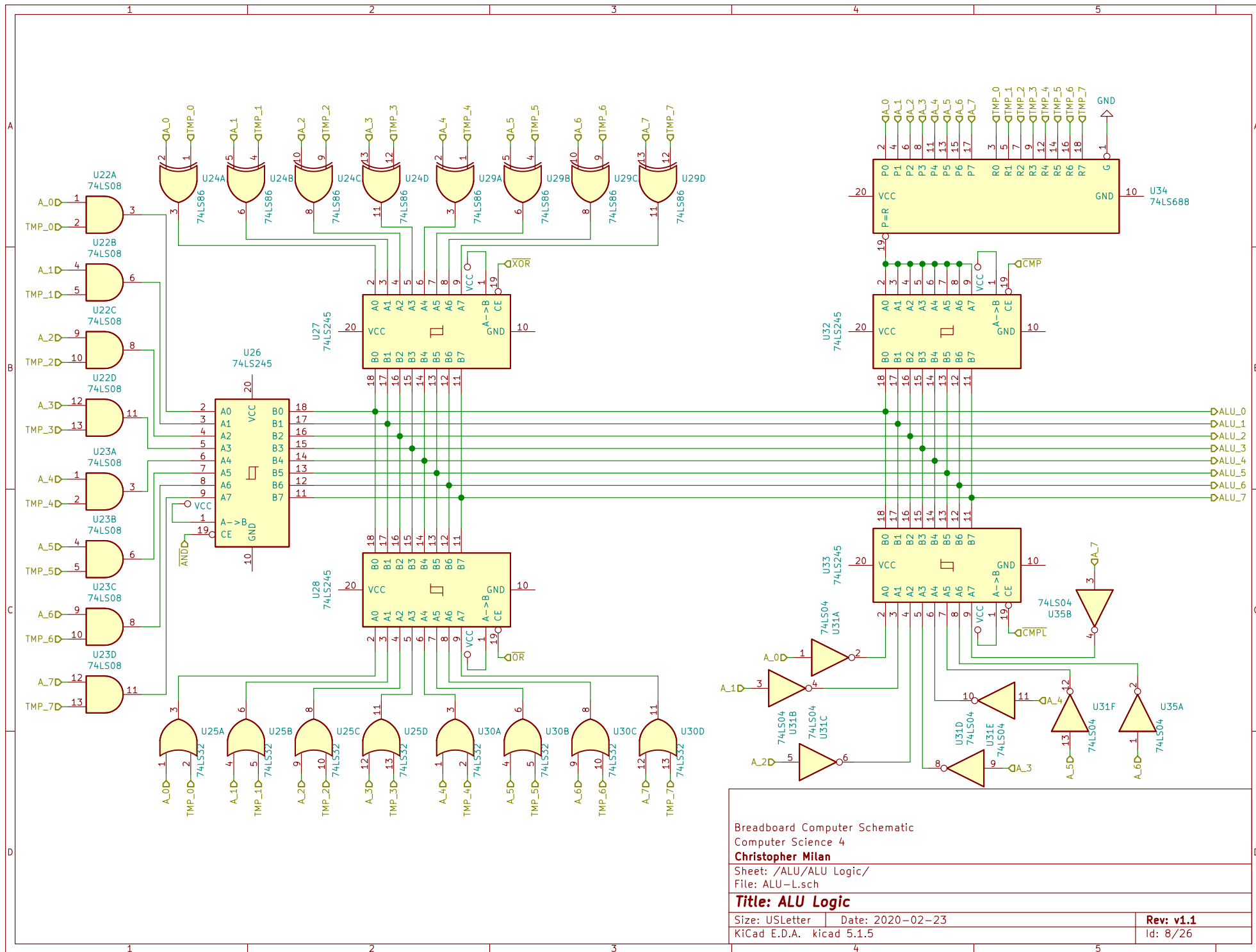
Size: A4

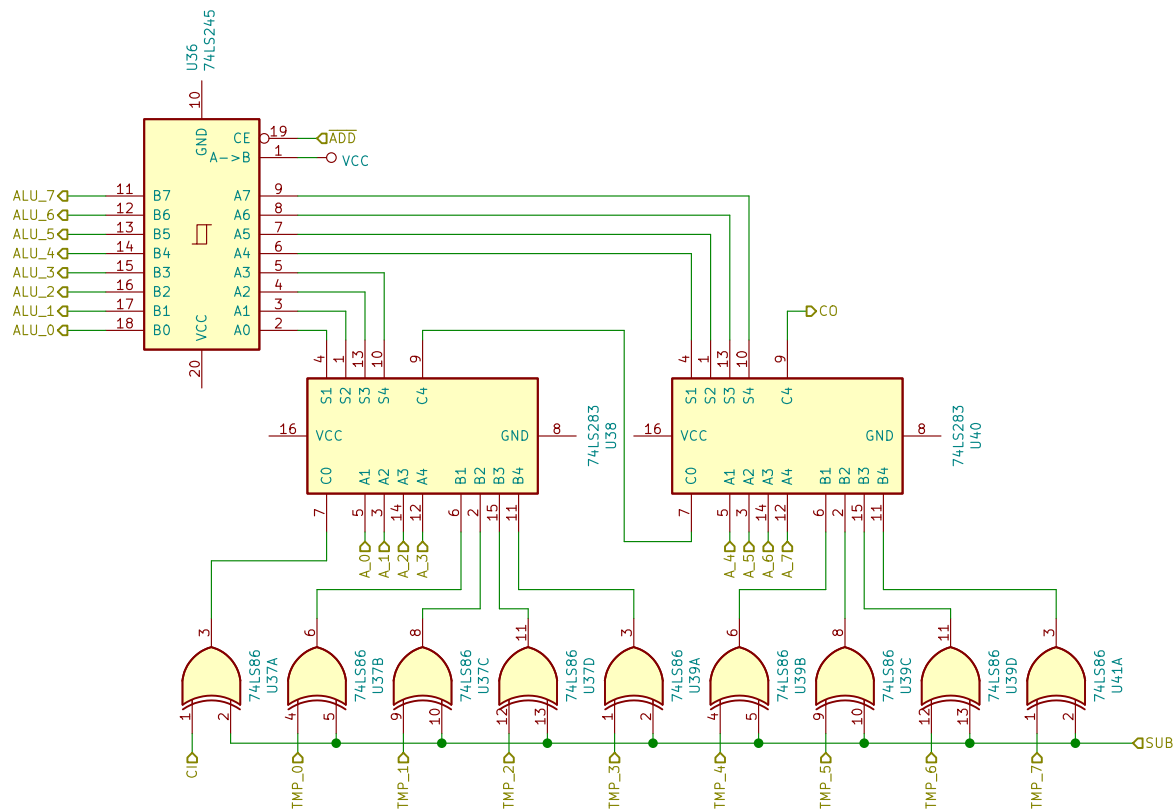
Date: 2020-02-23

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Rev: v1.1

Id: 7/26





Breadboard Computer Schematic
Computer Science 4

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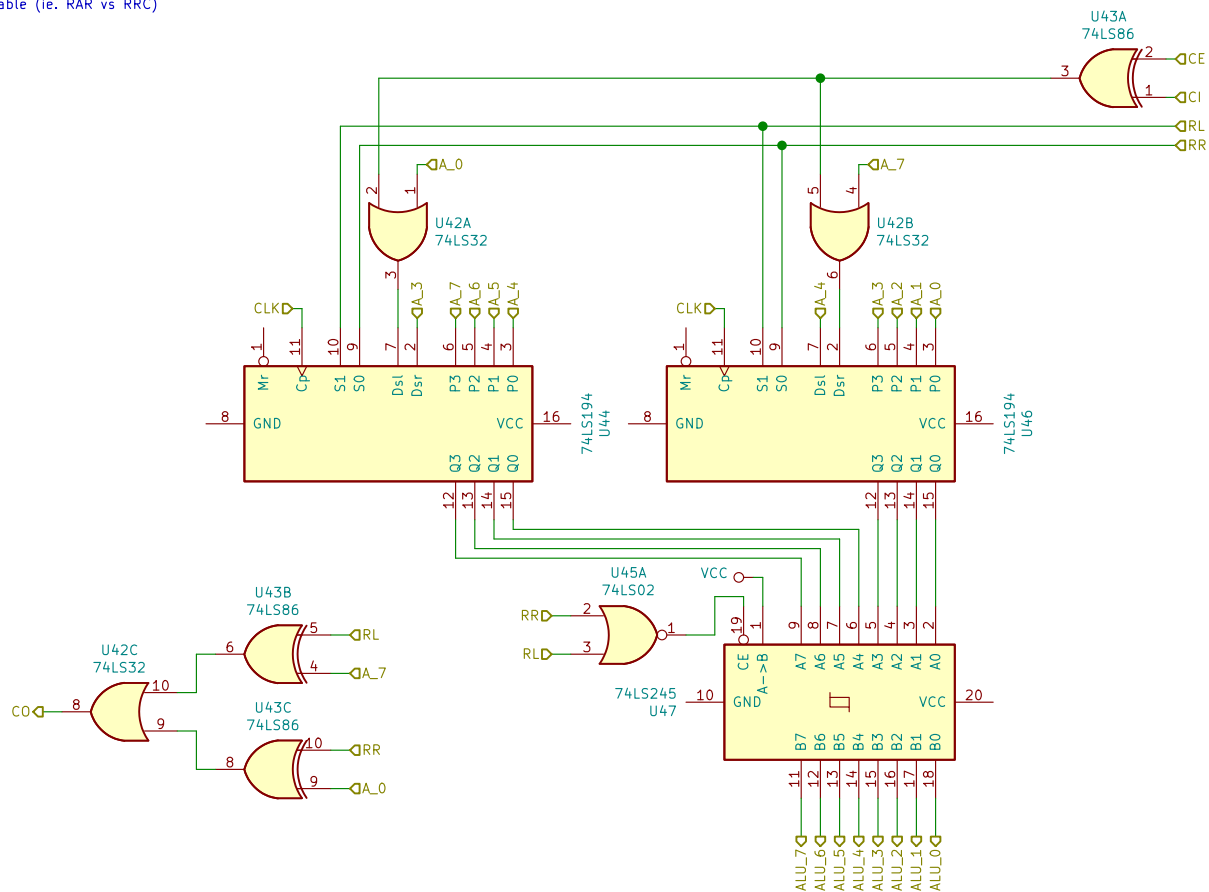
Sheet: /ALU/ALU Arithmetic/ALU Adder/Subtractor/
