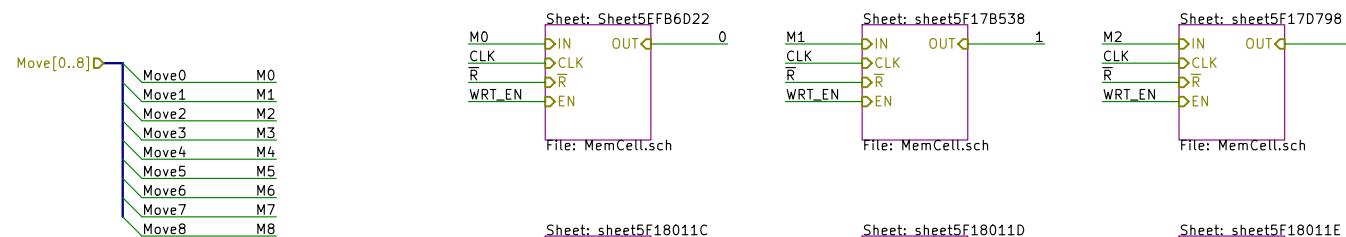
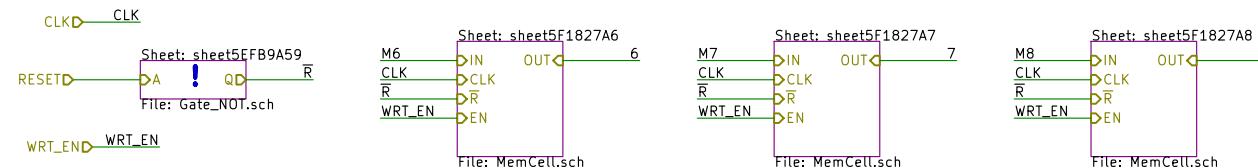


1 2 3 4 5 6

A

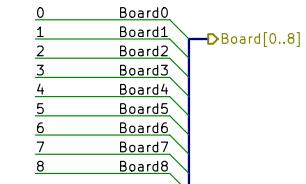


B



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D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/  
File: PlayerMem.sch

Title:

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 2/360

1 2 3 4 5 6

A

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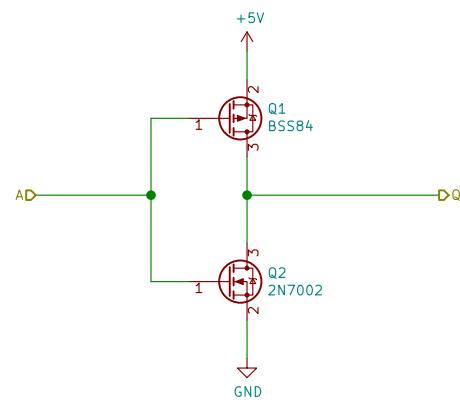
D

A

B

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D



c  
**Philipp Schilk**  
Sheet: /PlayerMem\_1/sheet5EFB9A59/  
File: Gate\_NOT.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 3/360

A

A

B

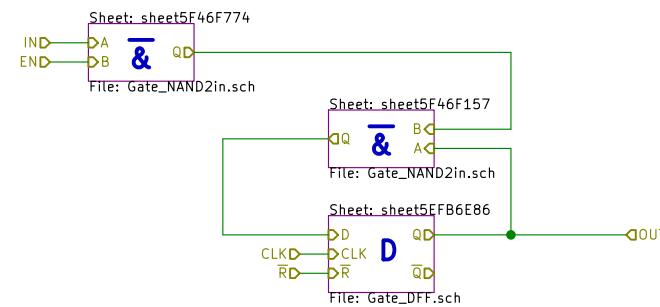
B

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D



c  
Philipp Schilk

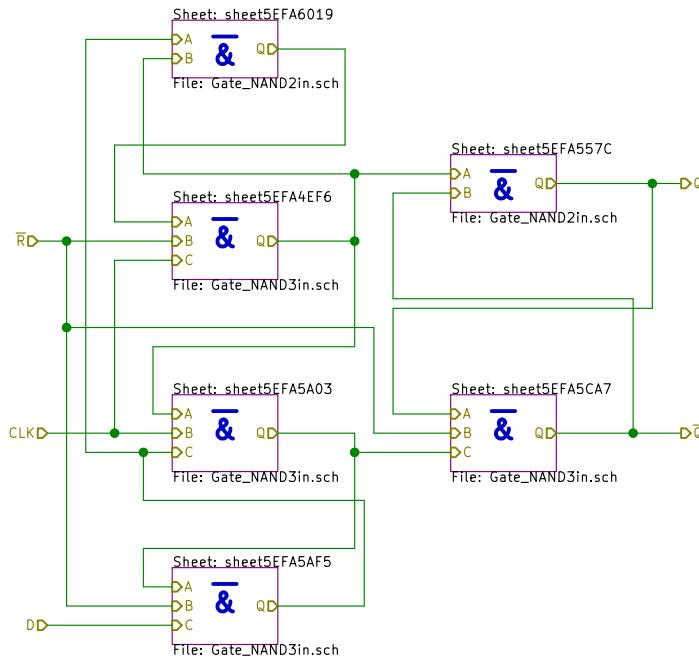
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 4/360

A



B

c  
Philipp Schilk

Sheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 5/360

A

A

B

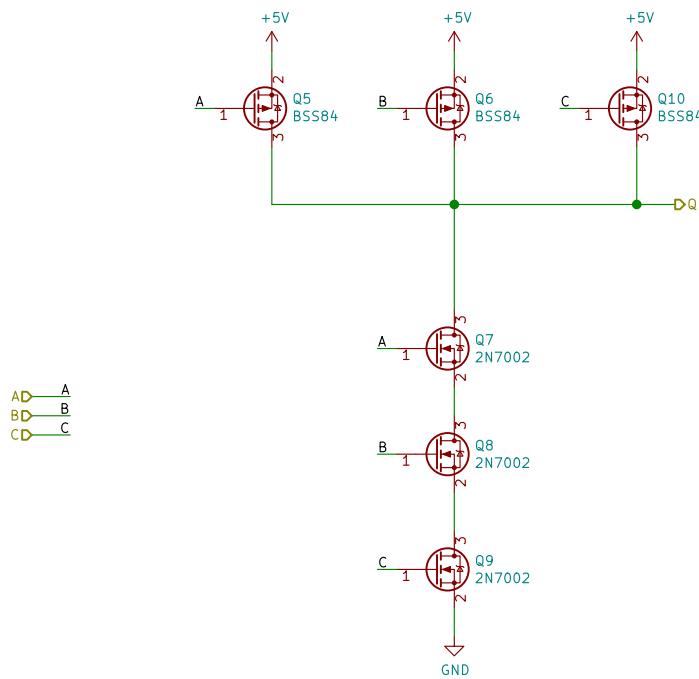
B

C

C

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D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

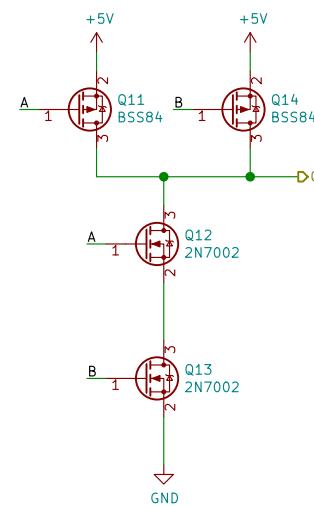
Rev: v0.0  
Id: 6/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 7/360

A

A

B

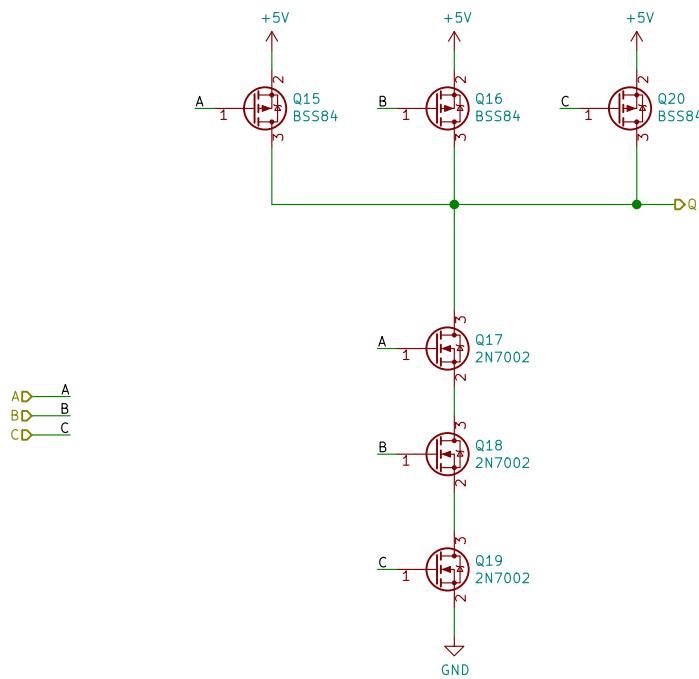
B

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c  
**Philipp Schilk**  
 Sheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA5A03/  
 File: Gate\_NAND3in.sch

**Title:**

Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	

Rev: v0.0
Id: 8/360

A

A

B

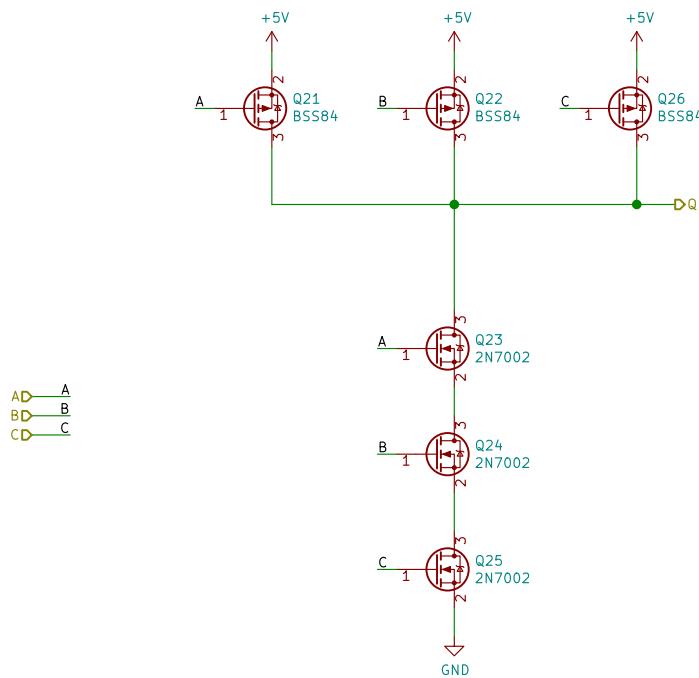
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 9/360

A

A

B

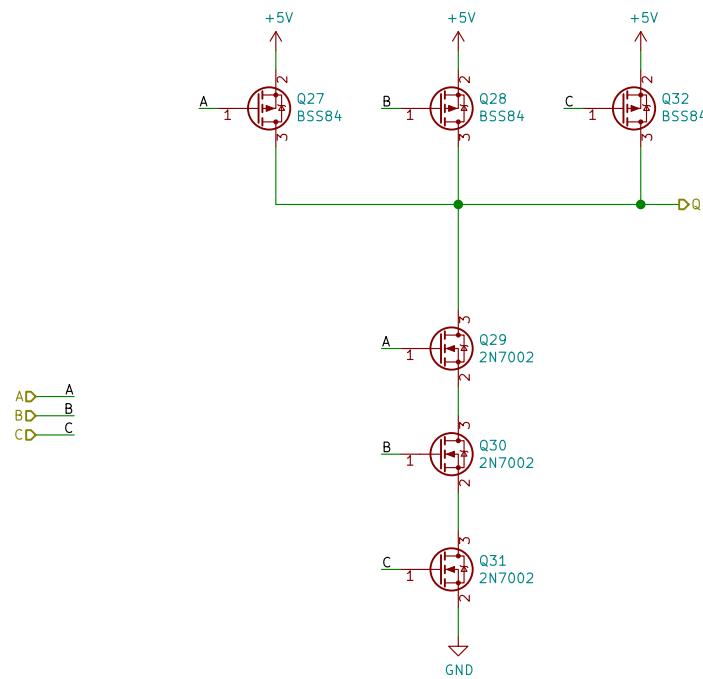
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA5CA7/  
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

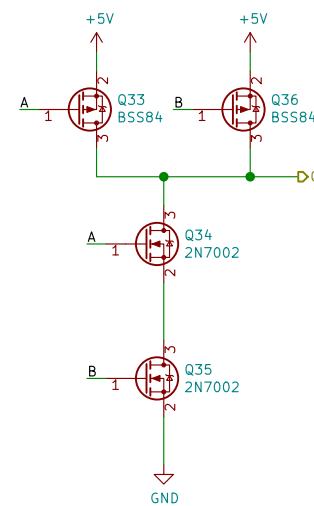
Rev: v0.0  
Id: 10/360

A

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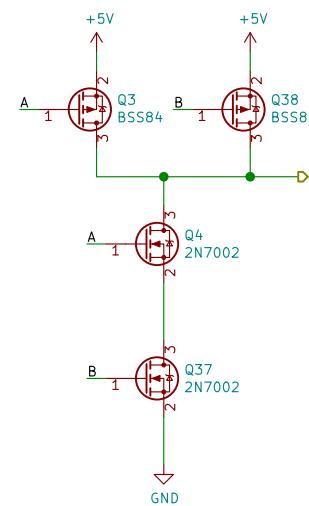
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
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Id: 11/360

A

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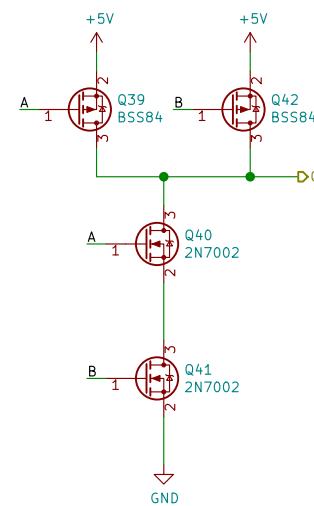
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 12/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/Sheet5EFB6D22/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 13/360

A

A

B

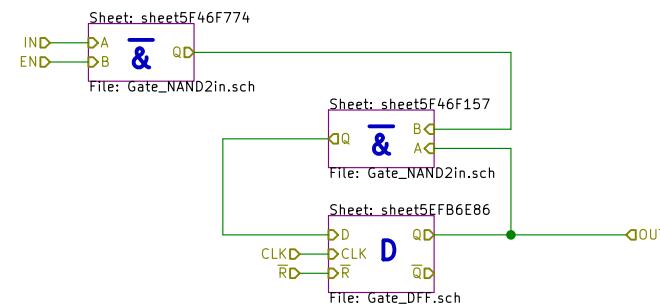
B

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c  
Philipp Schilk

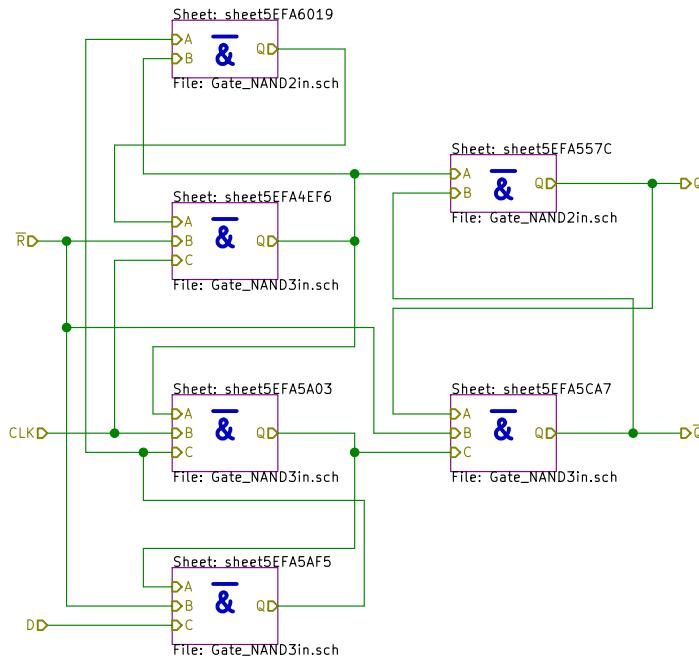
Sheet: /PlayerMem\_1/sheet5F17B538/  
File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 14/360

A



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Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 15/360

A

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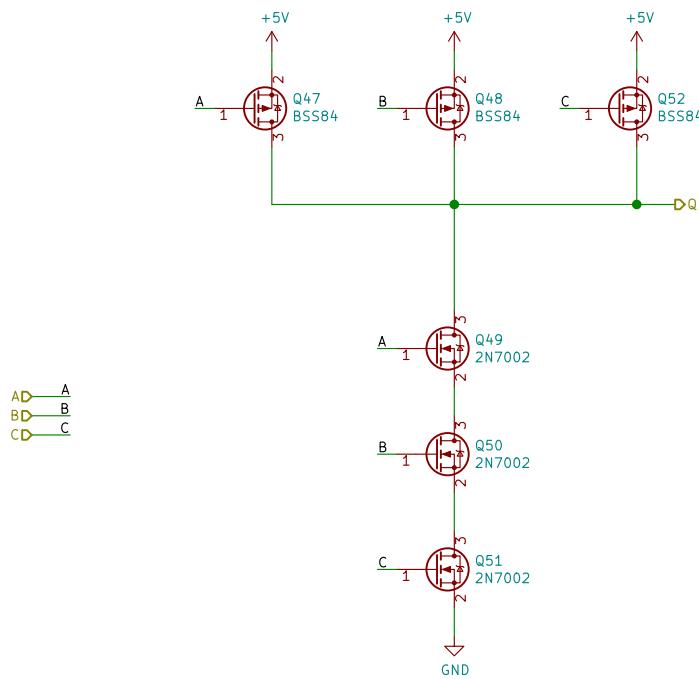
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

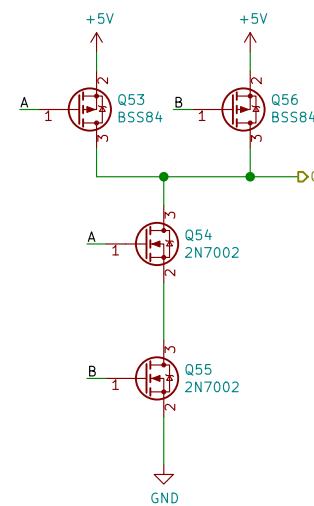
Rev: v0.0  
Id: 16/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 17/360

A

A

B

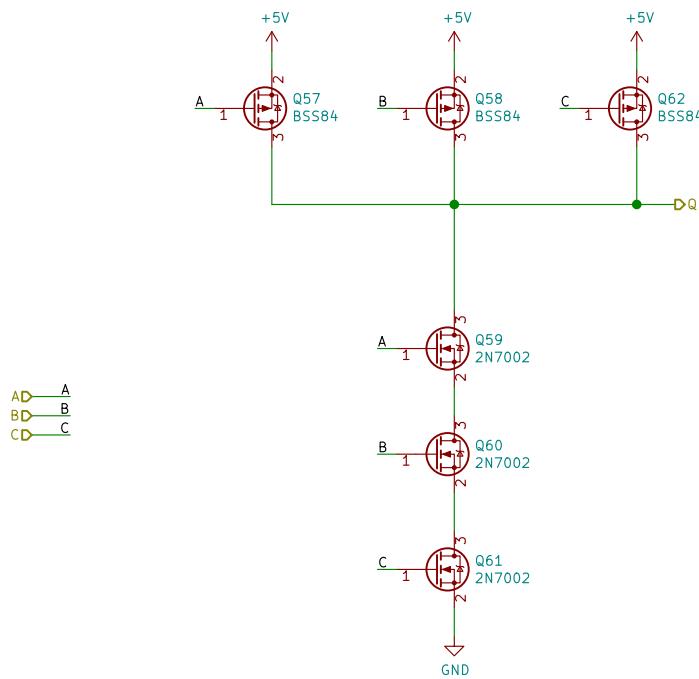
B

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AD  
BD  
CD

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 18/360

A

A

B

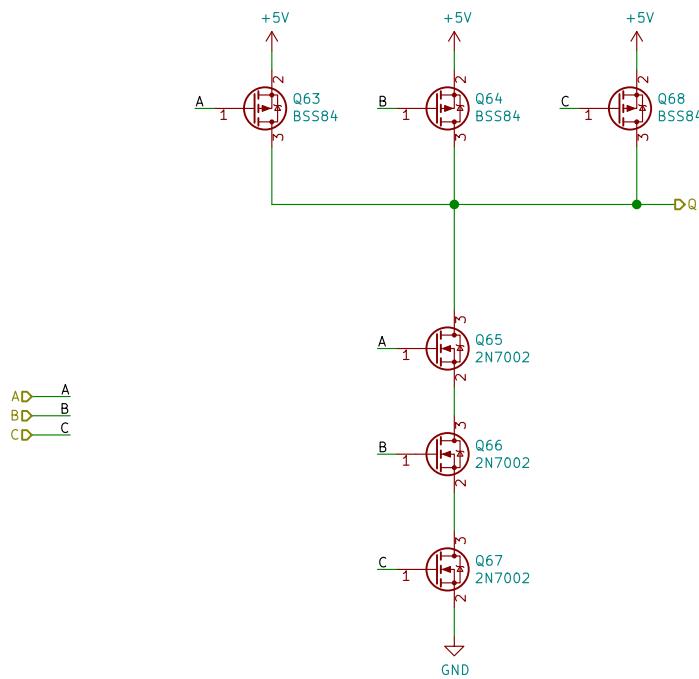
B

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C

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 19/360

A

A

B

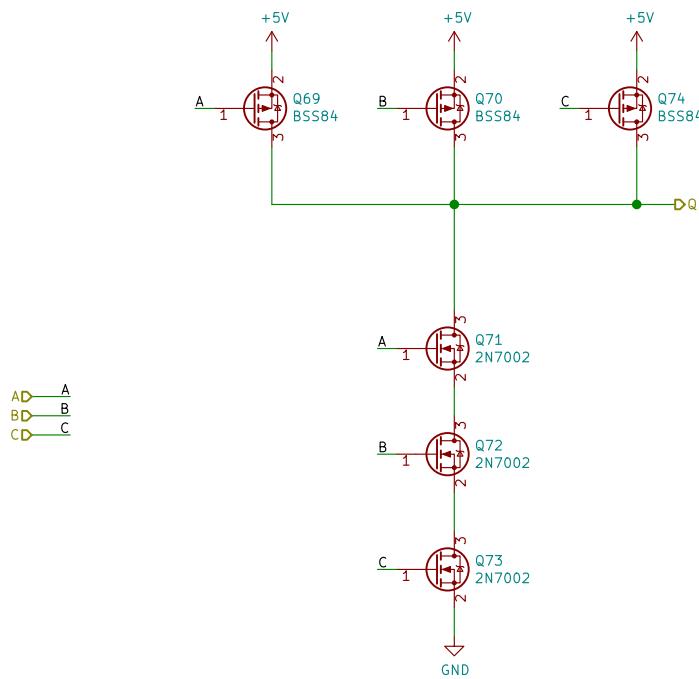
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

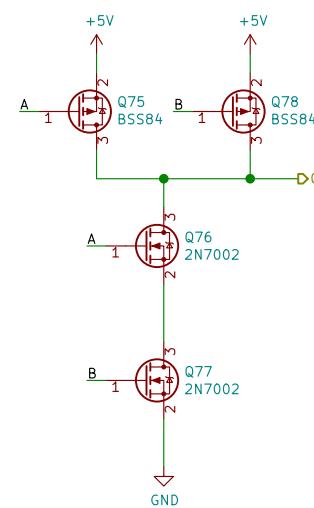
Rev: v0.0  
Id: 20/360

A

B

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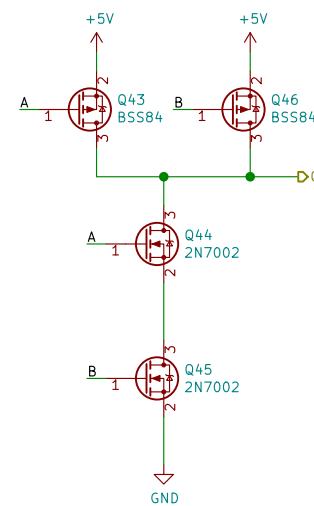
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F17B538/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 21/360

A

B

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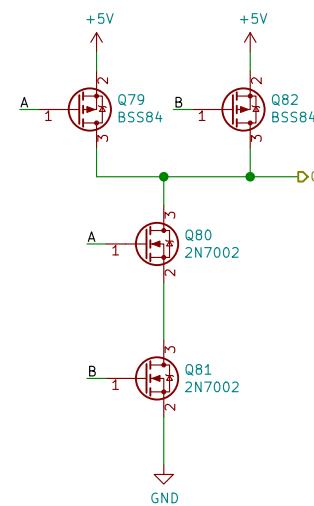
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F17B538/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 22/360

A

B

C

D

AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMem\_1/sheet5F17B538/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 23/360

A

A

B

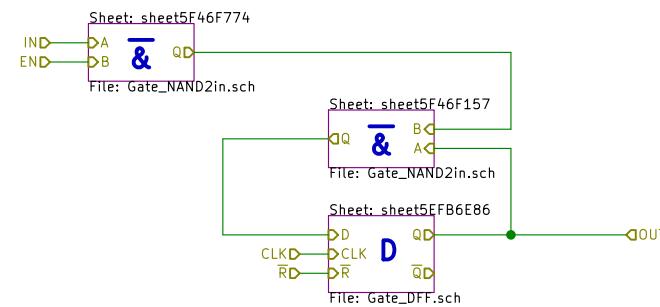
B

C

C

D

D



c  
Philipp Schilk

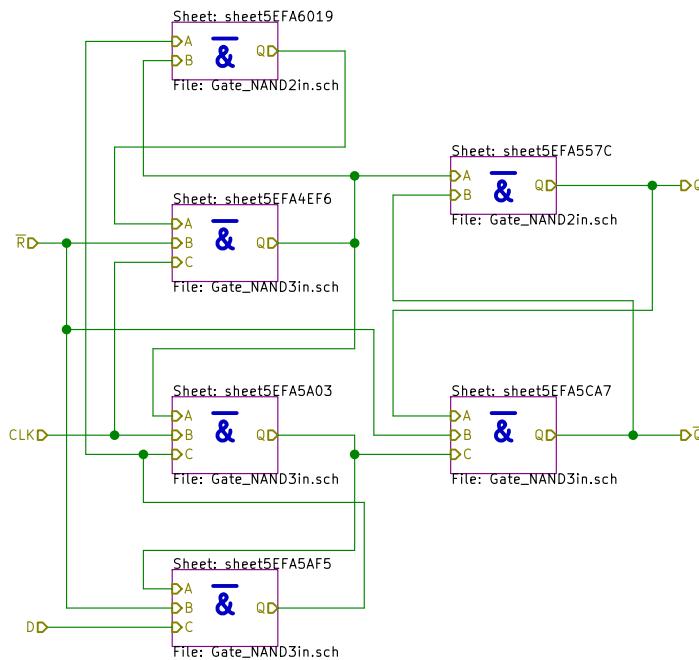
Sheet: /PlayerMem\_1/sheet5F17D798/  
File: MemCell.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 24/360

A



B

C

D

c  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 25/360

A

A

B

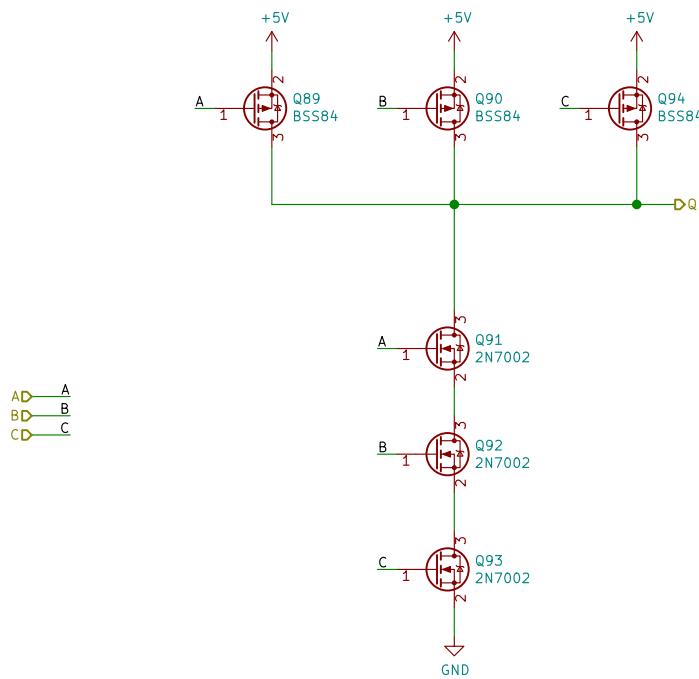
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

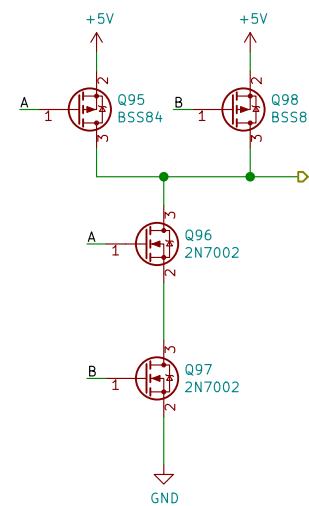
Rev: v0.0  
Id: 26/360

A

B

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 27/360

A

A

B

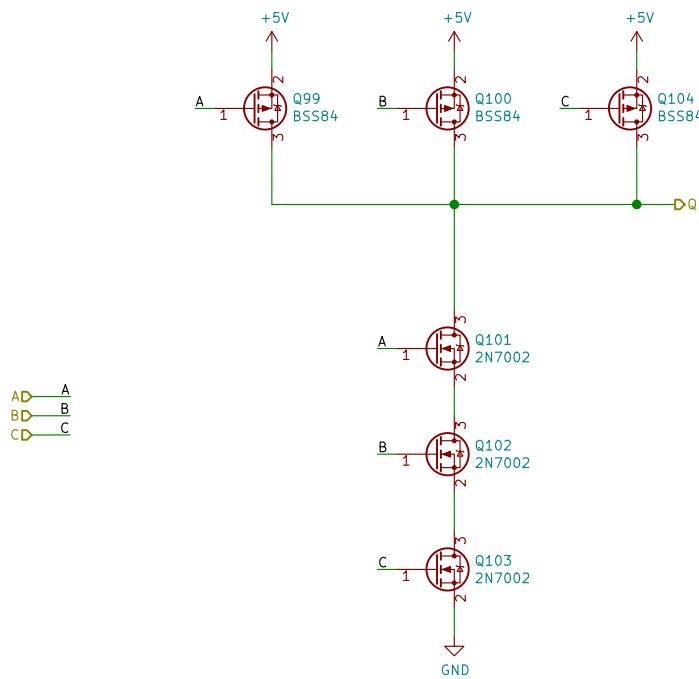
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 28/360

A

A

B

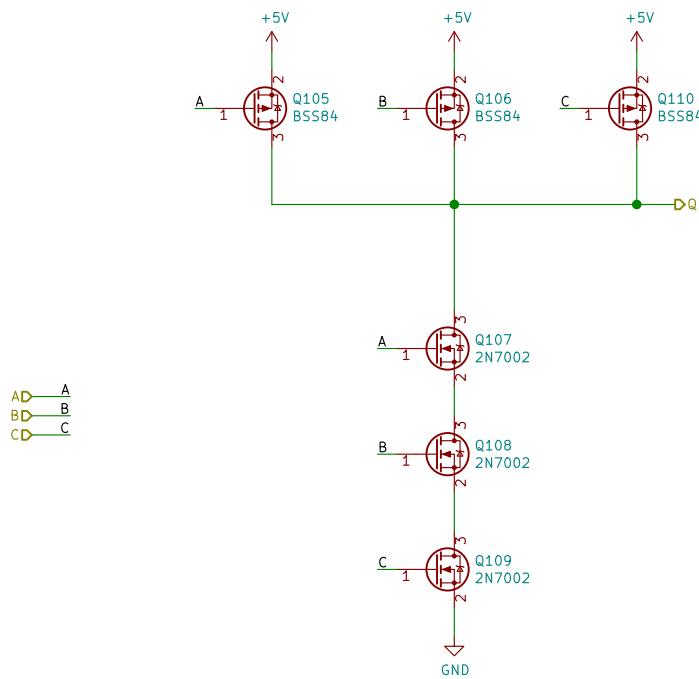
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 29/360

A

A

B

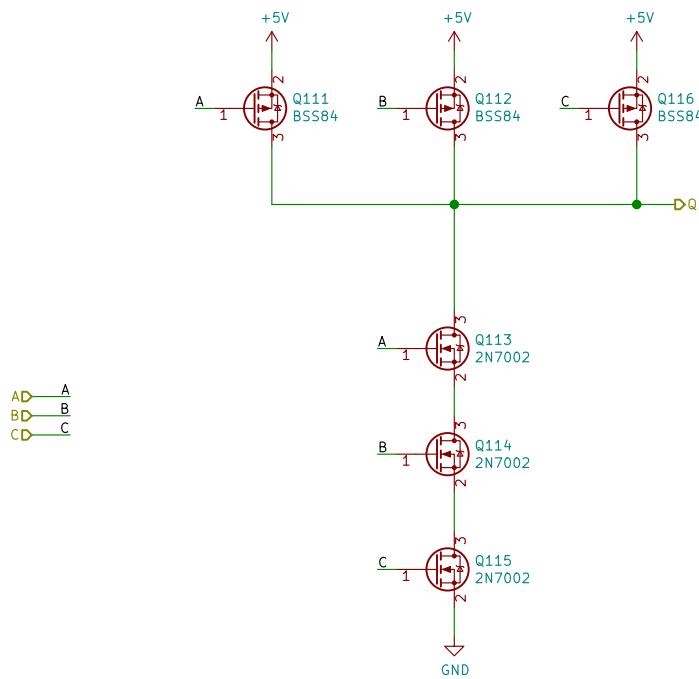
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

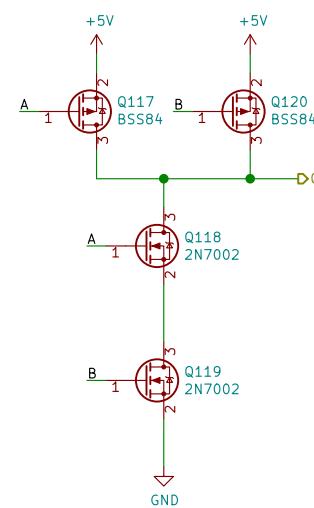
Rev: v0.0  
Id: 30/360

A

B

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F17D798/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

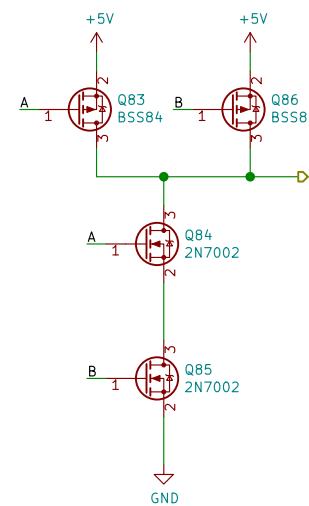
Id: 31/360

A

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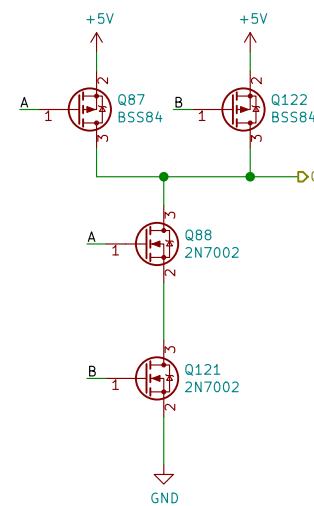
AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F17D798/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 32/360

A

B

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D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F17D798/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 33/360

A

A

B

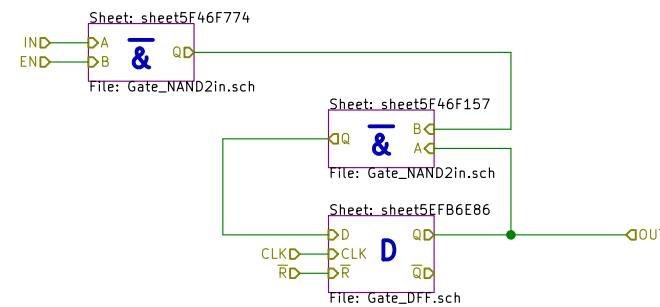
B

C

C

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D



c  
Philipp Schilk

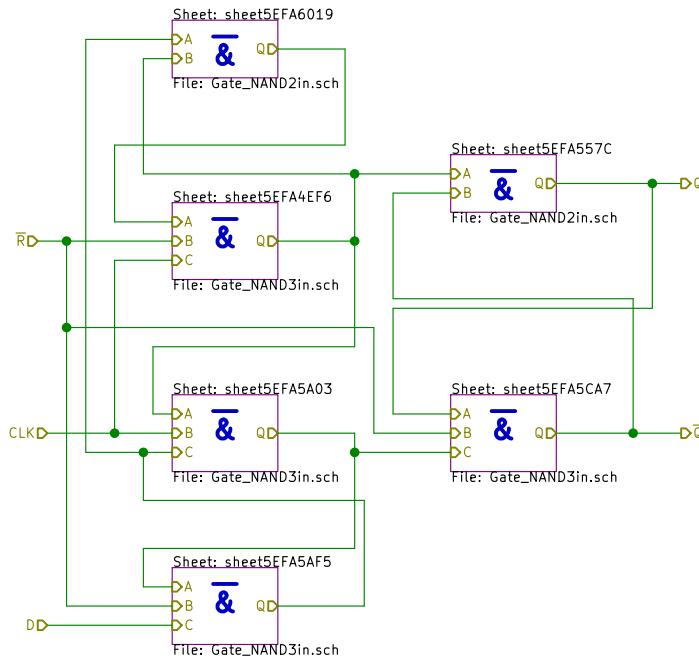
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File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 34/360

A



B

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 35/360

A

A

B

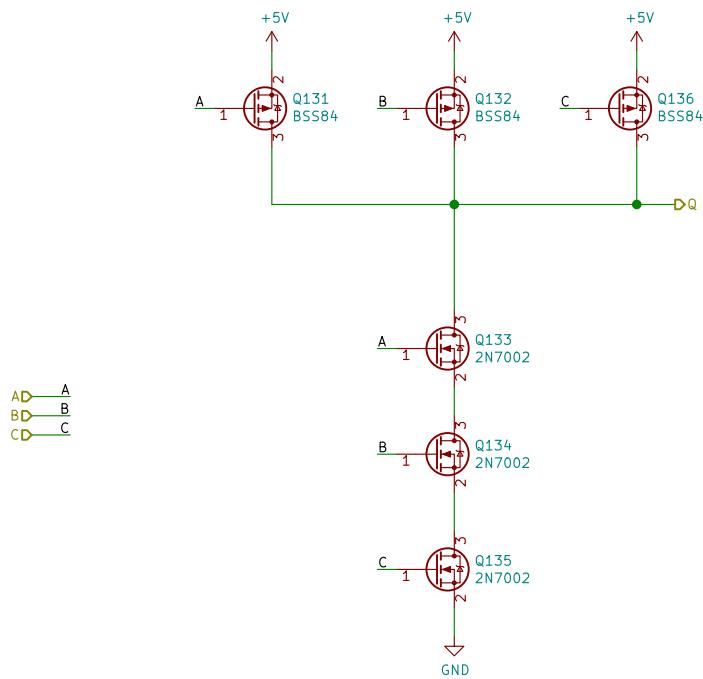
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

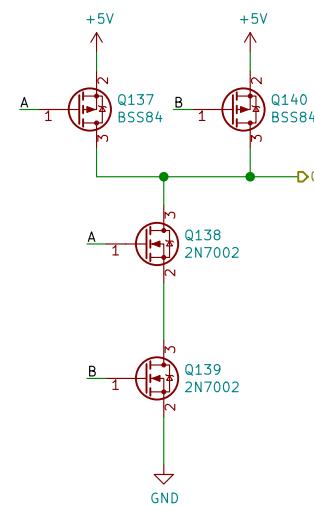
Rev: v0.0  
Id: 36/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 37/360

A

A

B

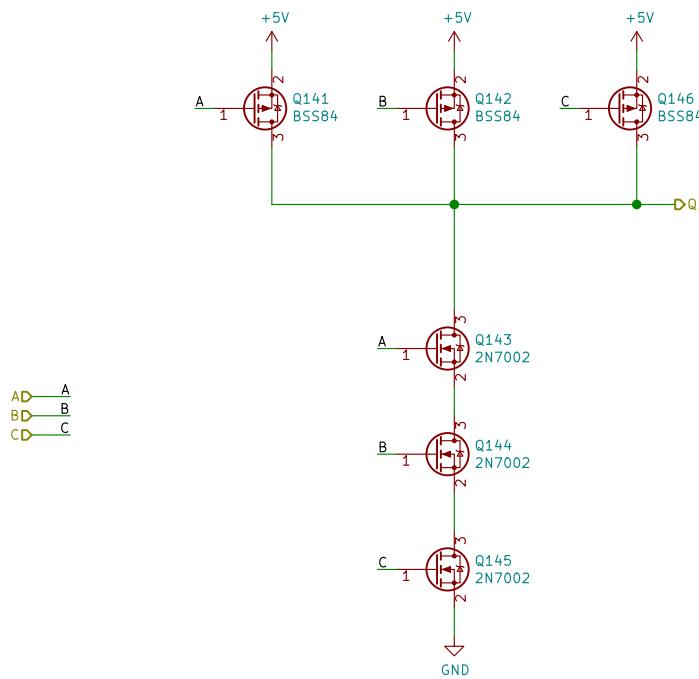
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 38/360

A

A

B

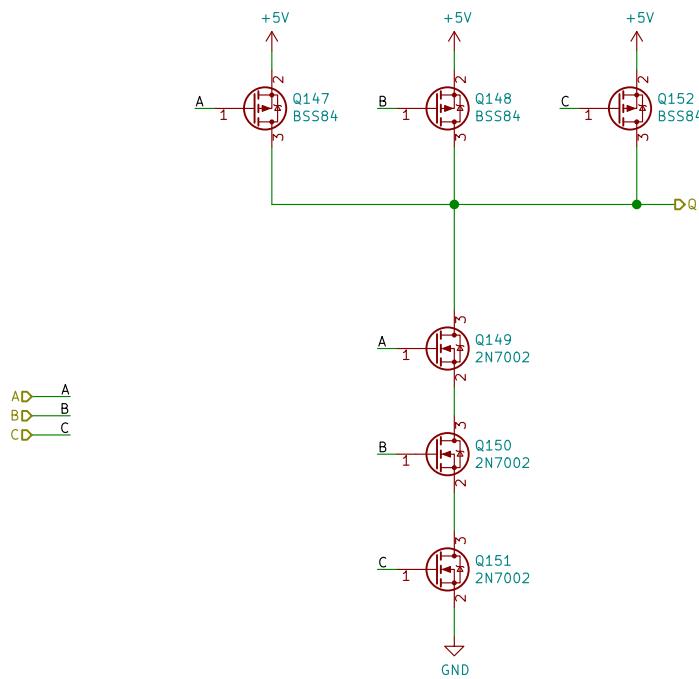
B

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C

D

D



AD—A  
BD—B  
CD—C

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 39/360

A

A

B

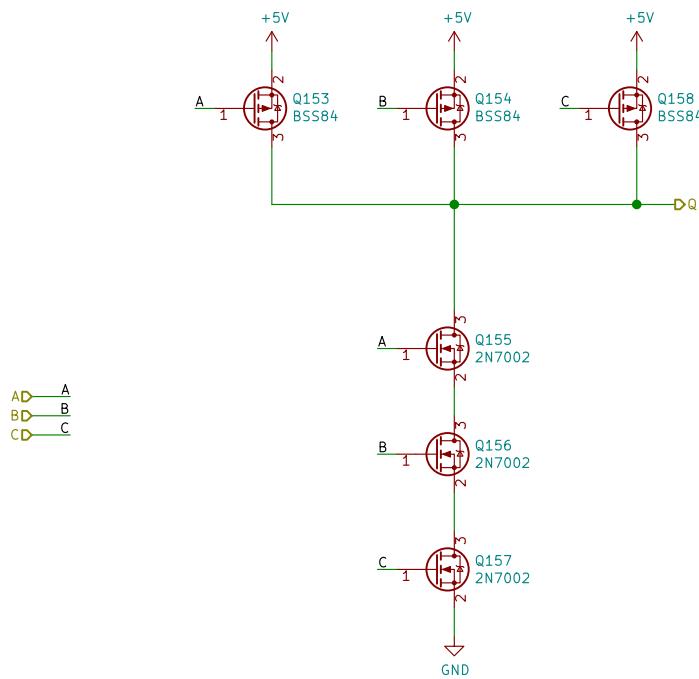
B

C

C

D

D



AD  
BD  
CD

A  
B  
C

A  
B  
C

c  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

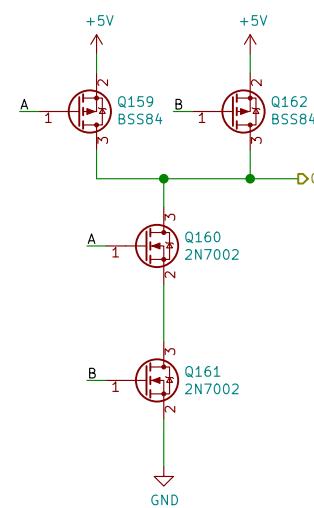
Rev: v0.0  
Id: 40/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011C/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

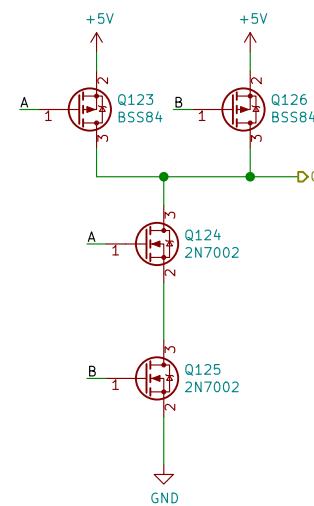
Id: 41/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011C/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

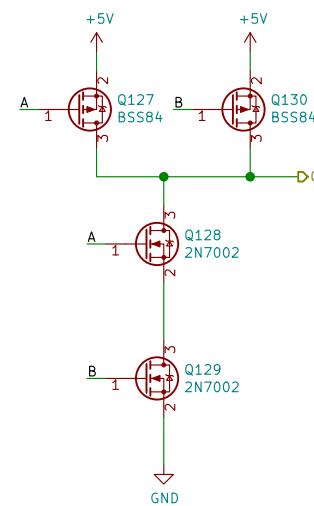
Id: 42/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011C/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 43/360

A

A

B

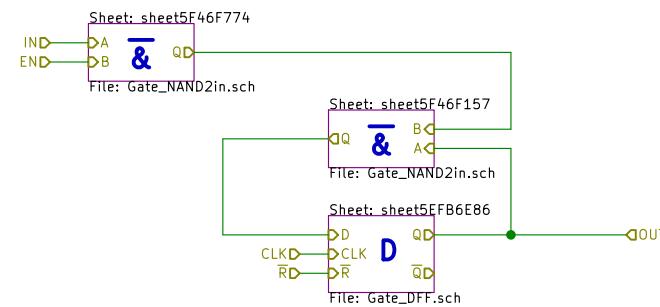
B

C

C

D

D



c  
Philipp Schilk

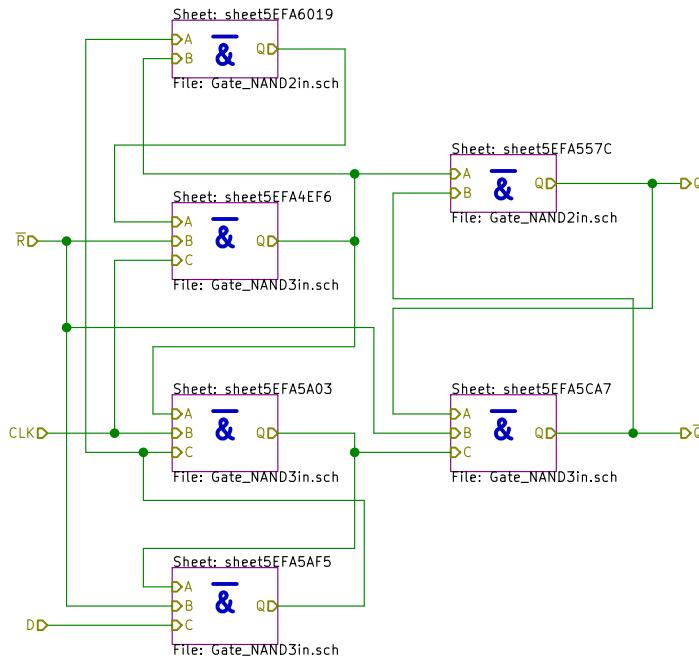
Sheet: /PlayerMem\_1/sheet5F18011D/  
File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 44/360