File: ALU-Add.sch

Title: ALU Adder/Subtractor

Size: USLetter Date: 2020-02-23
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Rev: v1.1
Id: 10/26

CI - Carry Flag In
CO - Carry Flag Out
CE - Carry Enable (ie. RAR vs RRC)



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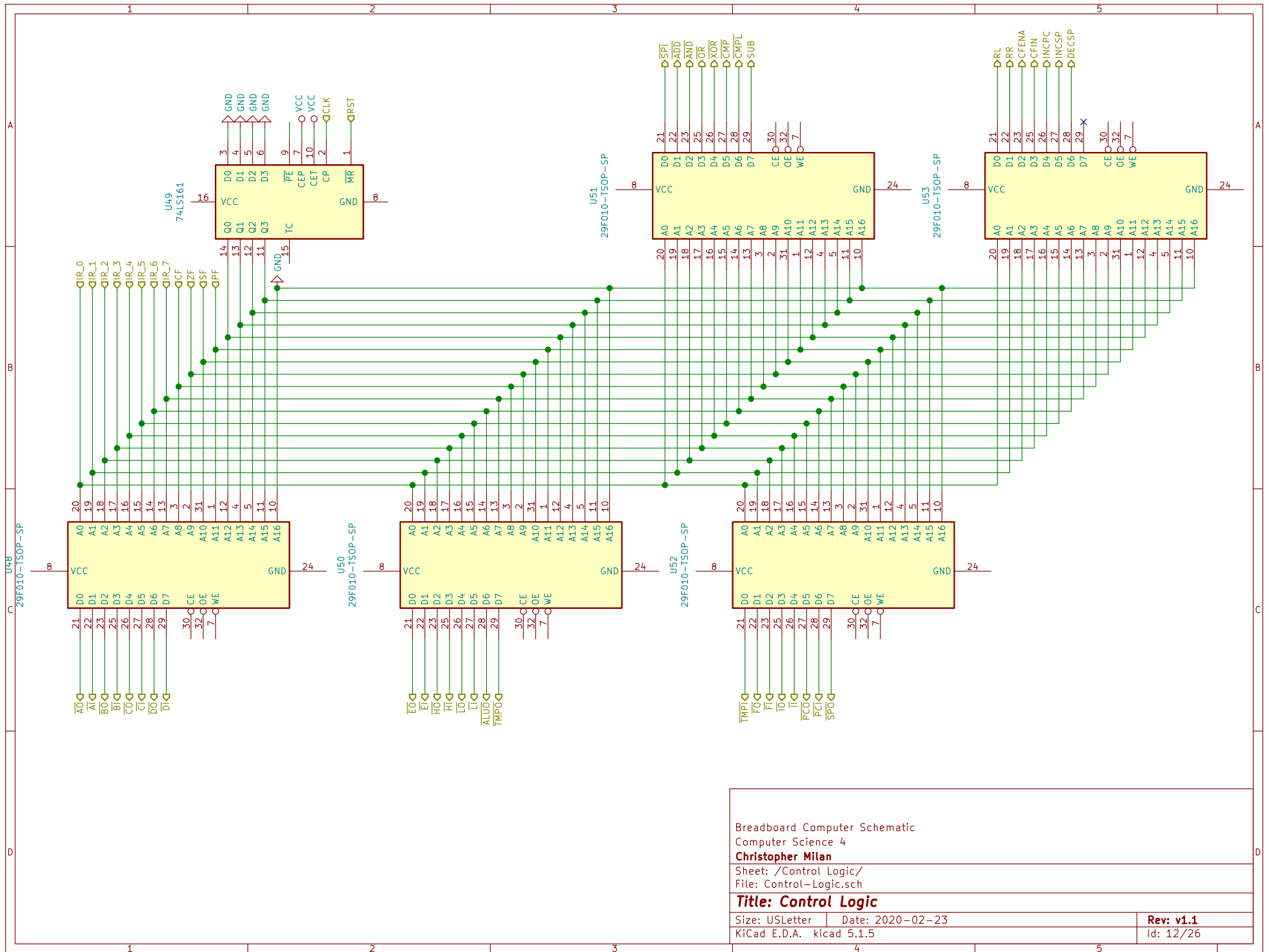
Christopher Milan

Sheet: /ALU/ALU Arithmetic/ALU Shifter/
File: ALU-Shift.sch

Title: ALU Shifter

Size: USLetter Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 11/26



Breadboard Computer Schematic
Computer Science 4

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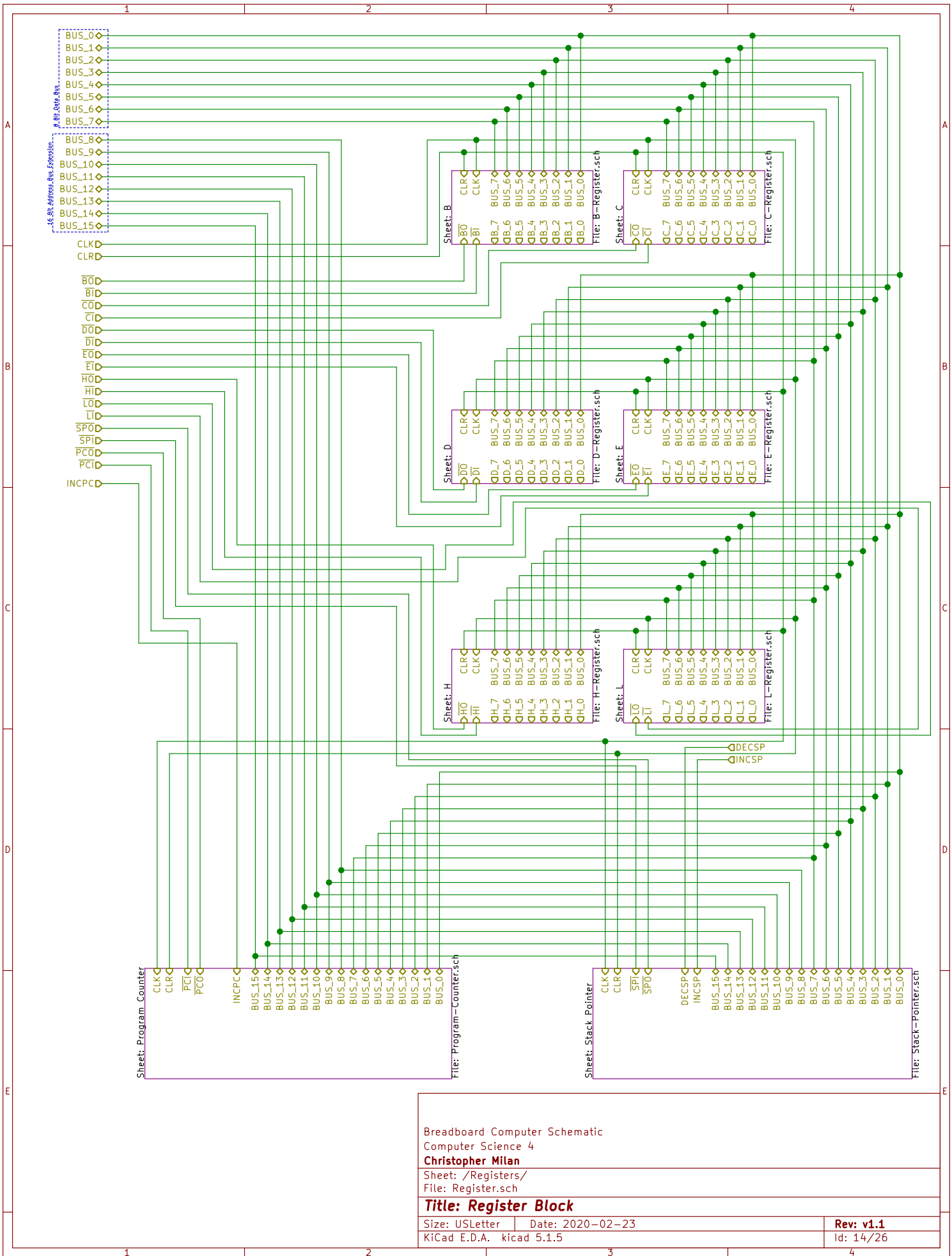
Sheet: /Control Logic/
File: Control-Logic.sch