A



B



C



c  
**Philipp Schilk**  
Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	

<b>Rev: v0.0</b>
Id: 45/360

A

A

B

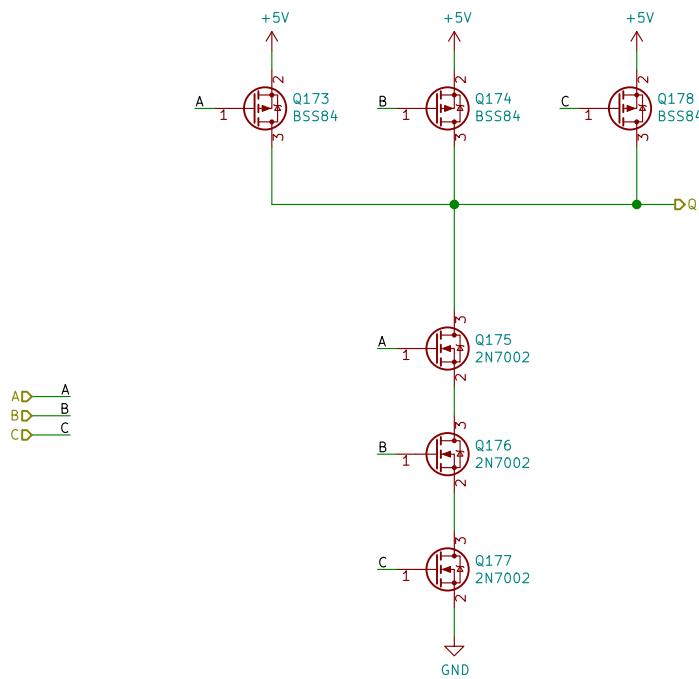
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

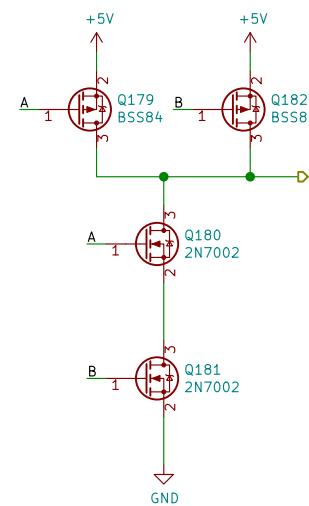
Rev: v0.0  
Id: 46/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 47/360

A

A

B

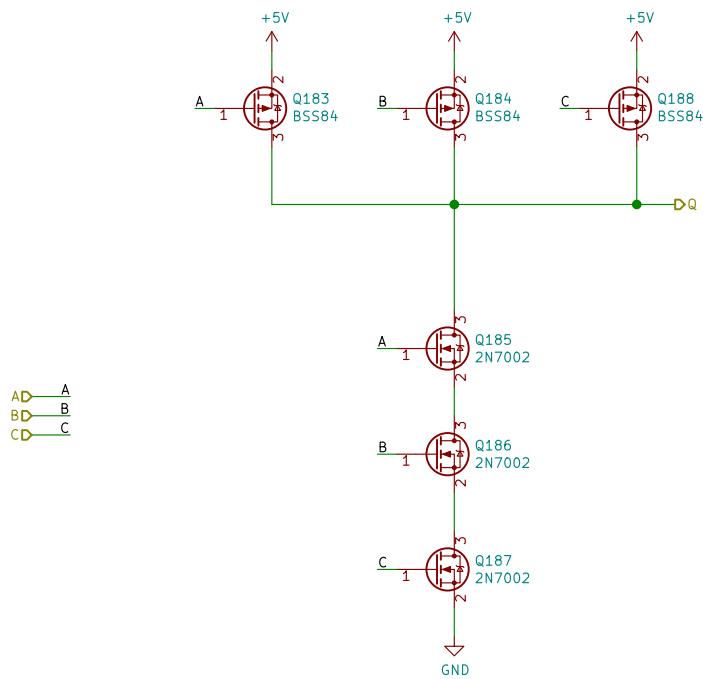
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 48/360

A

A

B

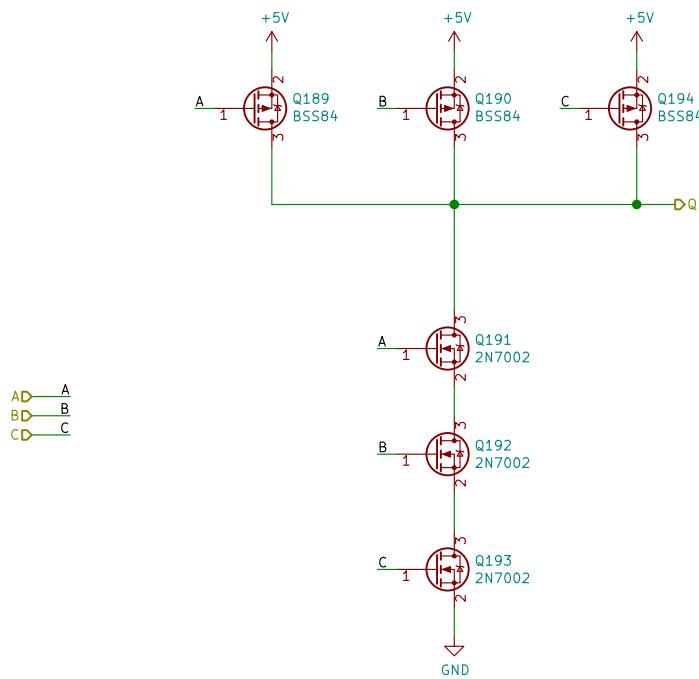
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 49/360

A

A

B

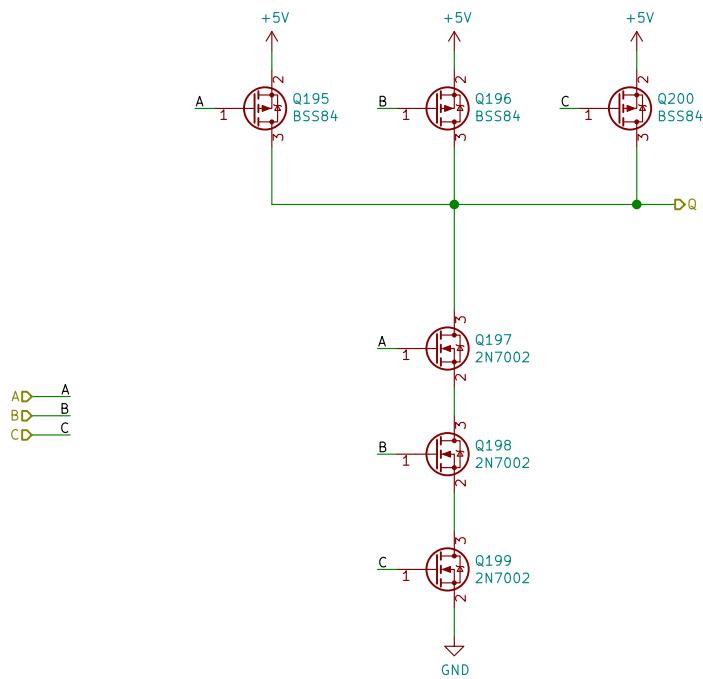
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

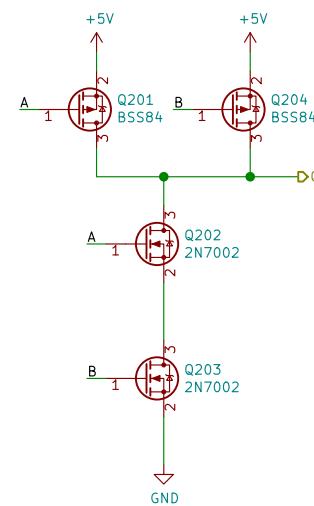
Rev: v0.0  
Id: 50/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011D/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

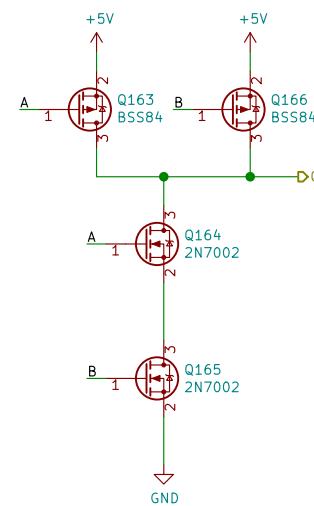
Id: 51/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011D/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

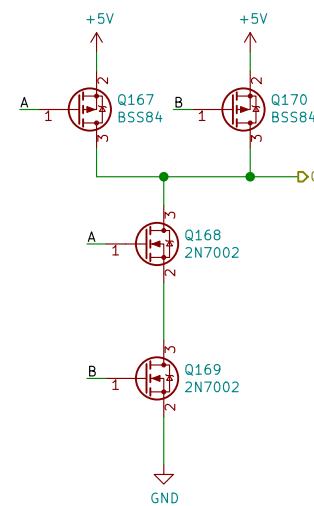
Id: 52/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011D/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 53/360

A

A

B

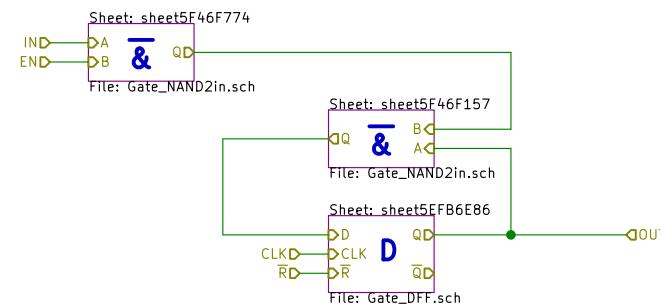
B

C

C

D

D



c  
Philipp Schilk

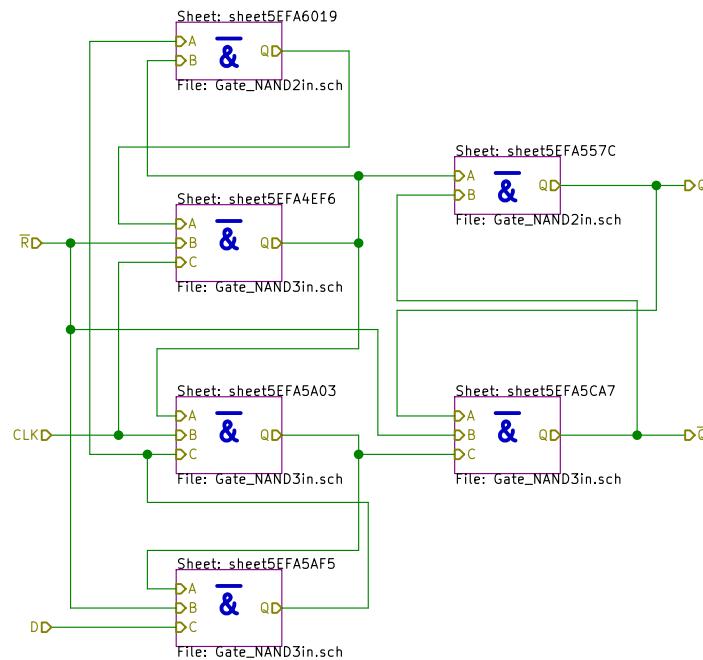
Sheet: /PlayerMem\_1/sheet5F18011E/  
File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 54/360

A



B

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011E/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 55/360

A

A

B

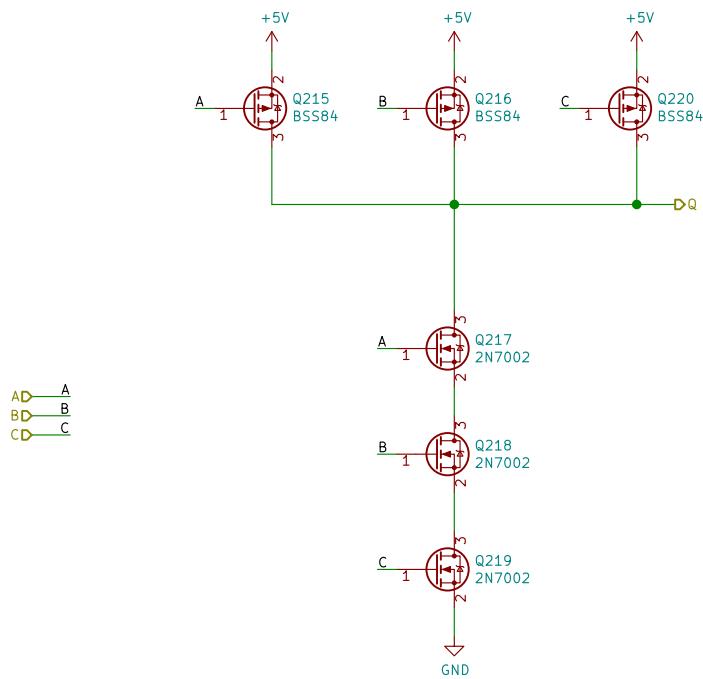
B

C

C

D

D



AD—A  
BD—B  
CD—C

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011E/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

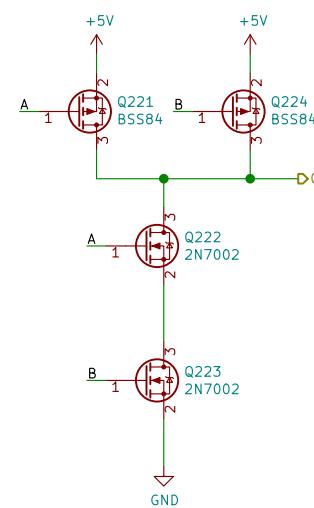
Rev: v0.0  
Id: 56/360

A

B

C

D

AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F18011E/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 57/360

A

A

B

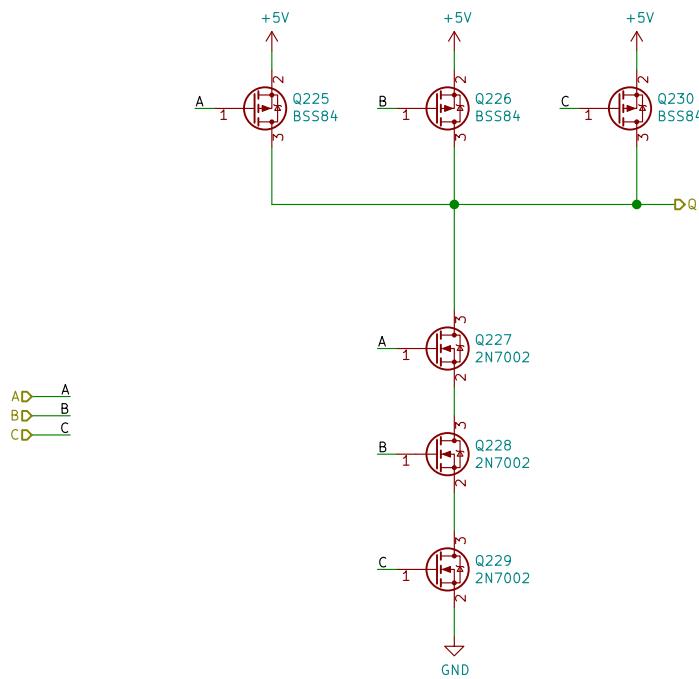
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011E/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 58/360

A

A

B

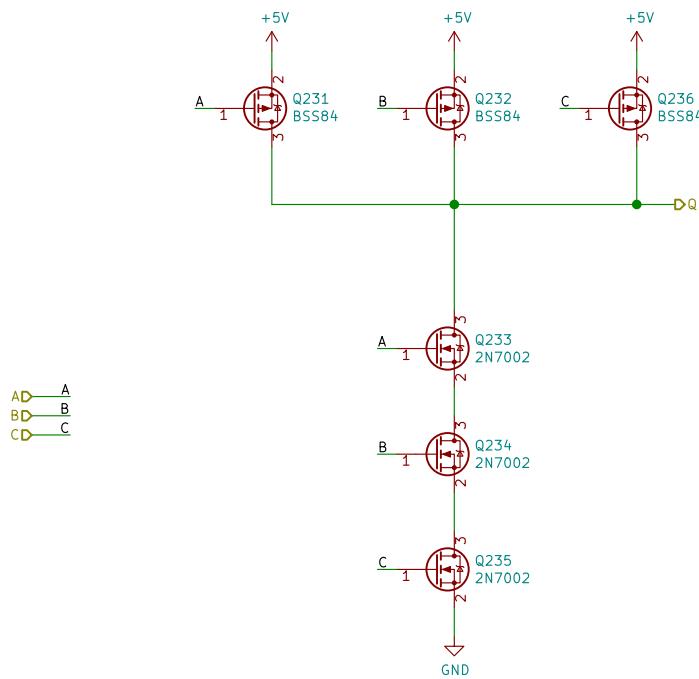
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011E/sheet5FB6E86/sheet5FA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 59/360

A

A

B

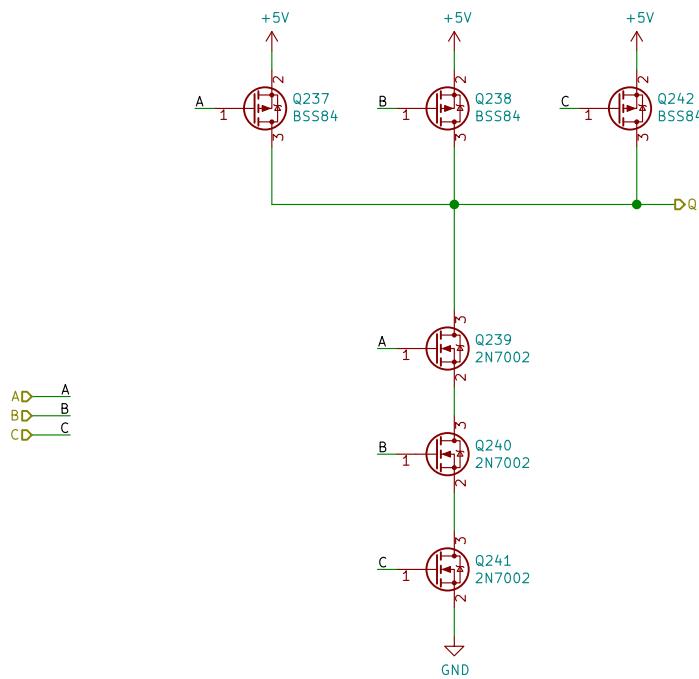
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F18011E/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

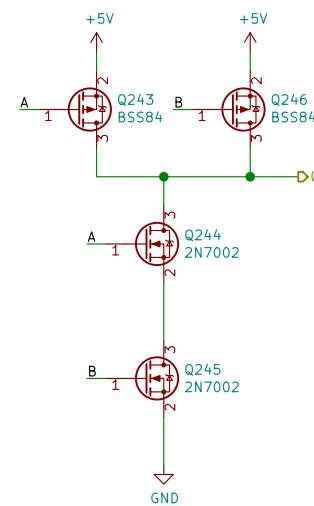
Rev: v0.0  
Id: 60/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011E/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

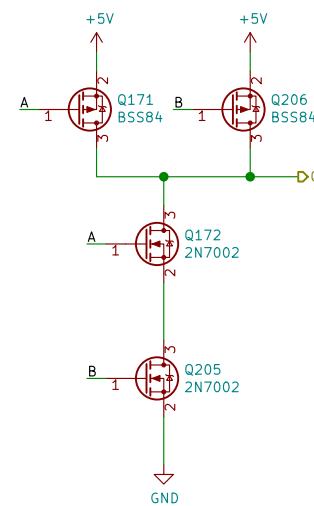
Id: 61/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011E/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

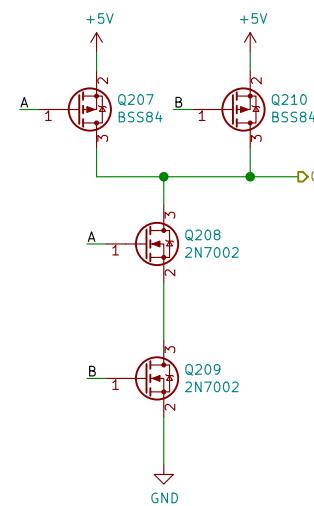
Id: 62/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F18011E/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 63/360

A

A

B

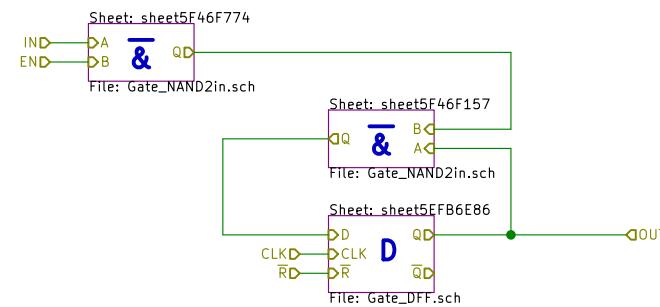
B

C

C

D

D



c  
Philipp Schilk

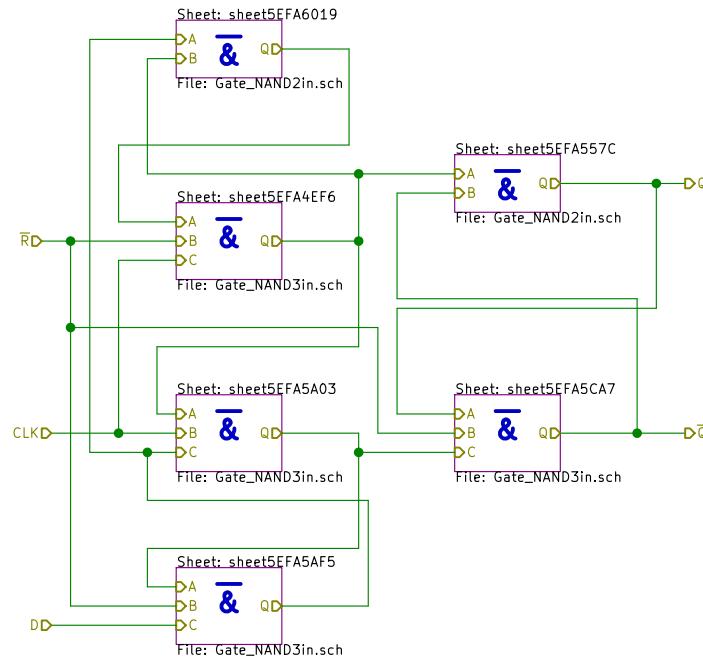
Sheet: /PlayerMem\_1/sheet5F1827A6/  
File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 64/360

A



B

C

D

A

B

C

D

c  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 65/360

A

A

B

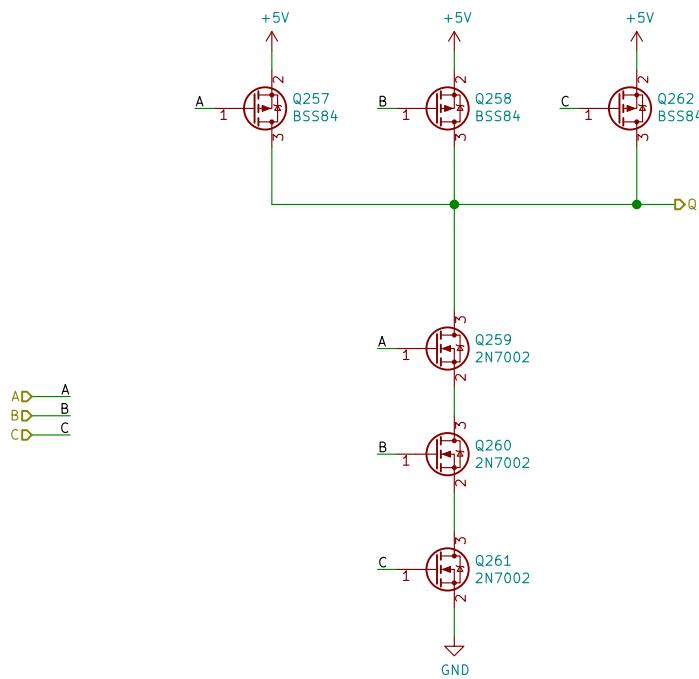
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

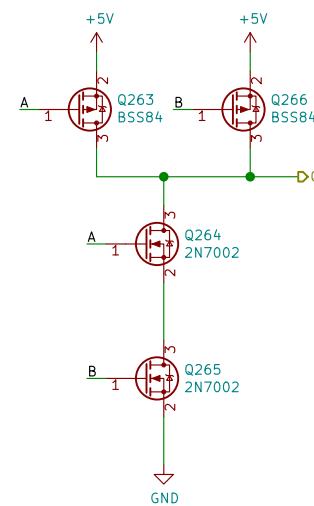
Rev: v0.0  
Id: 66/360

A

B

C

D

AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 67/360

A

A

B

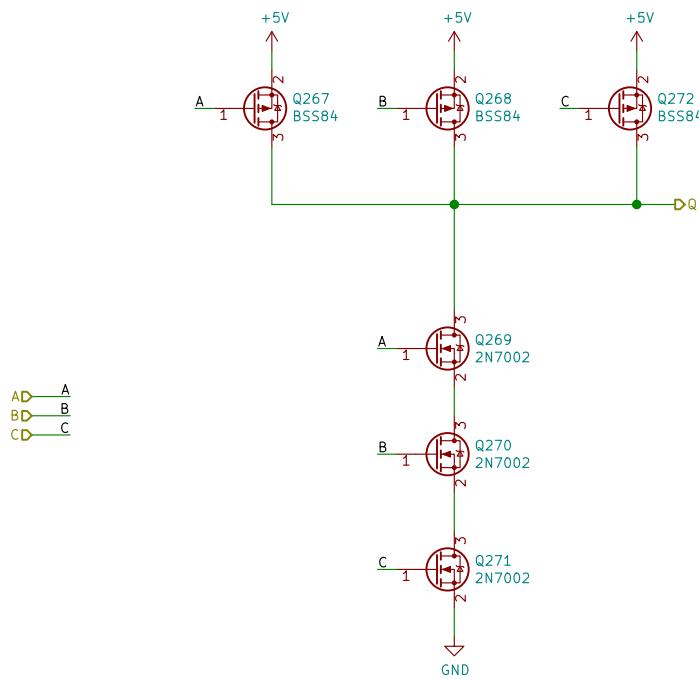
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 68/360

A

A

B

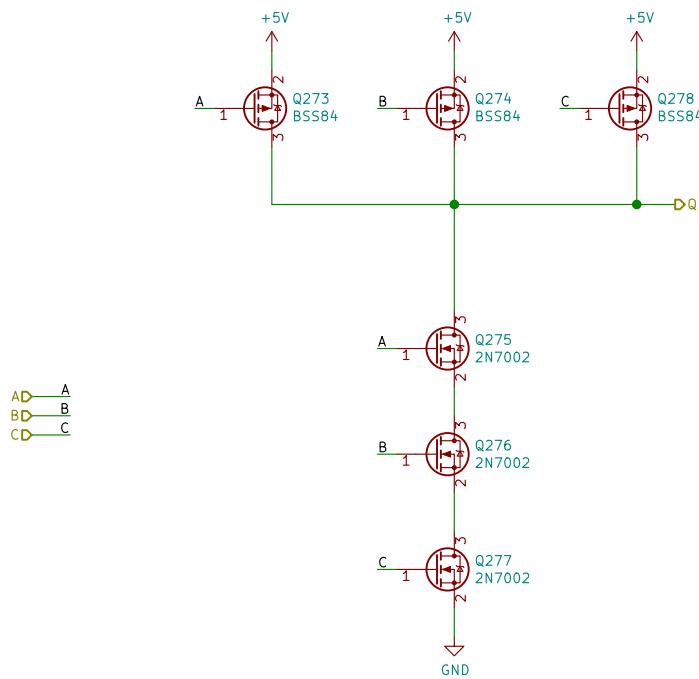
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 69/360

A

A

B

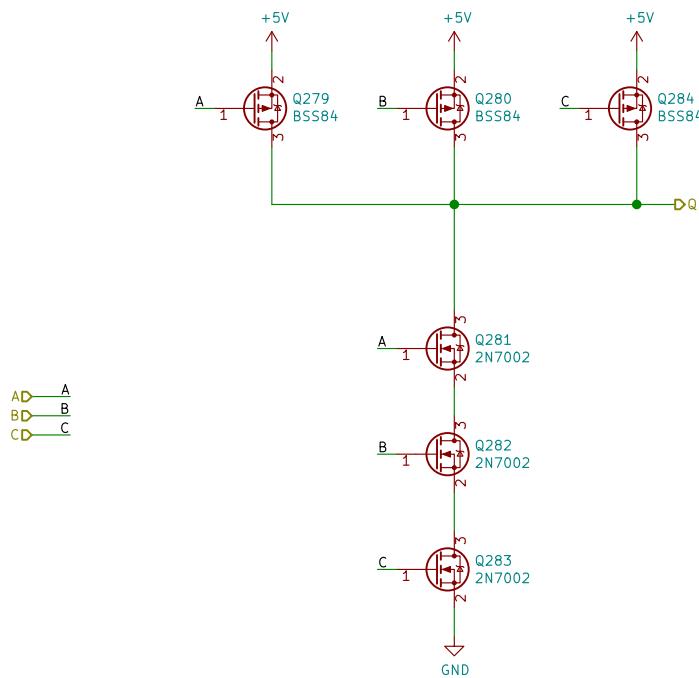
B

C

C

D

D



AD  
BD  
CD

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

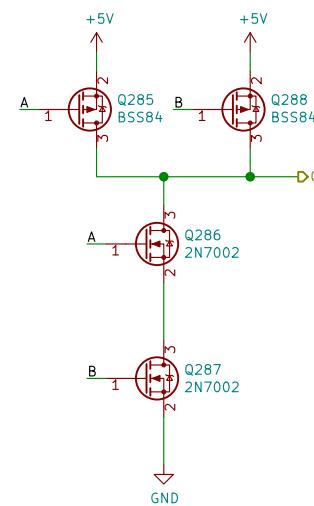
Rev: v0.0  
Id: 70/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

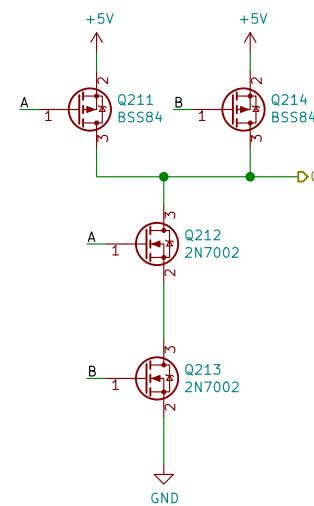
Id: 71/360

A

B

C

D

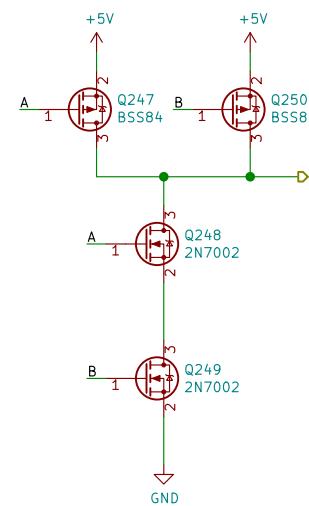
AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 72/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A6/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 73/360

A

A

B

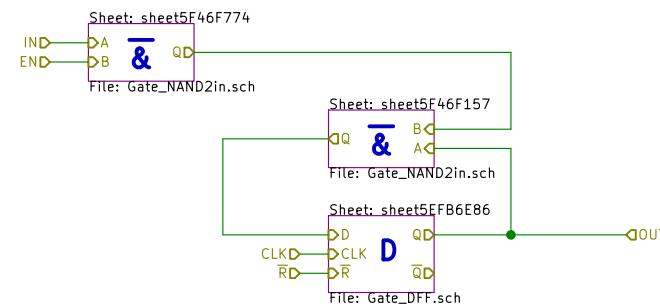
B

C

C

D

D



c  
Philipp Schilk

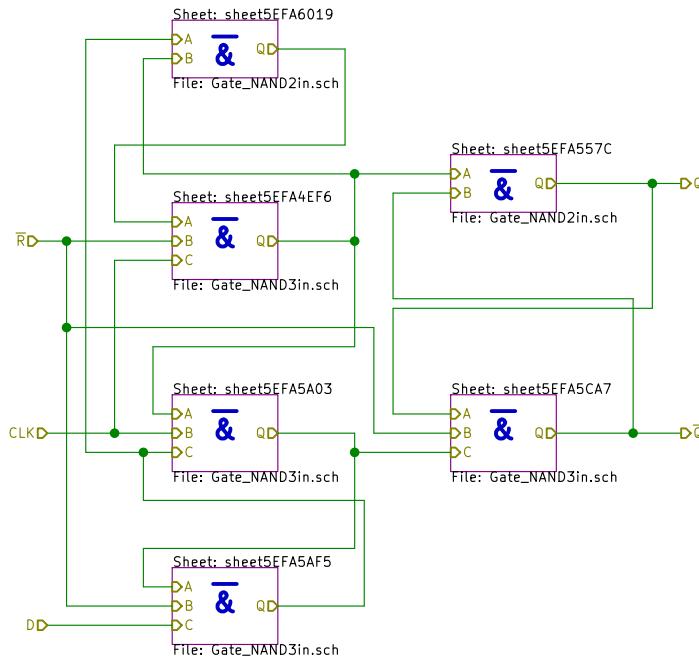
Sheet: /PlayerMem\_1/sheet5F1827A7/  
File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 74/360

A



B

C

D

A

B

C

D

c  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 75/360

A

A

B

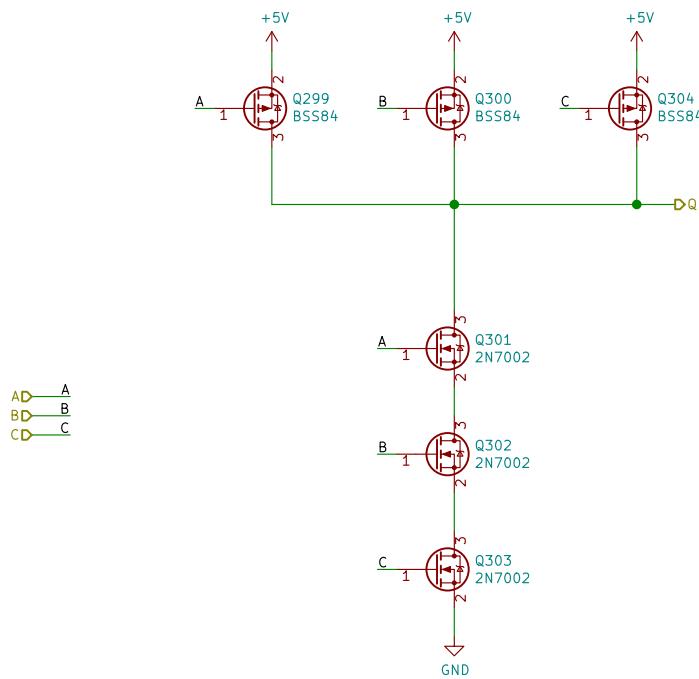
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

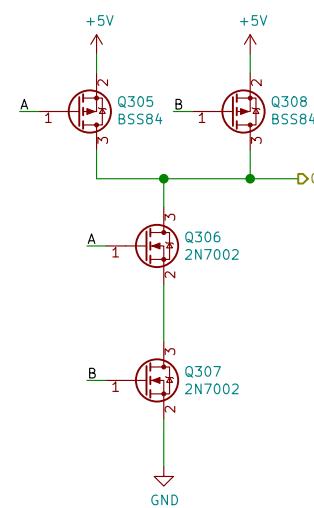
Rev: v0.0  
Id: 76/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 77/360

A

A

B

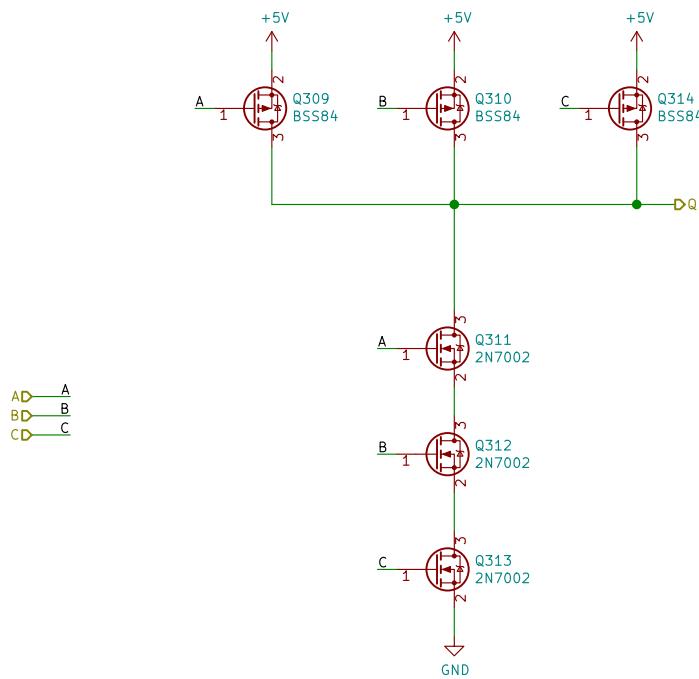
B

C

C

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D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 78/360

A

A

B

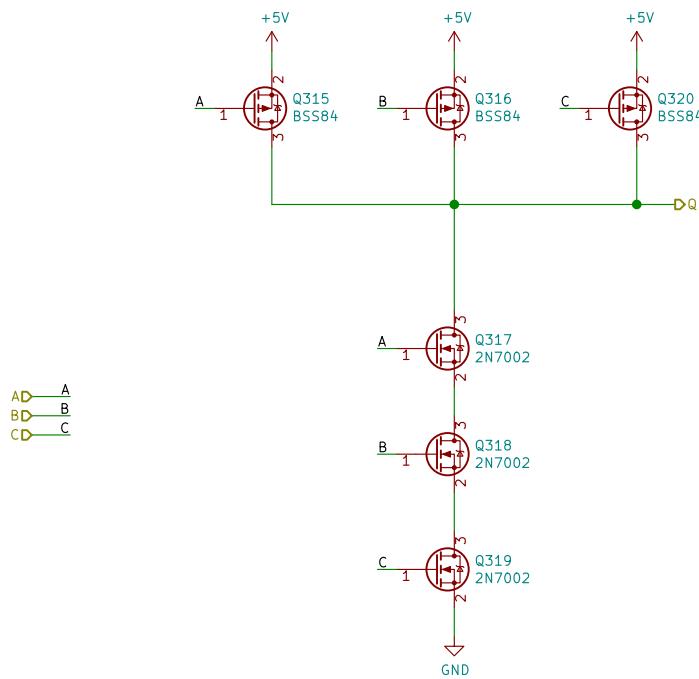
B

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C

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D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 79/360

A

A

B

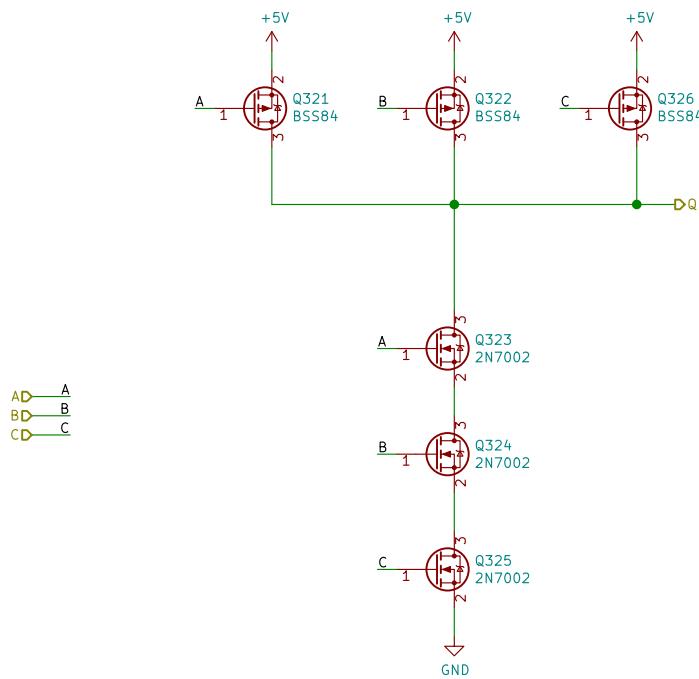
B

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C

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D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

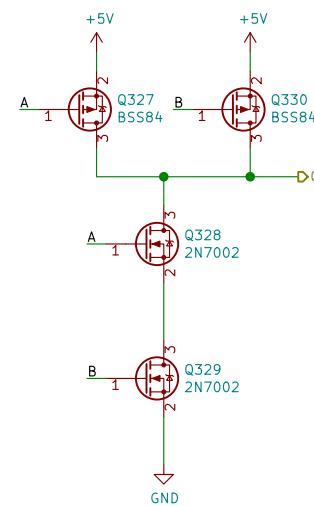
Rev: v0.0  
Id: 80/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

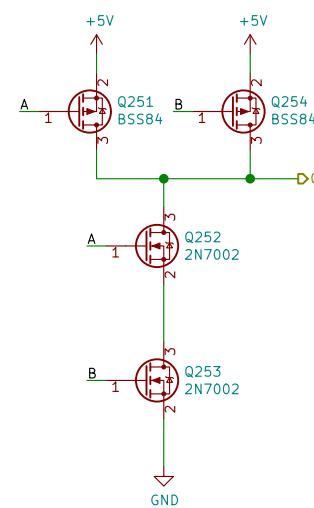
Id: 81/360

A

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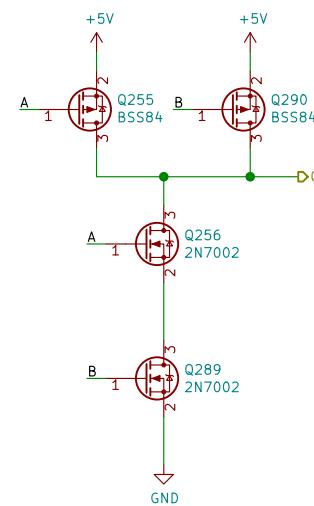
AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 82/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A7/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 83/360

A

A

B

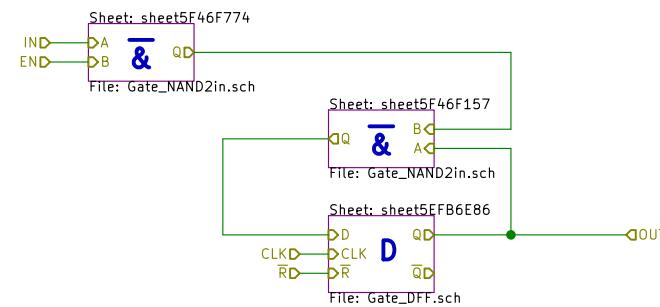
B

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c  
Philipp Schilk

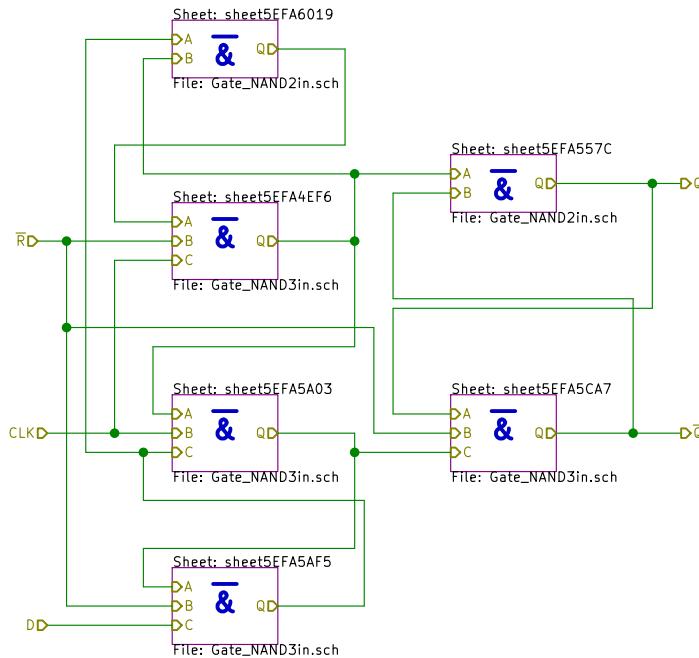
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File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 84/360

A



B

c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 85/360

A

A

B

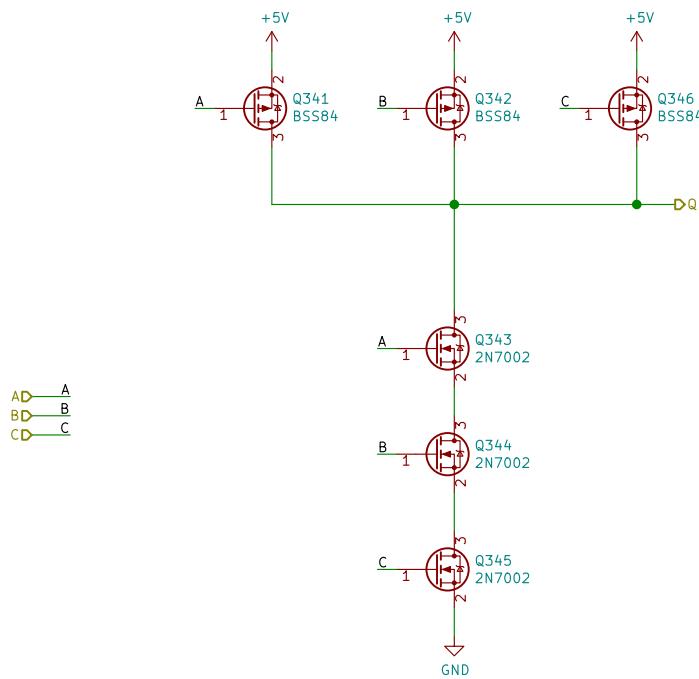
B

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C

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

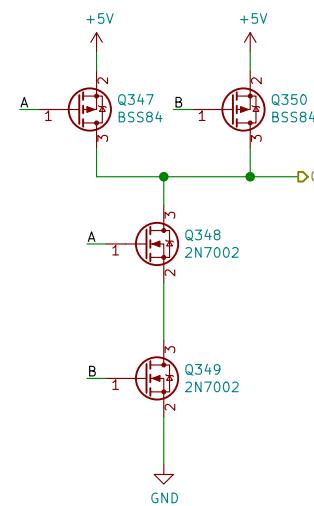
Rev: v0.0  
Id: 86/360

A

B

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D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 87/360

A

A

B

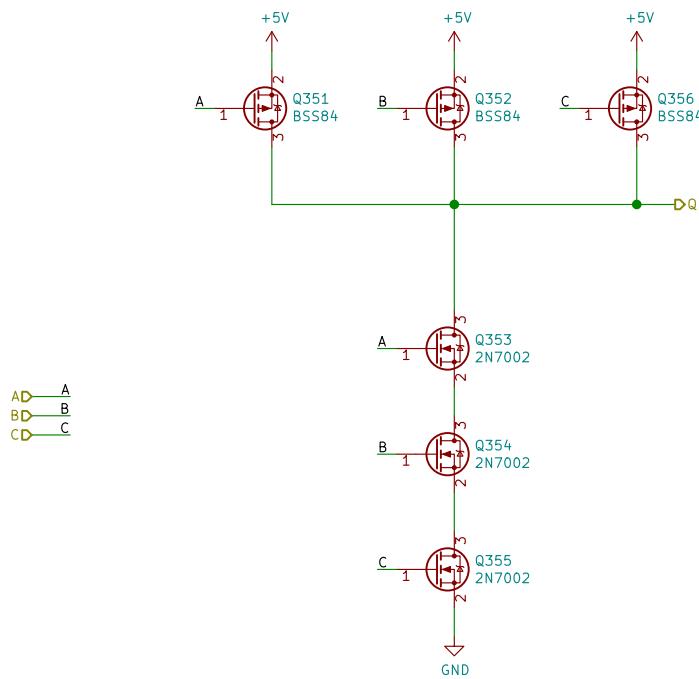
B

C

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D



c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 88/360

A

A

B

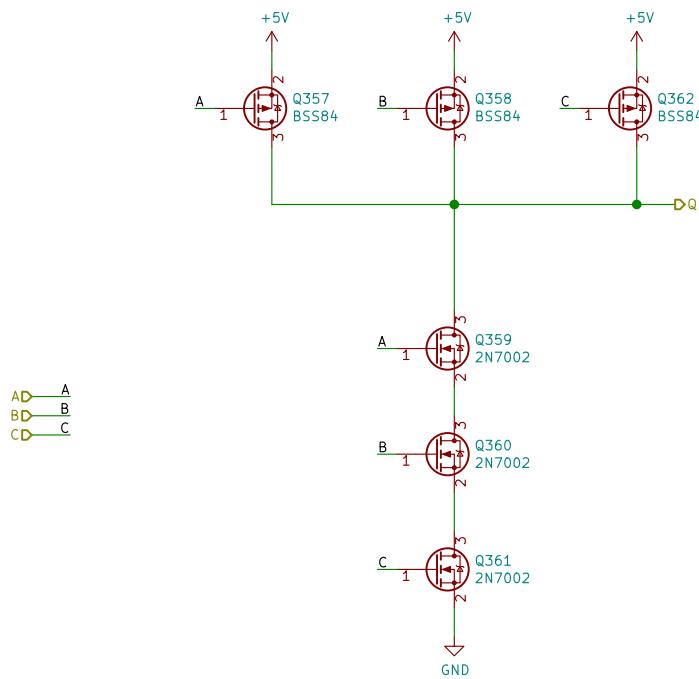
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 89/360

A

A

B

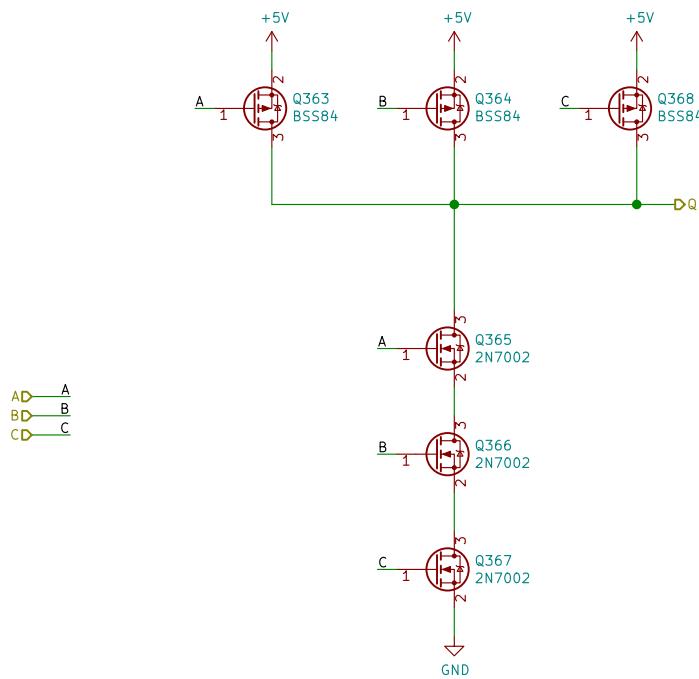
B

C

C

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c  
Philipp Schilk

Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

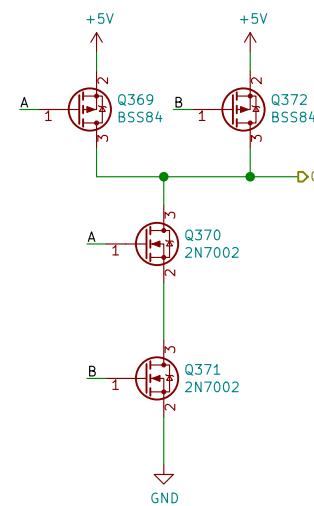
Rev: v0.0  
Id: 90/360

A

B

C

D

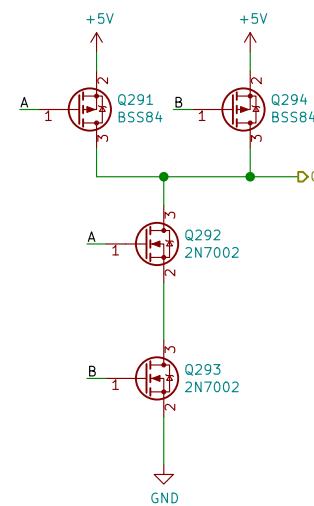
AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 91/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

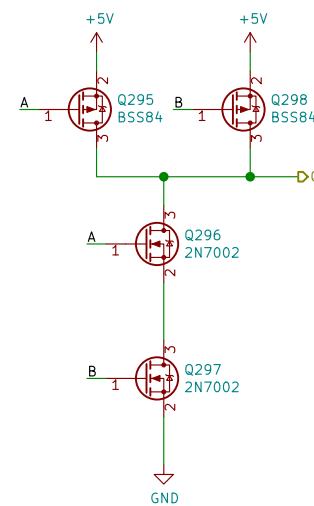
Id: 92/360

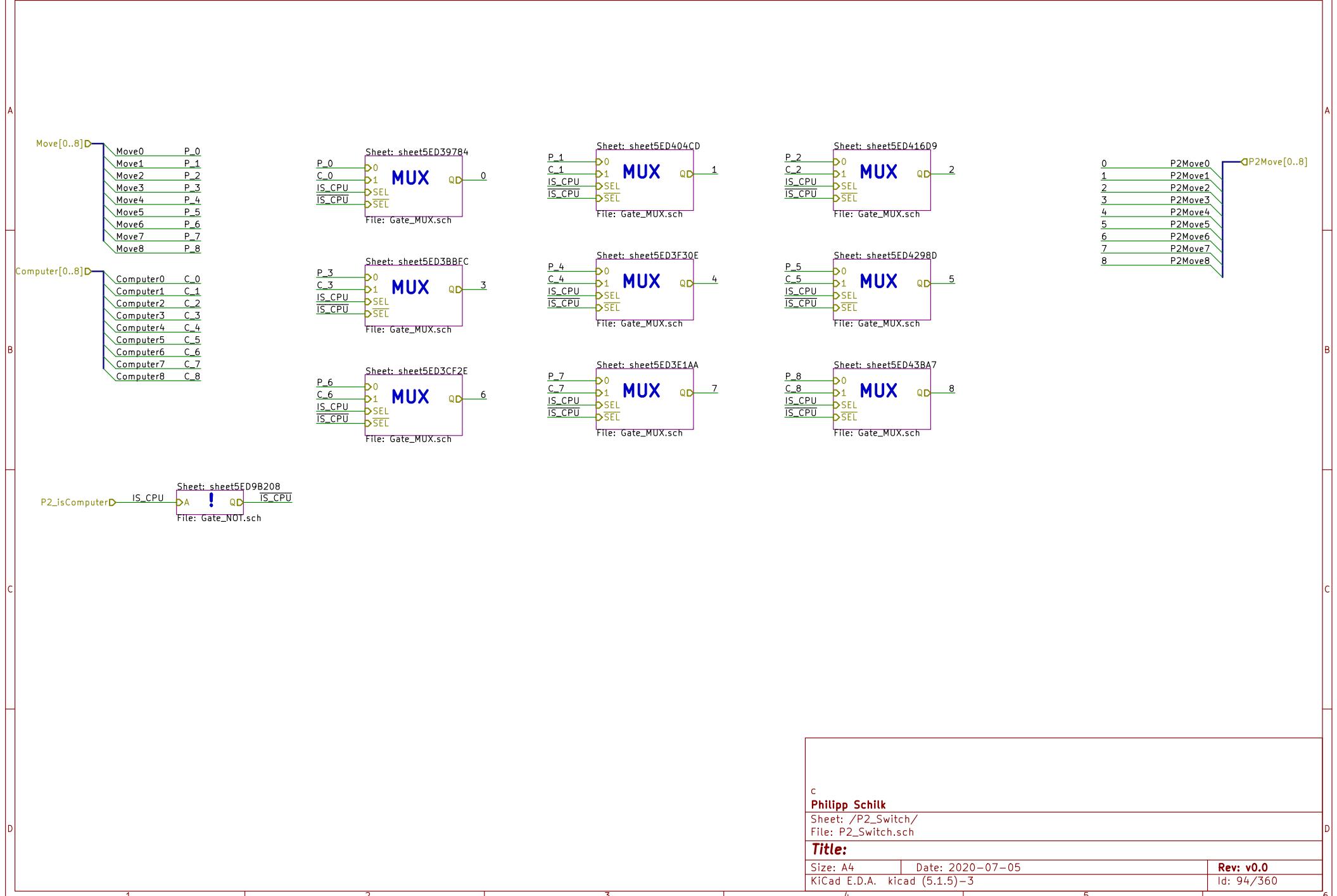
A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_1/sheet5F1827A8/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 93/360



A

A

B

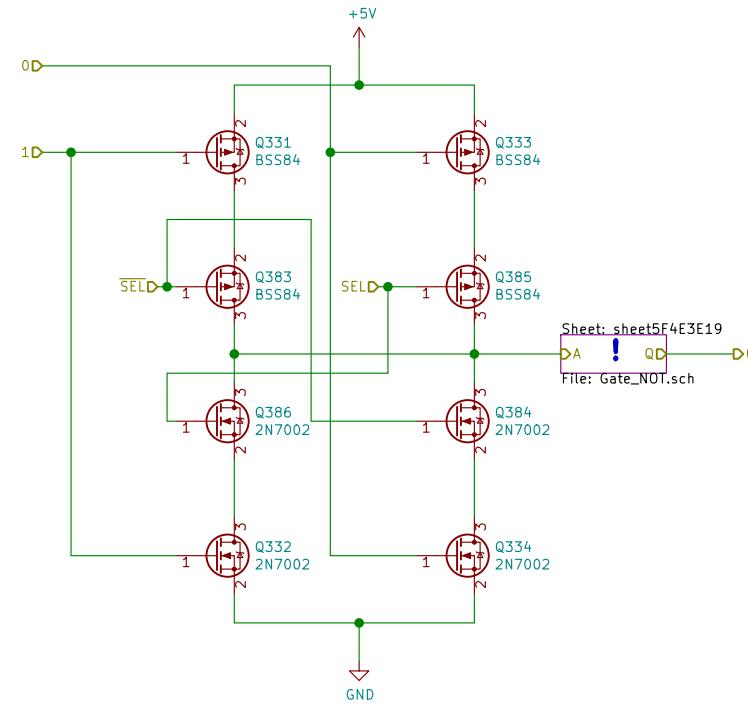
B

C

C

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED39784/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 95/360

A

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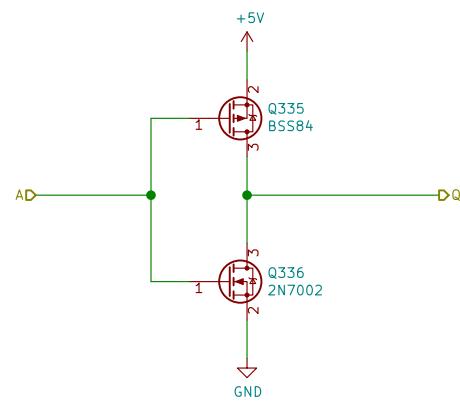
D

A

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED39784/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 96/360

A

A

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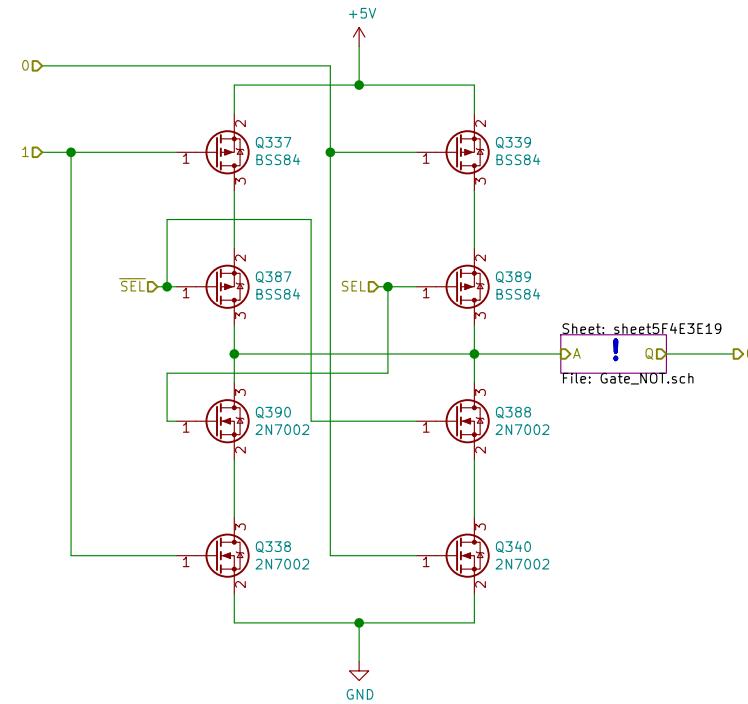
B

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3BBFC/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 97/360

A

B

C

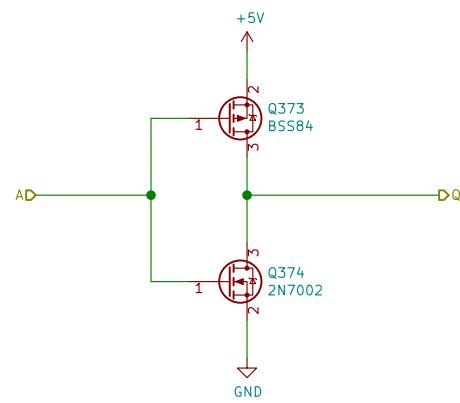
D

A

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3BBFC/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 98/360

A

A

B

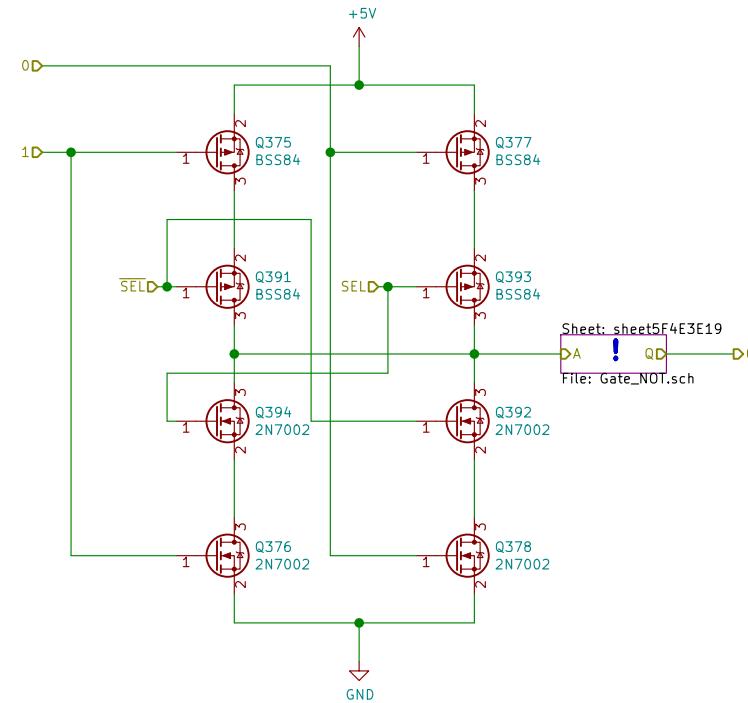
B

C

C

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3CF2E/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 99/360

A

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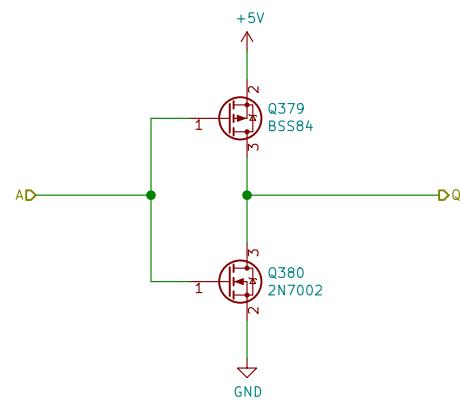
D

A

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C

D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3CF2E/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 100/360

A

A

B

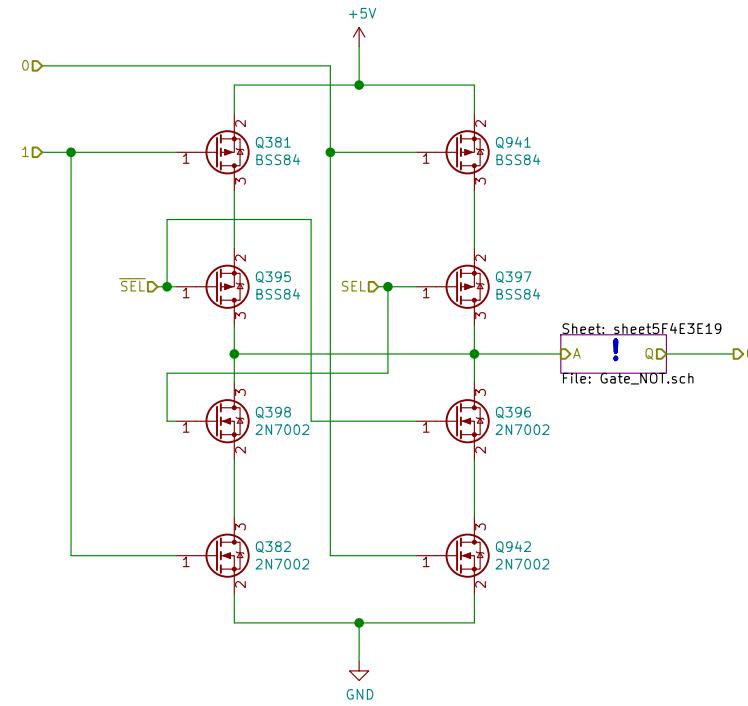
B

C

C

D

D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3E1AA/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 101/360

A

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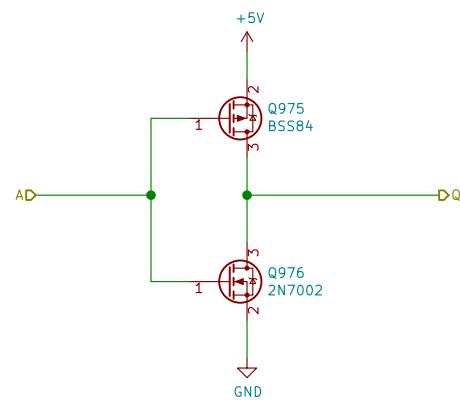
D

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c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3E1AA/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 102/360

A

A

B

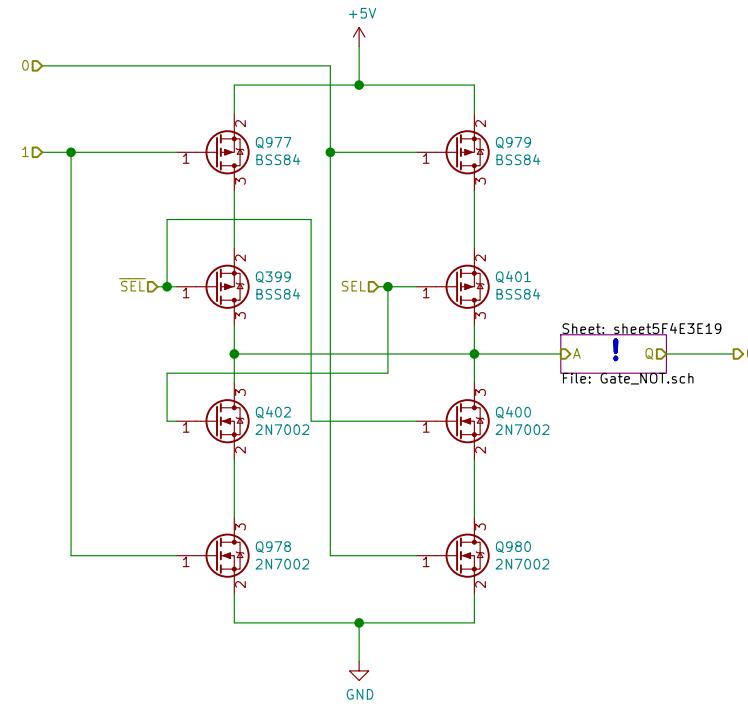
B

C

C

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3F30E/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 103/360

A

B

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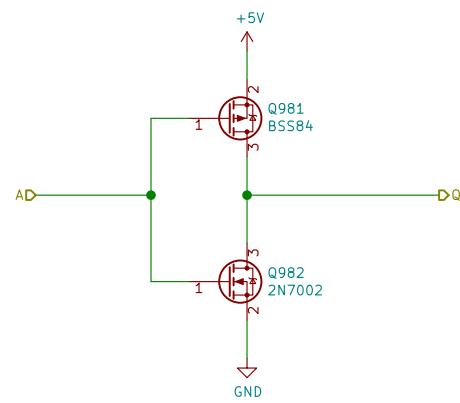
D

A

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED3F30E/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 104/360

A

A

B

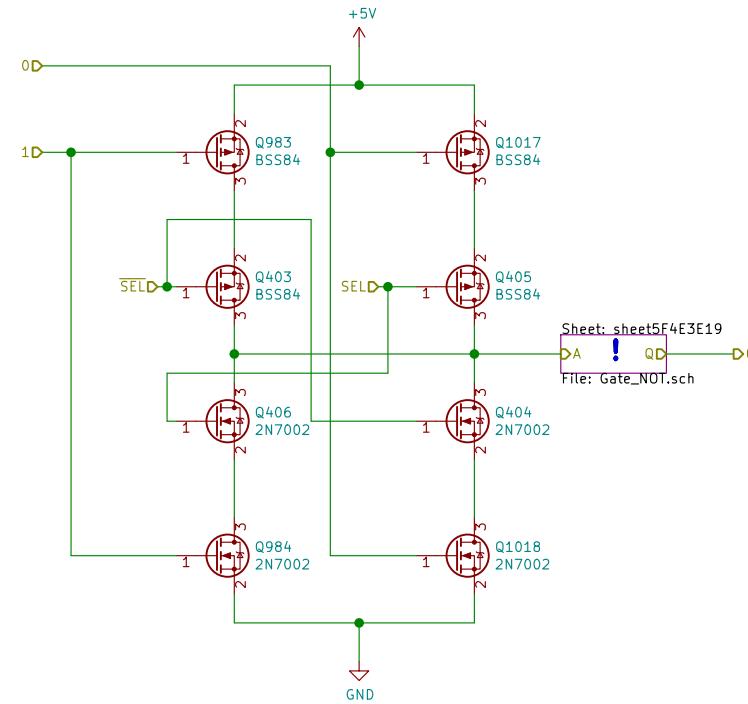
B

C

C

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED404CD/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 105/360

A

B

C

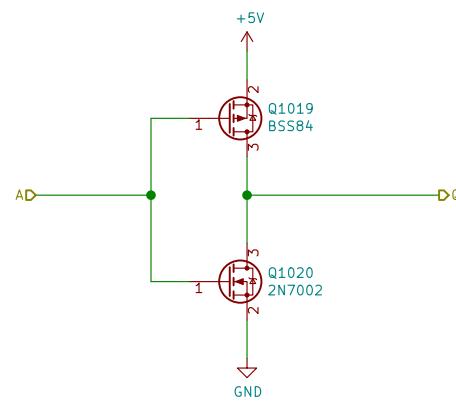
D

A

B

C

D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED404CD/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 106/360

A

A

B

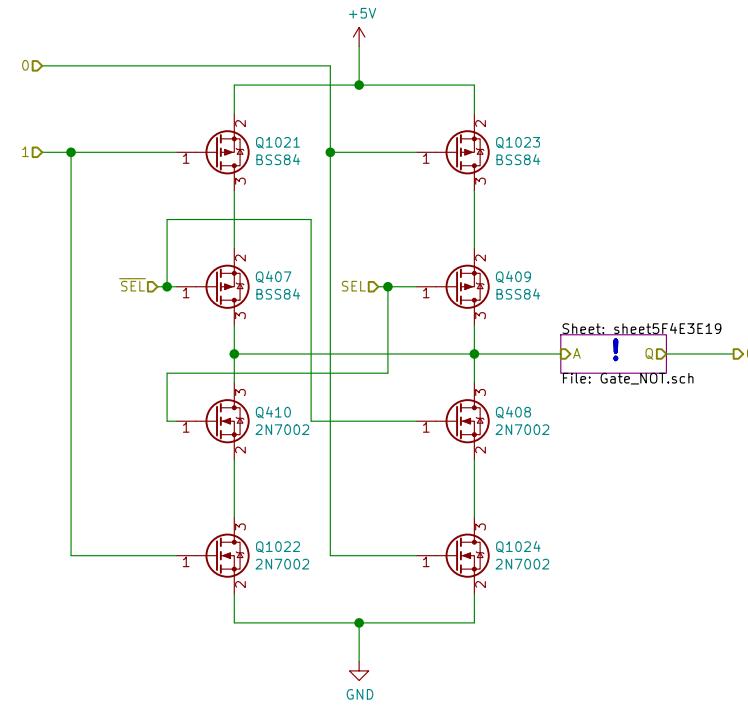
B

C

C

D

D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED416D9/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 107/360

A

B

C

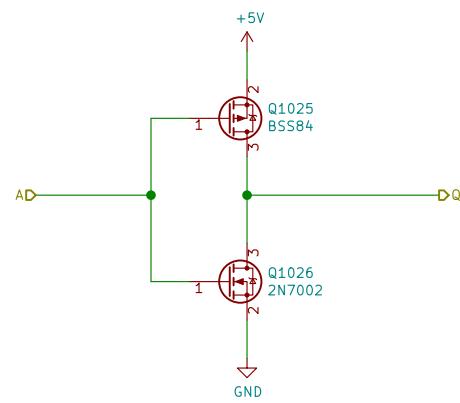
D

A

B

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED416D9/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 108/360

A

A

B

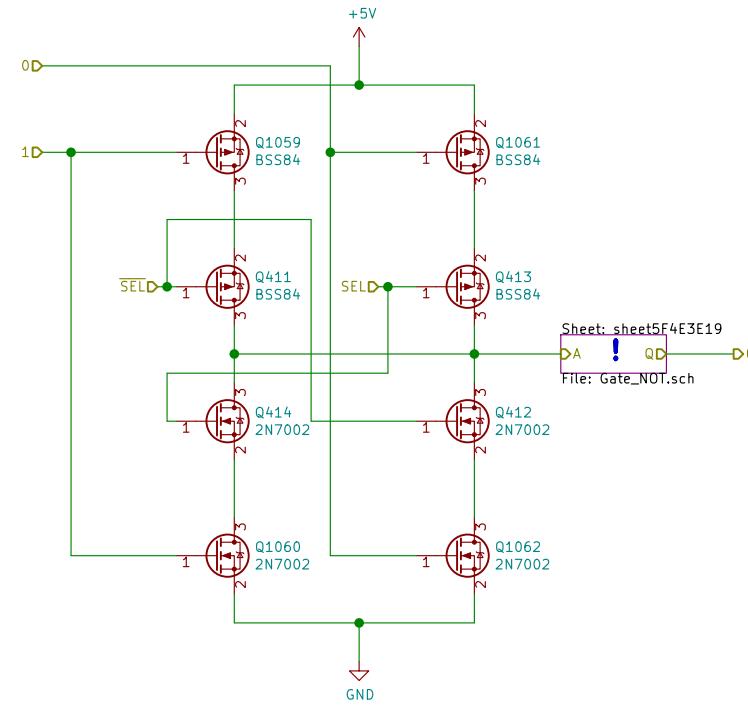
B

C

C

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED4298D/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 109/360

A

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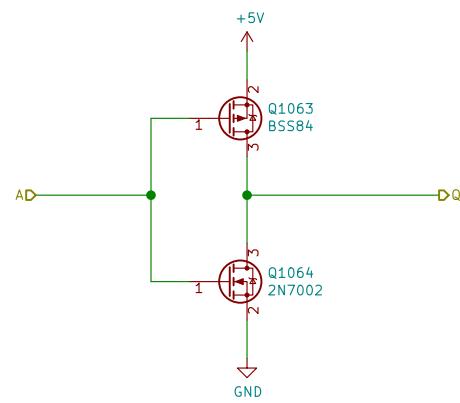
D

A

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED4298D/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 110/360

A

A

B

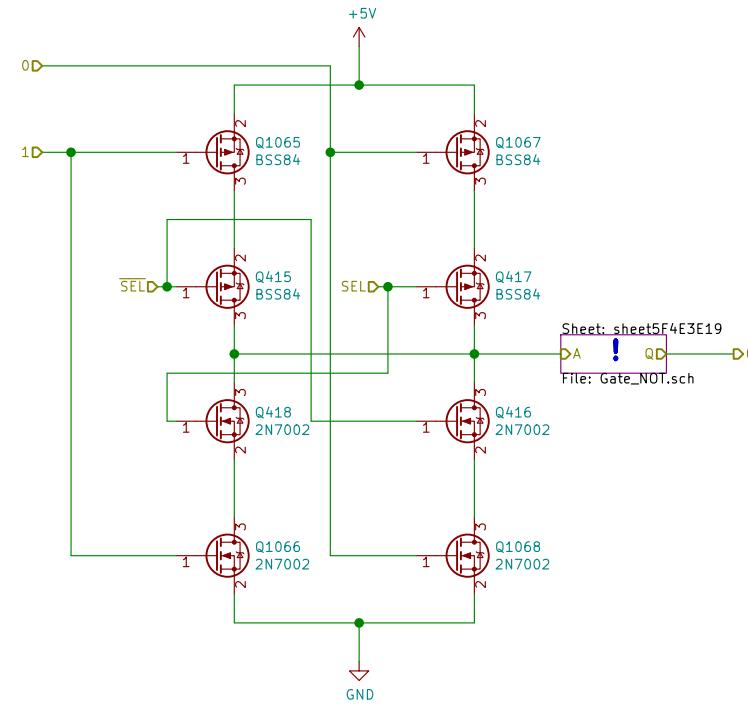
B

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D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED43BA7/  
File: Gate\_MUX.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 111/360

A

B

C

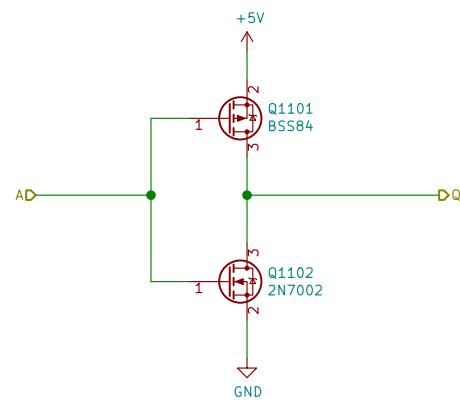
D

A

B

C

D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED43BA7/sheet5F4E3E19/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 112/360

A

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C

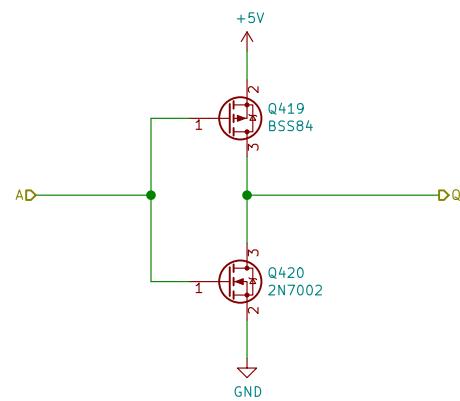
D

A

B

C

D



c  
Philipp Schilk

Sheet: /P2\_Switch/sheet5ED9B208/  
File: Gate\_NOT.sch

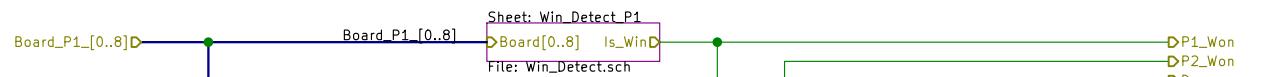
**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 113/360

1 2 3 4 5 6

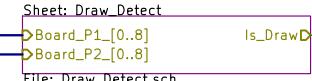
### Check if P1 Won



### Check if P2 Won



### Check if Draw



c  
**Philipp Schilk**  
Sheet: /EndState\_Detect/  
File: EndState\_Detect.sch

#### Title:

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 114/360

1 2 3 4 5 6

A

A

B

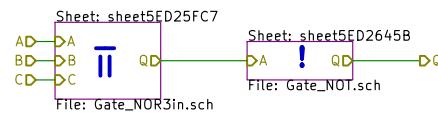
B

C

C

D

D



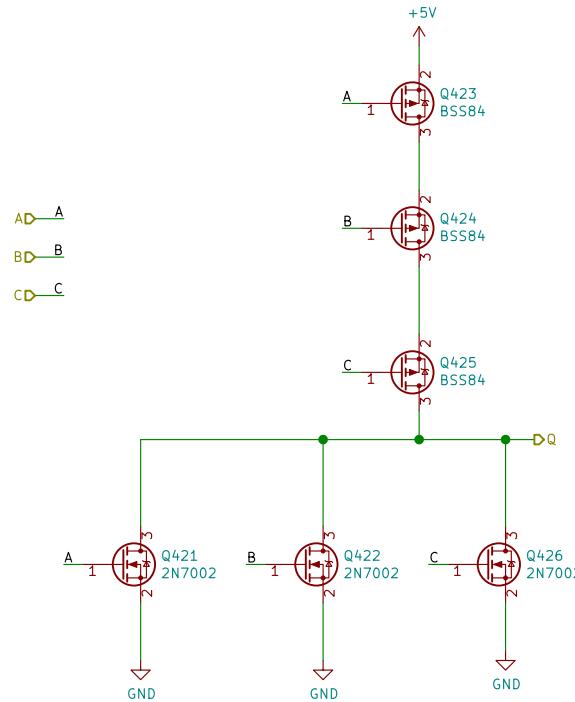
c  
Philipp Schilk

Sheet: /EndState\_Detect/sheet5ED298A3/  
File: Gate\_OR3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 115/360



c  
Philipp Schilk  
Sheet: /EndState\_Detect/sheet5ED298A3/sheet5ED25FC7/  
File: Gate\_NOR3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 116/360

A

B

C

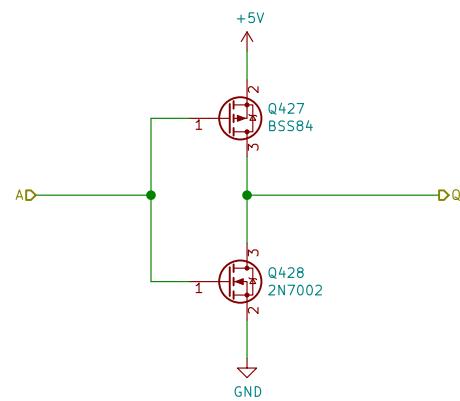
D

A

B

C

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/sheet5ED298A3/sheet5ED2645B/  
File: Gate\_NOT.sch

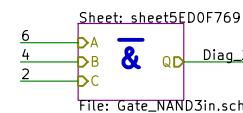
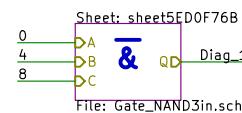
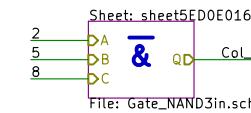
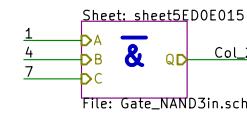
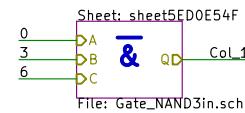
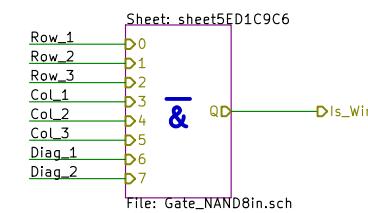
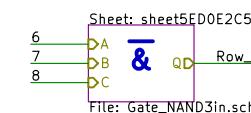
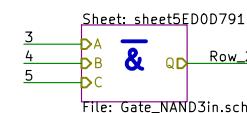
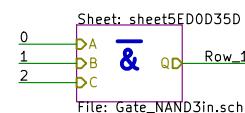
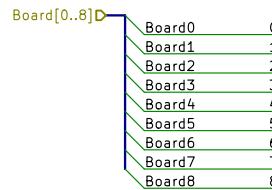
**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 117/360

1 2 3 4 5 6

Checks if a Player has won by AND-ing all Rows, Cols, and Diags individually



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/  
File: Win\_Detect.sch

Title:

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 118/360

1 2 3 4 5 6

A

A

B

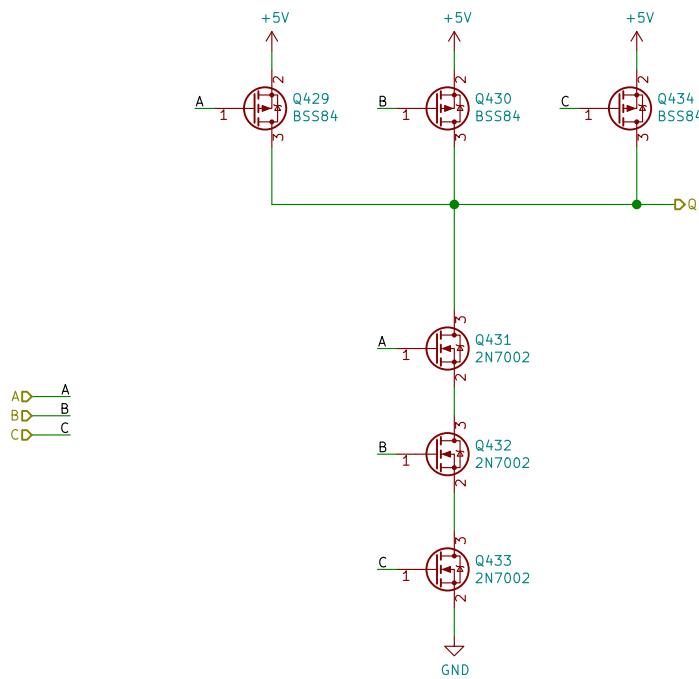
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0D350/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 119/360

A

A

B

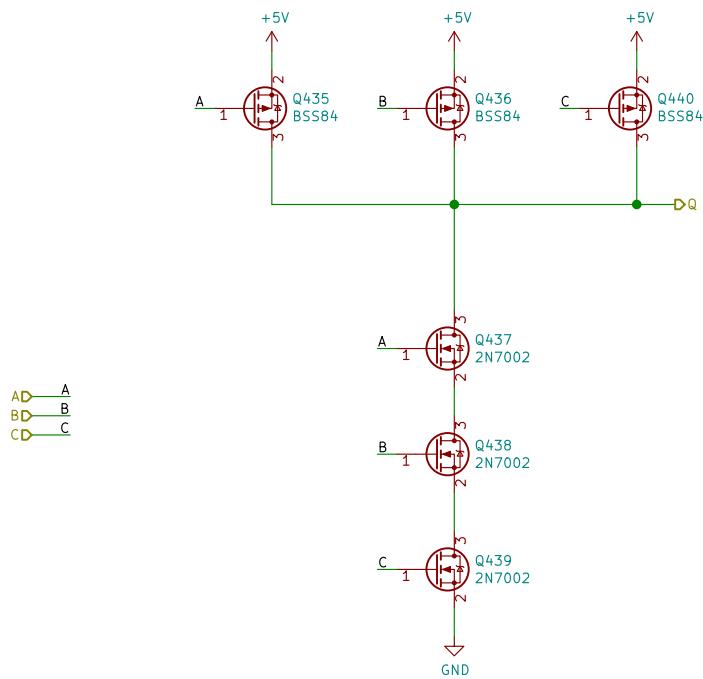
B

C

C

D

D



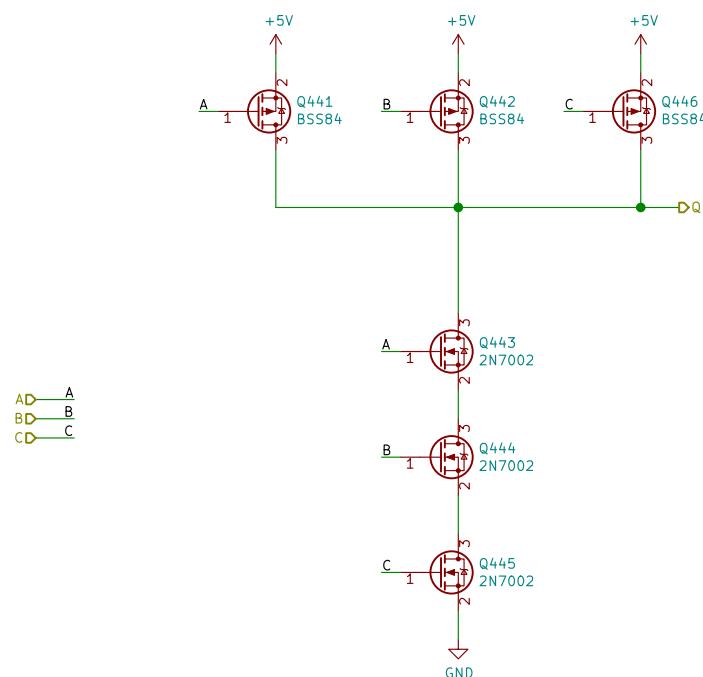
c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0D791/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 120/360



C  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0E015/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 121/360

A

A

B

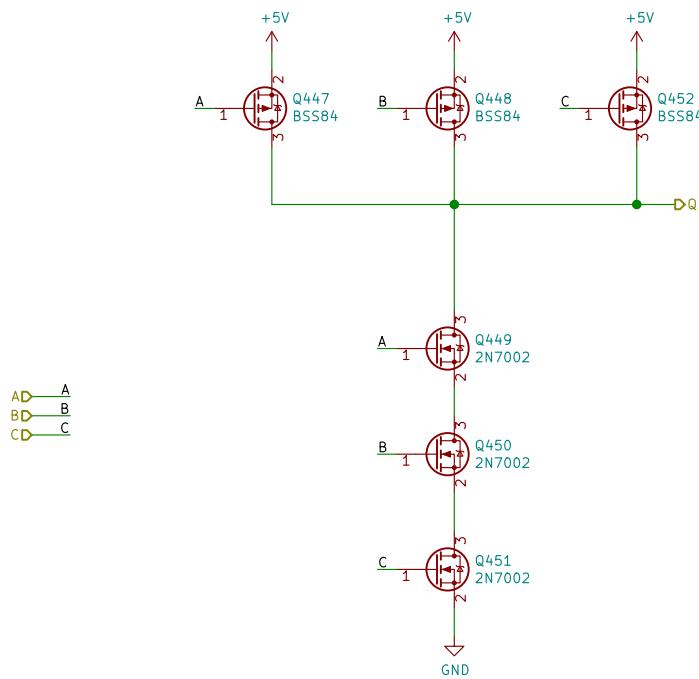
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0E016/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 122/360

A

A

B

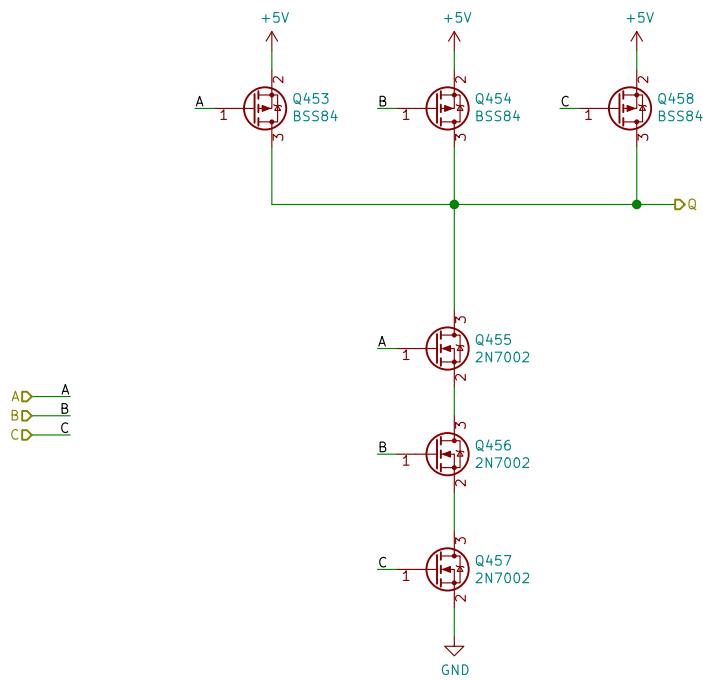
B

C

C

D

D



AD—A  
BD—B  
CD—C

c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0E2C5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 123/360

A

A

B

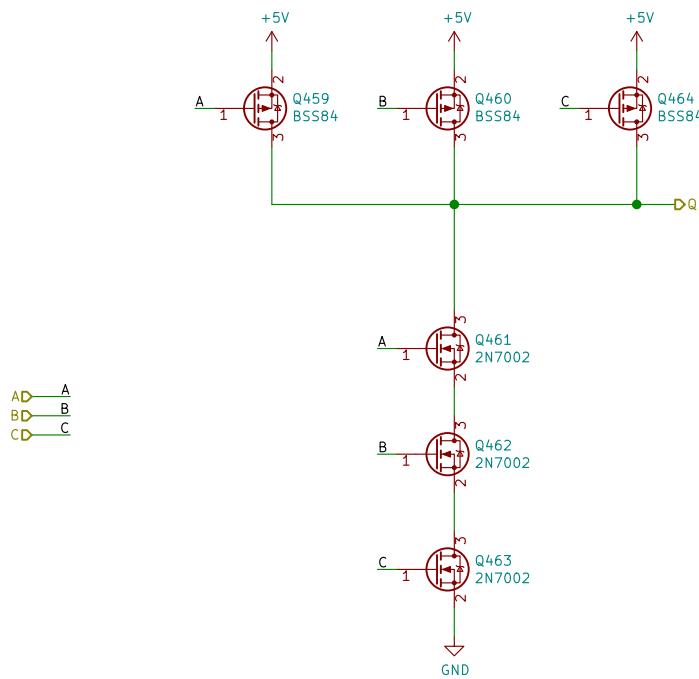
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0E54F/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 124/360

A

A

B

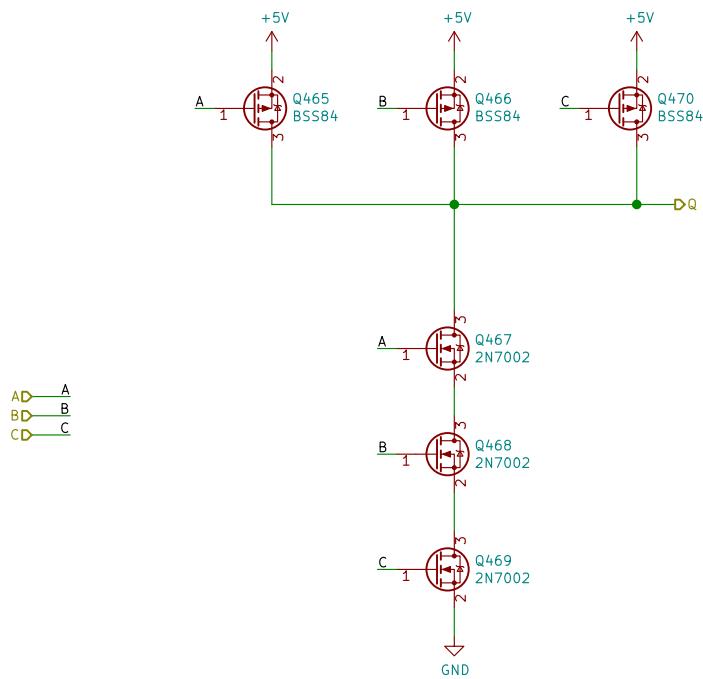
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5EDOF769/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 125/360