Title: Control Logic

Size: USLetter | Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 12/26

Rev: v1.1
Id: 13/26

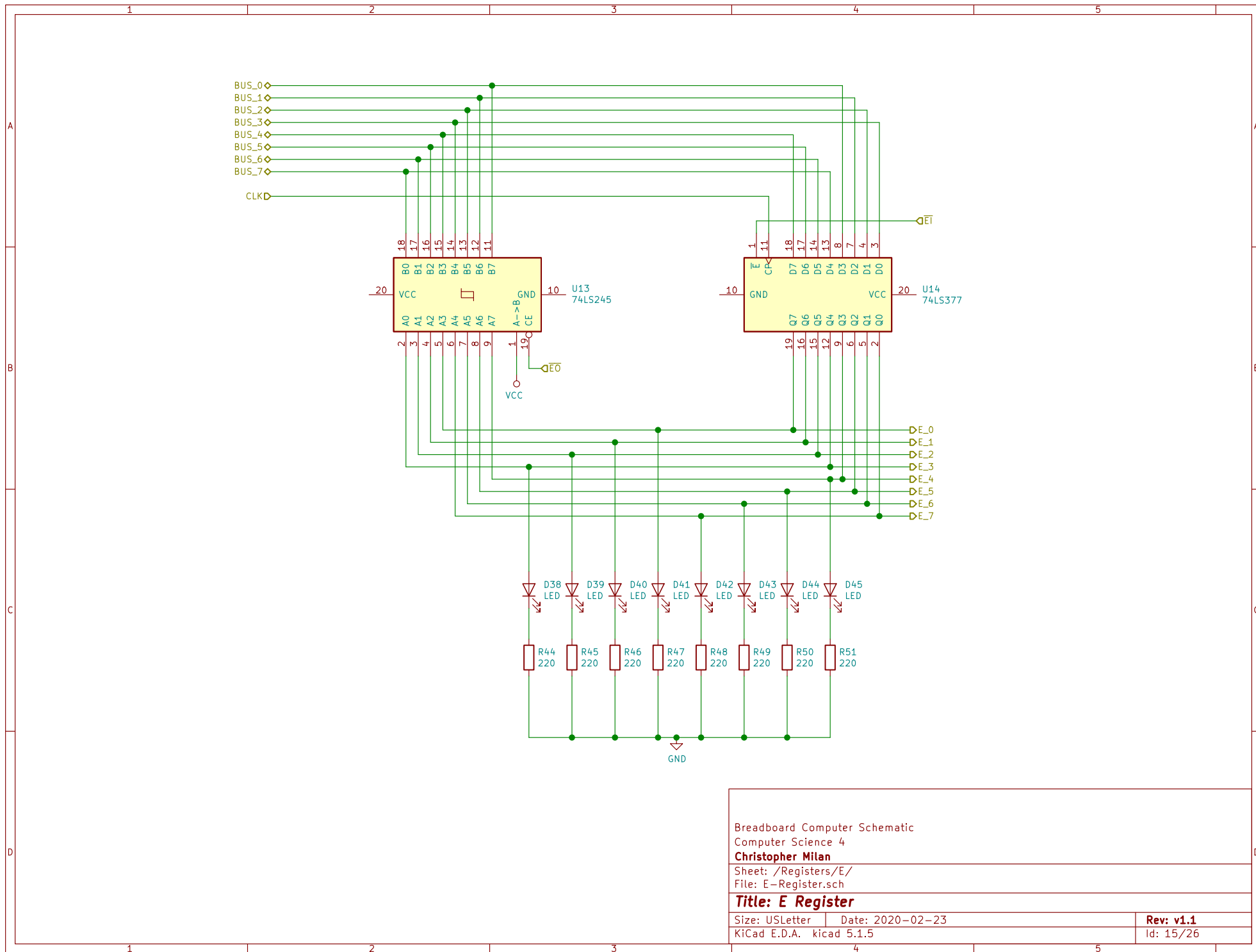


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Sheet: /Registers/
File: Register.sch

Title: Register Block

Size: USLetter | Date: 2020-02-23
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Rev: v1.1
Id: 14/26



Breadboard Computer Schematic
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Sheet: /Registers/E/
File: E-Register.sch