A

A

B

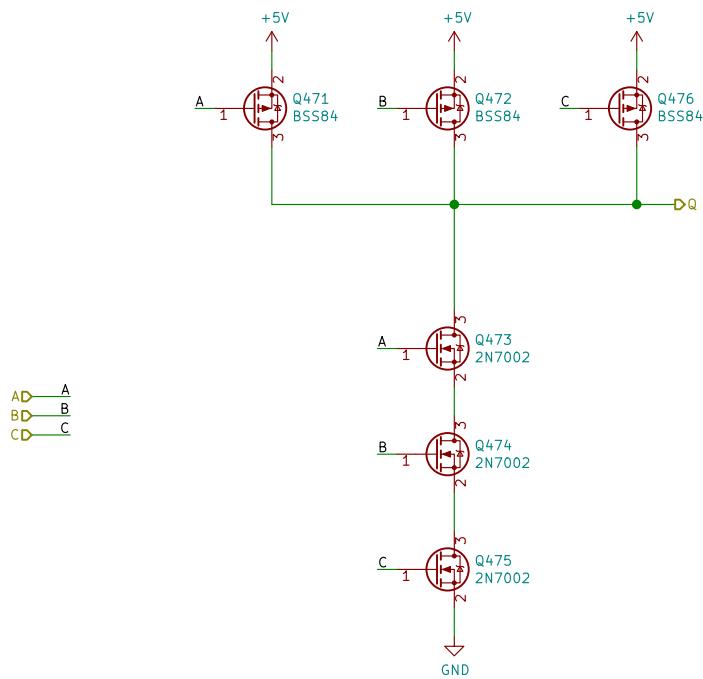
B

C

C

D

D



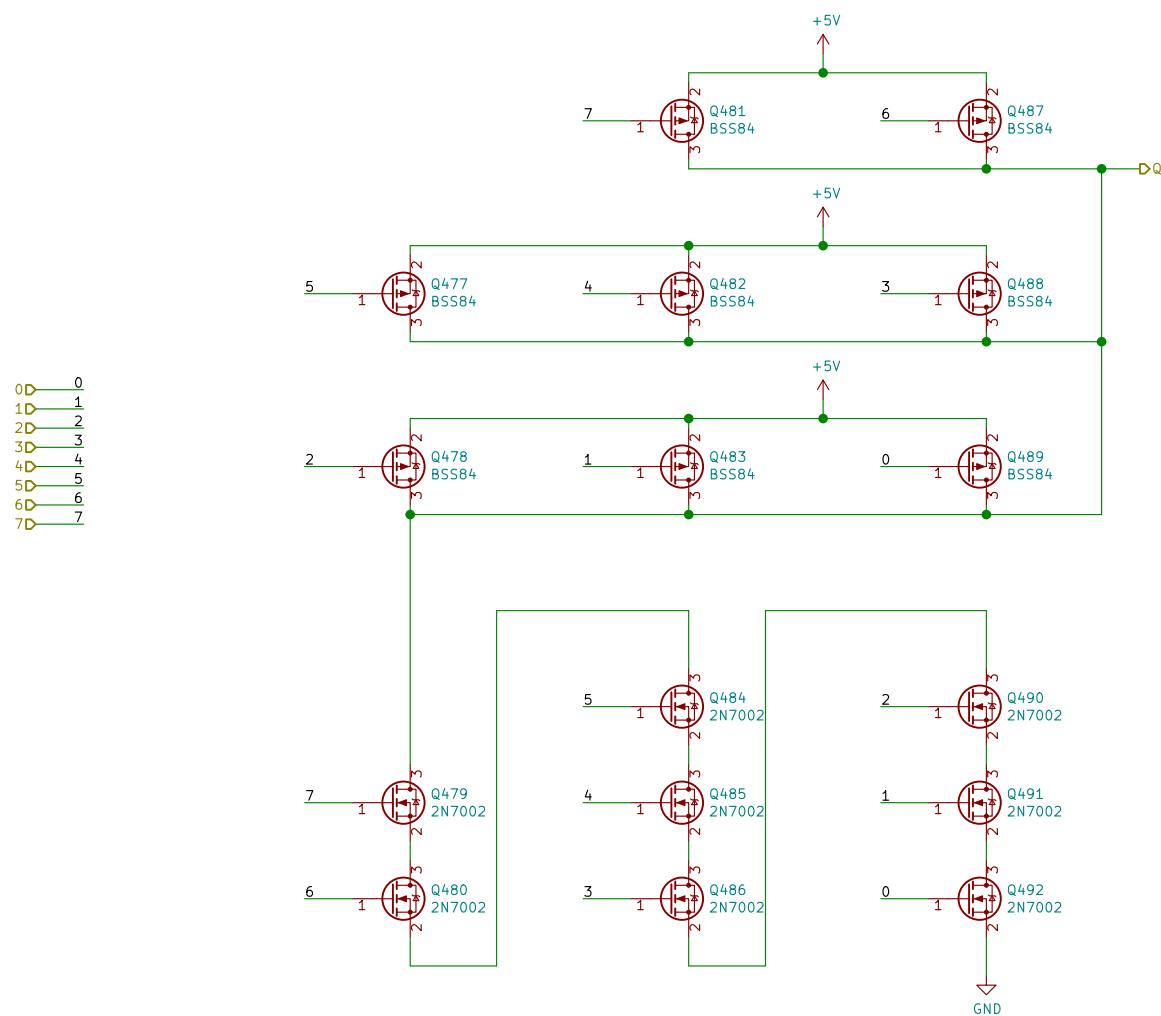
c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED0F76B/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 126/360



C  
Philip Schilk

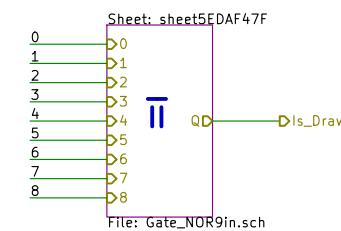
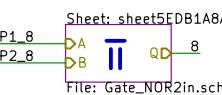
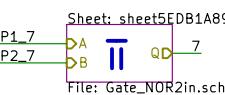
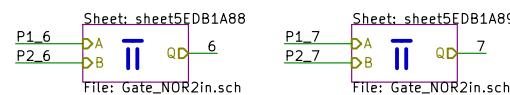
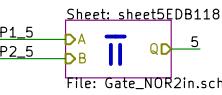
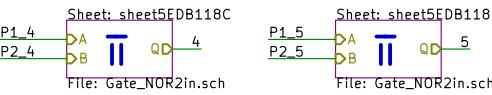
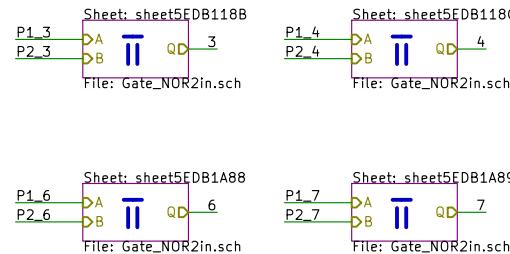
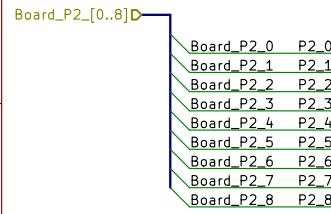
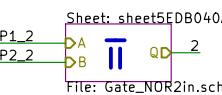
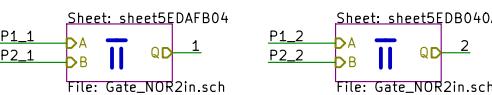
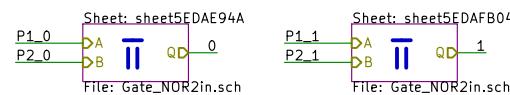
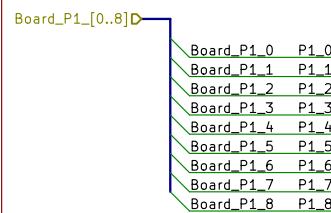
Sheet: /EndState\_Detect/Win\_Detect\_P1/sheet5ED1C9C6/  
File: Gate\_NAND8in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 127/360

1 2 3 4 5 6



c  
**Philipp Schilk**

Sheet: /EndState\_Detect/Draw\_Detect/  
File: Draw\_Detect.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 128/360

1 2 3 4 5 6

A

A

B

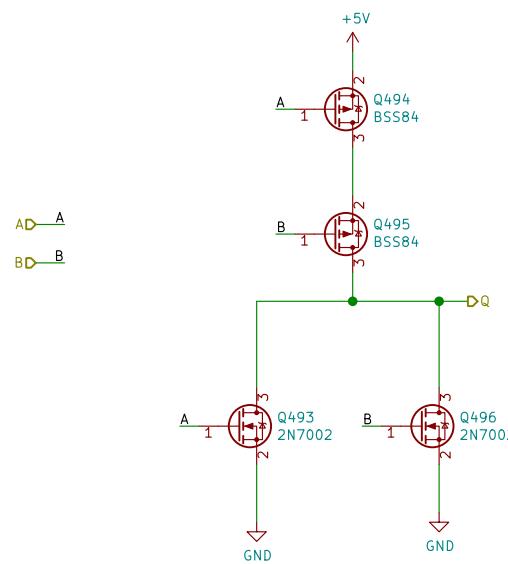
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDAE94A/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 129/360

A

B

C

D

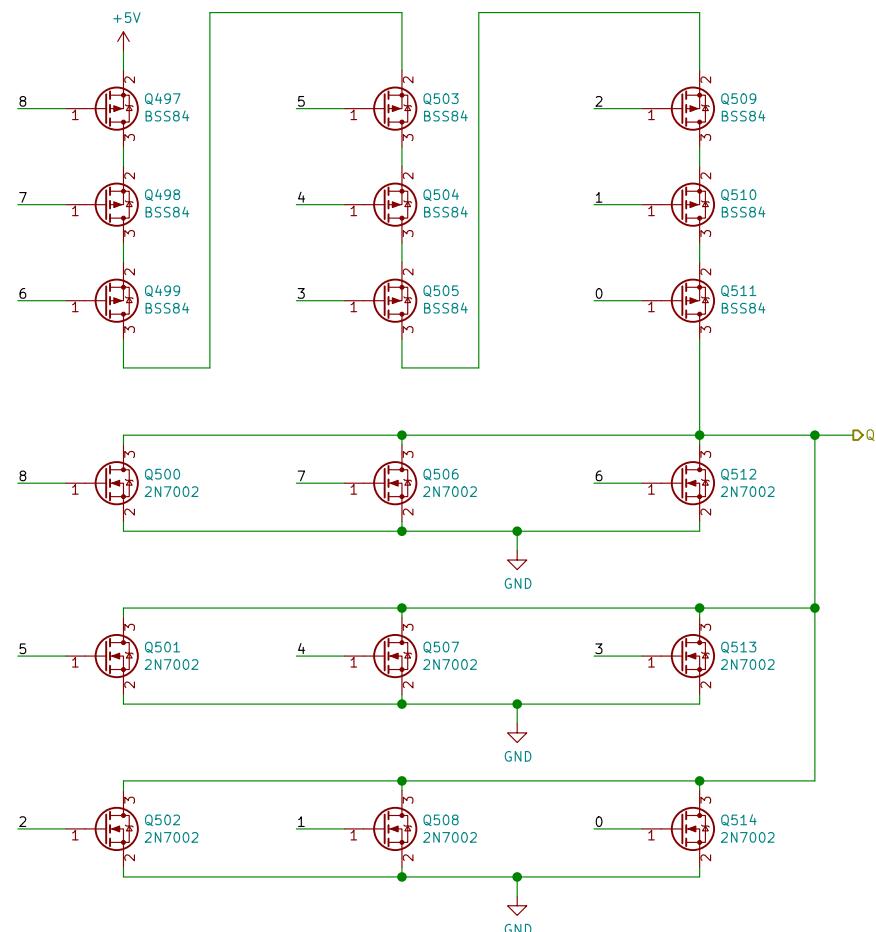
A

B

C

D

0D 0  
1D 1  
2D 2  
3D 3  
4D 4  
5D 5  
6D 6  
7D 7  
8D 8



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDAF47F/  
File: Gate\_NOR9in.sch

**Title:**

Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	

Rev: v0.0
Id: 130/360

A

A

B

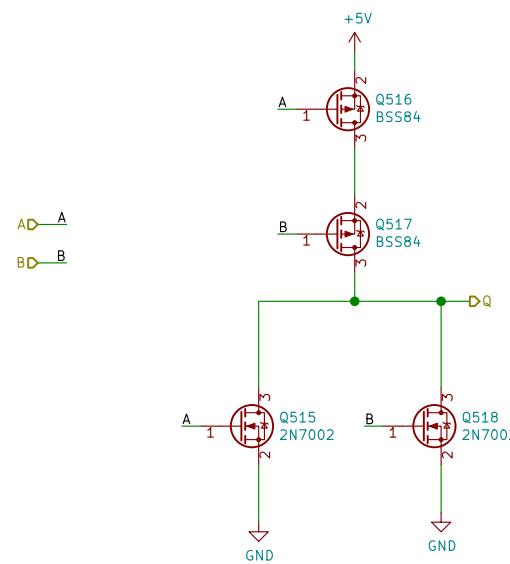
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDAFB04/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 131/360

A

A

B

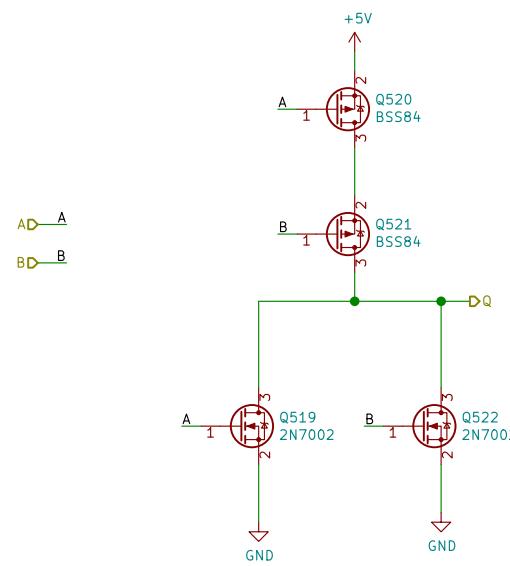
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB118B/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 132/360

A

A

B

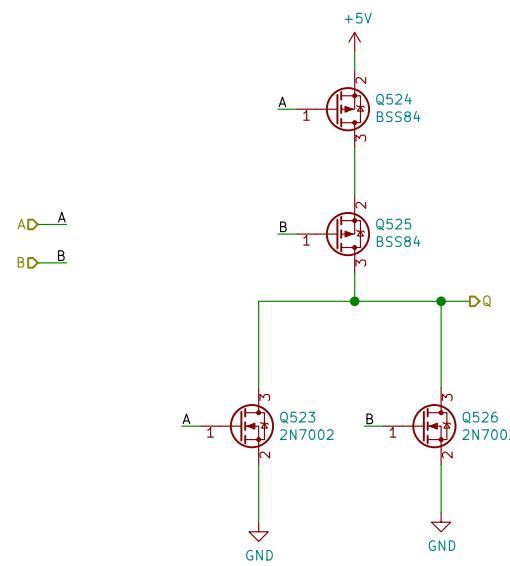
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB118C/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 133/360

A

A

B

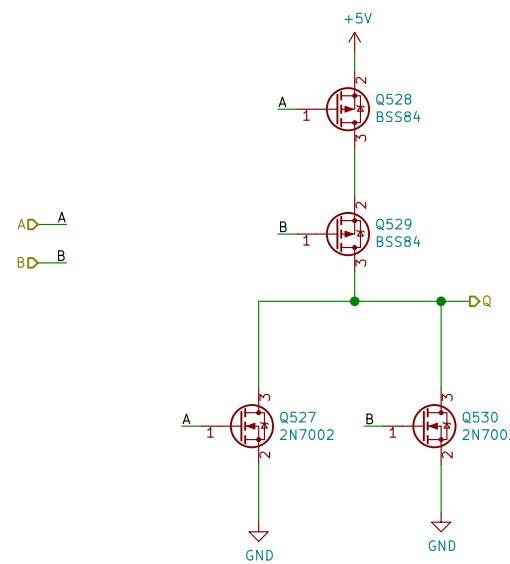
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB118D/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 134/360

A

A

B

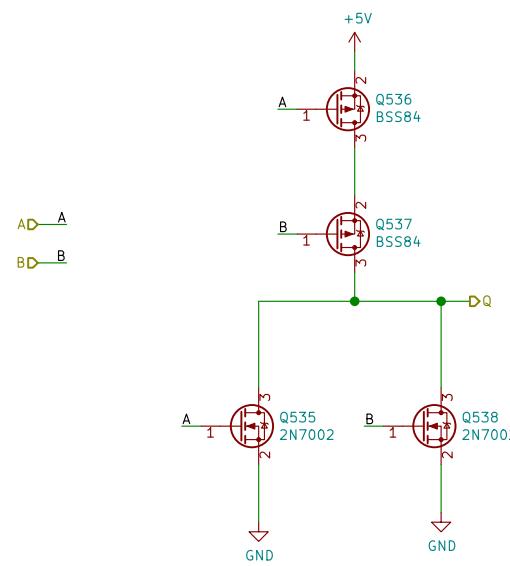
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB1A89/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 135/360

A

A

B

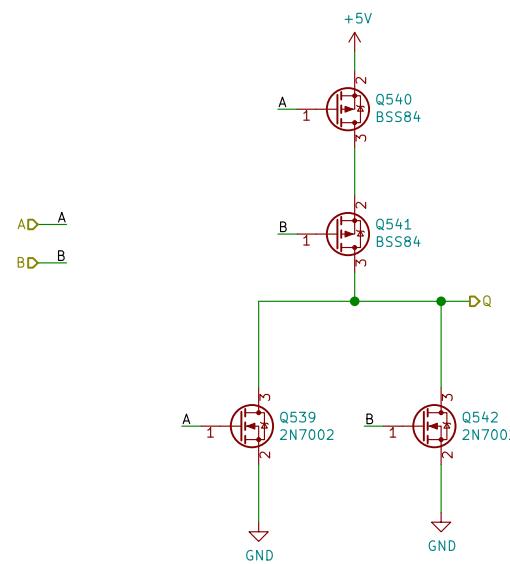
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB1A8A/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 136/360

A

A

B

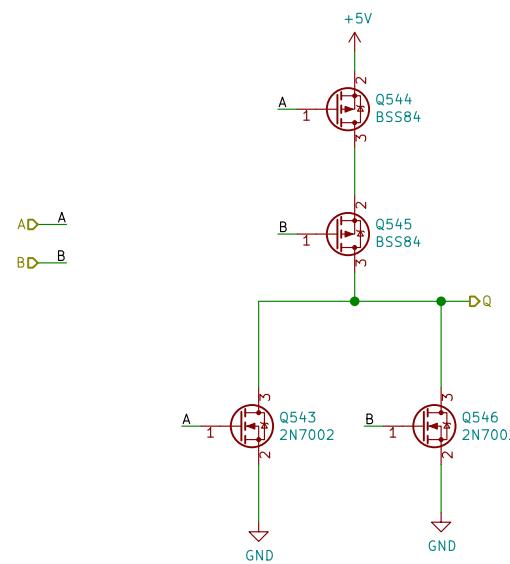
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB040A/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 137/360

A

A

B

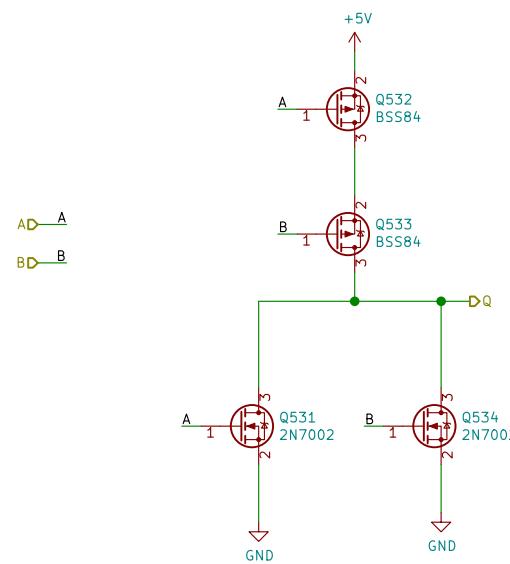
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Draw\_Detect/sheet5EDB1A88/  
File: Gate\_NOR2in.sch

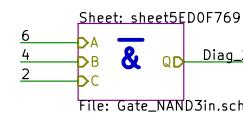
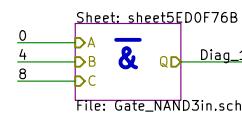
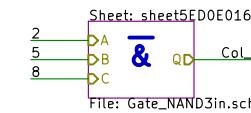
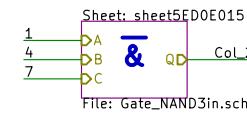
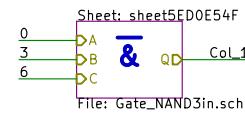
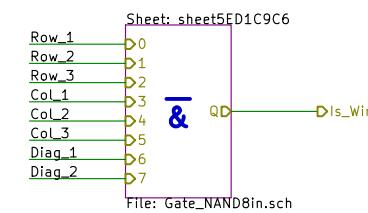
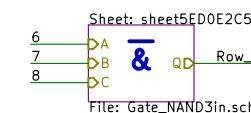
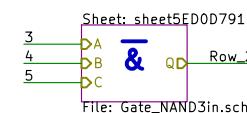
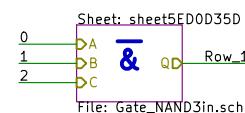
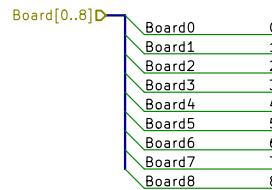
**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 138/360

1 2 3 4 5 6

Checks if a Player has won by AND-ing all Rows, Cols, and Diags individually



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/  
File: Win\_Detect.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 139/360

1 2 3 4 5 6

A

A

B

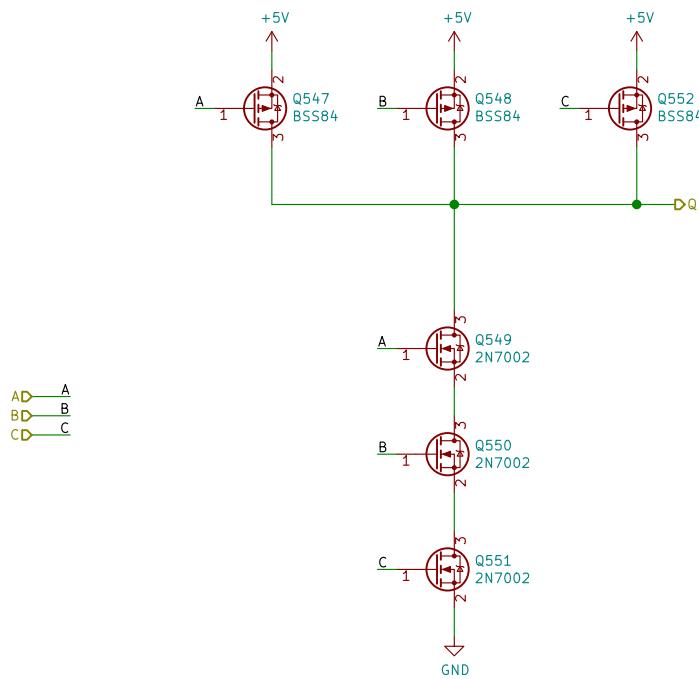
B

C

C

D

D



AD  
BD  
CD

c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0D350/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 140/360

A

A

B

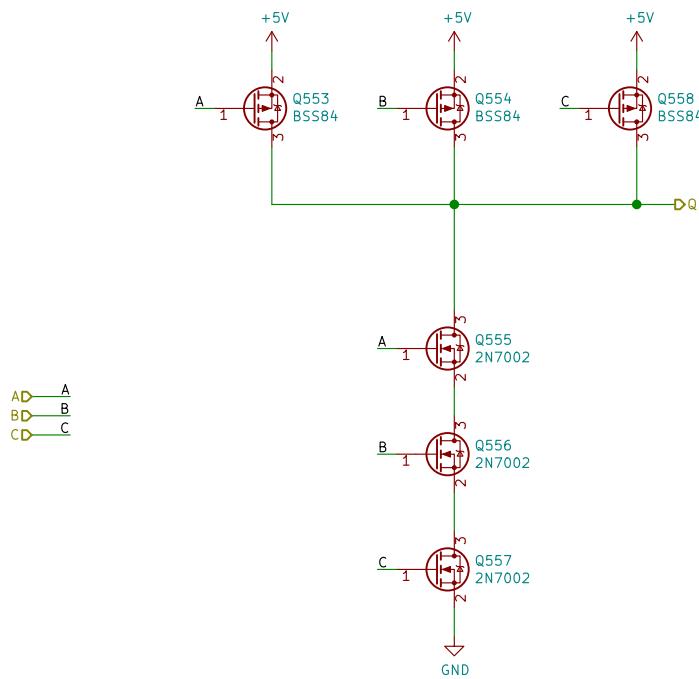
B

C

C

D

D



c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0D791/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 141/360

A

A

B

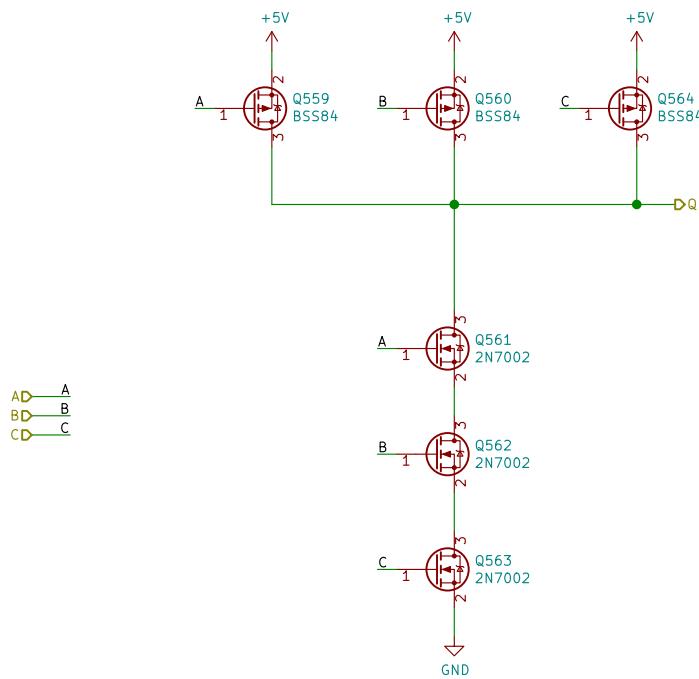
B

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c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0E015/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 142/360

A

A

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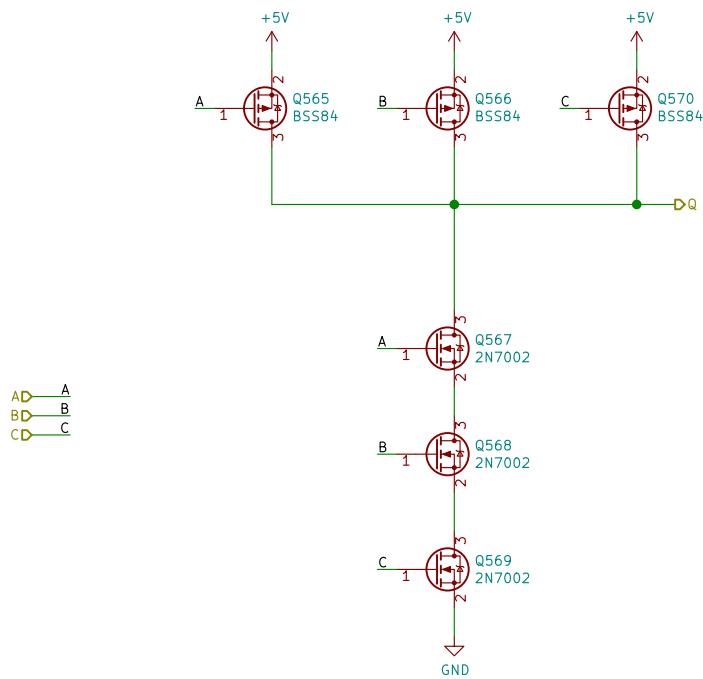
B

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c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0E016/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 143/360

A

A

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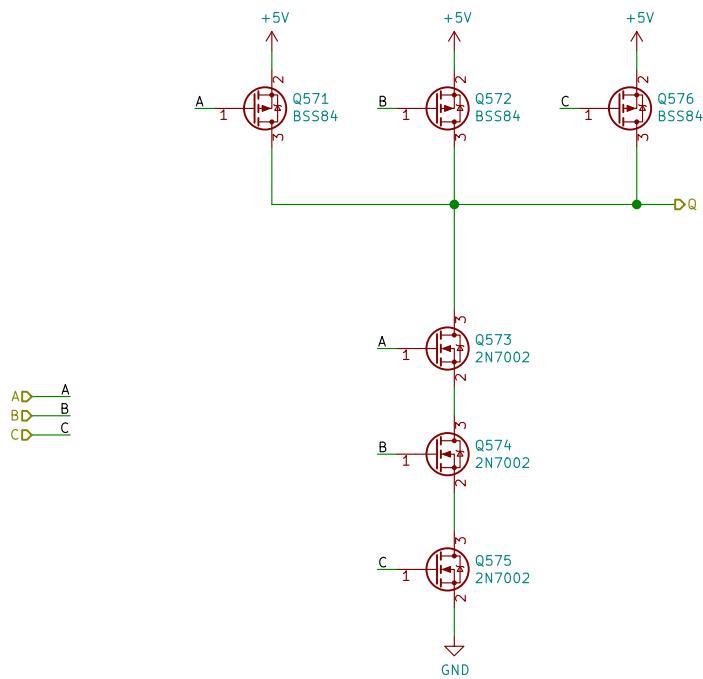
B

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AD—A  
BD—B  
CD—C

c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0E2C5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 144/360

A

A

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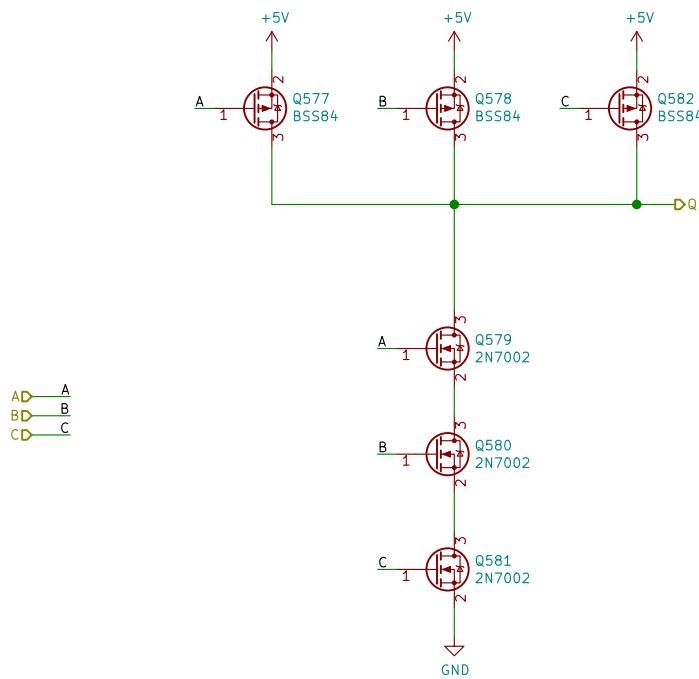
B

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c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0E54F/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 145/360

A

A

B

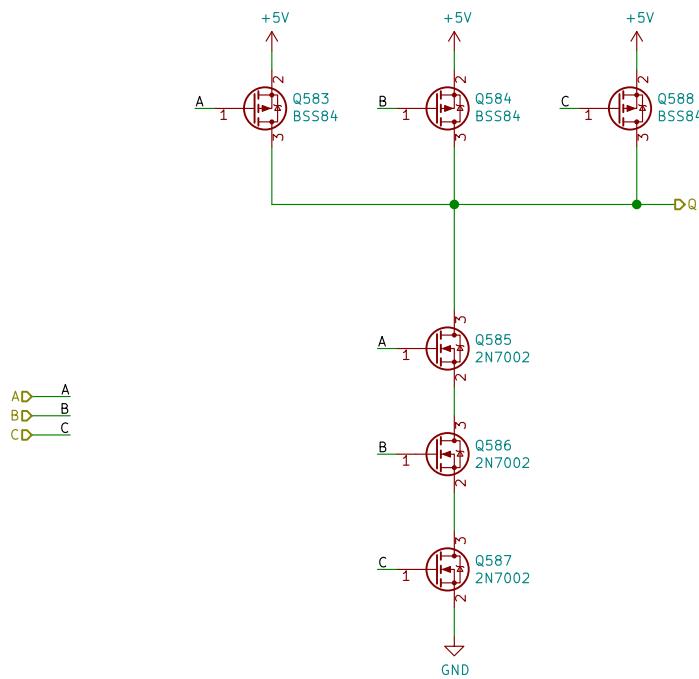
B

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c  
Philipp Schilk

Sheet: /EndState\_Detect/Win\_Detect\_P2/sheet5ED0F769/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 146/360

A

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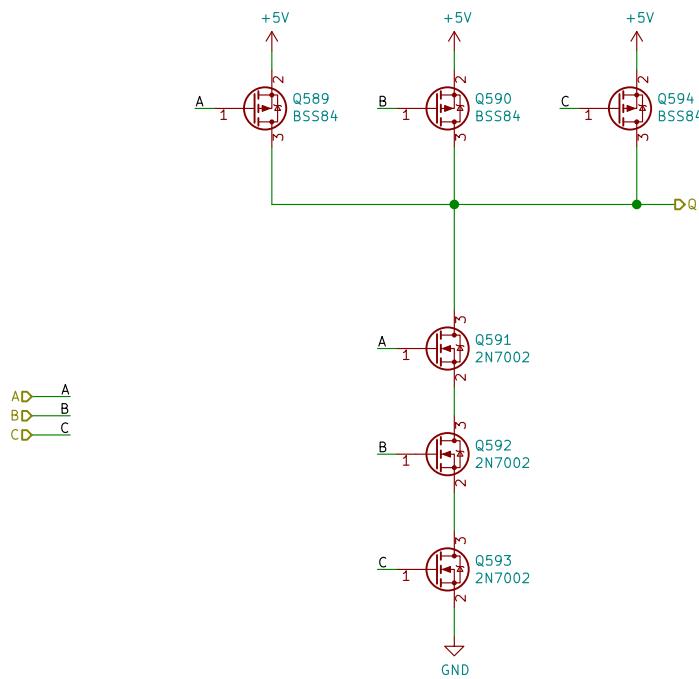
B

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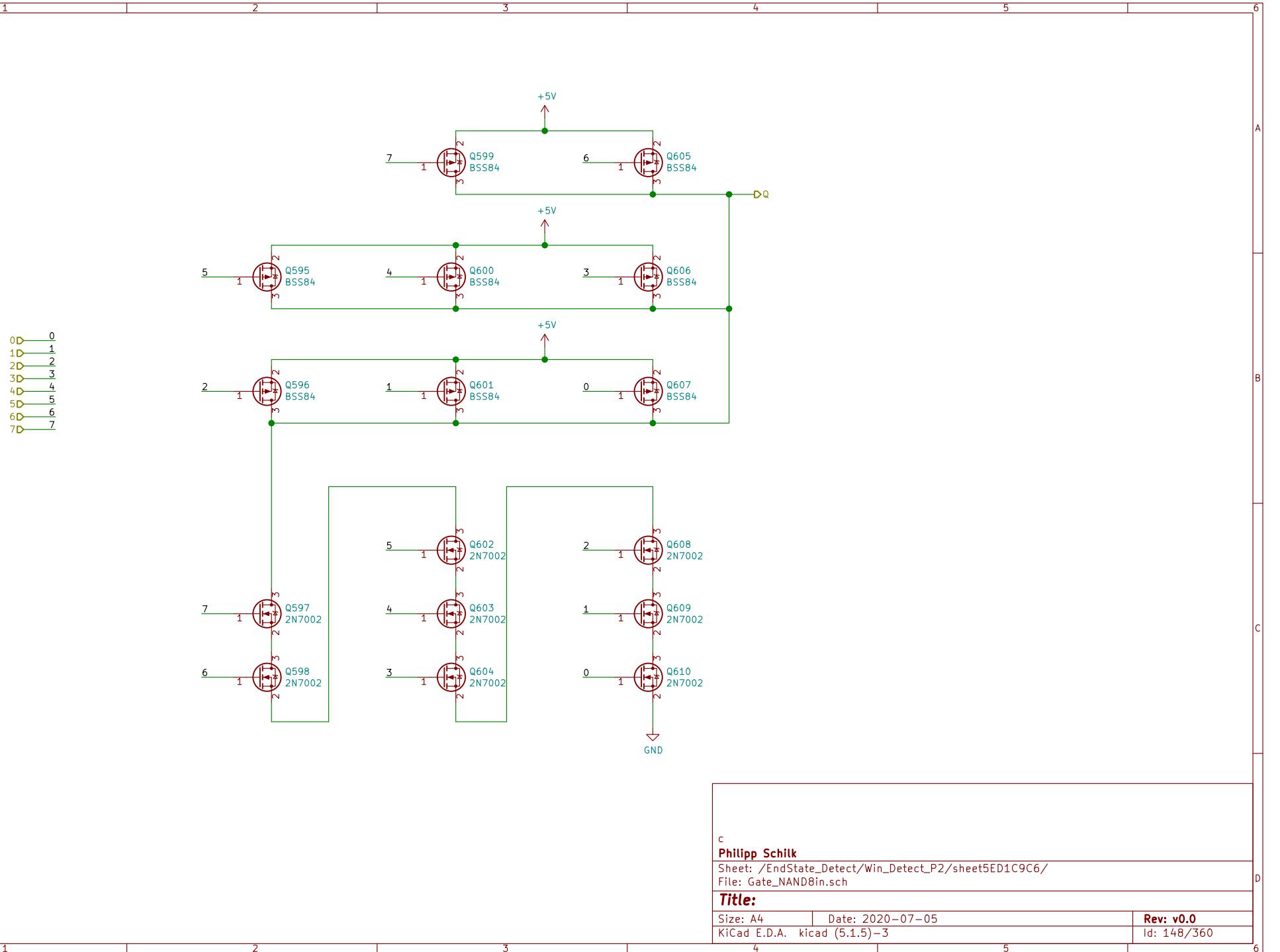
c  
Philipp Schilk

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File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 147/360



c  
Philipp Schilk

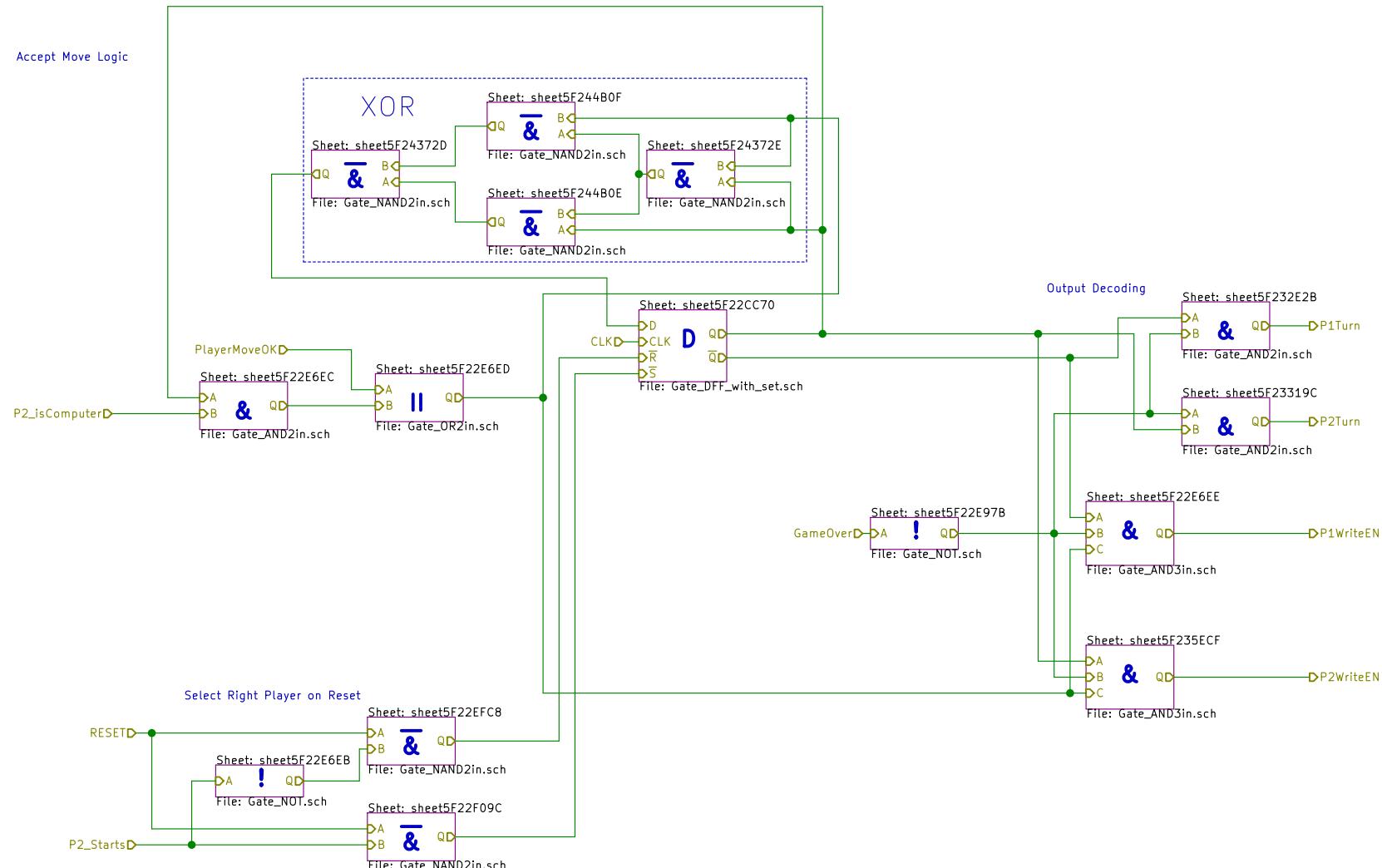
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**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 148/360

## Accept Move Logic

c  
Philipp SchilkSheet: /StateMaschine/  
File: StateMaschine.sch**Title:**Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 149/360

A

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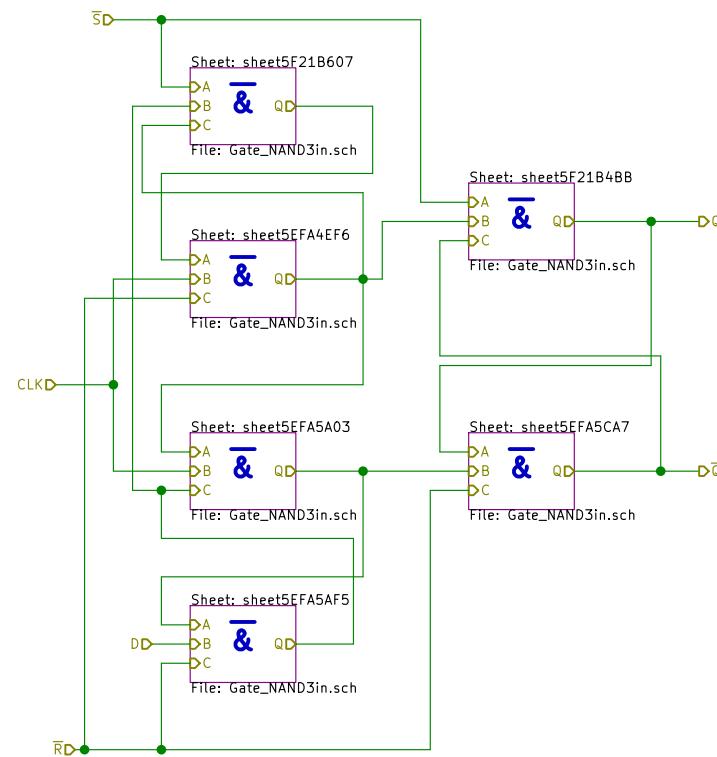
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Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/  
File: Gate\_DFF\_with\_set.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 150/360

A

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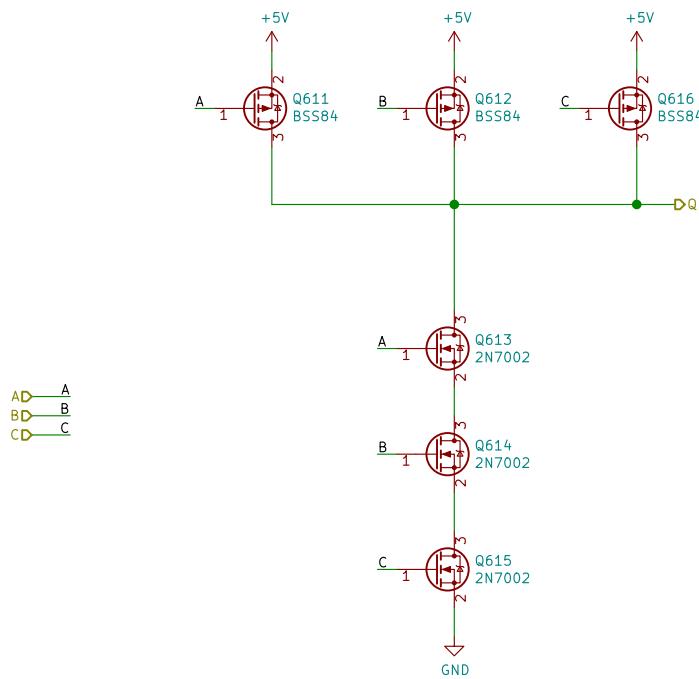
B

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Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 151/360

A

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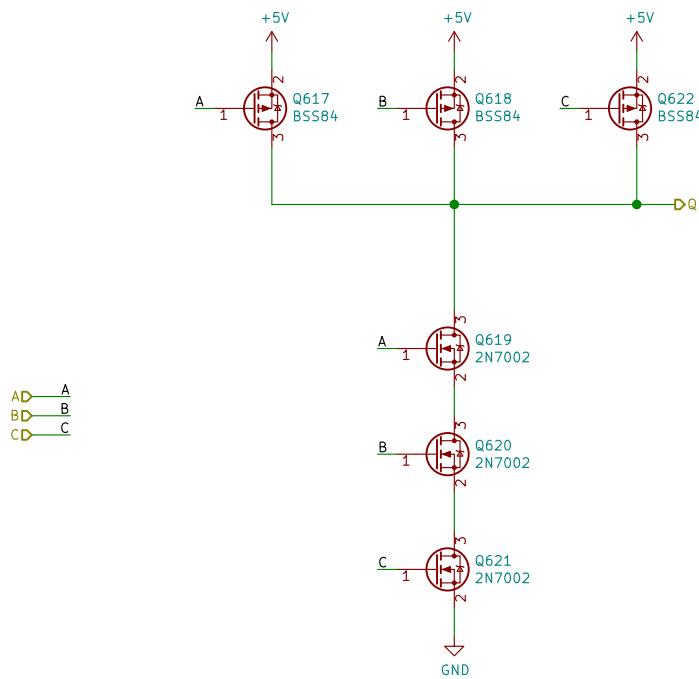
B

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Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 152/360

A

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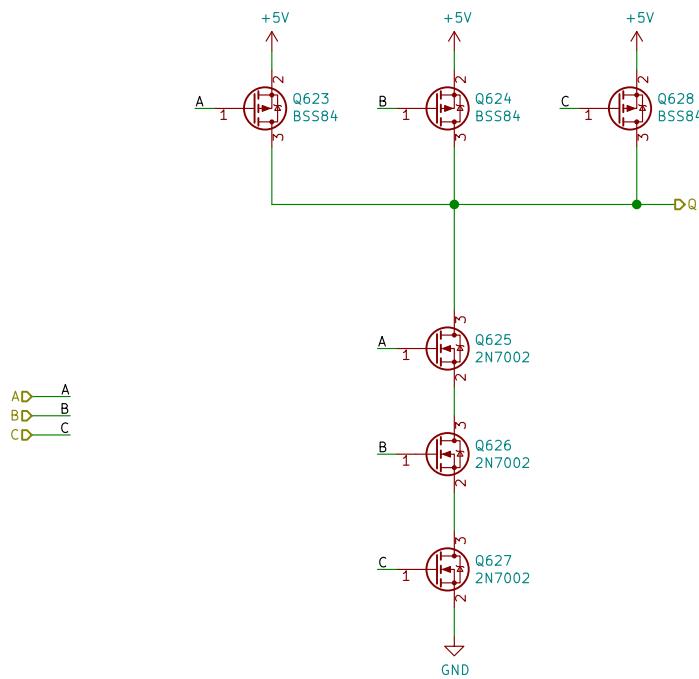
B

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c  
Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 153/360

A

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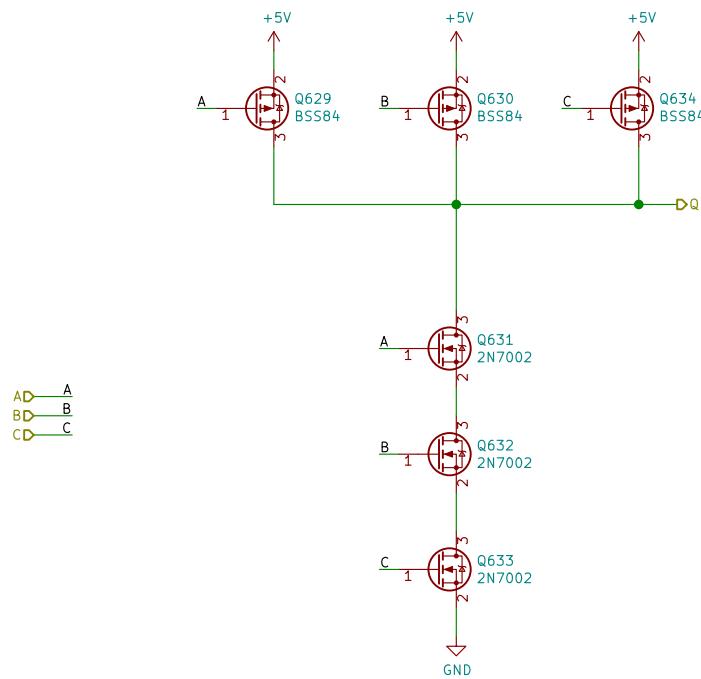
B

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Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 154/360

A

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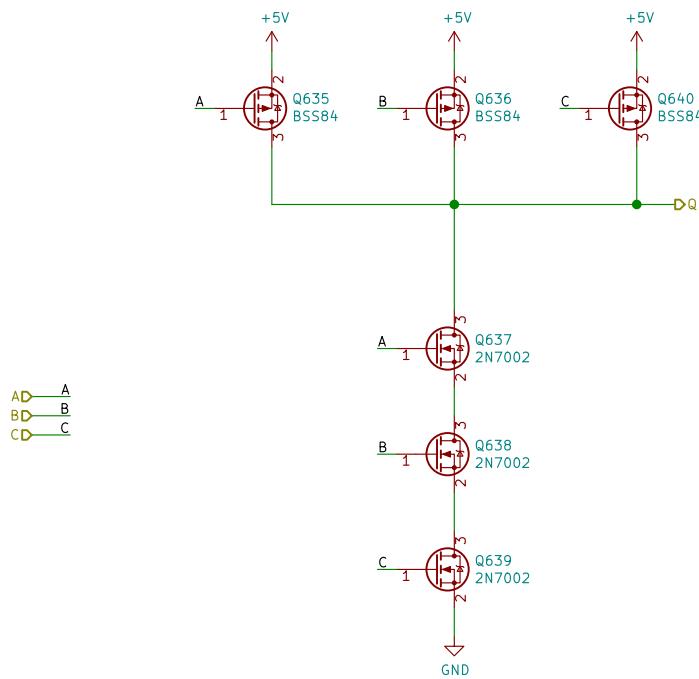
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Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/sheet5F21B4BB/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 155/360

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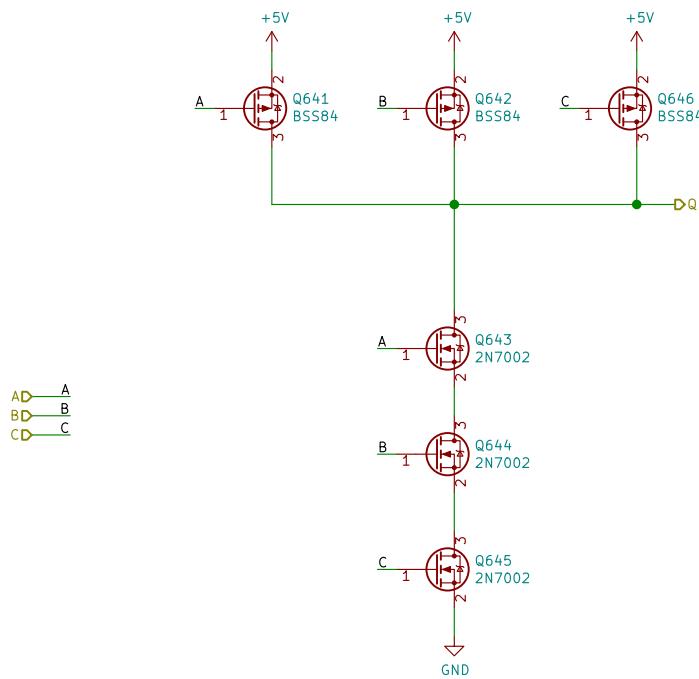
B

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Philipp Schilk

Sheet: /StateMaschine/sheet5F22CC70/sheet5F21B607/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 156/360

A

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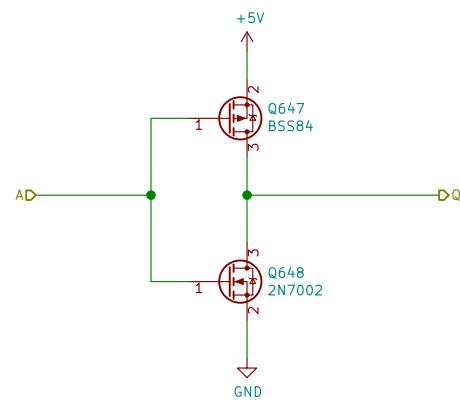
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Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6EB/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 157/360

A

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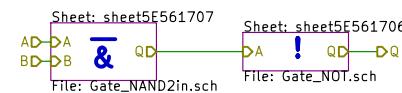
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Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6EC/  
File: Gate\_AND2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 158/360

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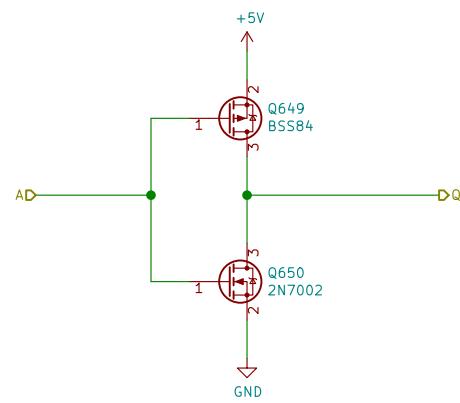
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Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6EC/sheet5E561706/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

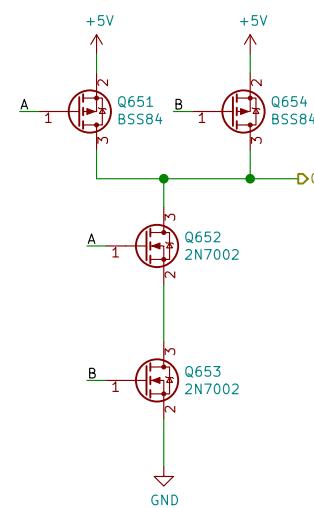
Rev: v0.0  
Id: 159/360

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AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F22E6EC/sheet5E561707/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 160/360

A

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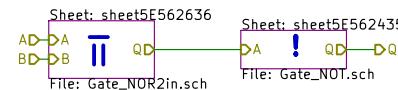
B

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**Philipp Schilk**

Sheet: /StateMaschine/sheet5F22E6ED/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 161/360

A

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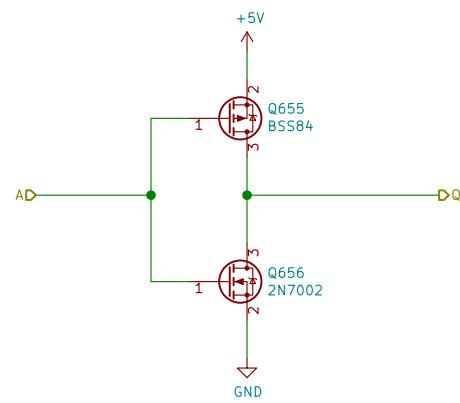
D

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Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6ED/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 162/360

A

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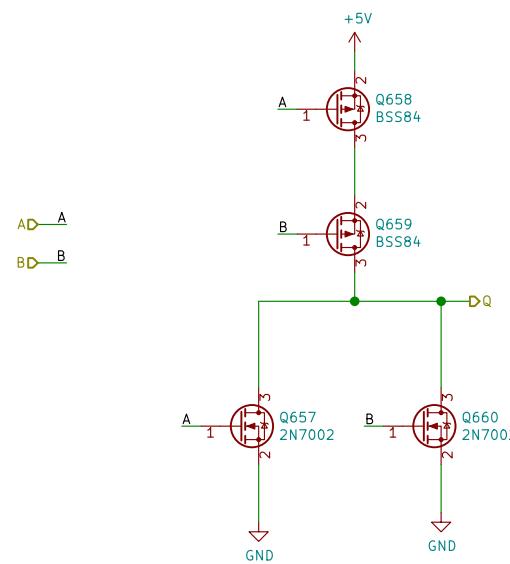
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c  
Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6ED/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
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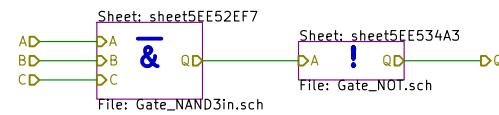
Rev: v0.0  
Id: 163/360

A

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**Philipp Schilk**  
Sheet: /StateMaschine/sheet5F22E6EE/  
File: Gate\_AND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 164/360

A

A

B

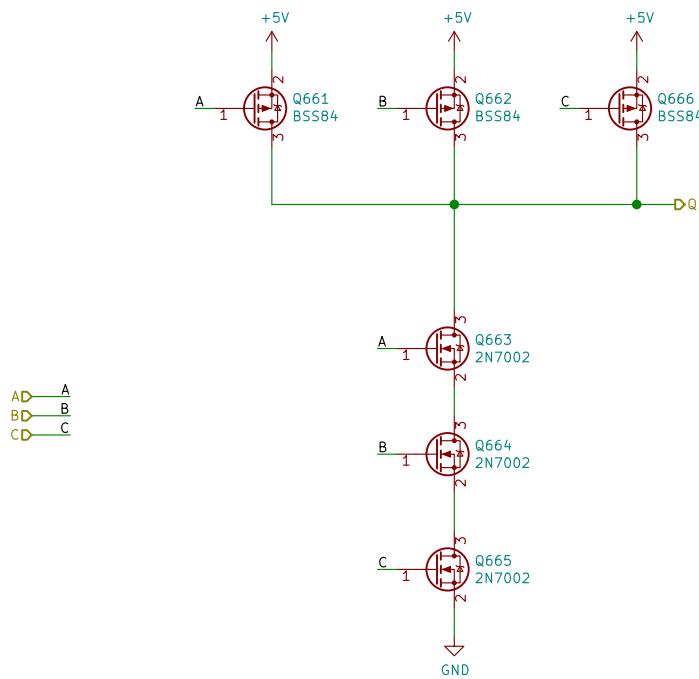
B

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Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6EE/sheet5EE52EF7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 165/360

A

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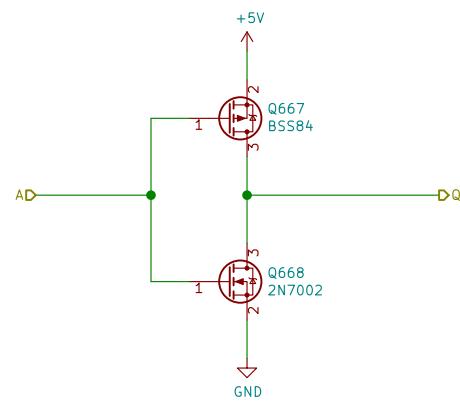
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Philipp Schilk

Sheet: /StateMaschine/sheet5F22E6EE/sheet5EE534A3/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 166/360

A

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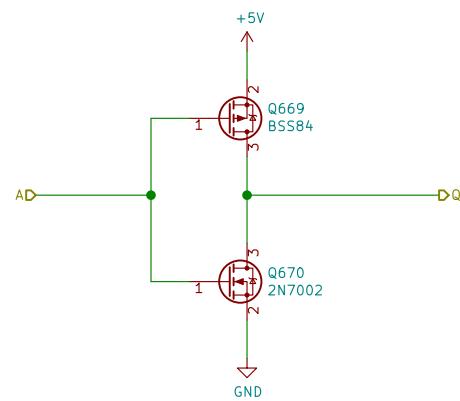
D

A

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c  
Philipp Schilk

Sheet: /StateMaschine/sheet5F22E97B/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
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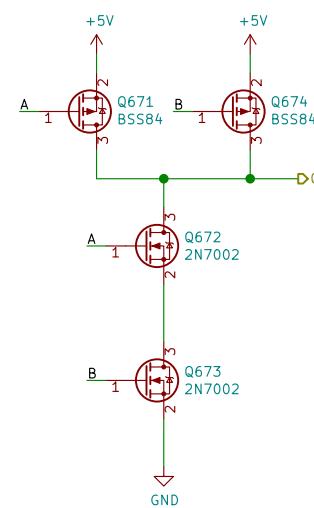
**Rev: v0.0**  
Id: 167/360

A

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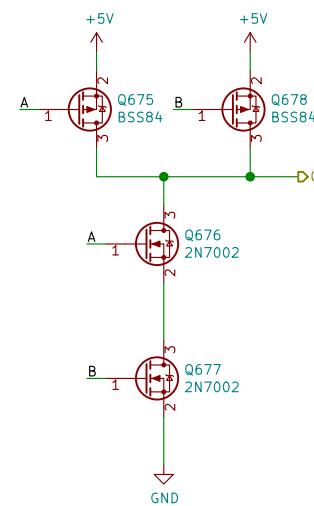
AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F22EFC8/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 168/360

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AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F22F09C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 169/360

A

A

B

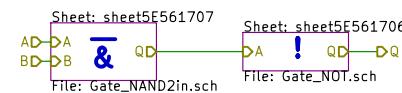
B

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Philipp Schilk

Sheet: /StateMaschine/sheet5F232E2B/  
File: Gate\_AND2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 170/360

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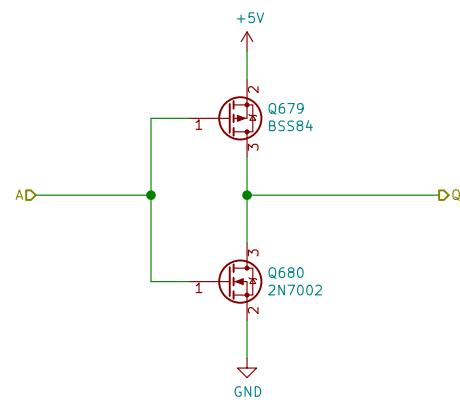
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Philipp Schilk

Sheet: /StateMaschine/sheet5F232E2B/sheet5E561706/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

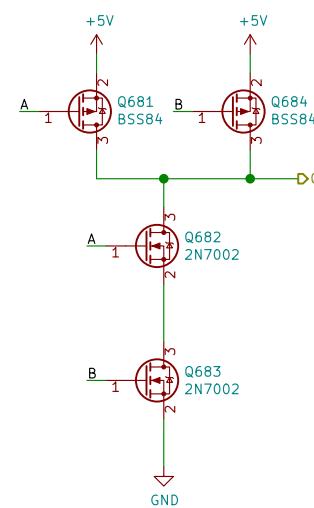
Rev: v0.0  
Id: 171/360

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AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F232E2B/sheet5E561707/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 172/360

A

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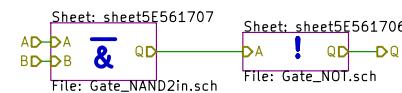
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Philipp Schilk

Sheet: /StateMaschine/sheet5F23319C/  
File: Gate\_AND2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 173/360

A

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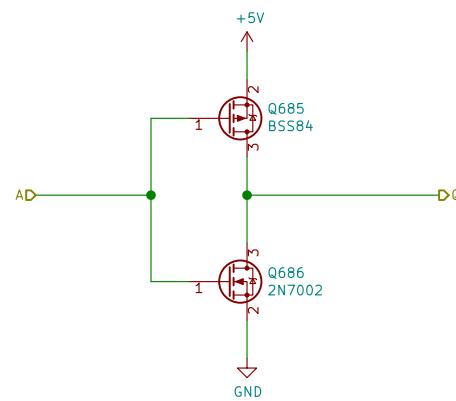
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Philipp Schilk

Sheet: /StateMaschine/sheet5F23319C/sheet5E561706/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

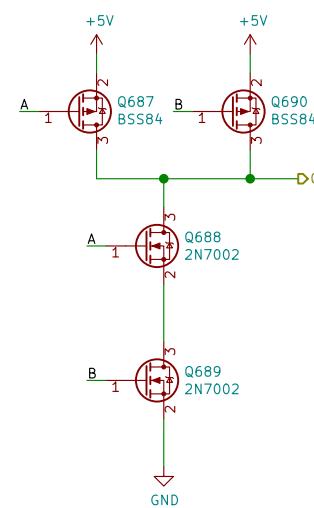
Rev: v0.0  
Id: 174/360

A

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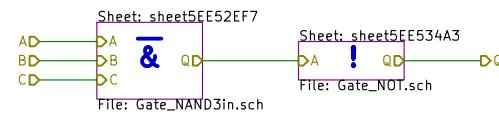
AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F23319C/sheet5E561707/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 175/360

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c  
**Philipp Schilk**  
Sheet: /StateMaschine/sheet5F235ECF/  
File: Gate\_AND3in.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 176/360

A

A

B

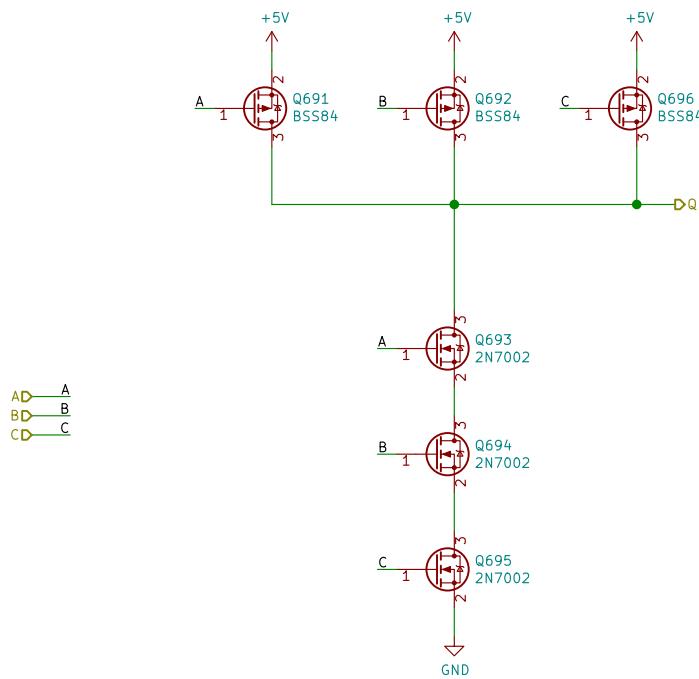
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c  
Philipp Schilk

Sheet: /StateMaschine/sheet5F235ECF/sheet5EE52EF7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 177/360

A

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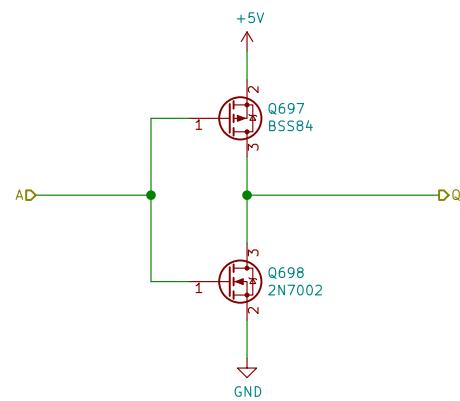
D

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Philipp Schilk

Sheet: /StateMaschine/sheet5F235ECF/sheet5EE534A3/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

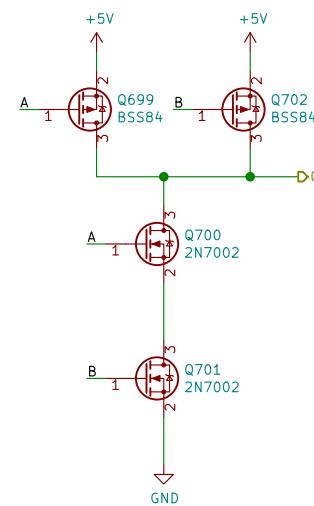
**Rev: v0.0**  
Id: 178/360

A

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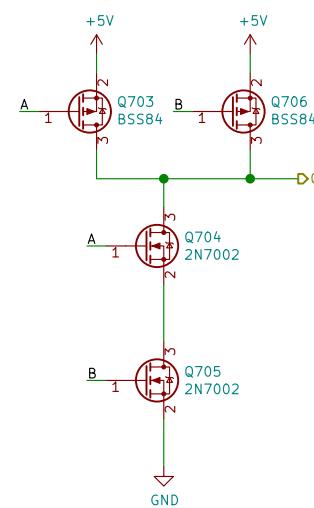
AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F24372D/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 179/360

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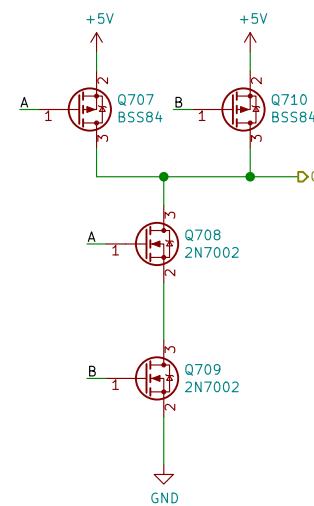
AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F24372E/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 180/360

A

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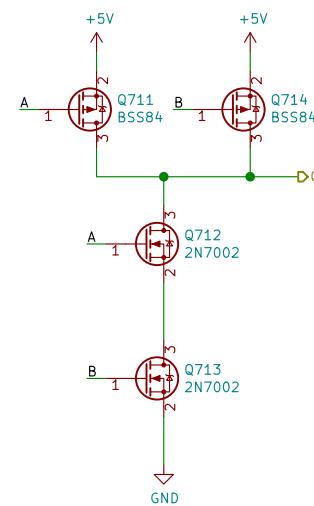
AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F244B0E/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 181/360

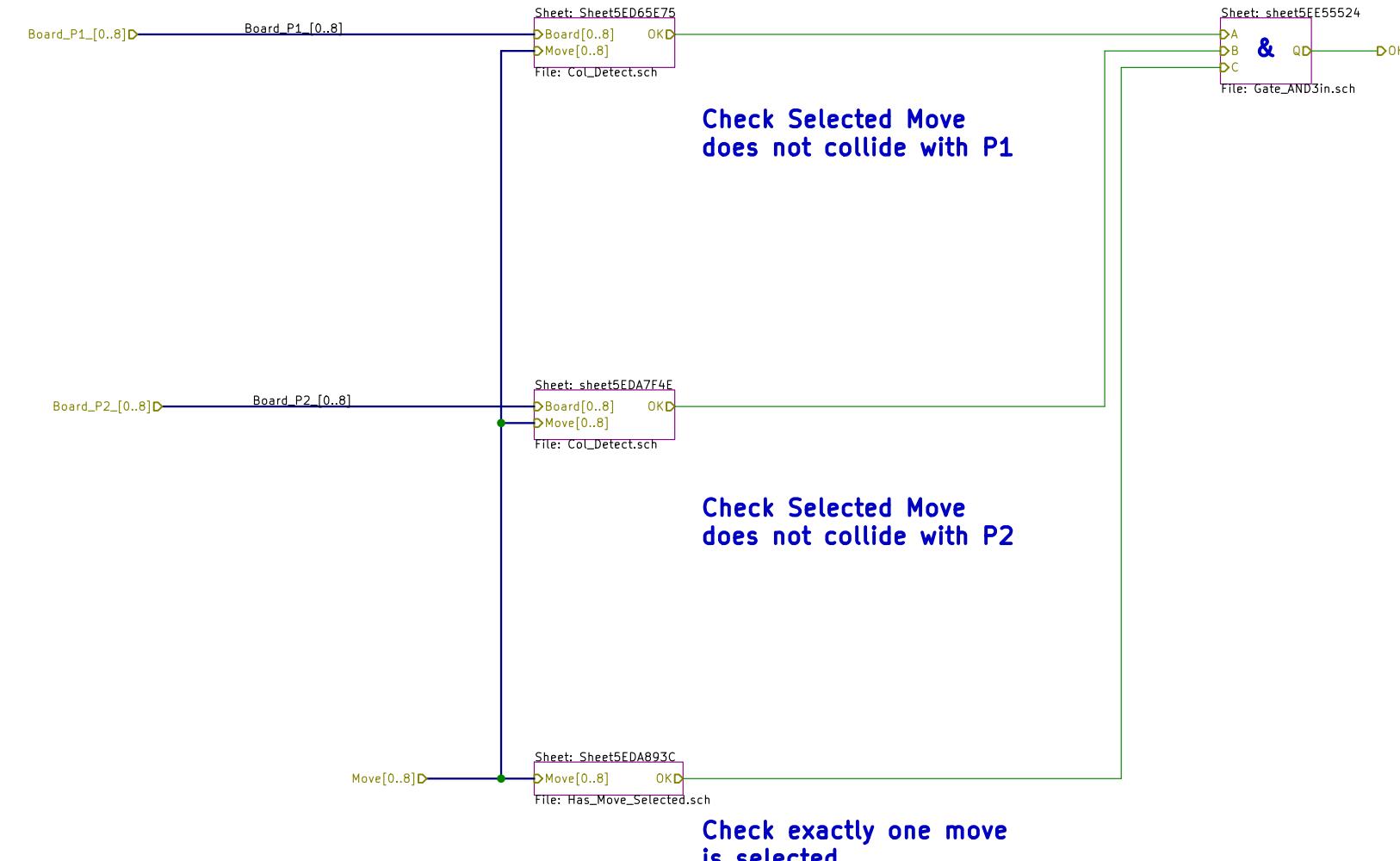
A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /StateMaschine/sheet5F244B0F/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 182/360



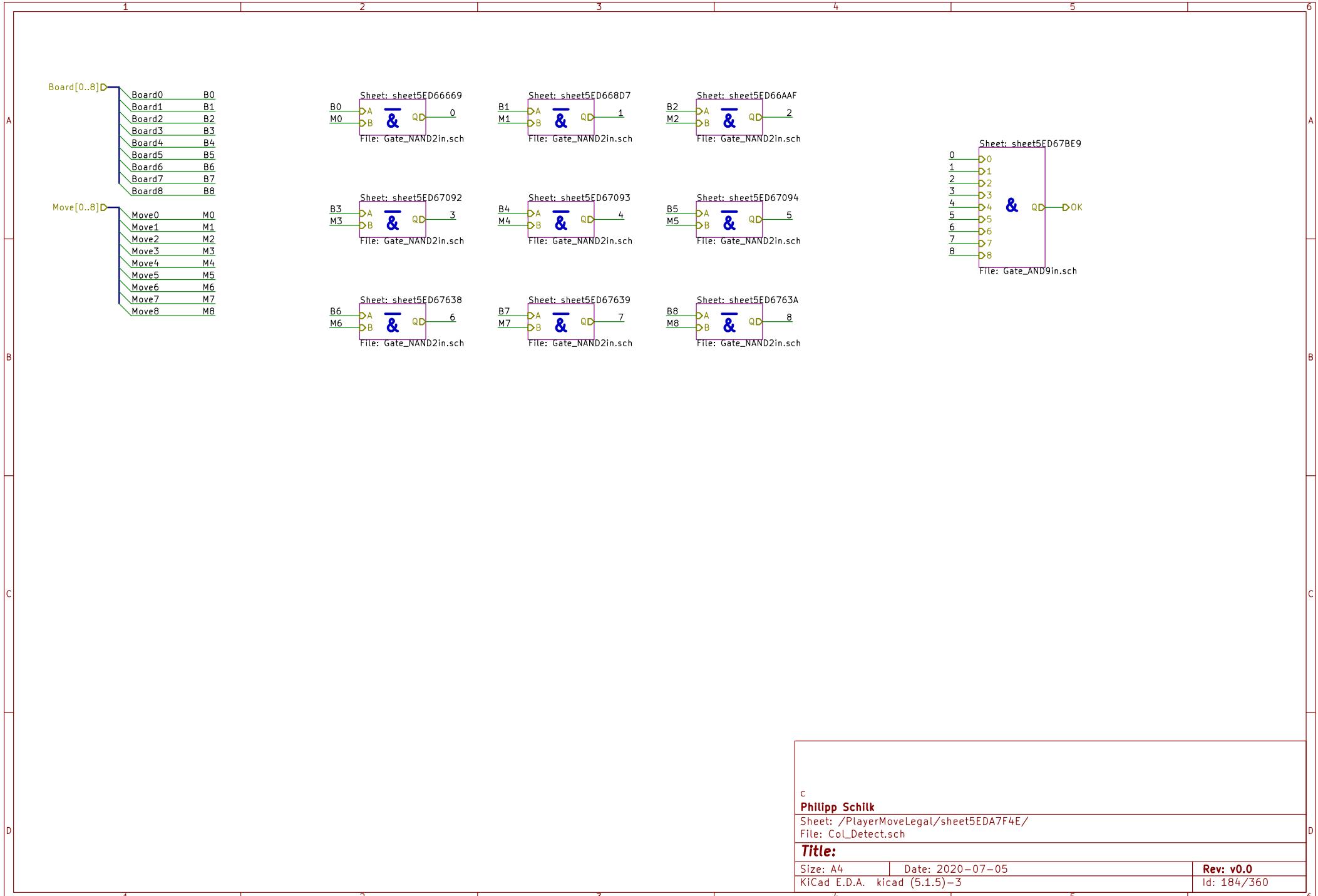
c  
**Philipp Schilk**

Sheet: /PlayerMoveLegal/  
File: PlayerMoveLegal.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 183/360

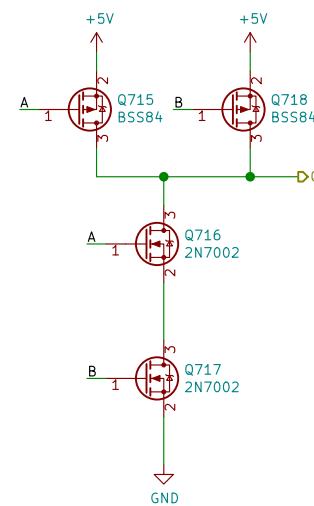


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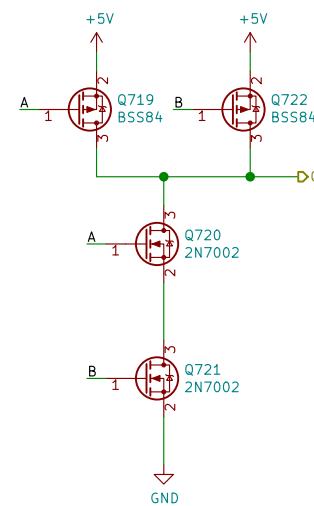
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED66669/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 185/360

A

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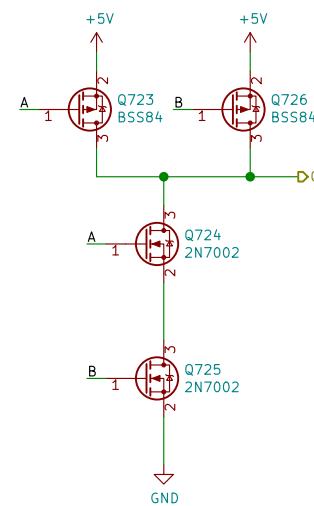
AD—A  
BD—Bc  
**Philipp Schilk**Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED66AAF/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 186/360

A

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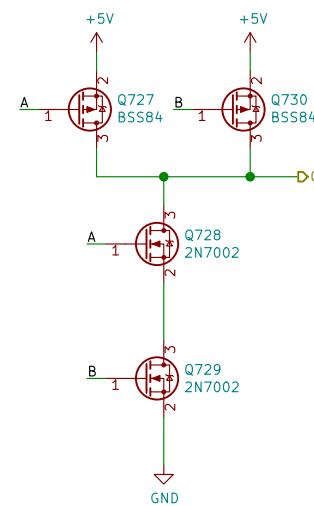
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67092/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 187/360

A

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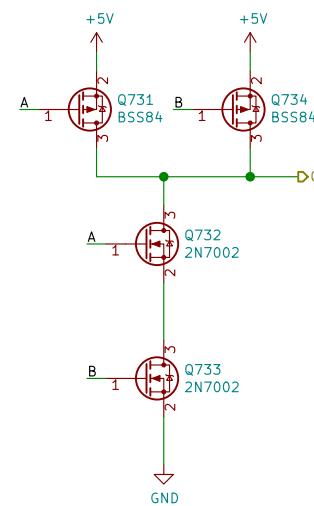
AD—A  
BD—Bc  
**Philipp Schilk**Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67093/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 188/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67094/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

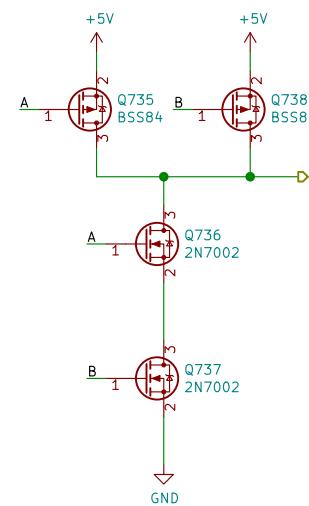
Rev: v0.0  
Id: 189/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67638/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

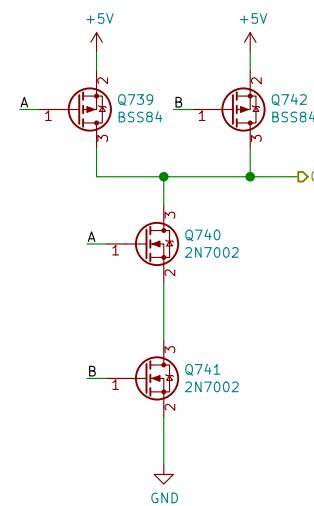
Rev: v0.0  
Id: 190/360

A

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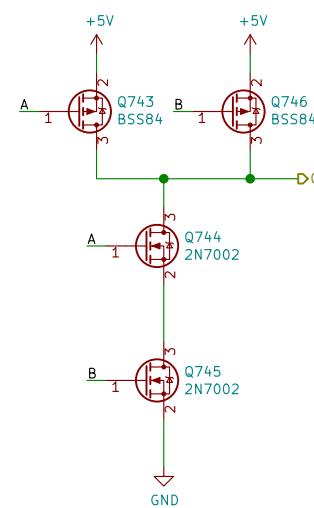
AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67639/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 191/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED6763A/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 192/360

A

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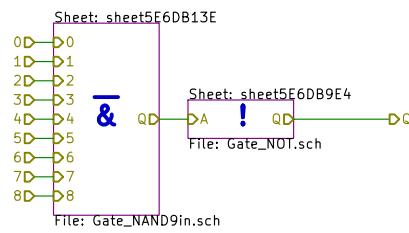
B

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C

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67BE9/  
File: Gate\_AND9in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 193/360

A

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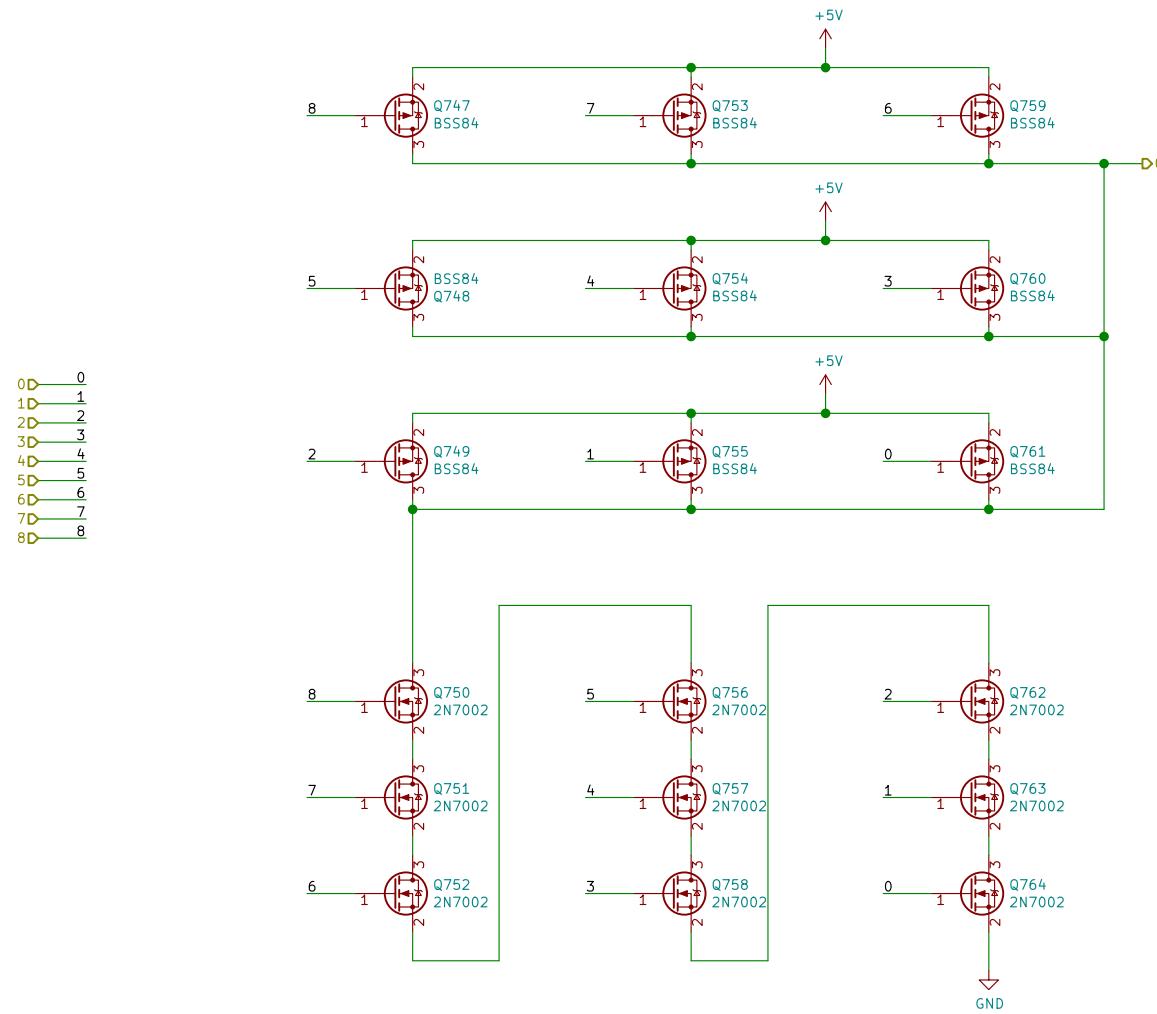
D

A

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67BE9/sheet5E6DB13E/  
File: Gate\_NAND9in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 194/360

A

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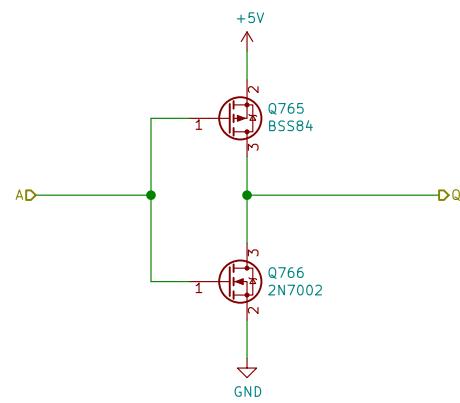
D

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Philipp Schilk

Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED67BE9/sheet5E6DB9E4/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

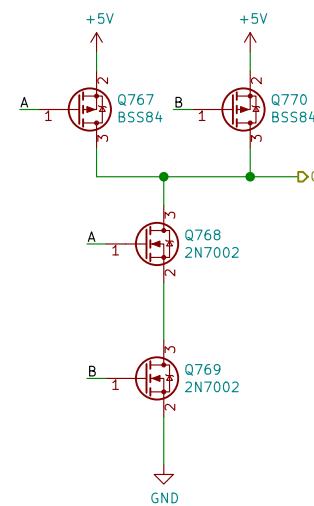
**Rev: v0.0**  
Id: 195/360

A

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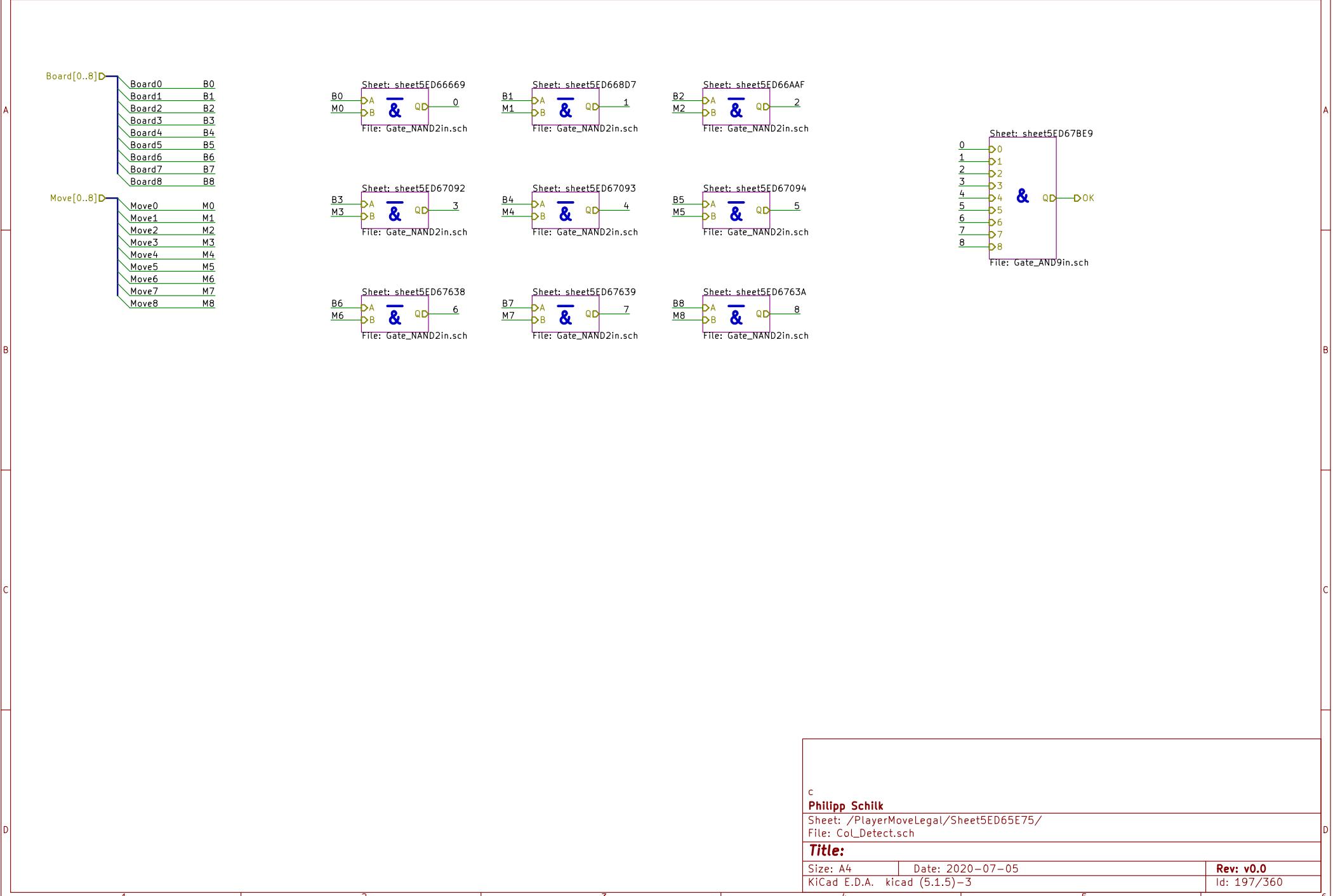
AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/sheet5EDA7F4E/sheet5ED668D7/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 196/360

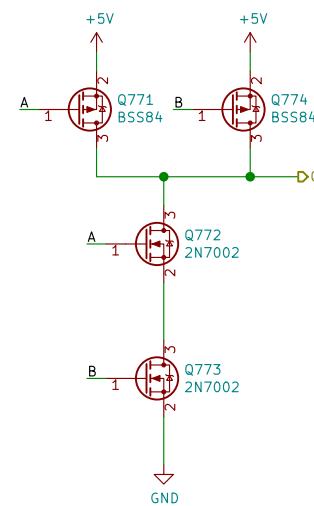


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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED66669/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

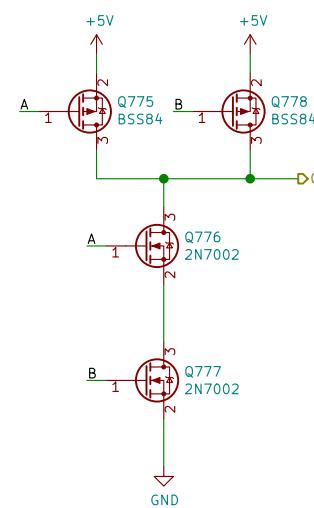
Id: 198/360

A

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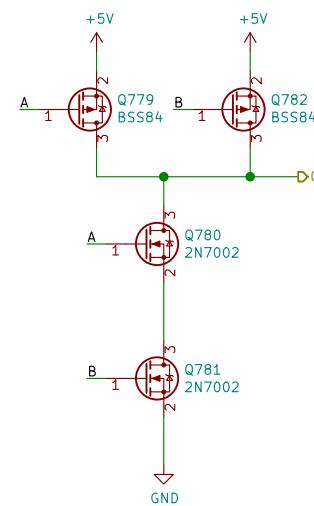
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED66AAF/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 199/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67092/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

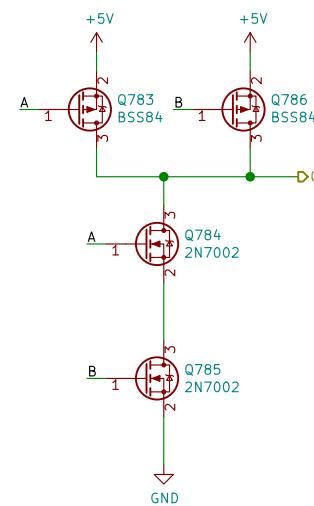
Id: 200/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67093/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

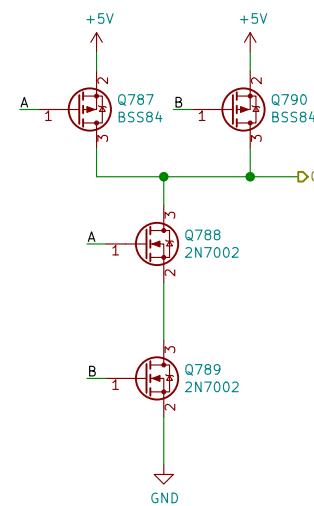
Rev: v0.0  
Id: 201/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67094/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