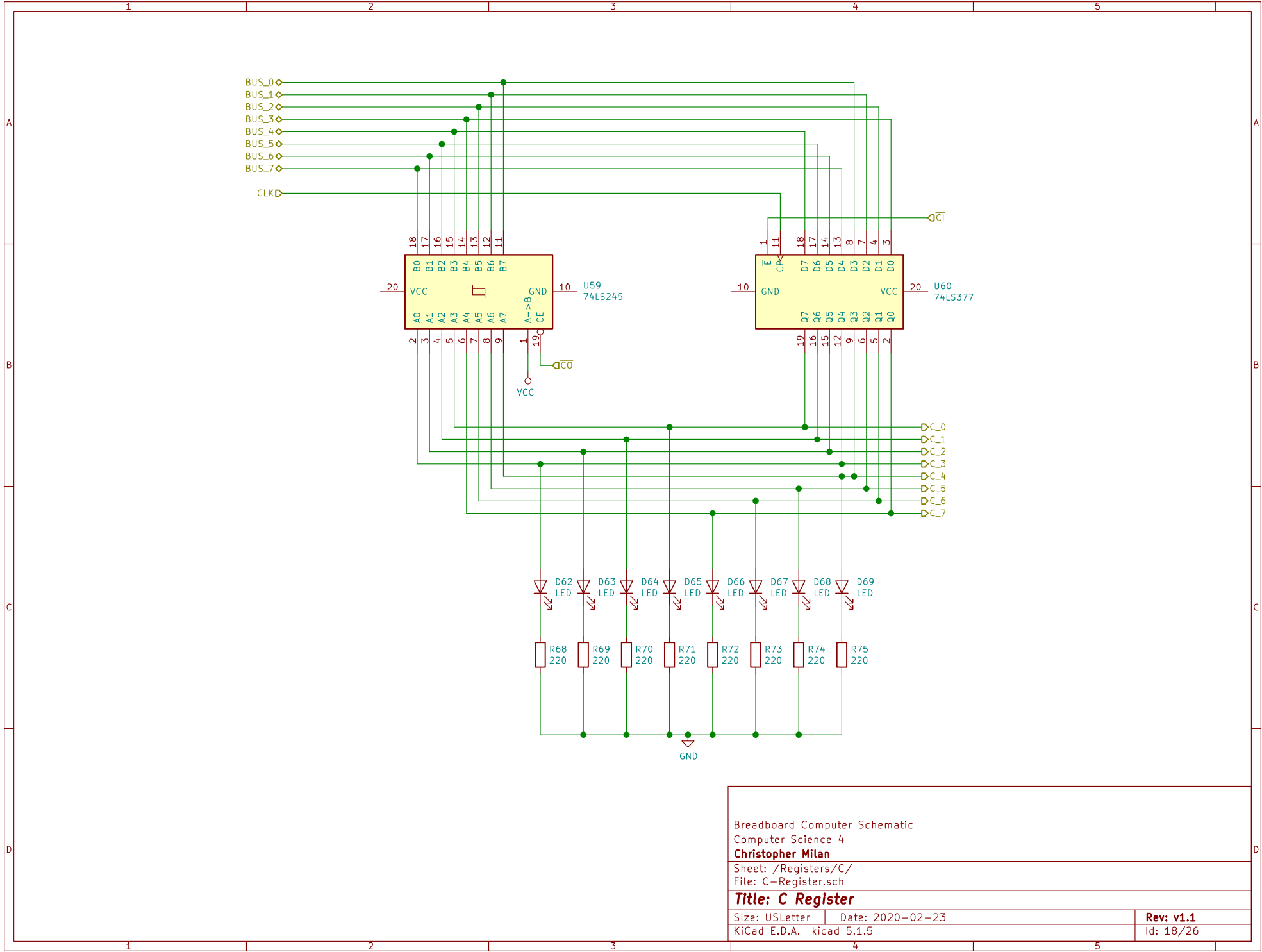
Title: E Register

Size: USLetter | Date: 2020-02-23
KiCad E.D.A. | kicad 5.1.5

Rev: v1.1
Id: 15/26

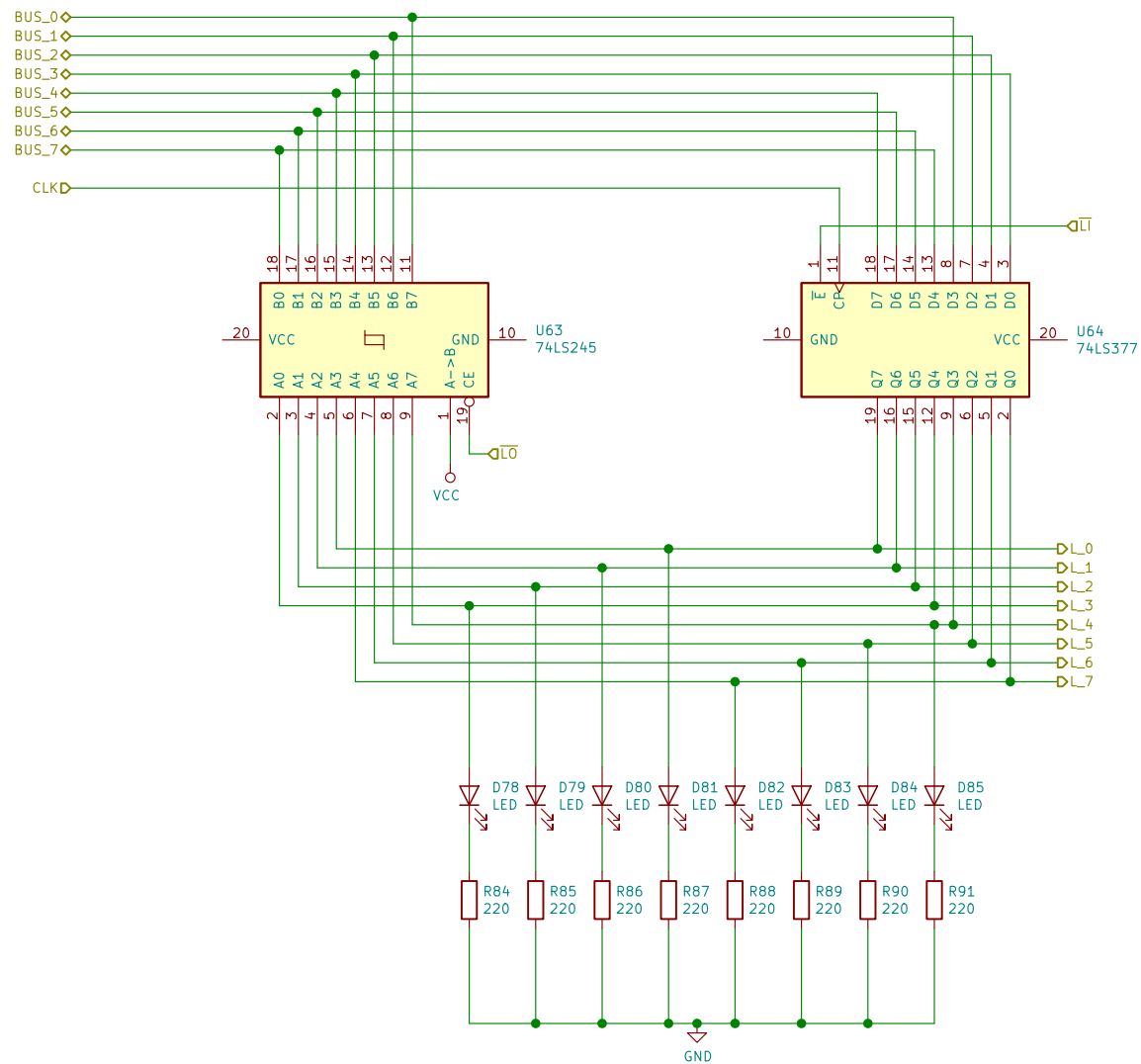
Rev: v1.1
Id: 16/26

Rev: v1.1
Id: 17/26



Rev: v1.1
Id: 18/26

Rev: v1.1
Id: 19/26



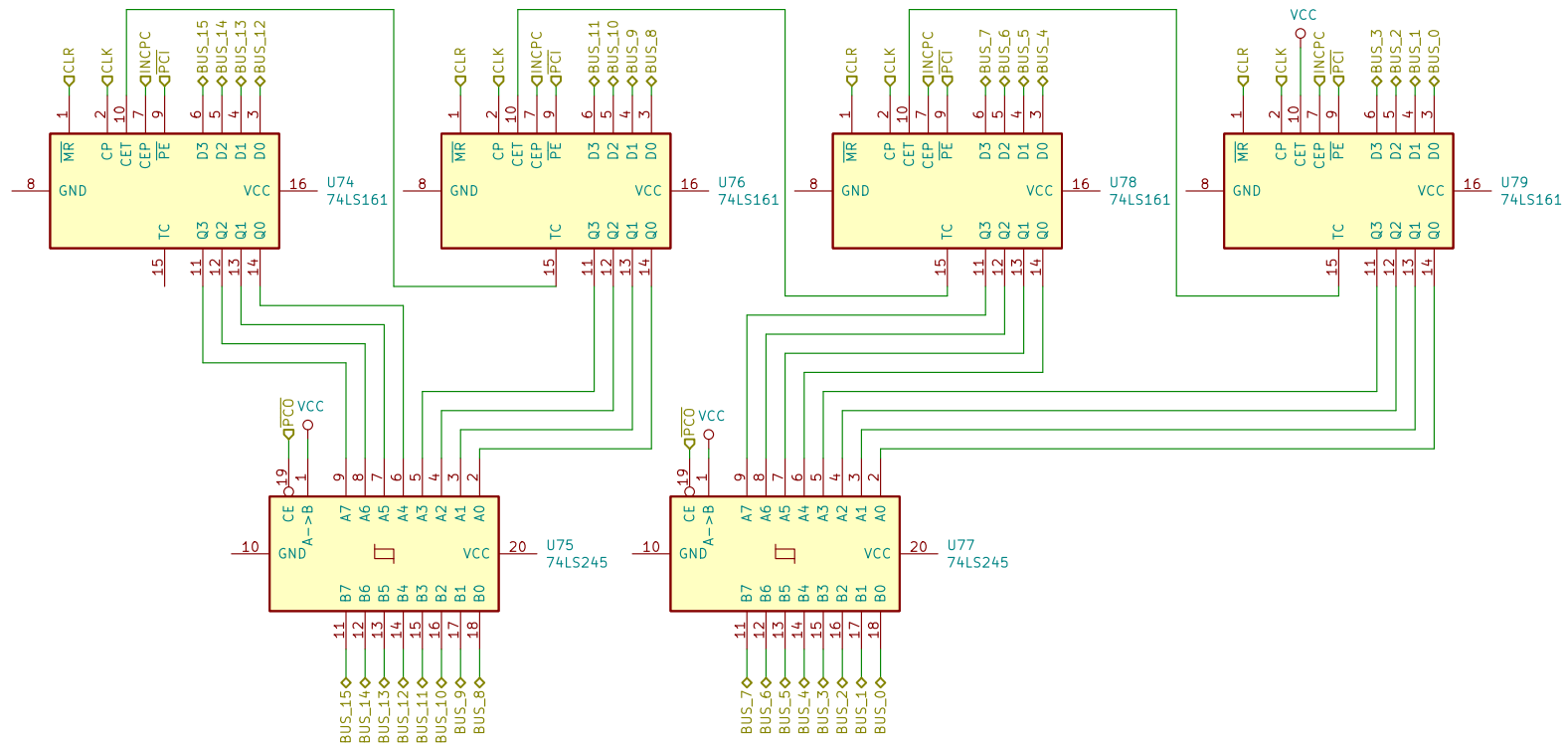
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Sheet: /Registers/L/
File: L-Register.sch