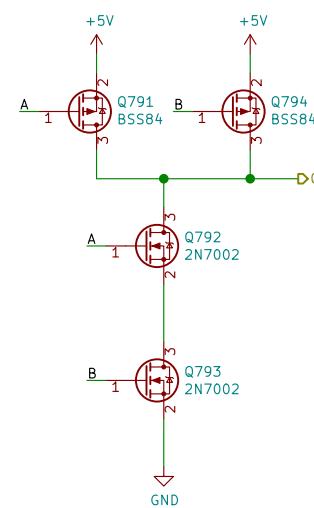
Rev: v0.0  
Id: 202/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67638/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

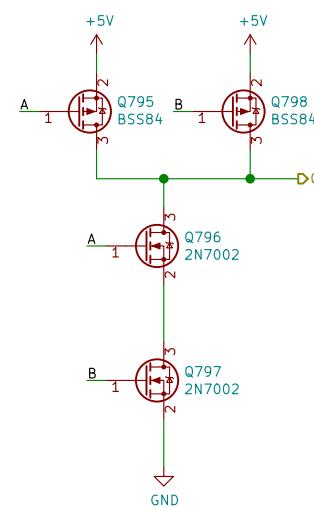
Id: 203/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67639/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

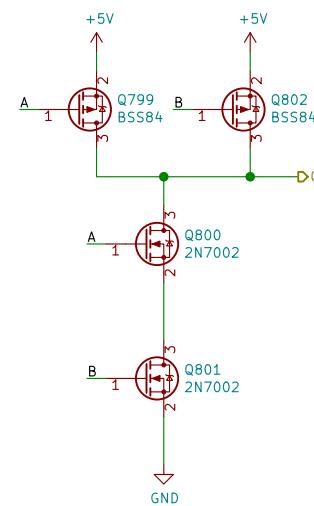
Id: 204/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED6763A/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 205/360

A

A

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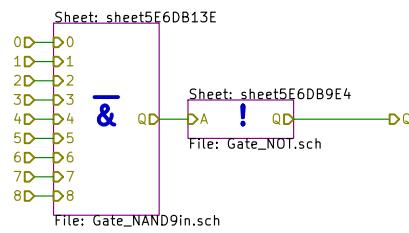
B

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67BE9/  
File: Gate\_AND9in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 206/360

A

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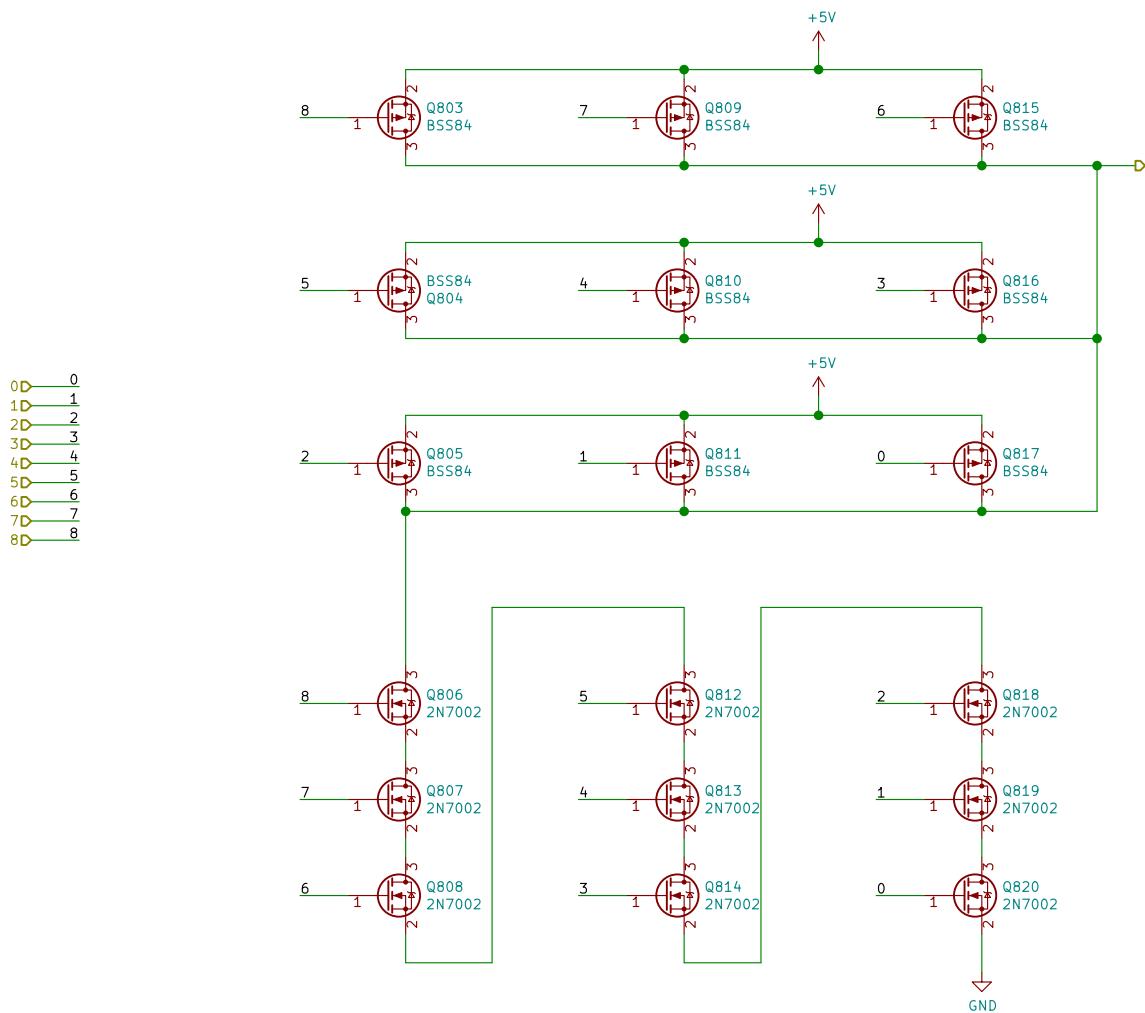
D

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67BE9/sheet5E6DB13E/  
File: Gate\_NAND9in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 207/360

A

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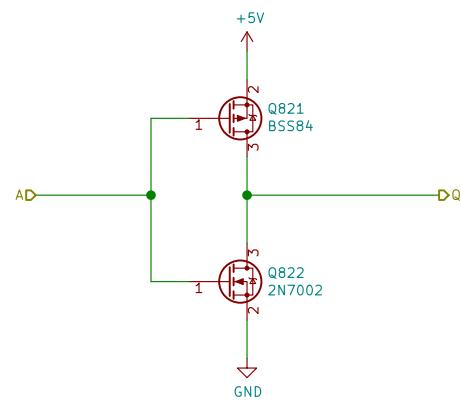
D

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED67BE9/sheet5E6DB9E4/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

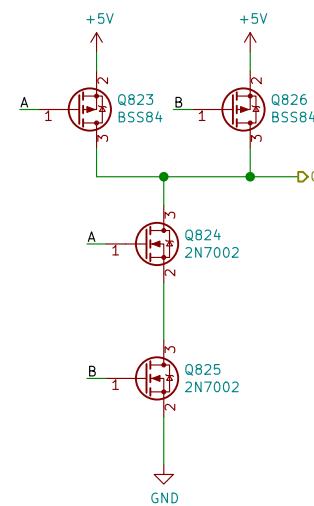
Rev: v0.0  
Id: 208/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMoveLegal/Sheet5ED65E75/sheet5ED668D7/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 209/360

A

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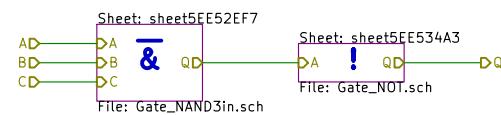
D

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c  
**Philipp Schilk**

Sheet: /PlayerMoveLegal/sheet5EE55524/  
File: Gate\_AND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 210/360

A

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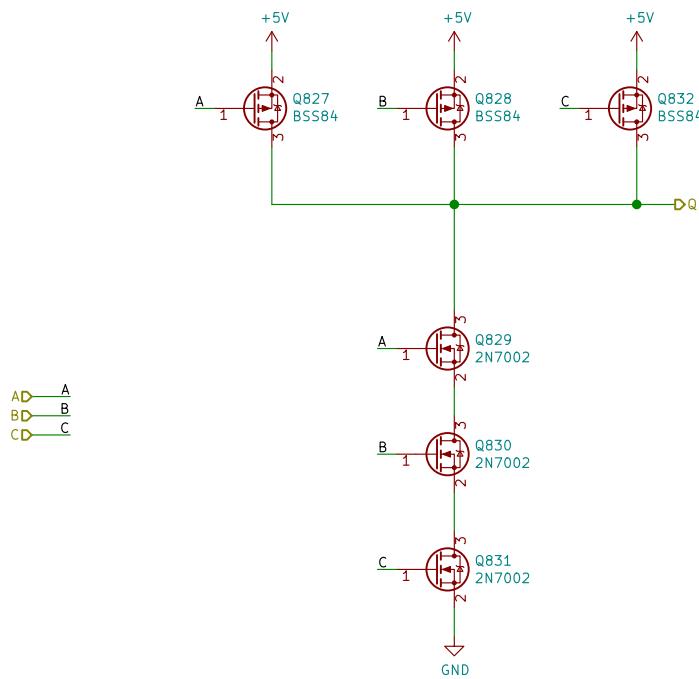
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C

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Philipp Schilk

Sheet: /PlayerMoveLegal/sheet5EE55524/sheet5EE52EF7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 211/360

A

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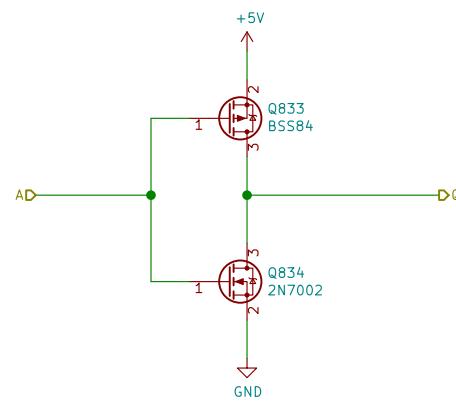
D

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D



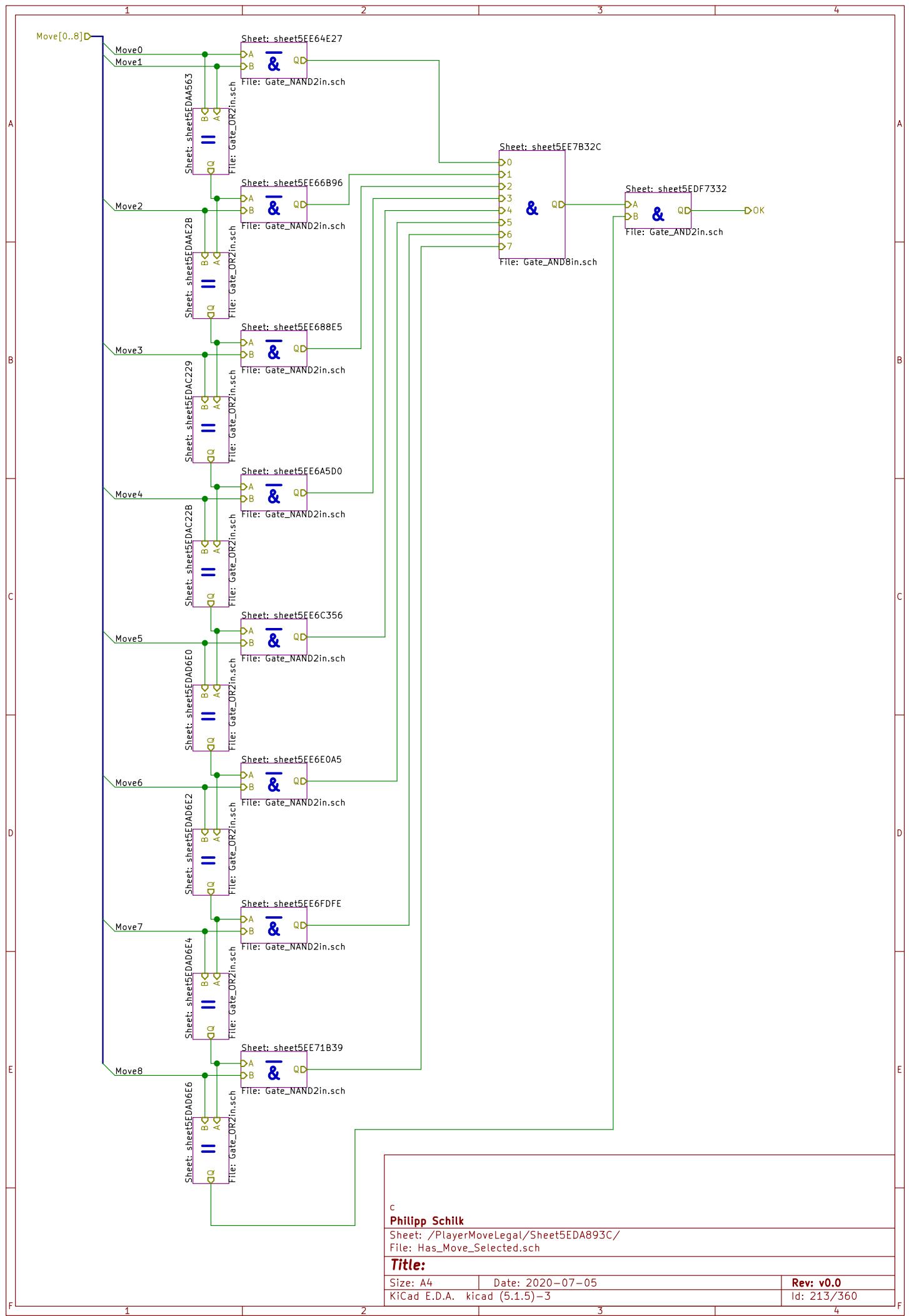
c  
Philipp Schilk

Sheet: /PlayerMoveLegal/sheet5EE55524/sheet5EE534A3/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 212/360



A

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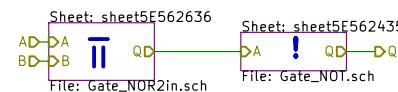
B

C

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D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAAE2B/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 214/360

A

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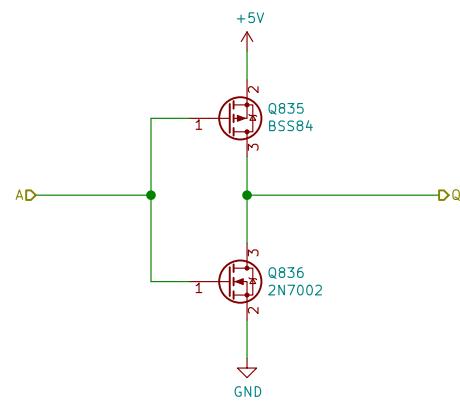
D

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAAE2B/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 215/360

A

A

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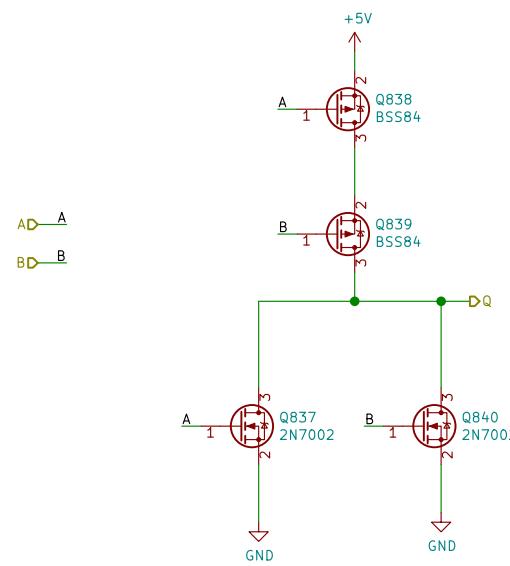
B

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAAE2B/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 216/360

A

A

B

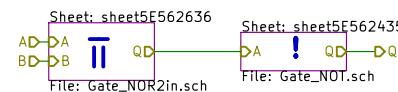
B

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c  
**Philipp Schilk**

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAC229/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 217/360

A

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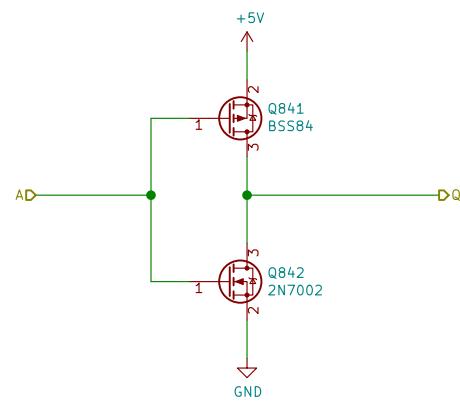
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c  
Philipp Schilk  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAC229/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 218/360

A

A

B

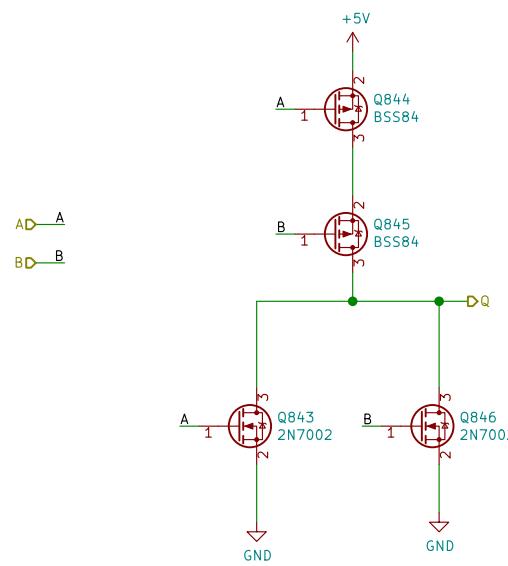
B

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c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAC229/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 219/360

A

A

B

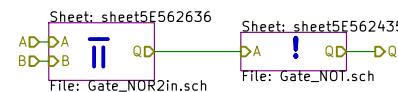
B

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D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAC22B/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 220/360

A

B

C

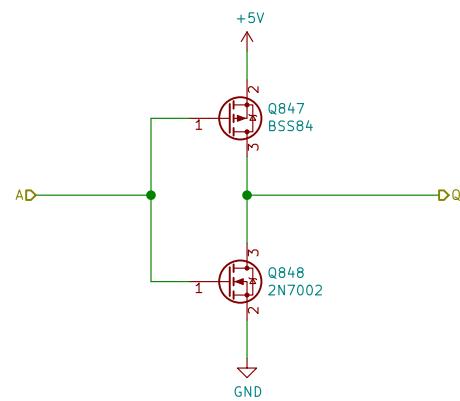
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAC22B/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 221/360

A

A

B

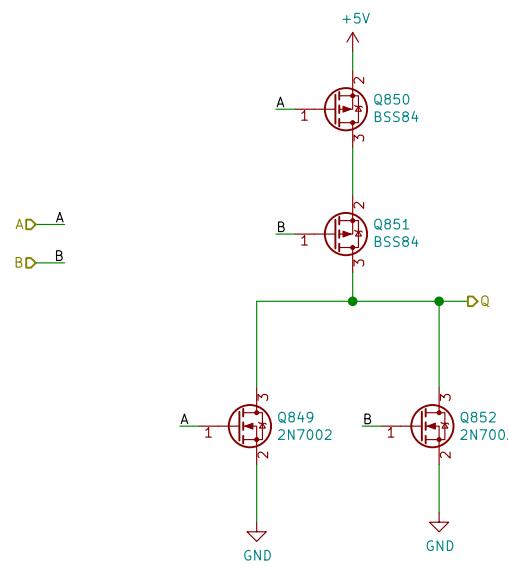
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAC22B/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 222/360

A

A

B

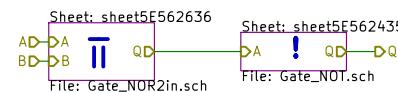
B

C

C

D

D



c  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E0/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 223/360

A

B

C

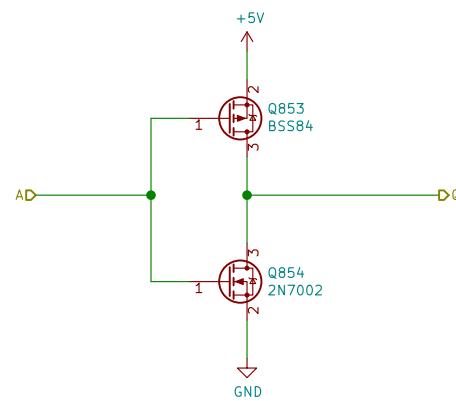
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E0/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 224/360

A

A

B

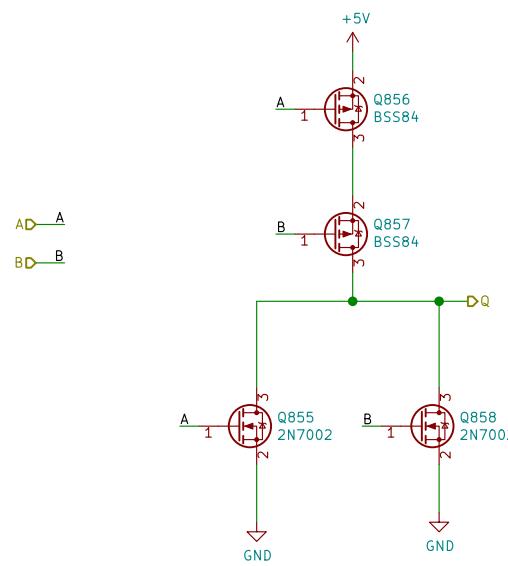
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E0/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 225/360

A

A

B

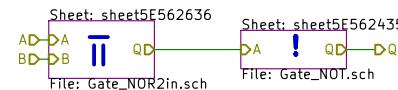
B

C

C

D

D



c  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E2/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 226/360

A

B

C

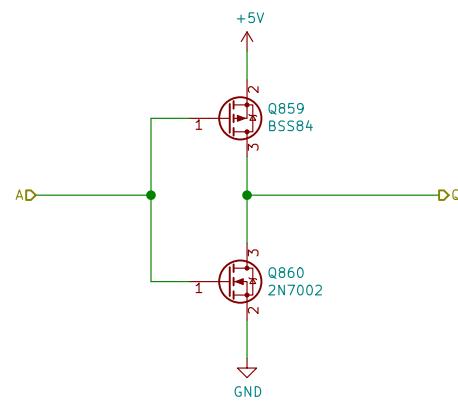
D

A

B

C

D



c  
Philipp Schilk  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E2/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 227/360

A

A

B

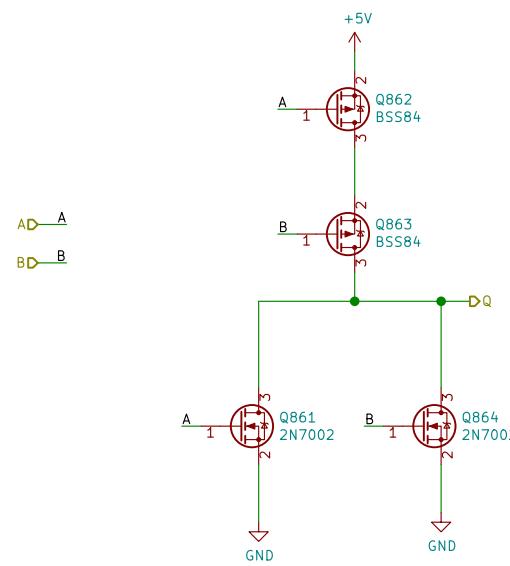
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E2/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 228/360

A

A

B

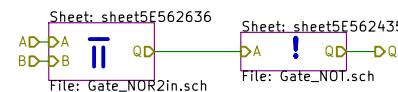
B

C

C

D

D



c  
**Philipp Schilk**

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E4/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 229/360

A

B

C

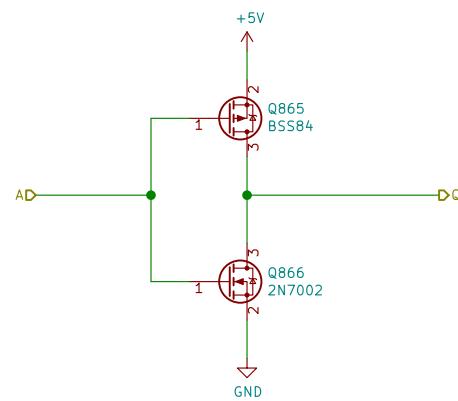
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E4/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 230/360

A

A

B

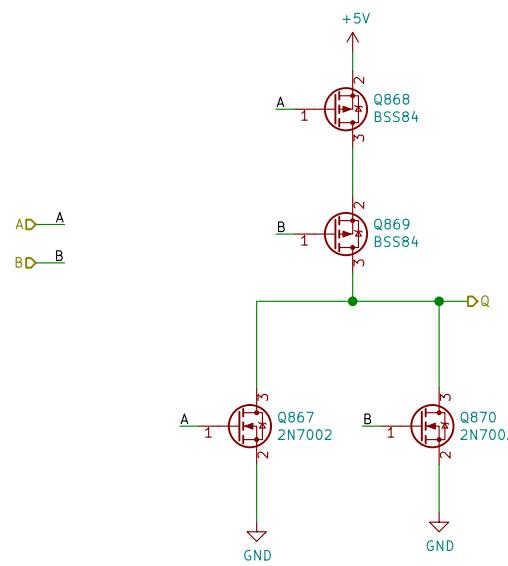
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E4/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 231/360

A

A

B

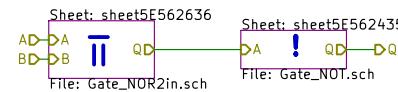
B

C

C

D

D



c  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E6/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 232/360

A

B

C

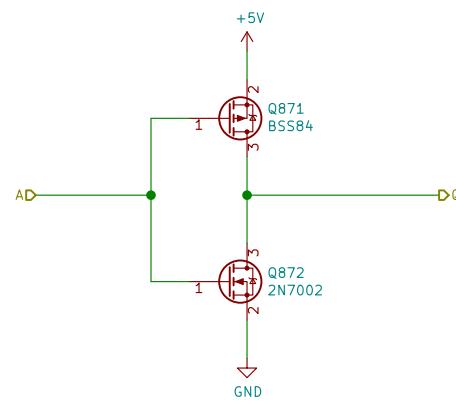
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E6/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 233/360

A

A

B

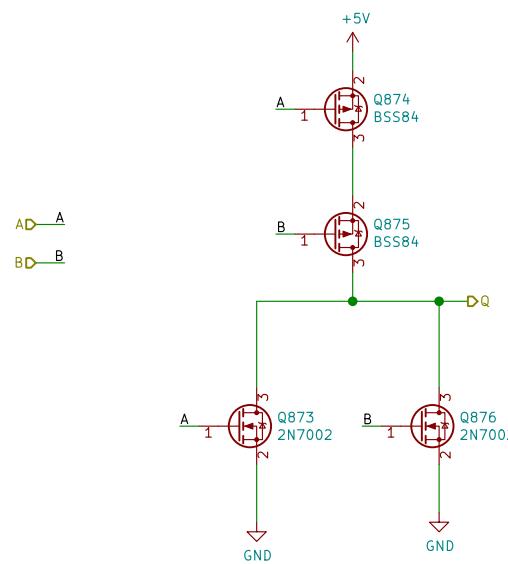
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAD6E6/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 234/360

A

A

B

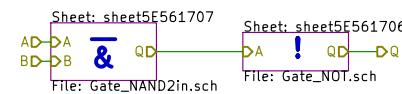
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDF7332/  
File: Gate\_AND2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 235/360

A

B

C

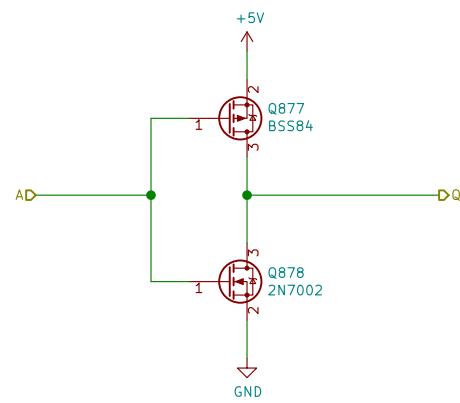
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDF7332/sheet5E561706/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

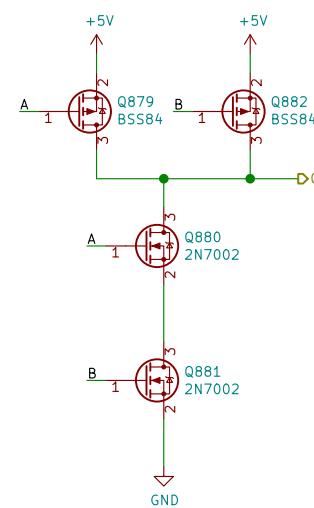
Rev: v0.0  
Id: 236/360

A

B

C

D

AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDF7332/sheet5E561707/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 237/360

A

A

B

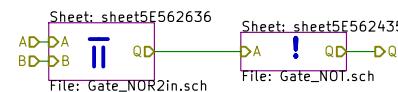
B

C

C

D

D



c  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAA563/  
File: Gate\_OR2in.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

Id: 238/360

A

B

C

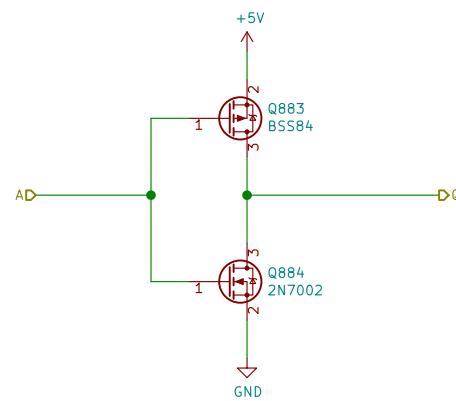
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAA563/sheet5E562435/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 239/360

A

A

B

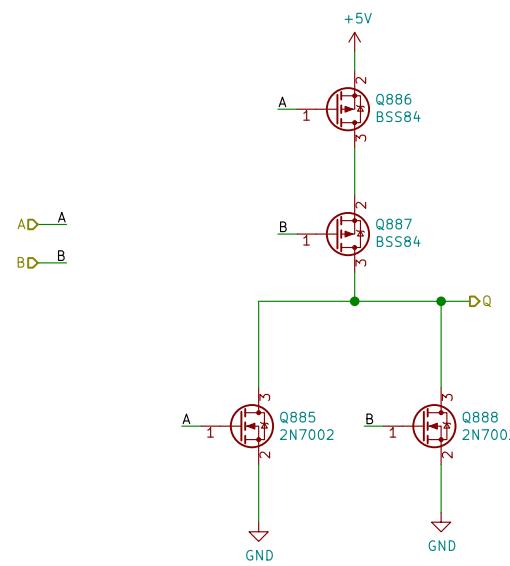
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EDAA563/sheet5E562636/  
File: Gate\_NOR2in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

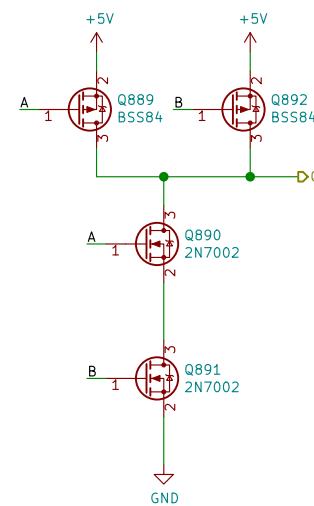
Rev: v0.0  
Id: 240/360

A

B

C

D

AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE64E27/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

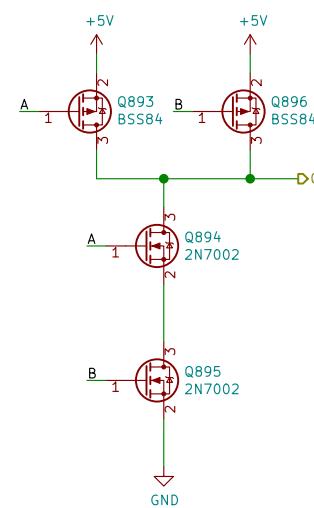
Id: 241/360

A

B

C

D

AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE66B96/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

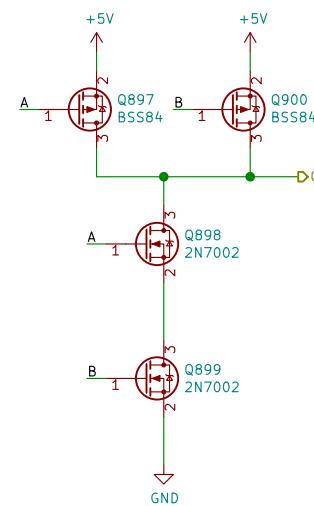
Rev: v0.0  
Id: 242/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE688E5/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

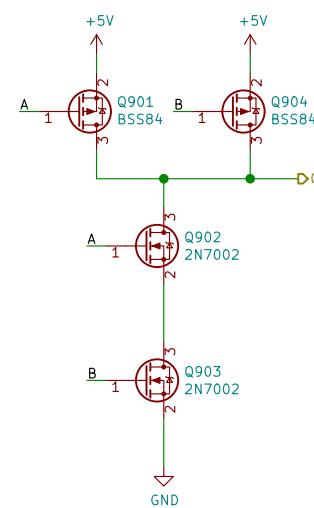
Rev: v0.0  
Id: 243/360

A

B

C

D

AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE6A5D0/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

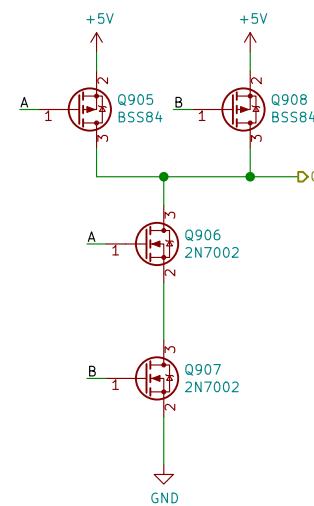
Id: 244/360

A

B

C

D

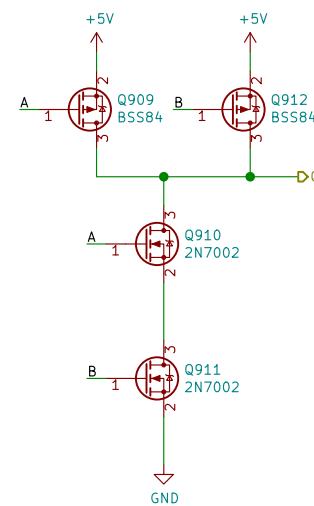
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE6C356/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 245/360

A

B

C

D

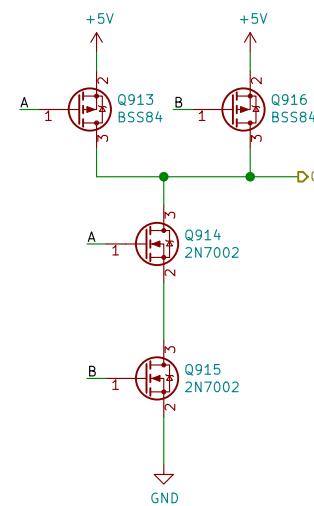
AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE6E0A5/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 246/360

A

B

C

D

AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE6FDDE/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

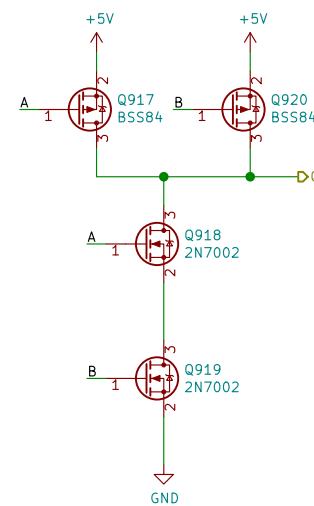
Id: 247/360

A

B

C

D

AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE71B39/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 248/360

A

A

B

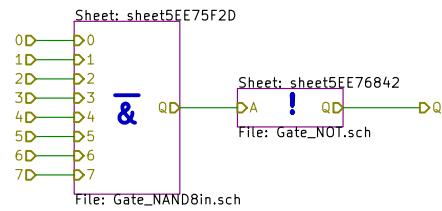
B

C

C

D

D



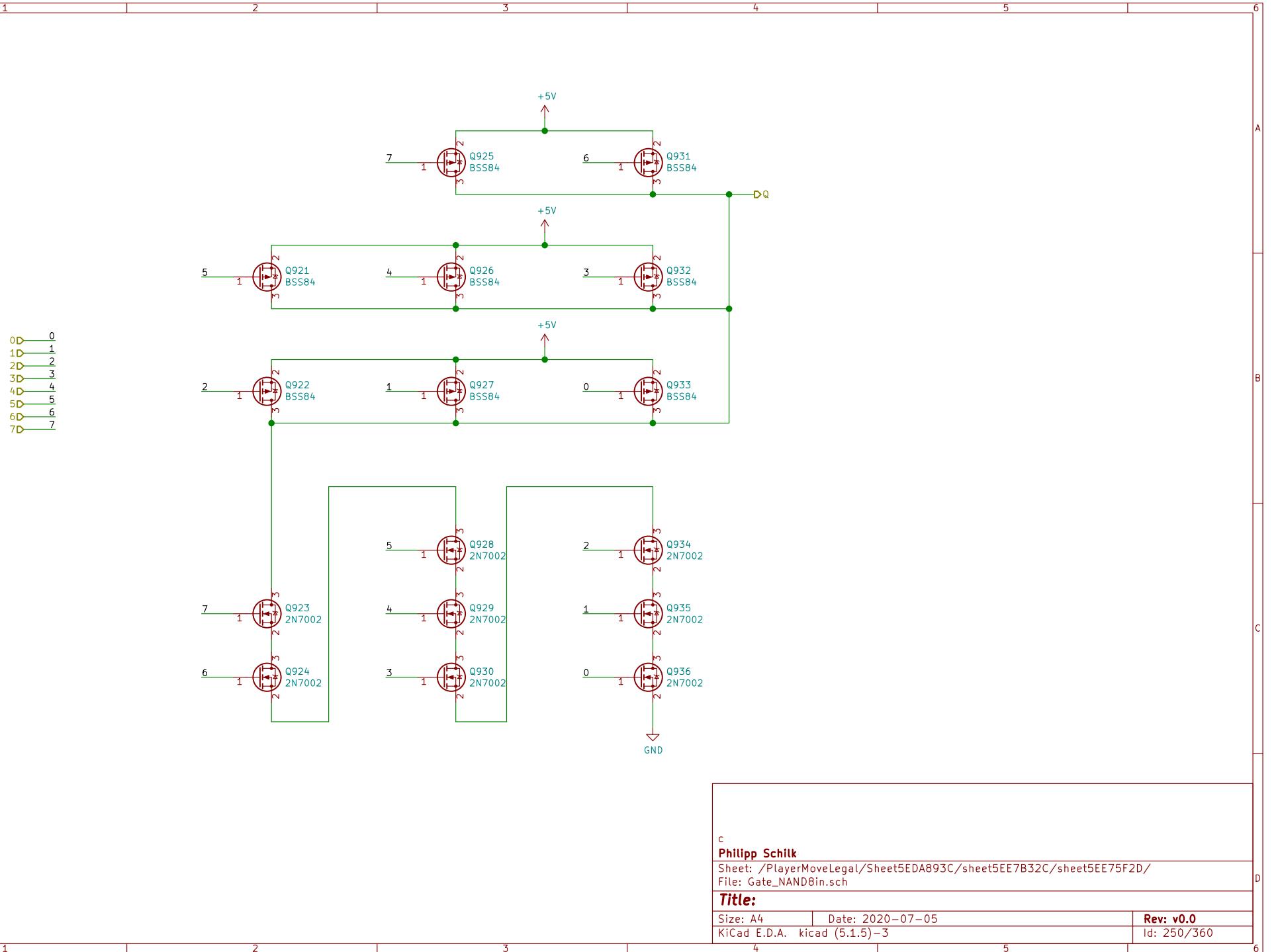
c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE7B32C/  
File: Gate\_AND8in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 249/360



A

B

C

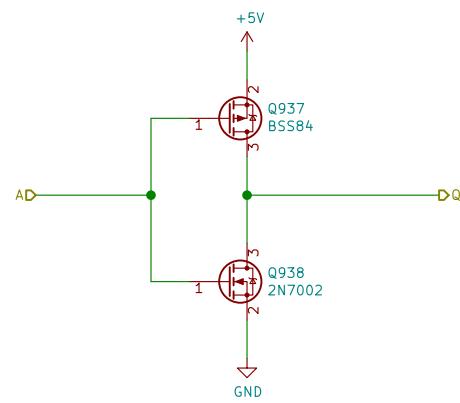
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMoveLegal/Sheet5EDA893C/sheet5EE7B32C/sheet5EE76842/  
File: Gate\_NOT.sch

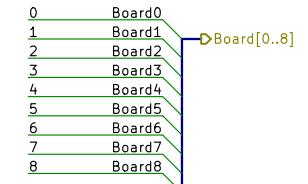
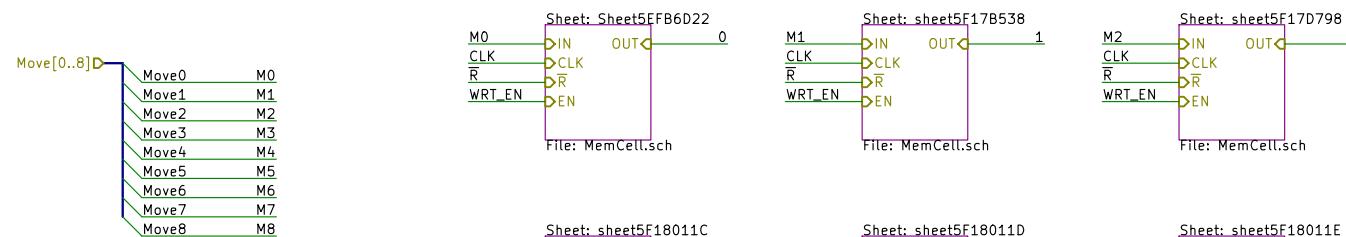
**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

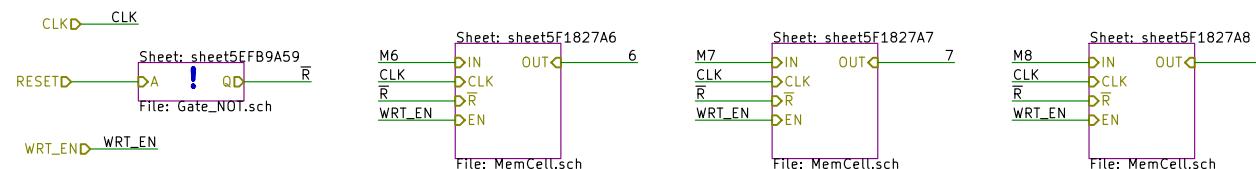
Rev: v0.0  
Id: 251/360

1 2 3 4 5 6

A



B



C

c  
Philipp Schilk

Sheet: /PlayerMem\_2/  
File: PlayerMem.sch

Title:

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 252/360

1 2 3 4 5 6

A

B

C

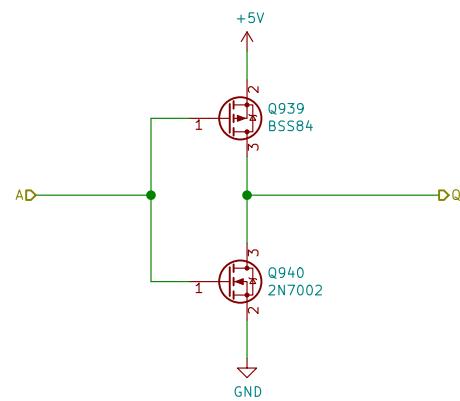
D

A

B

C

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5EFB9A59/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 253/360

A

A

B

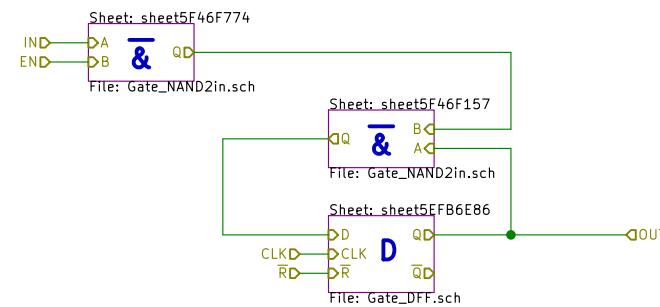
B

C

C

D

D



c  
Philipp Schilk

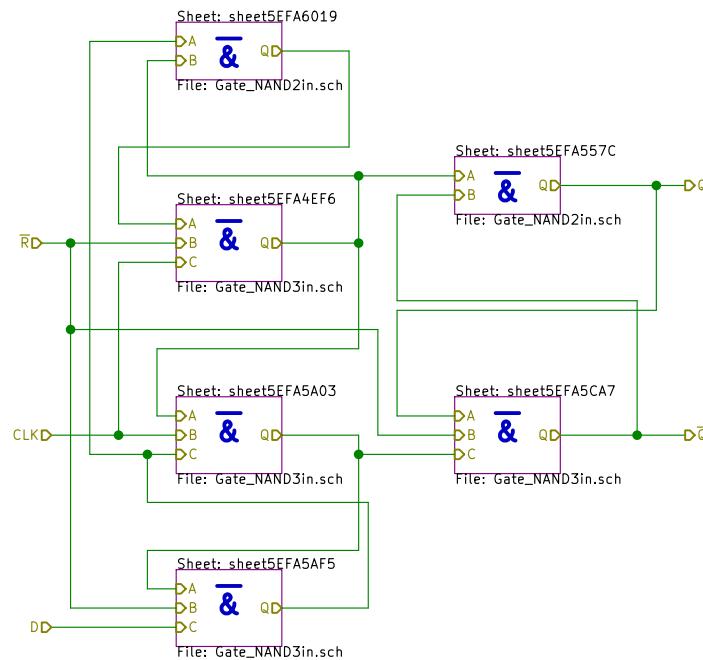
Sheet: /PlayerMem\_2/Sheet5EFB6D22/  
File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 254/360

A



B

C

D

c  
Philipp Schilk  
Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 255/360

A

A

B

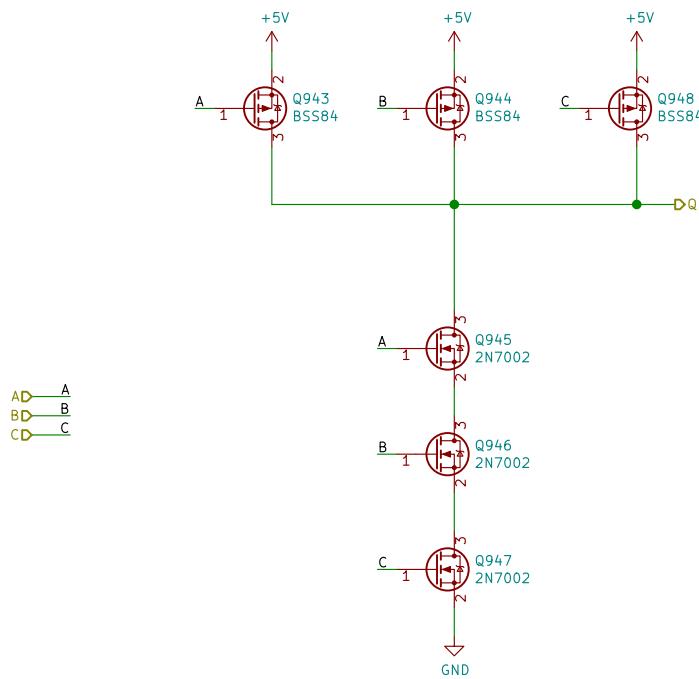
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