Title: L Register

Size: USLetter Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 20/26



Breadboard Computer Schematic
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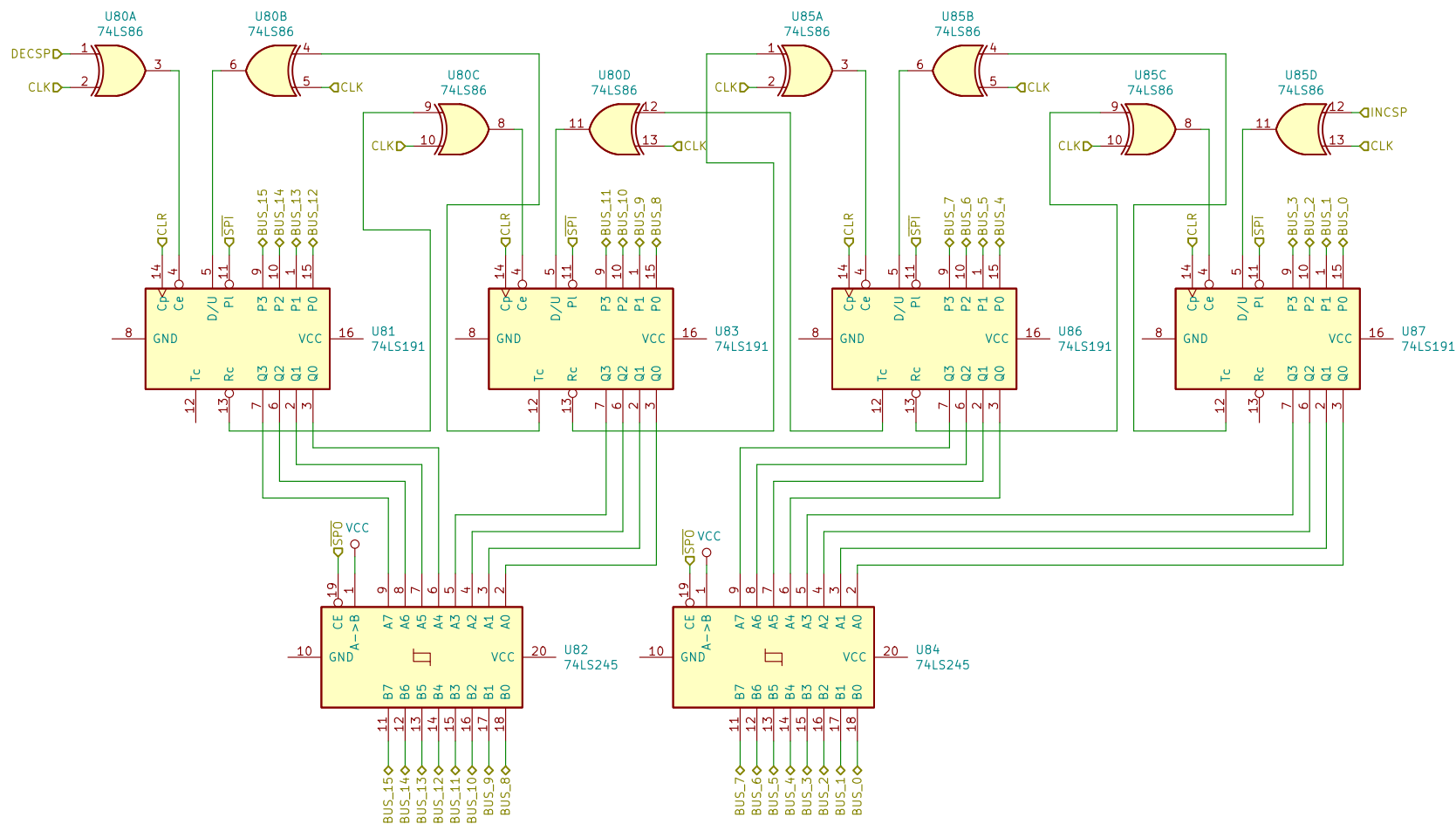
Christopher Milan