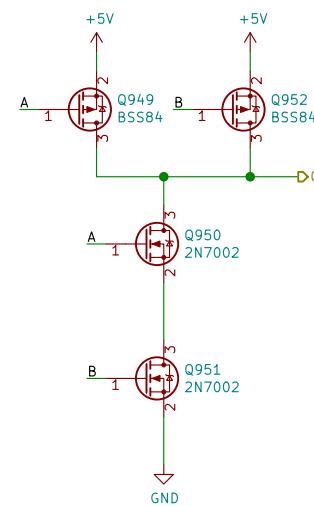
Rev: v0.0  
Id: 256/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 257/360

A

A

B

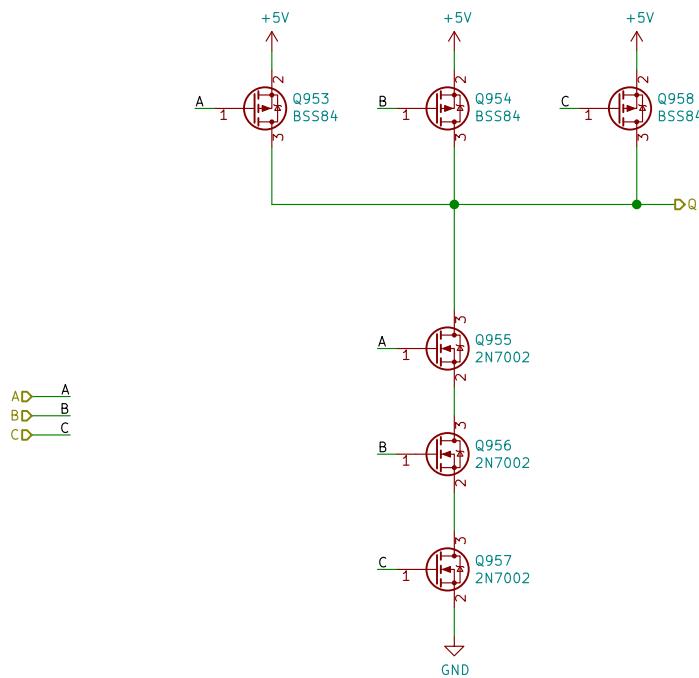
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 258/360

A

A

B

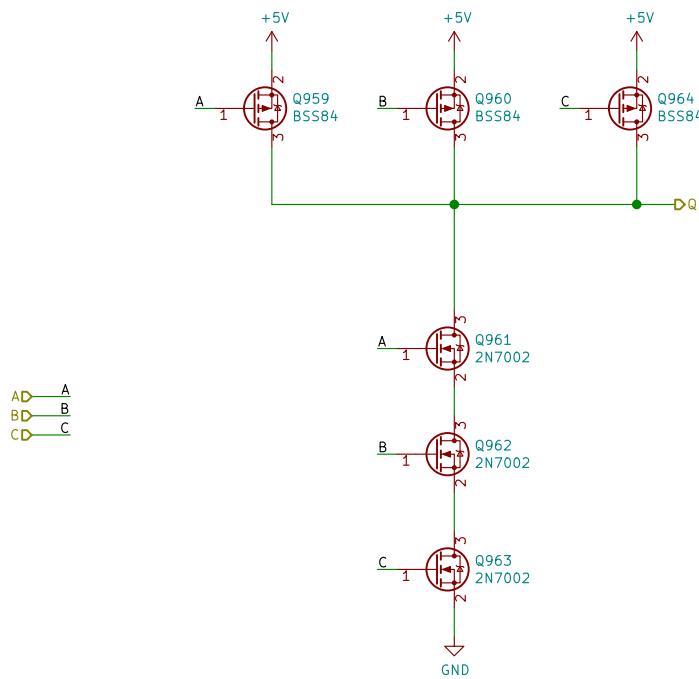
B

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c  
**Philipp Schilk**

Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA5AF5/  
 File: Gate\_NAND3in.sch

**Title:**

Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	

Rev: v0.0
Id: 259/360

A

A

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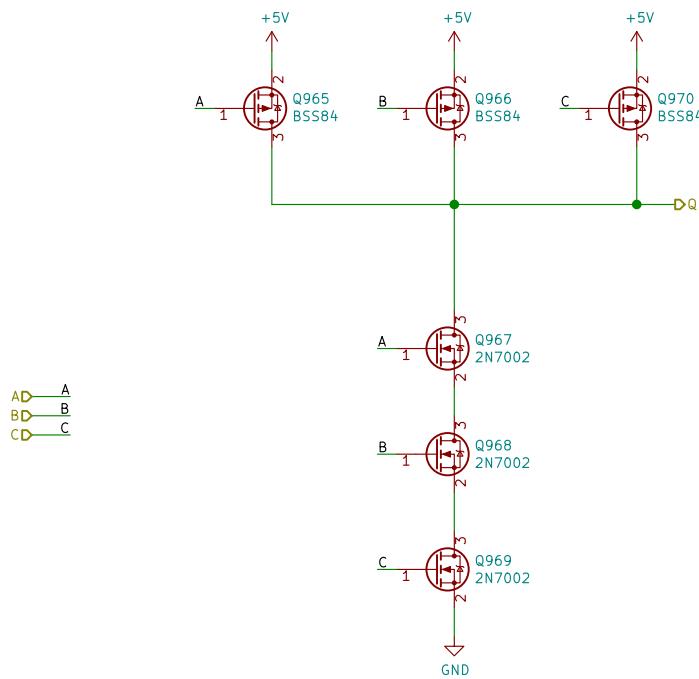
B

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Philipp Schilk

Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

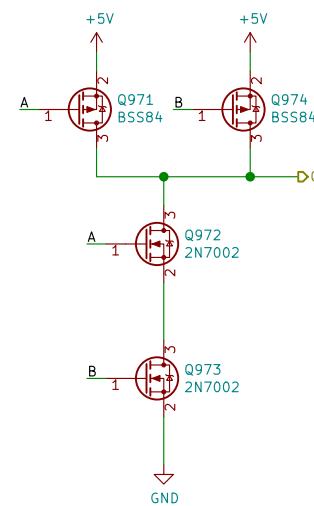
Rev: v0.0  
Id: 260/360

A

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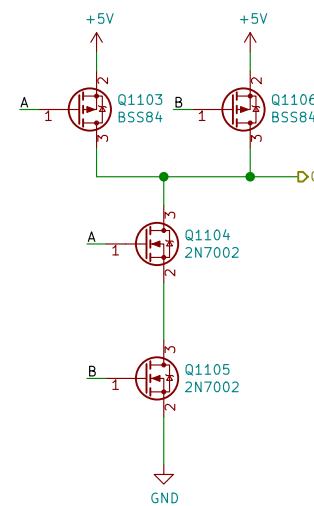
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 261/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**

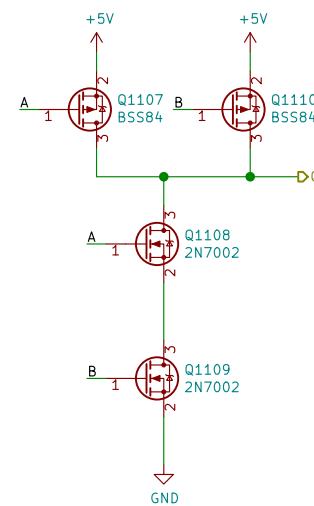
Id: 262/360

A

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AD—A  
BD—Bc  
**Philipp Schilk**  
Sheet: /PlayerMem\_2/Sheet5EFB6D22/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 263/360

A

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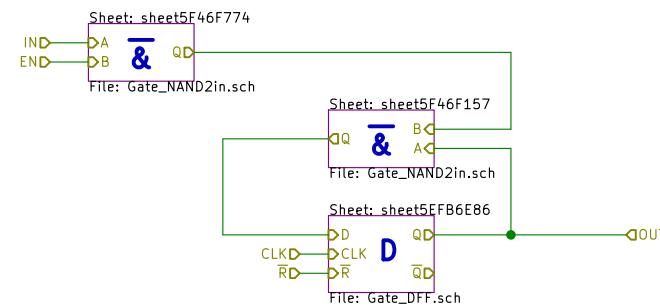
B

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Philipp Schilk

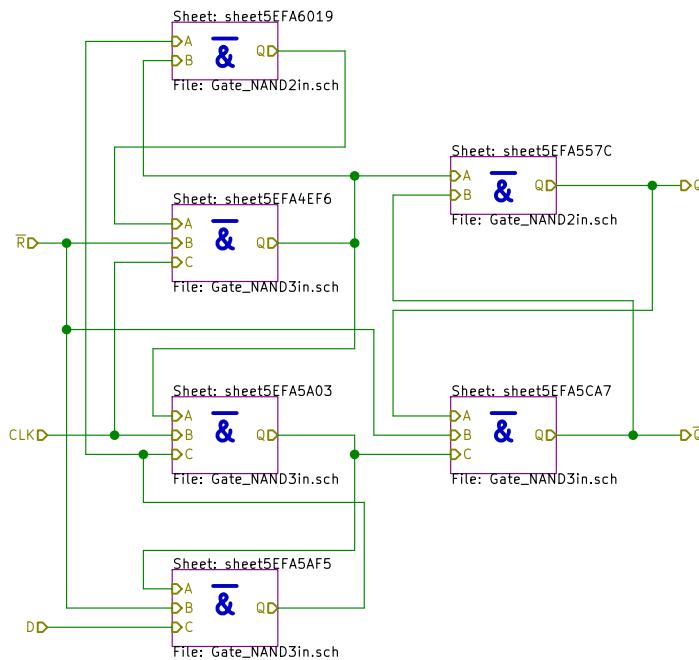
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File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 264/360

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Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 265/360

A

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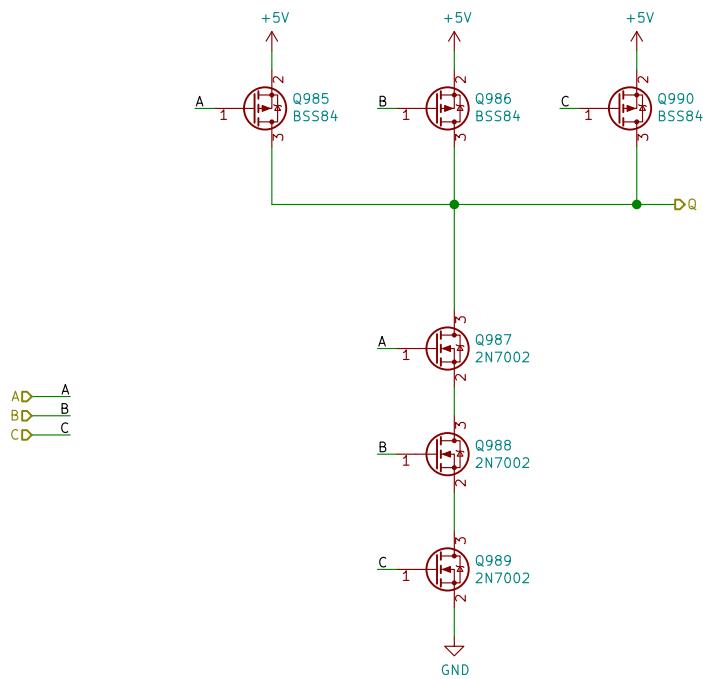
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

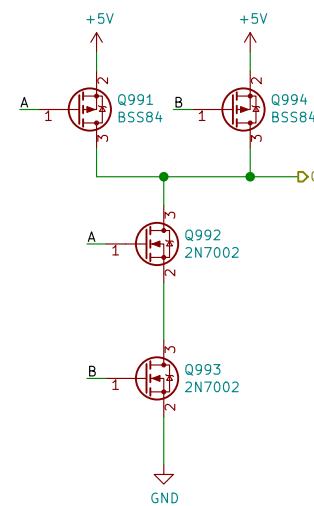
Rev: v0.0  
Id: 266/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 267/360

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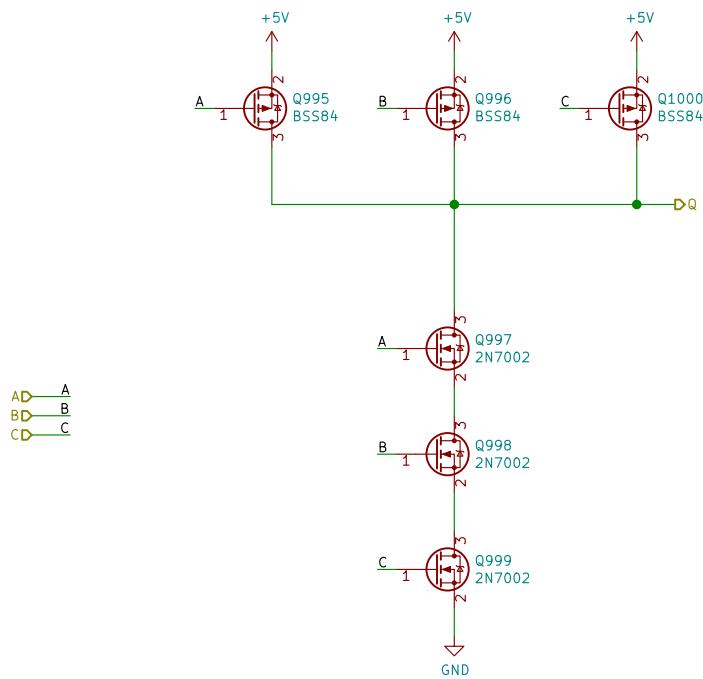
B

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AD—A  
BD—B  
CD—C

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 268/360

A

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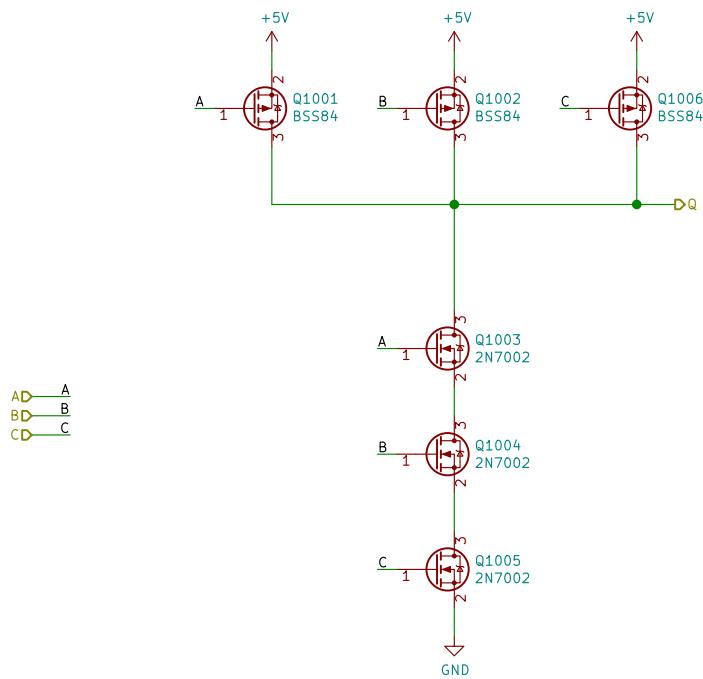
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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 269/360

A

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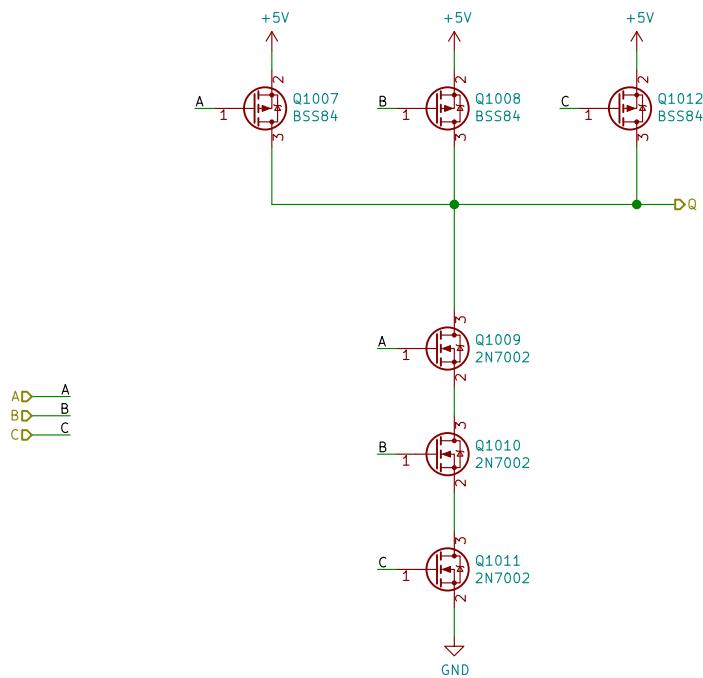
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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

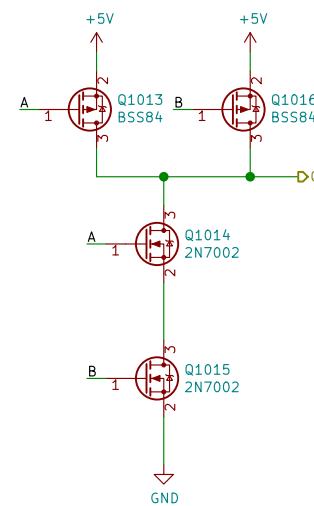
Rev: v0.0  
Id: 270/360

A

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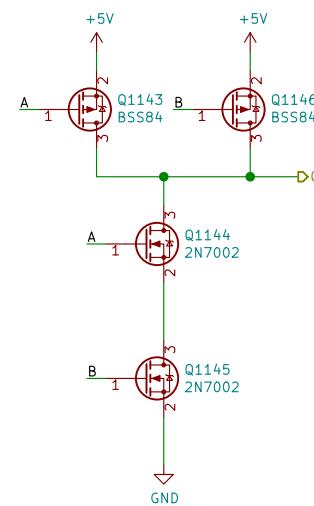
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F17B538/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 271/360

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17B538/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

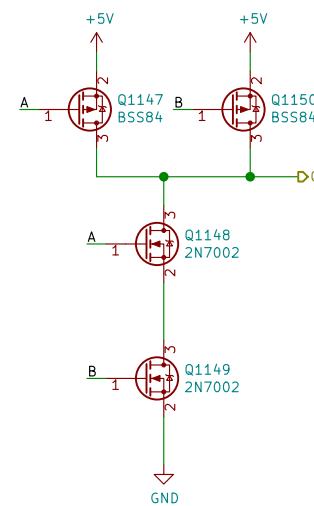
Id: 272/360

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17B538/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 273/360

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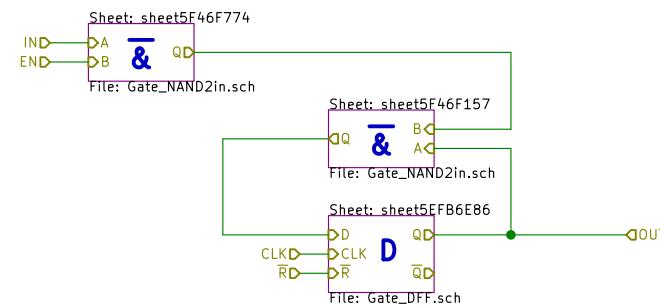
B

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Philipp Schilk

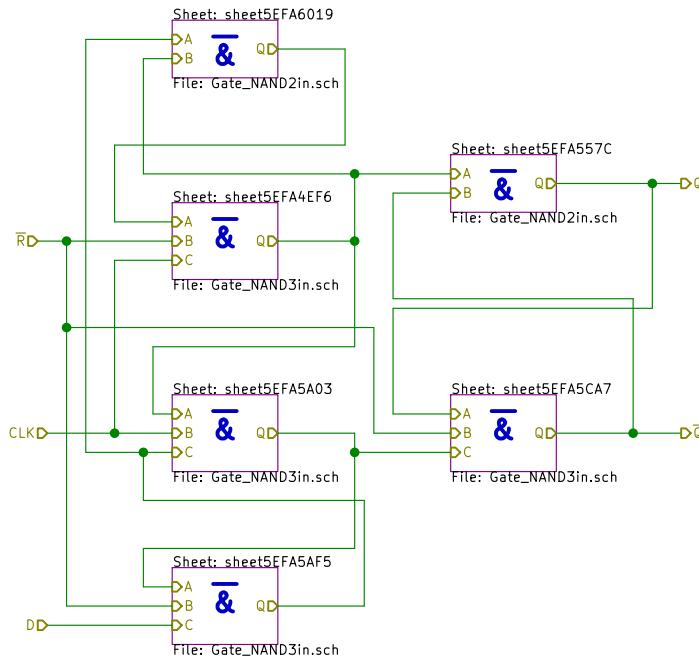
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File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 274/360

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Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 275/360

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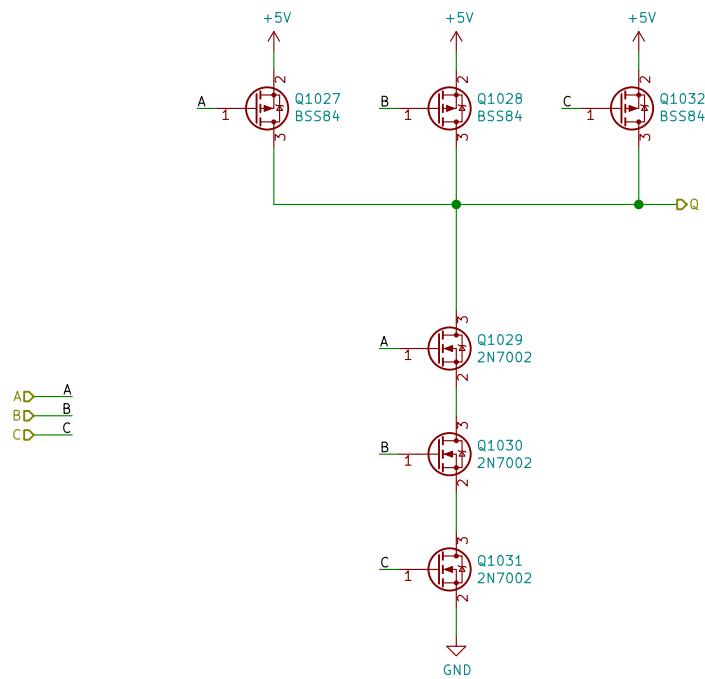
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

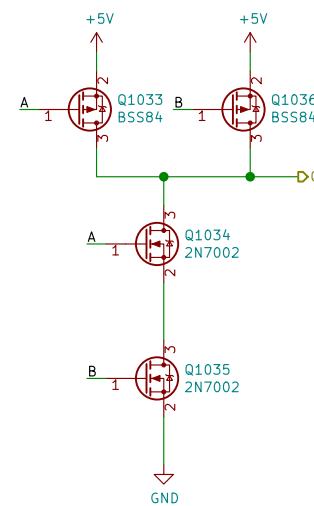
Rev: v0.0  
Id: 276/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 277/360

A

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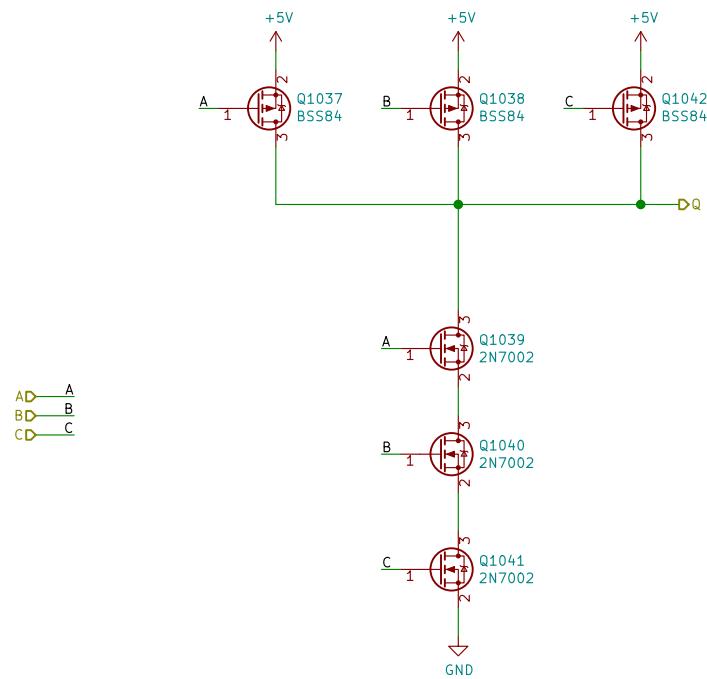
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 278/360

A

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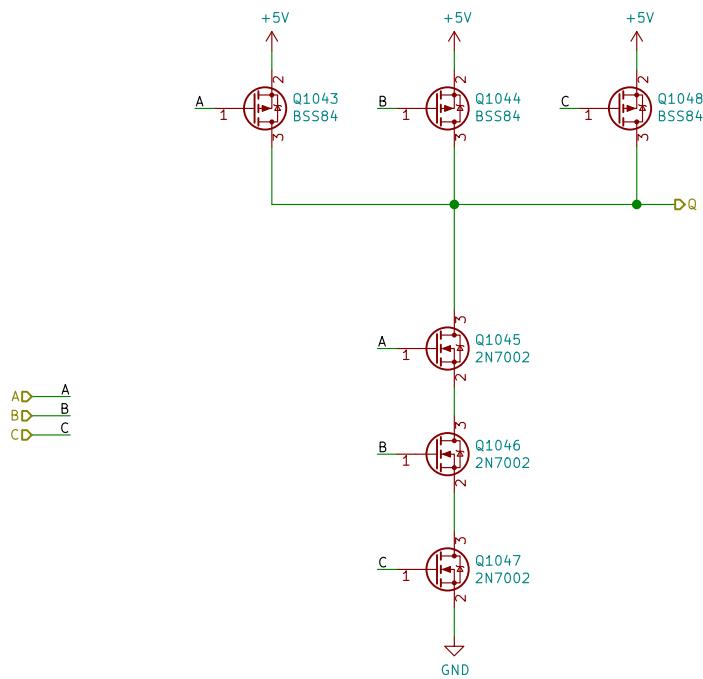
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 279/360

A

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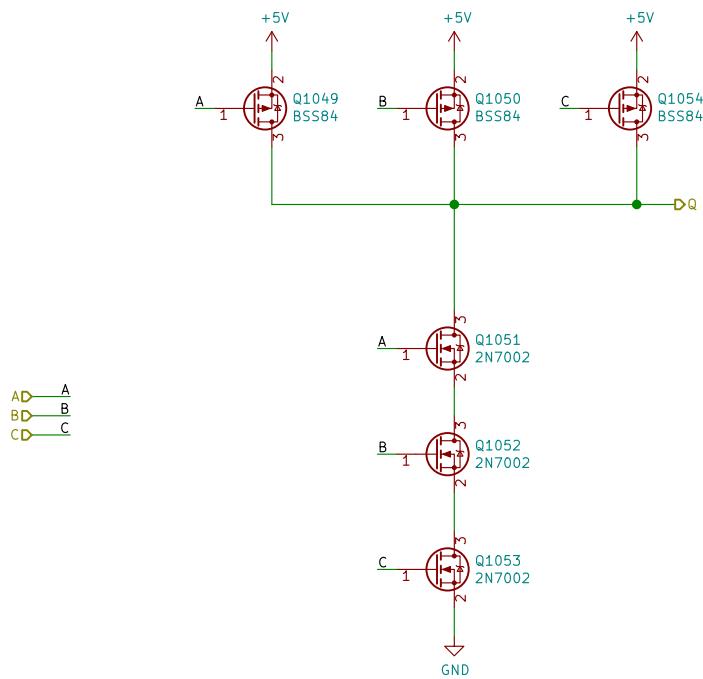
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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/sheet5EFA5CA7/  
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

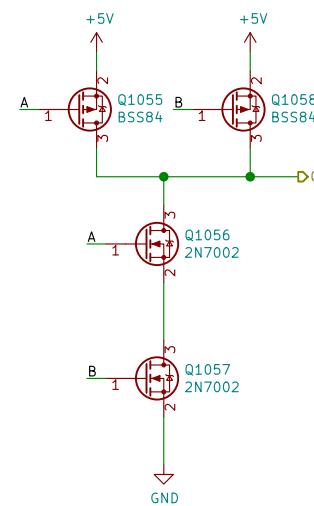
Rev: v0.0  
Id: 280/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17D798/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

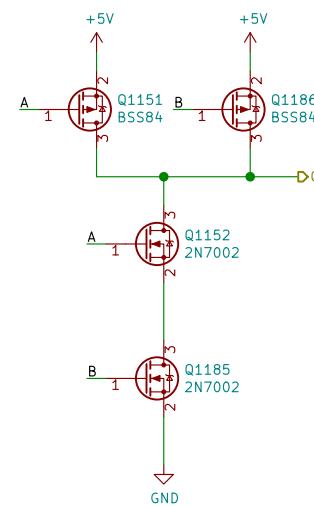
Id: 281/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17D798/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

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Rev: v0.0

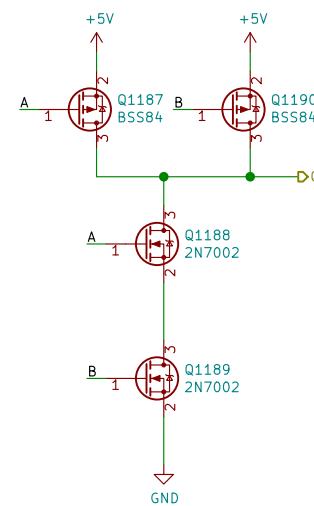
Id: 282/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F17D798/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 283/360

A

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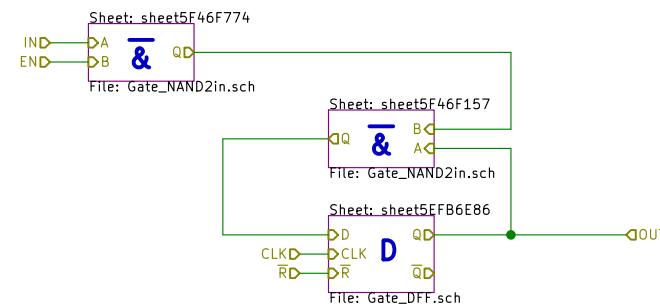
B

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c  
Philipp Schilk

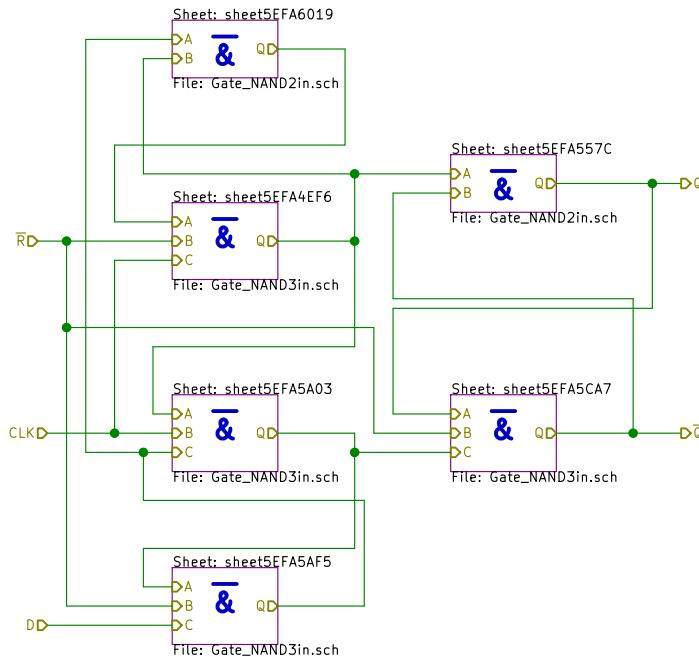
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 284/360

A



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c  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011C/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 285/360

A

A

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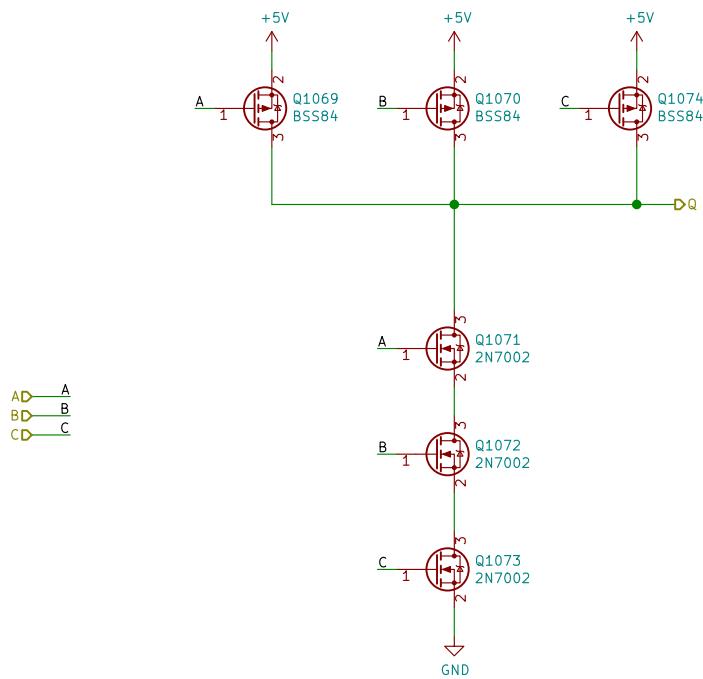
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011C/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

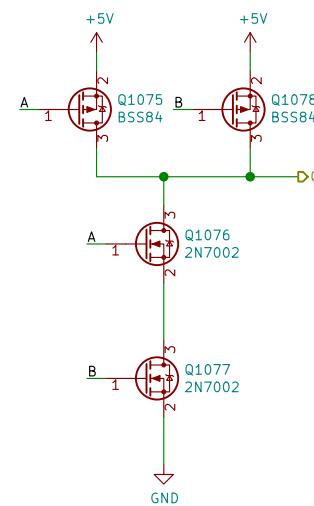
Rev: v0.0  
Id: 286/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
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File: Gate\_NAND2in.sch**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 287/360

A

A

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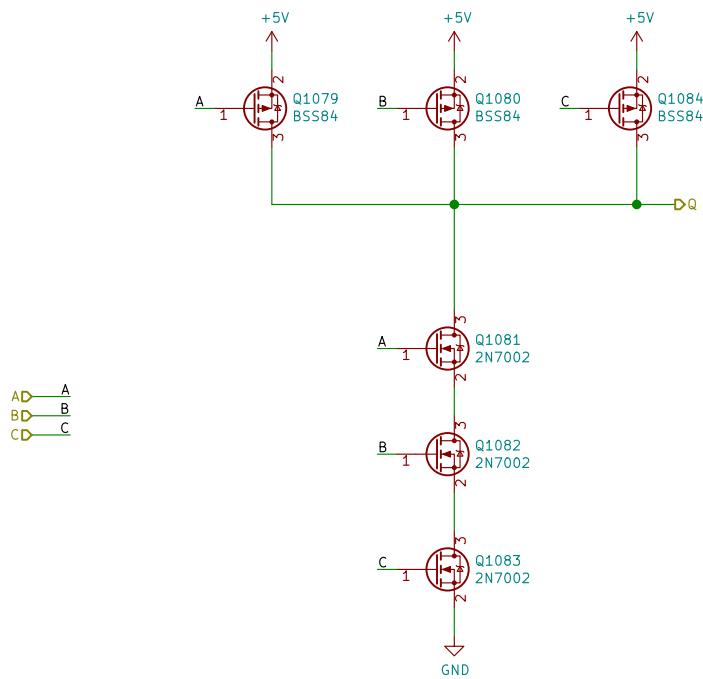
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011C/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 288/360

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A

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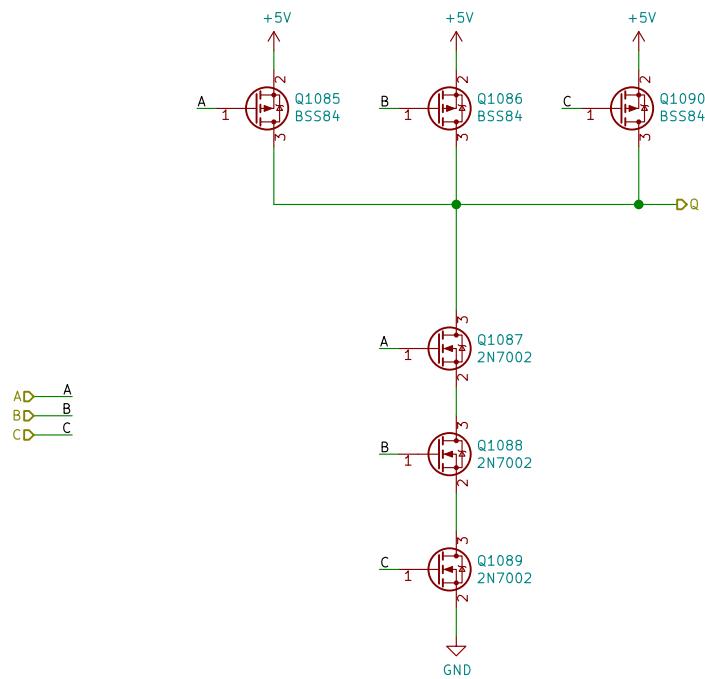
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011C/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 289/360

A

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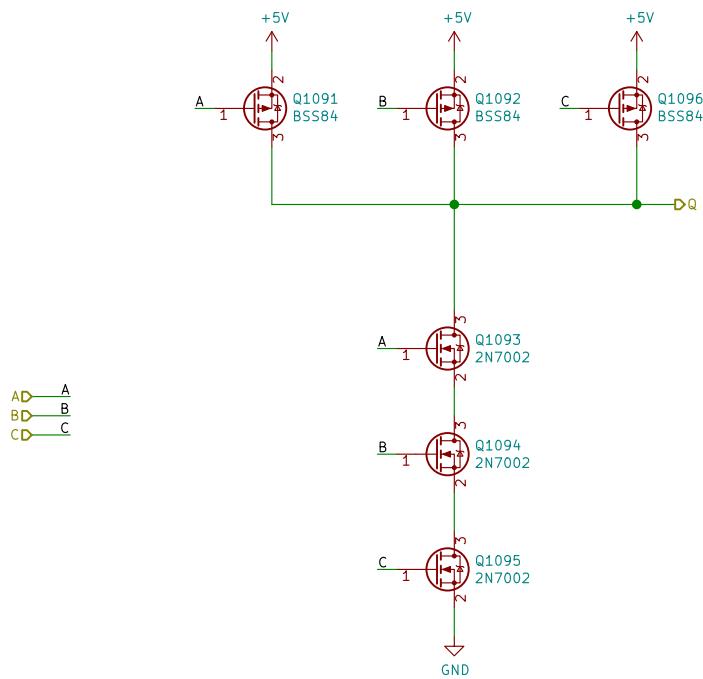
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011C/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

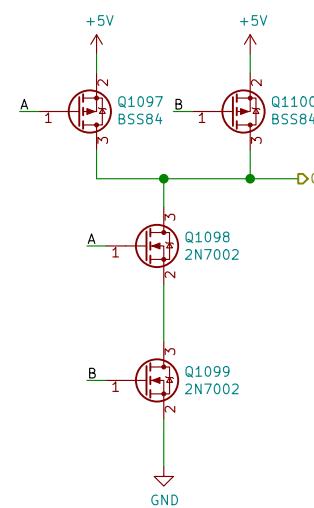
Rev: v0.0  
Id: 290/360

A

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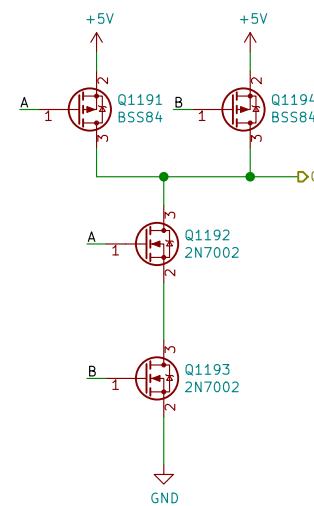
AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011C/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 291/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011C/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

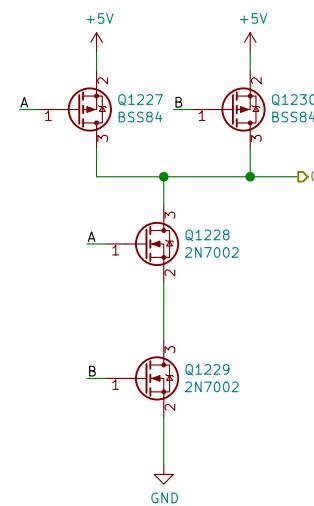
Id: 292/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011C/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 293/360

A

A

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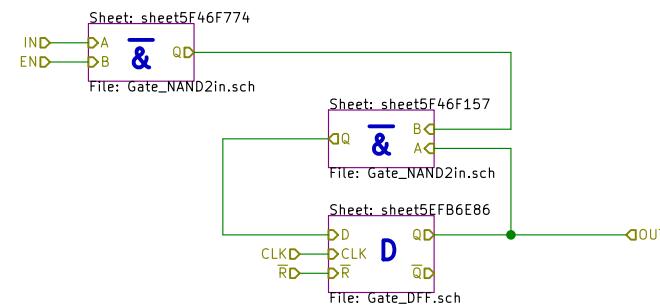
B

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c  
Philipp Schilk

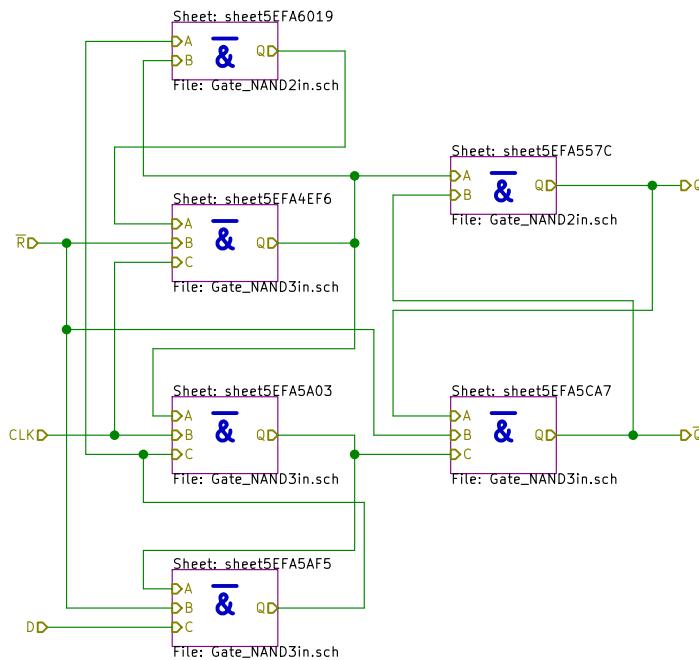
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File: MemCell.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 294/360

A



B

c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011D/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 295/360

A

A

B

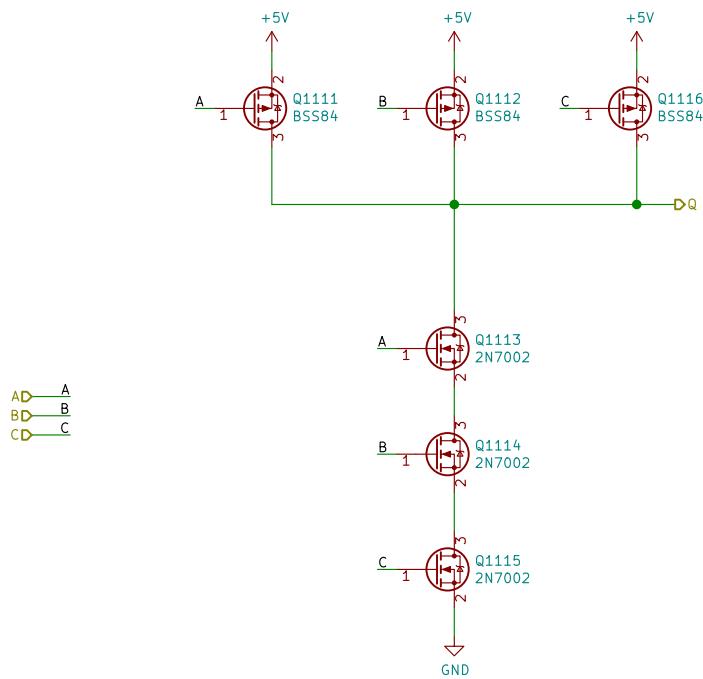
B

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AD—A  
BD—B  
CD—C

c  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011D/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

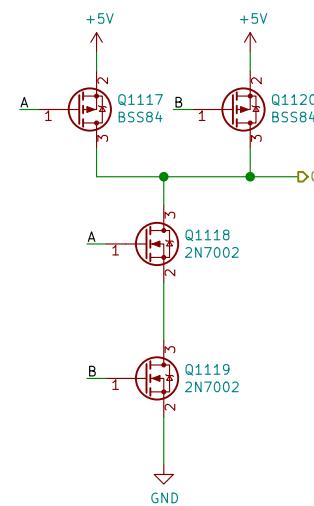
Id: 296/360

A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F18011D/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 297/360

A

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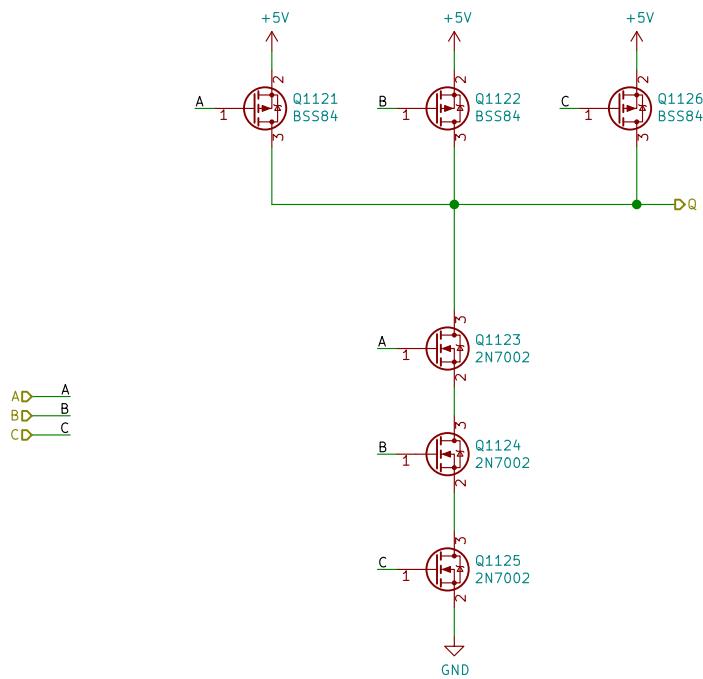
B

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c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011D/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 298/360

A

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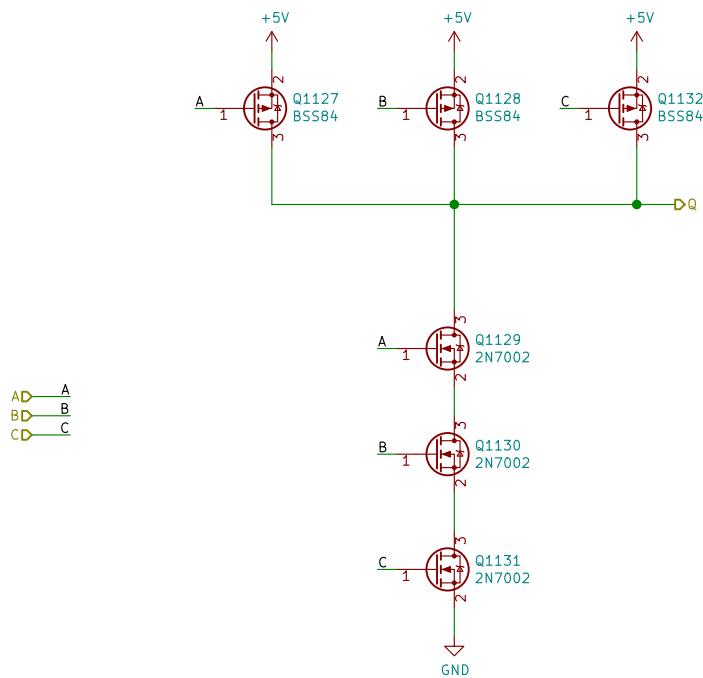
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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011D/sheet5EFB6E86/sheet5EFA5AF5/  
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 299/360