Sheet: /Registers/Program Counter/
File: Program-Counter.sch

Title: Program Counter

Size: USLetter Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 21/26



Breadboard Computer Schematic
Computer Science 4

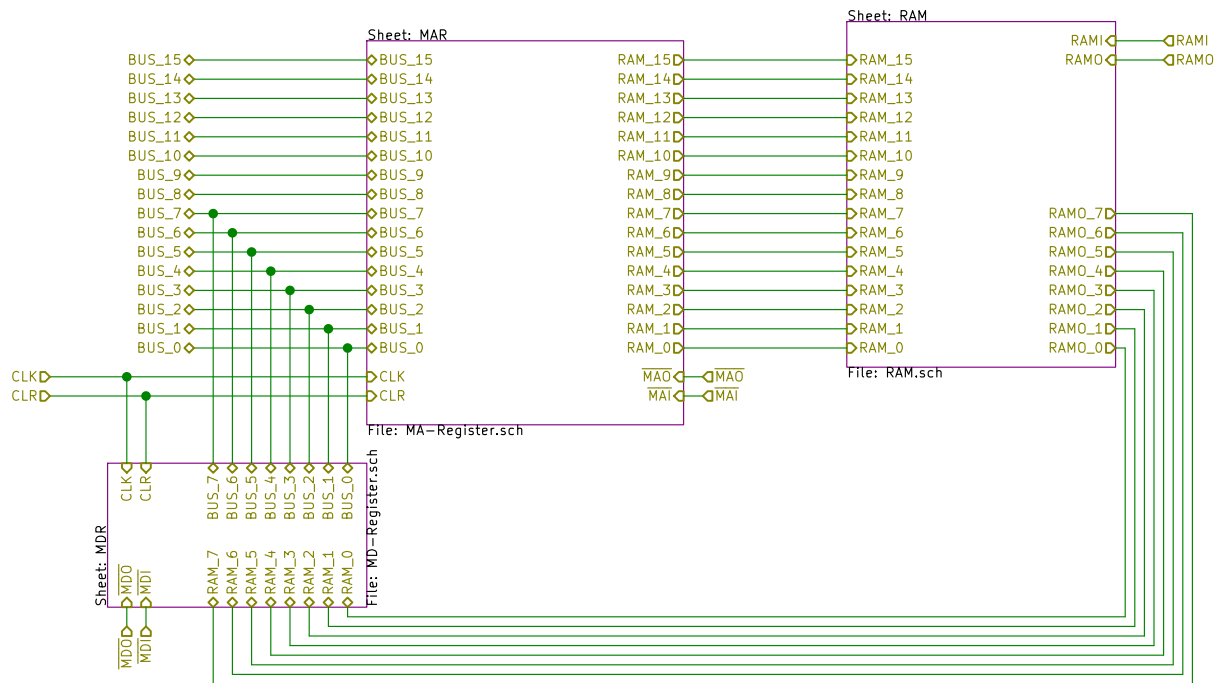
Christopher Milan

Sheet: /Registers/Stack Pointer/
File: Stack-Pointer.sch

Title: Stack Pointer

Size: USLetter Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 22/26



Breadboard Computer Schematic
Computer Science 4

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Sheet: /Memory/

File: Memory.sch

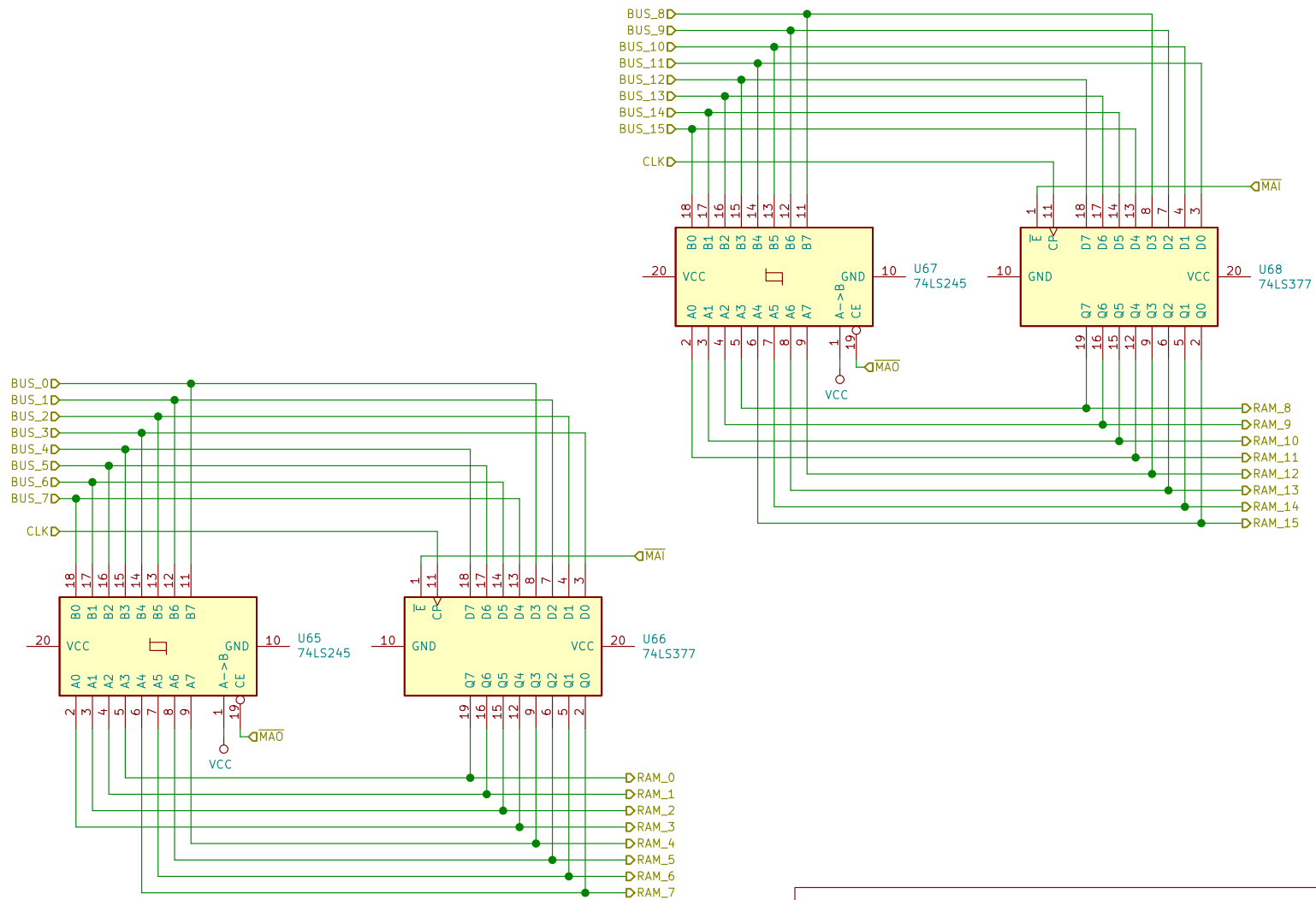
Title: Memory

Size: USLetter Date: 2020-02-23

KiCad E.D.A. kicad 5.1.5

Rev: v1.1

Id: 23/26



Breadboard Computer Schematic
Computer Science 4

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Sheet: /Memory/MAR/

File: MA-Register.sch

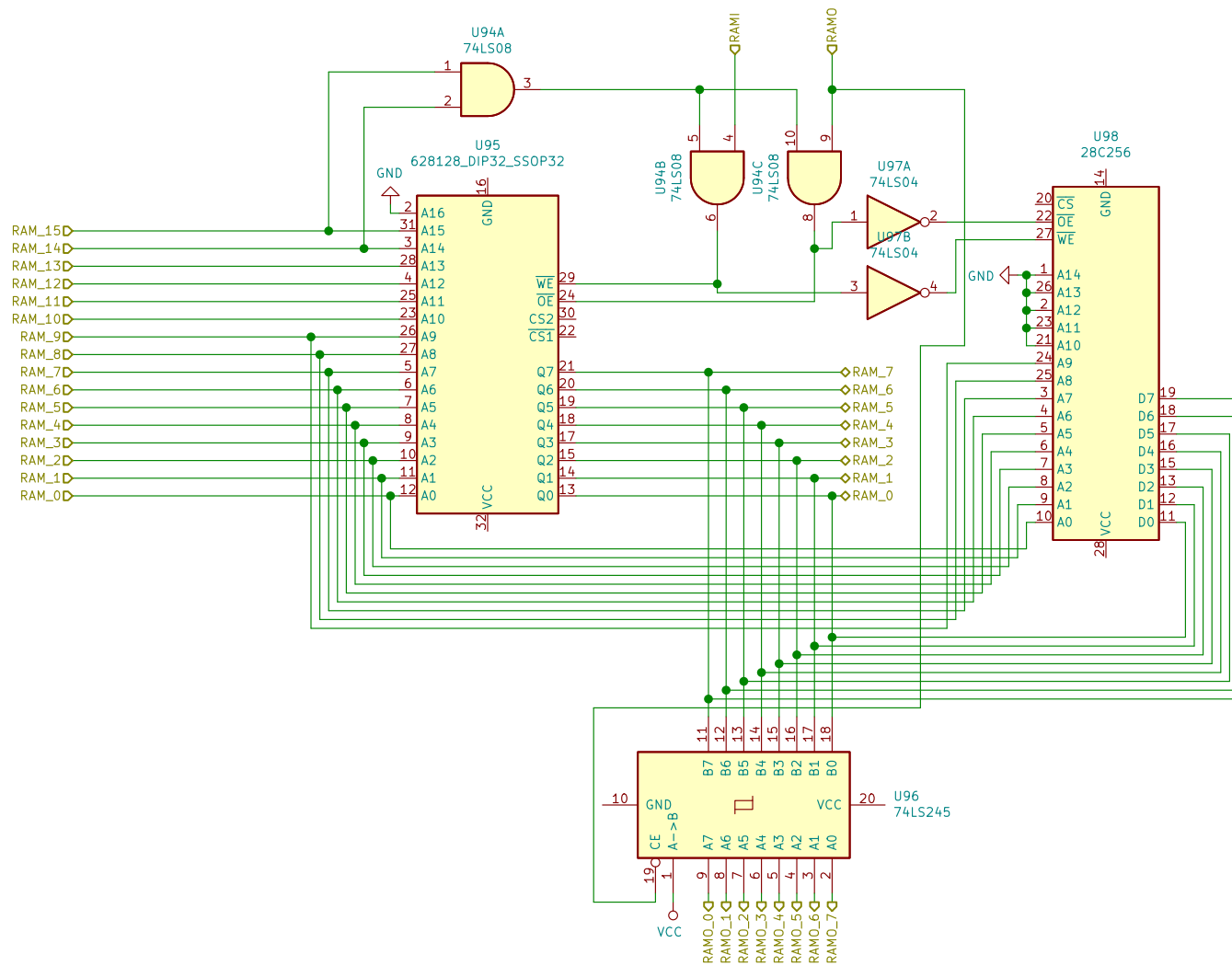
Title: Memory Address Register

Size: USLetter Date: 2020-02-23

KiCad E.D.A. kicad 5.1.5

Rev: v1.1

Id: 24/26



Breadboard Computer Schematic

Computer Science 4

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Sheet: /Memory/RAM/

File: RAM.sch

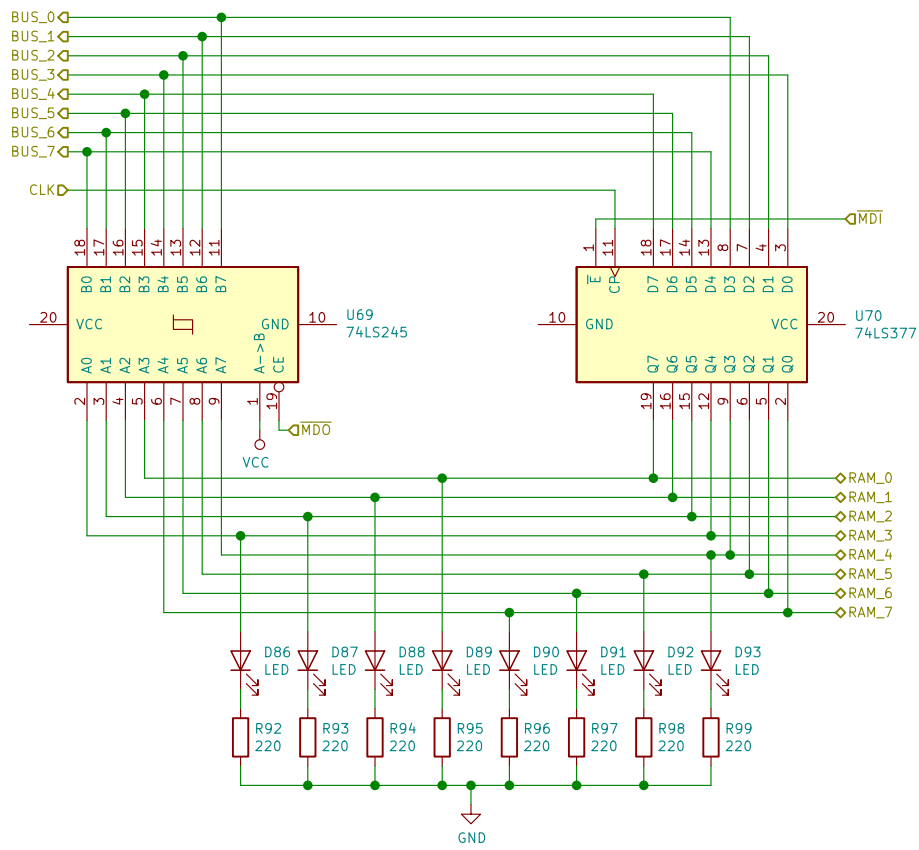
Title: Memory

Size: USLetter Date: 2020-02-23

KiCad E.D.A. kicad 5.1.5

Rev: v1.1

Id: 25/26



Breadboard Computer Schematic
Computer Science 4
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Sheet: /Memory/MDR/
File: MD-Register.sch

Title: Memory Data Register

Size: USLetter Date: 2020-02-23
KiCad E.D.A. kicad 5.1.5

Rev: v1.1
Id: 26/26