A

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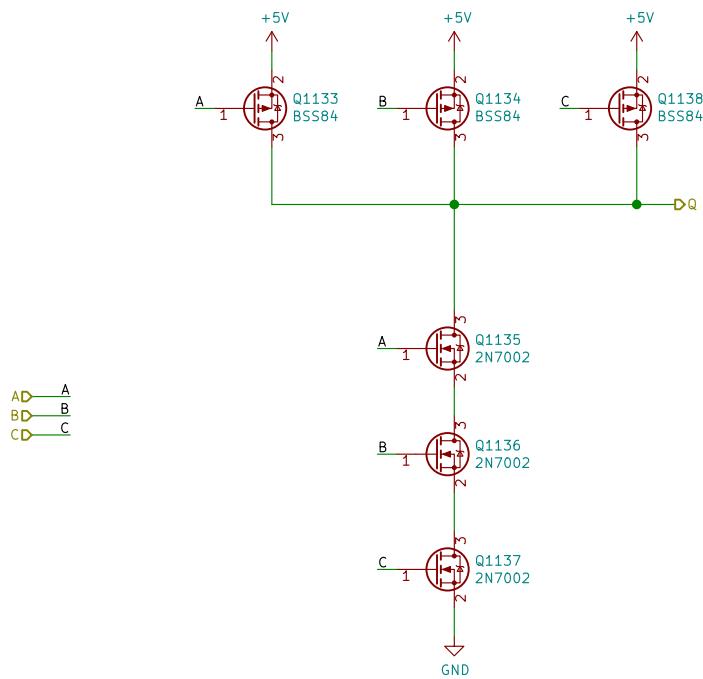
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AD—A  
BD—B  
CD—C

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Philipp Schilk  
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Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

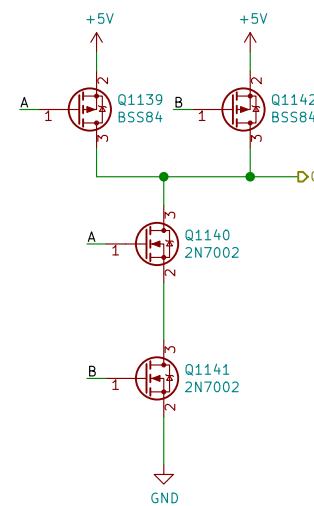
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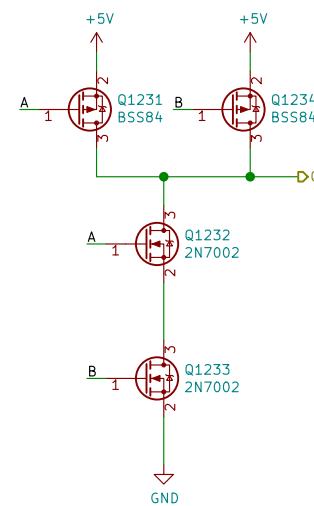
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BD—Bc  
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KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 301/360

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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011D/sheet5F46F157/  
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Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

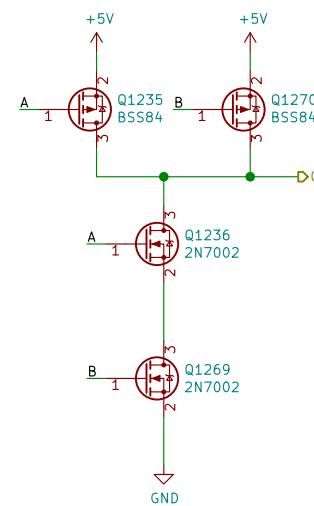
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A

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AD—A  
BD—Bc  
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Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 303/360

A

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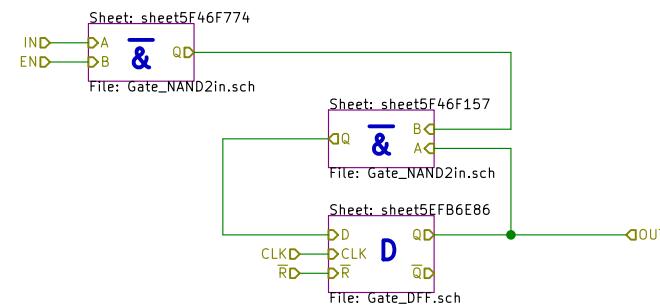
B

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Philipp Schilk

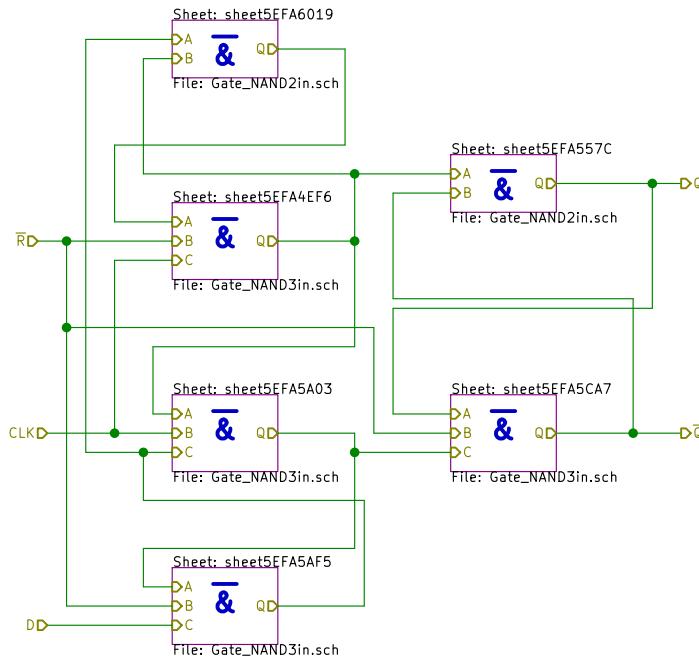
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Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 304/360

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Philipp Schilk  
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Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 305/360

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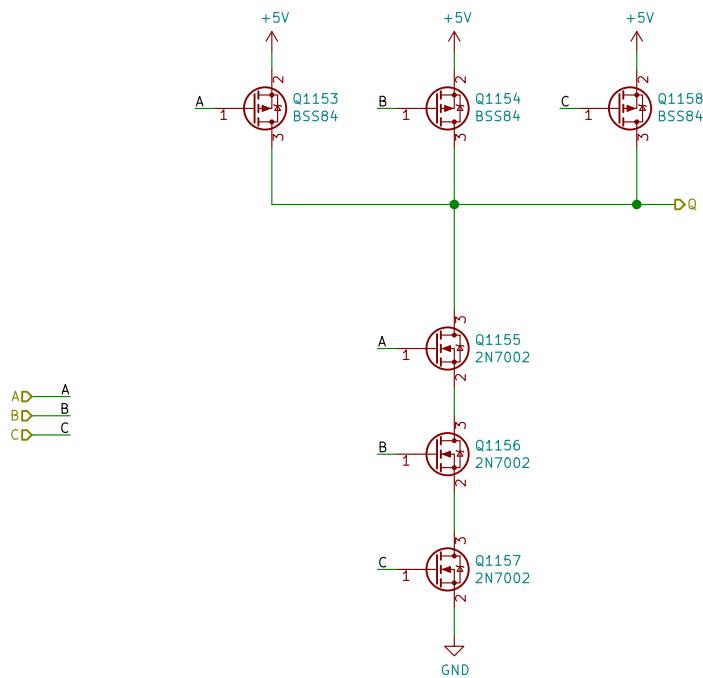
B

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Philipp Schilk

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**Title:**

Size: A4 Date: 2020-07-05  
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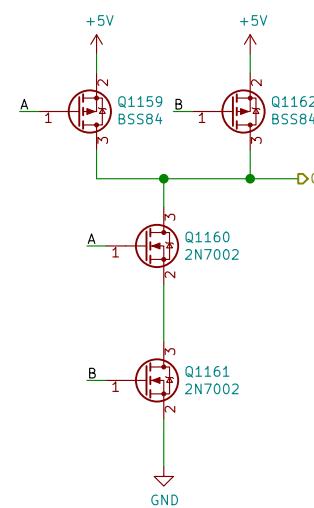
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A

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AD—A  
BD—Bc  
Philipp Schilk  
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Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 307/360

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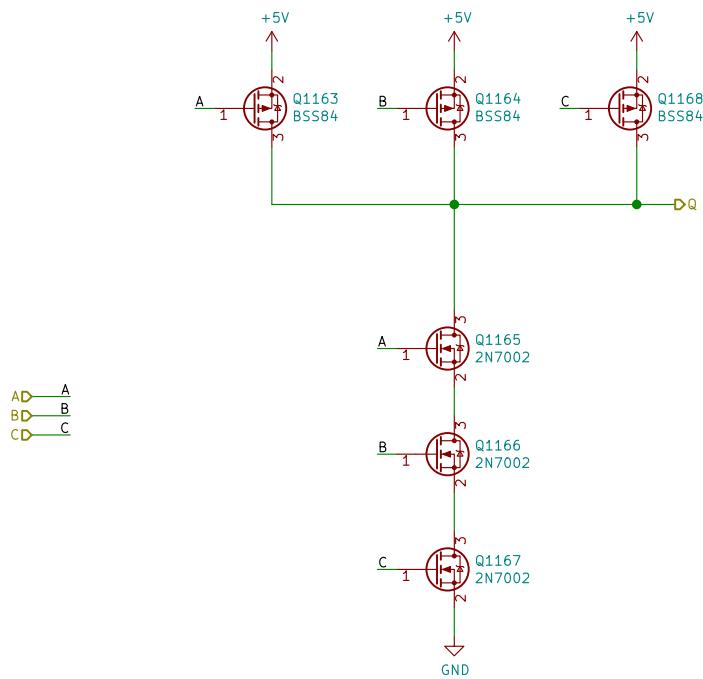
B

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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F18011E/sheet5EFB6E86/sheet5EFA5A03/  
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 308/360

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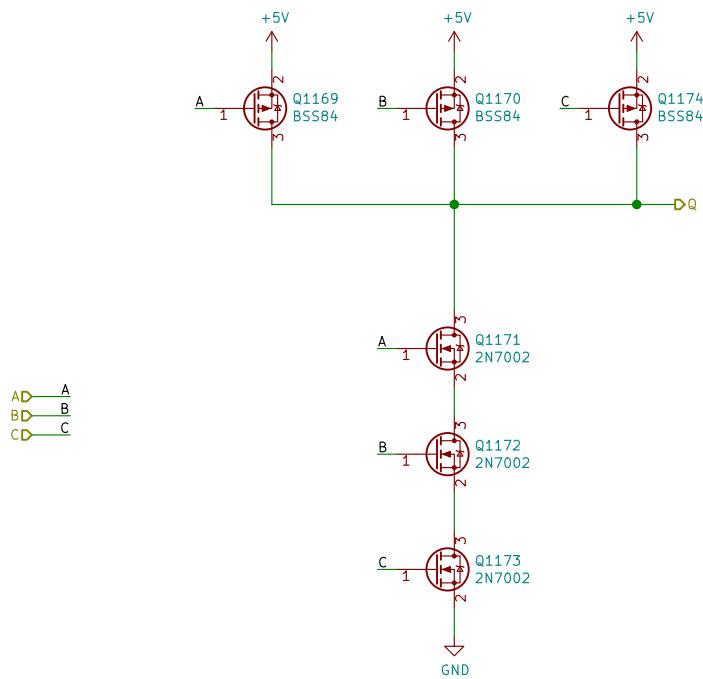
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Philipp Schilk

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**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 309/360

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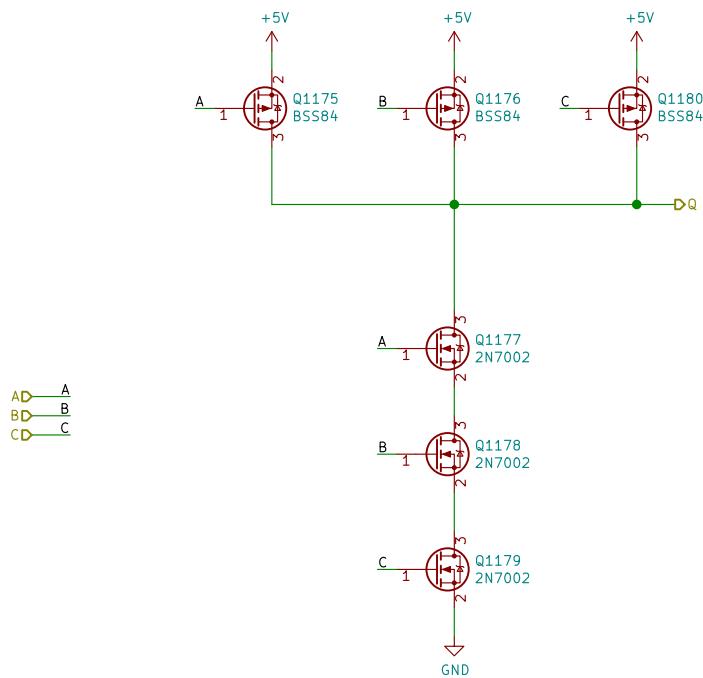
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Philipp Schilk

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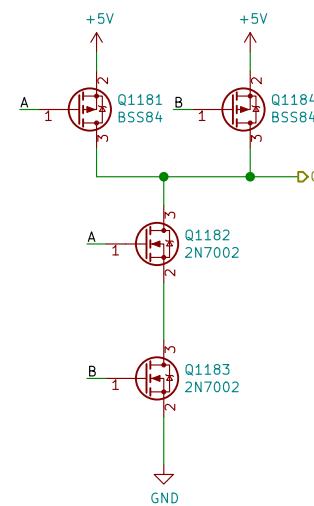
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AD—A  
BD—Bc  
Philipp Schilk  
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Rev: v0.0

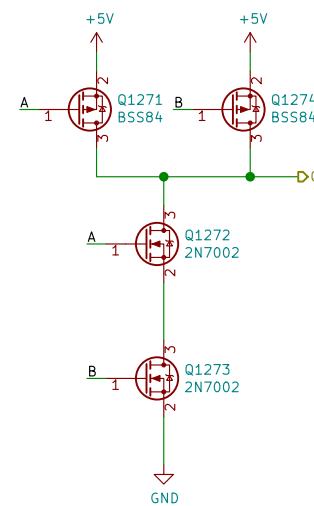
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AD—A  
BD—Bc  
Philipp Schilk  
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Rev: v0.0

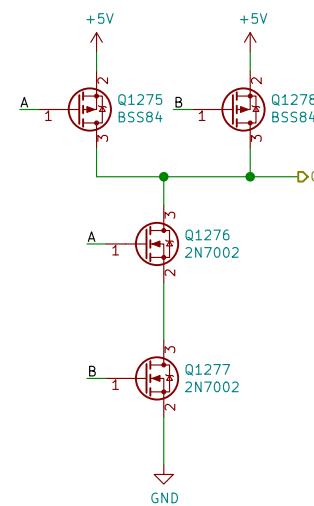
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AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F18011E/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 313/360

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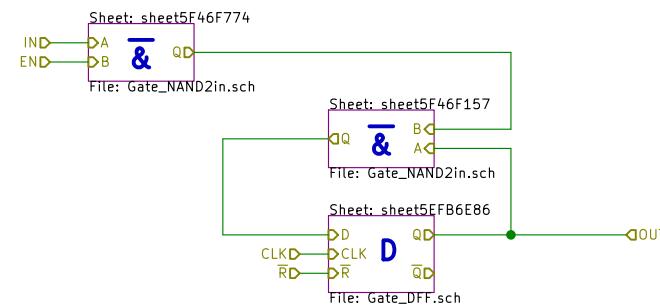
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Philipp Schilk

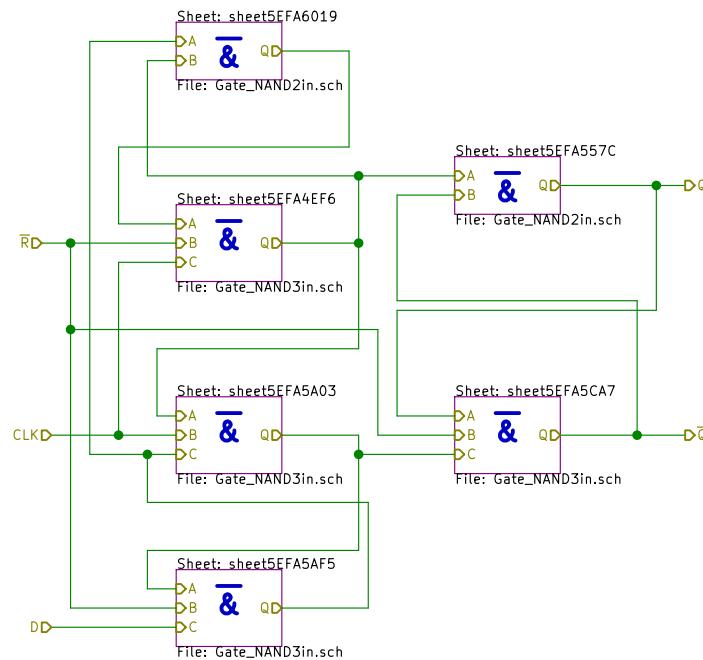
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Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 314/360

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Philipp Schilk  
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File: Gate\_DFF.sch

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Size: A4 Date: 2020-07-05  
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Rev: v0.0  
Id: 315/360

A

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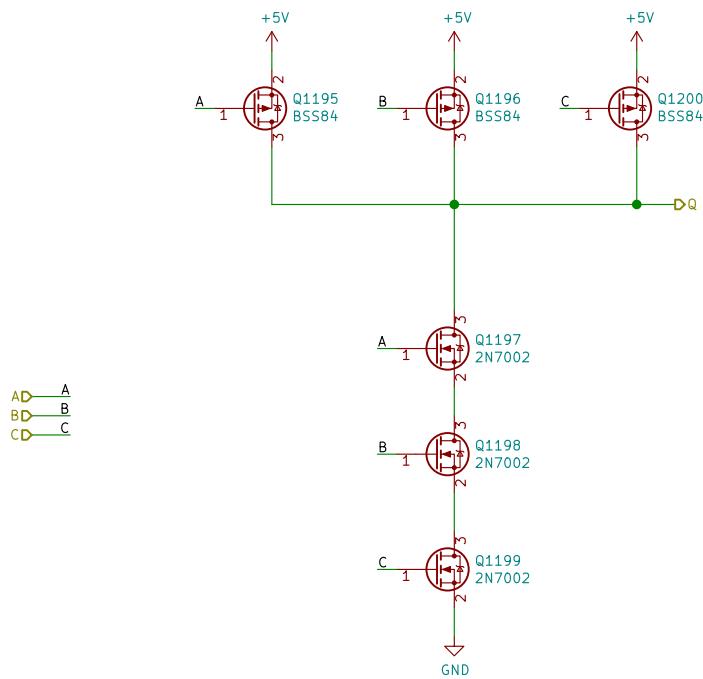
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AD—A  
BD—B  
CD—C

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Philipp Schilk

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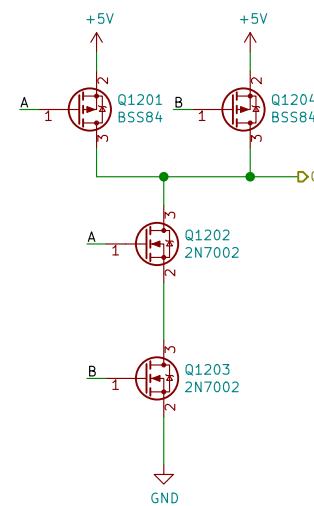
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Id: 316/360

A

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AD—A  
BD—Bc  
Philipp Schilk  
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KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 317/360

A

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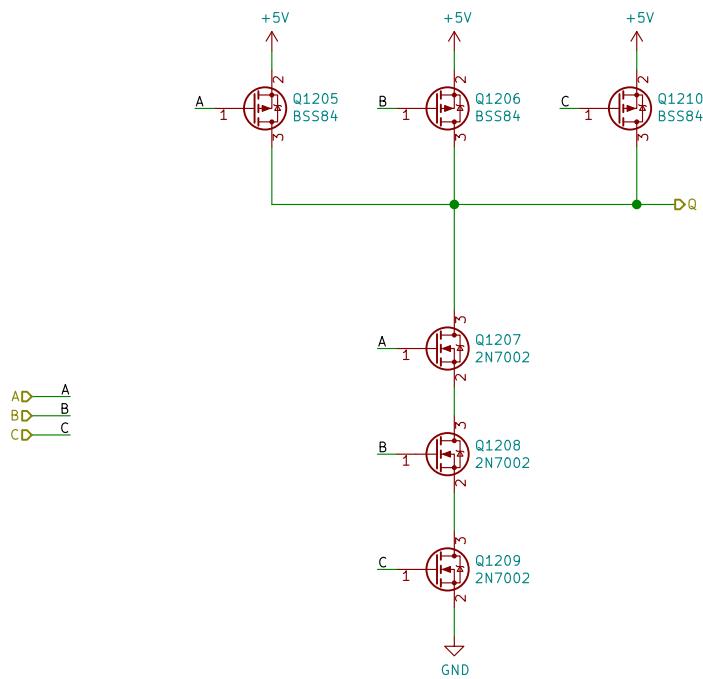
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Philipp Schilk

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**Title:**

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KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 318/360

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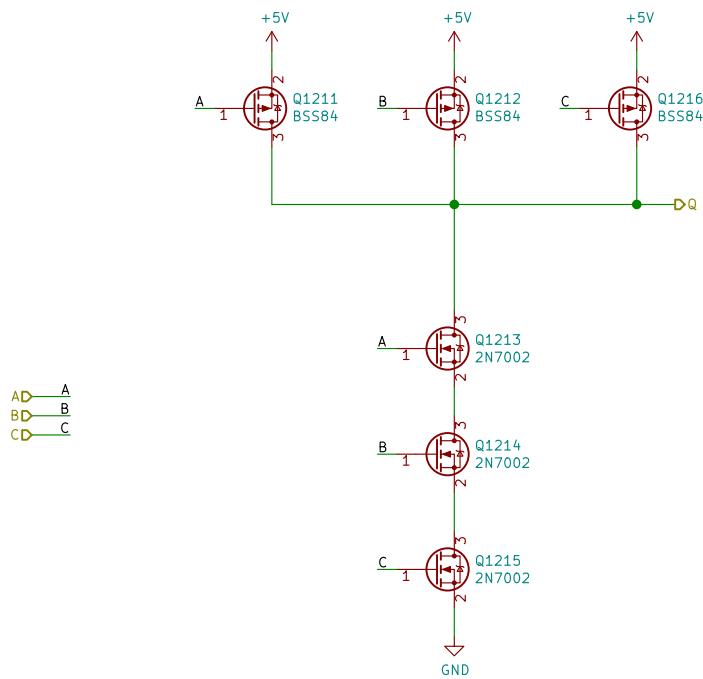
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Philipp Schilk

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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 319/360

A

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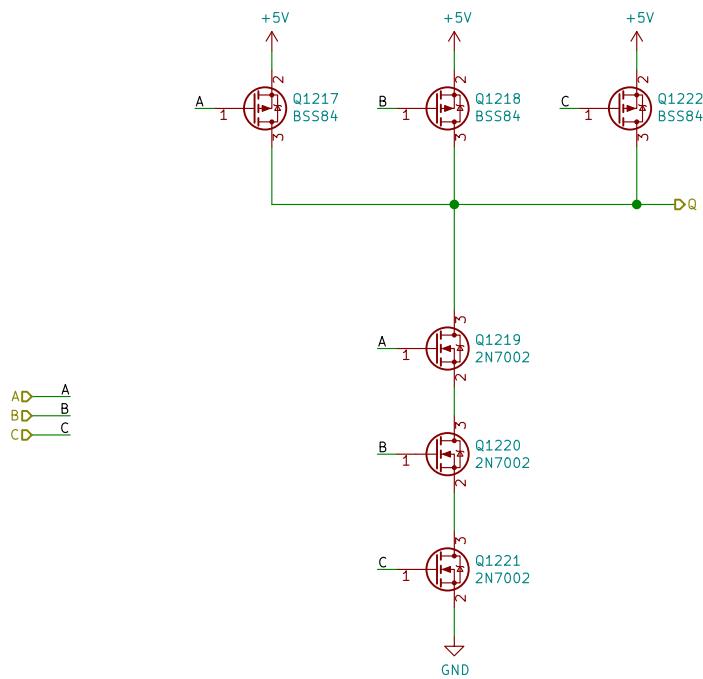
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Philipp Schilk

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**Title:**

Size: A4 Date: 2020-07-05  
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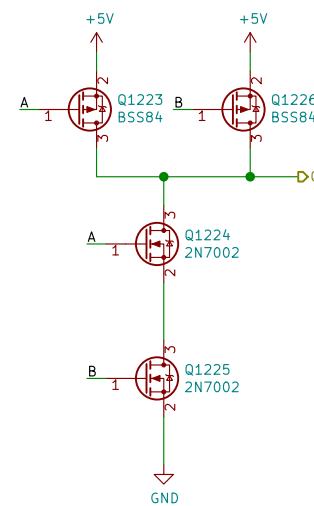
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Id: 320/360

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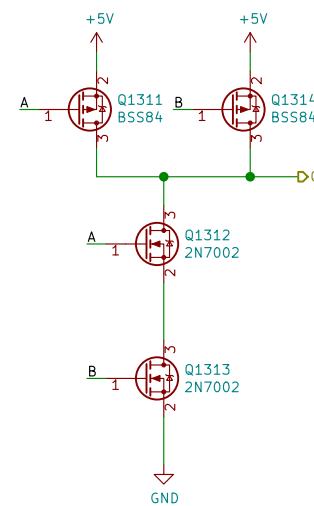
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BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F1827A6/sheet5EFB6E86/sheet5EFA6019/  
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Id: 321/360

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AD—A  
BD—Bc  
Philipp Schilk  
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Size: A4 | Date: 2020-07-05

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Rev: v0.0

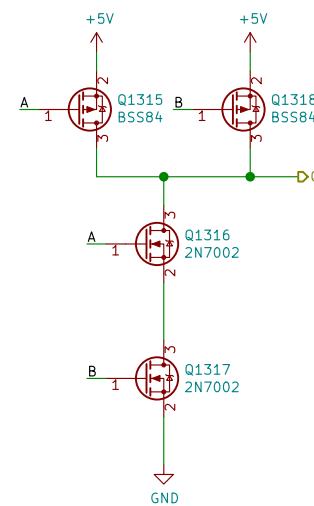
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BD—Bc  
Philipp Schilk  
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Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 323/360

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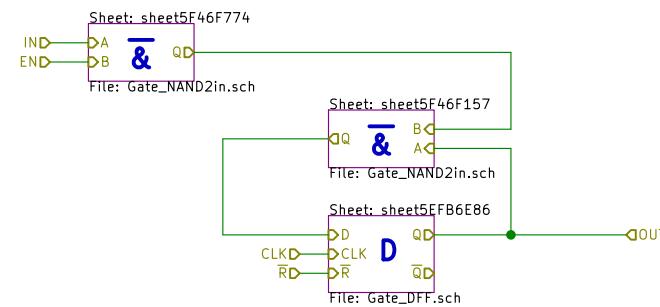
B

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Philipp Schilk

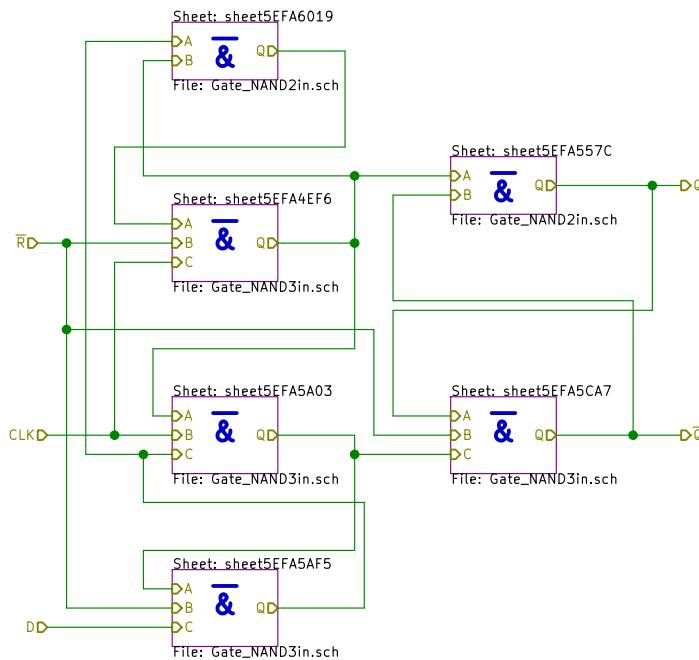
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 324/360

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c  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F1827A7/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 325/360

A

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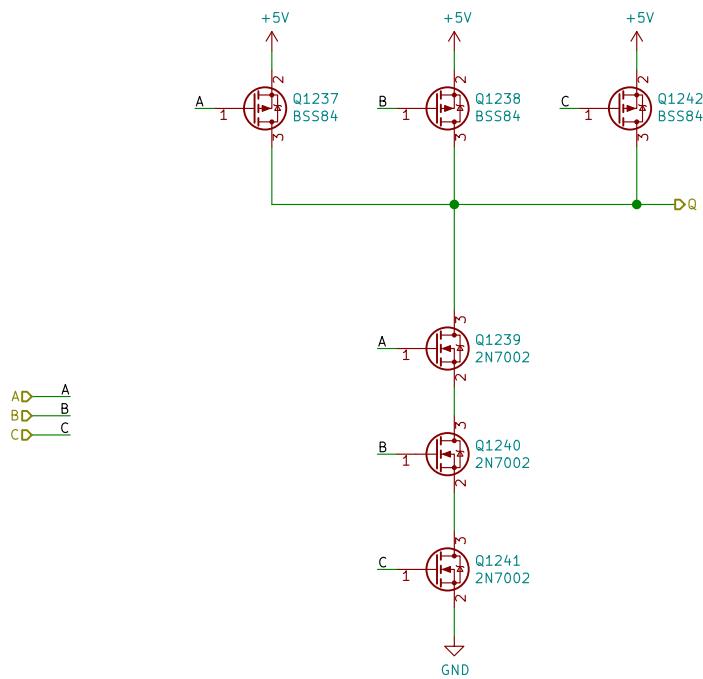
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Philipp Schilk

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**Title:**

Size: A4 Date: 2020-07-05  
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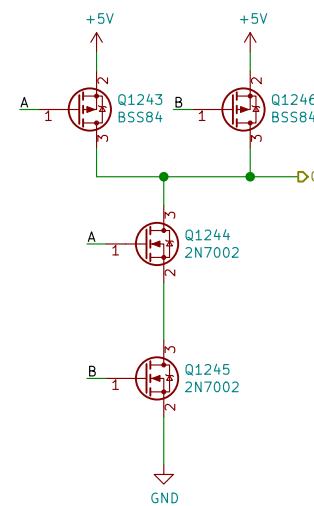
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A

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AD—A  
BD—Bc  
Philipp Schilk  
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Size: A4 Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

Id: 327/360

A

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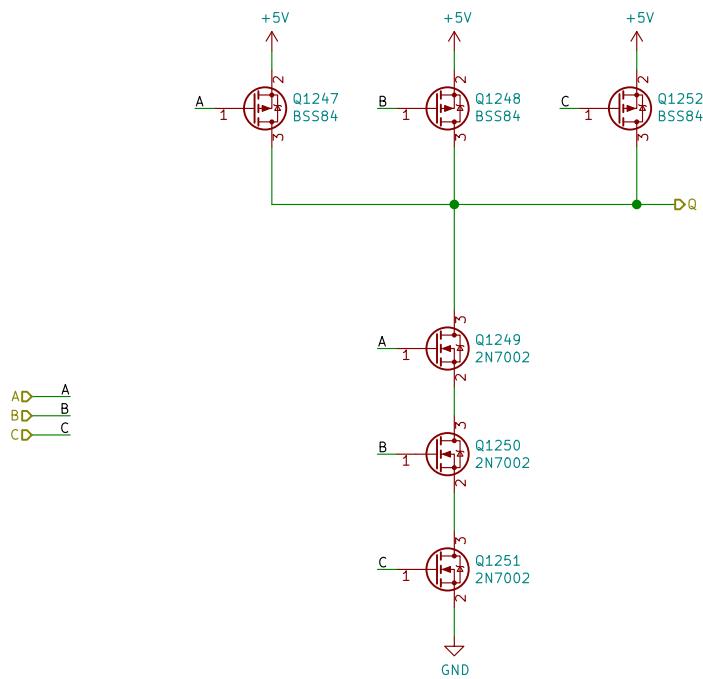
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Philipp Schilk

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File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 328/360

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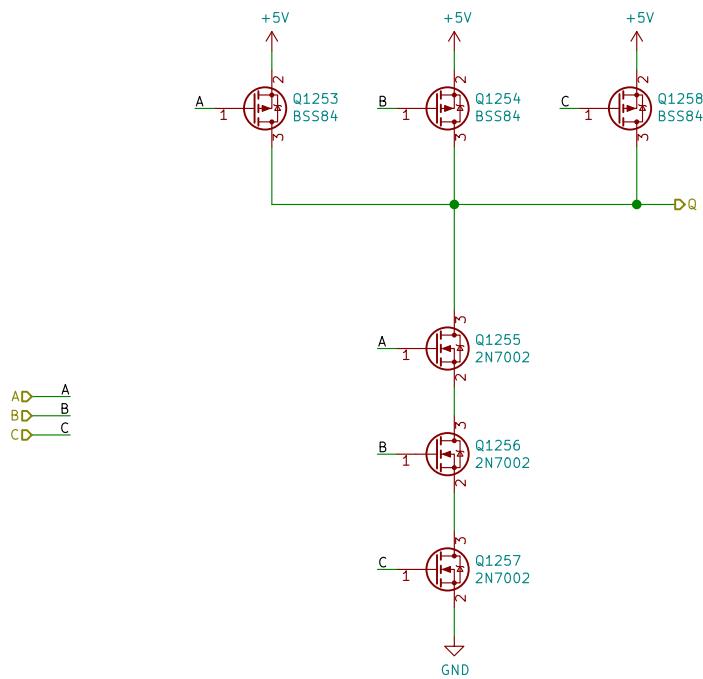
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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A7/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 329/360

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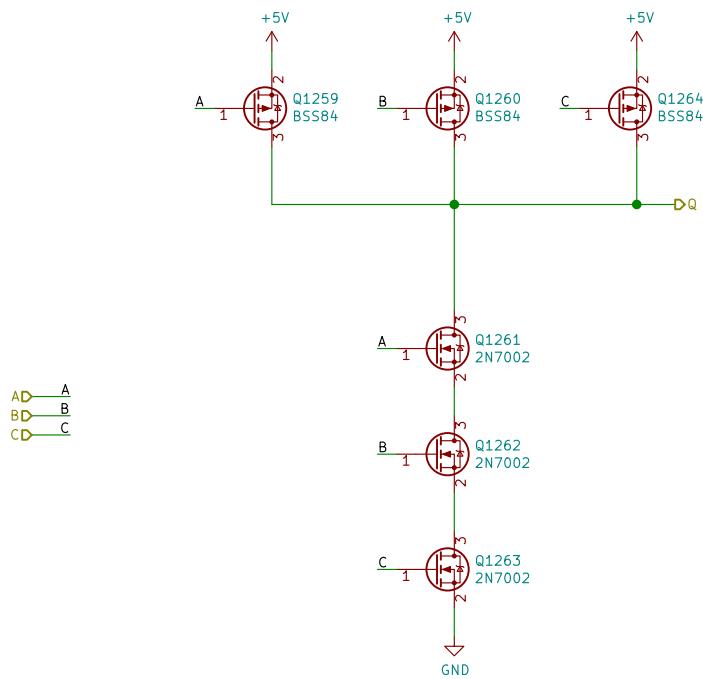
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Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A7/sheet5EFB6E86/sheet5EFA5CA7/  
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**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

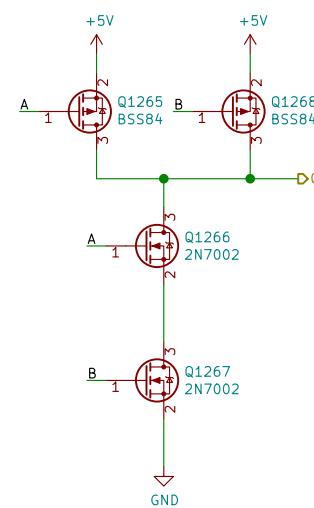
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AD—A  
BD—Bc  
Philipp Schilk  
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Rev: v0.0

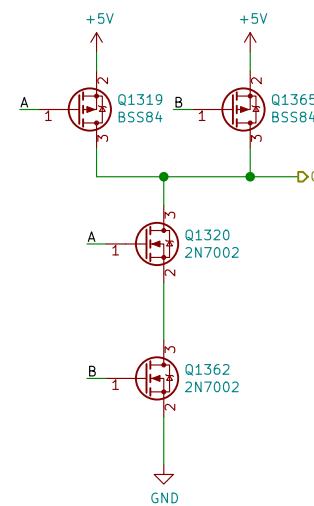
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A

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AD—A  
BD—Bc  
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Sheet: /PlayerMem\_2/sheet5F1827A7/sheet5F46F157/  
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Rev: v0.0

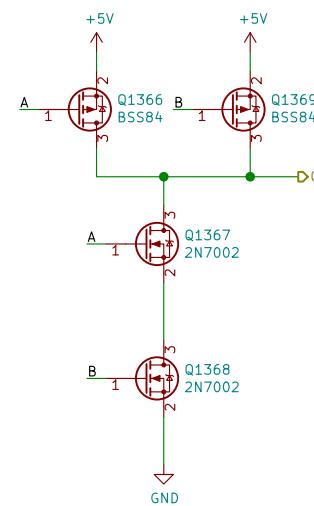
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A

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AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F1827A7/sheet5F46F774/  
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Id: 333/360

A

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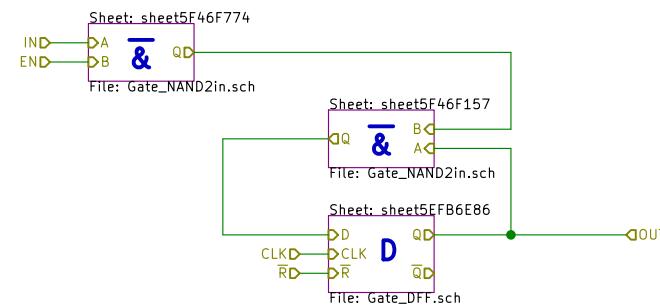
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c  
Philipp Schilk

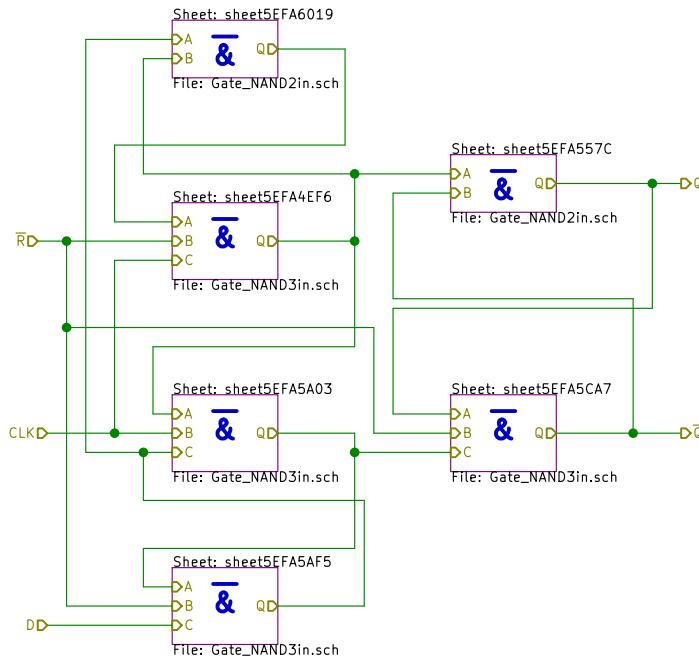
Sheet: /PlayerMem\_2/sheet5F1827A8/  
File: MemCell.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 334/360

A



B

c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/  
File: Gate\_DFF.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 335/360

A

A

B

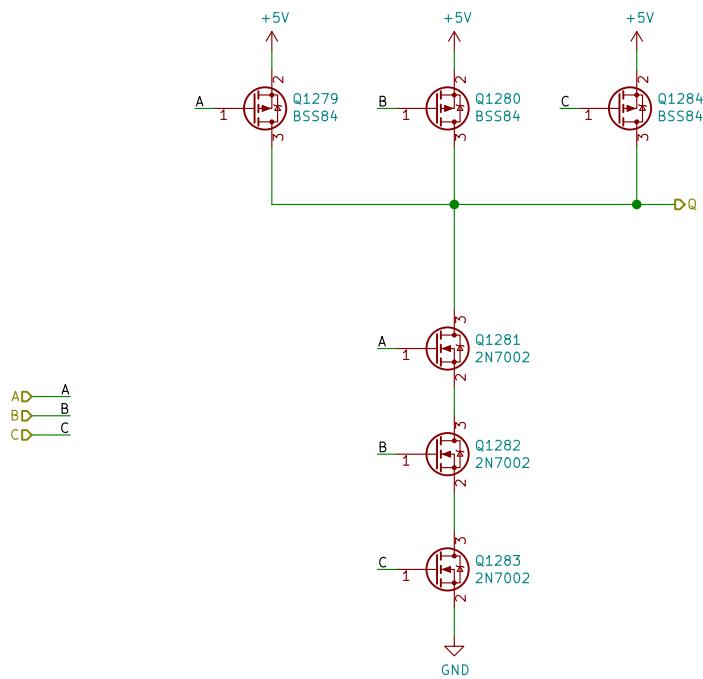
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/sheet5EFA4EF6/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

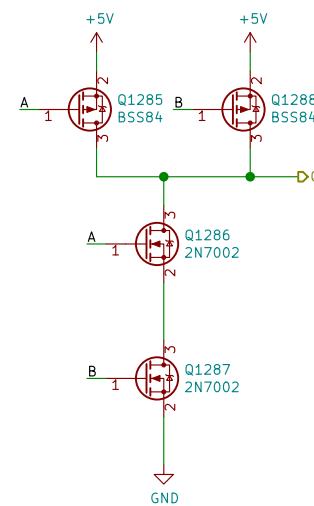
Rev: v0.0  
Id: 336/360

A

B

C

D

AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/sheet5EFA557C/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 337/360

A

A

B

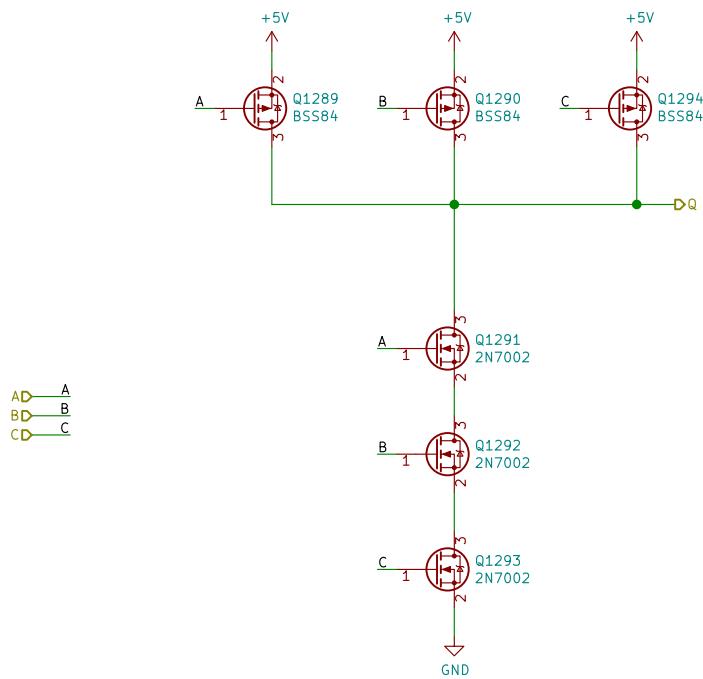
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/sheet5EFA5A03/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 338/360

A

A

B

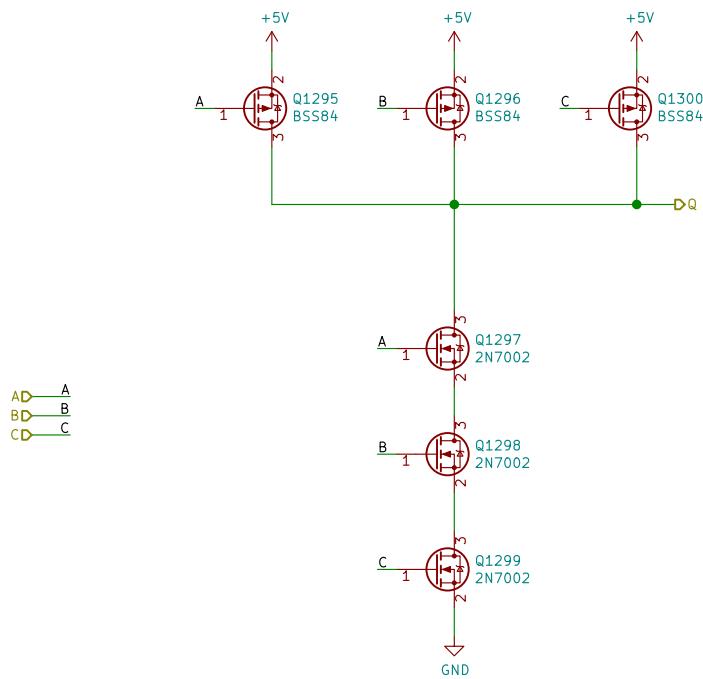
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/sheet5EFA5AF5/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 339/360

A

A

B

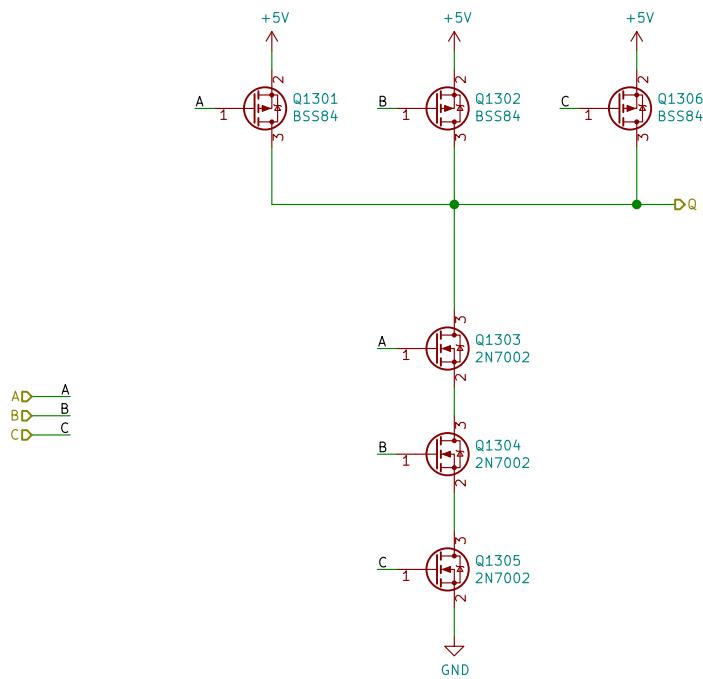
B

C

C

D

D



c  
Philipp Schilk

Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/sheet5EFA5CA7/  
File: Gate\_NAND3in.sch

**Title:**

Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

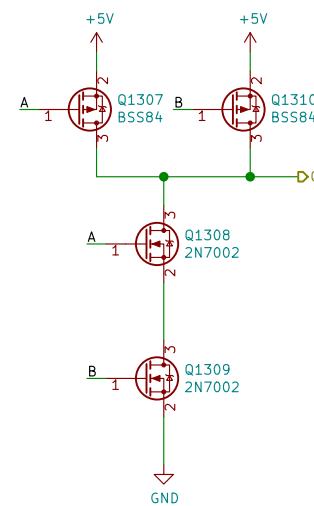
Rev: v0.0  
Id: 340/360

A

B

C

D

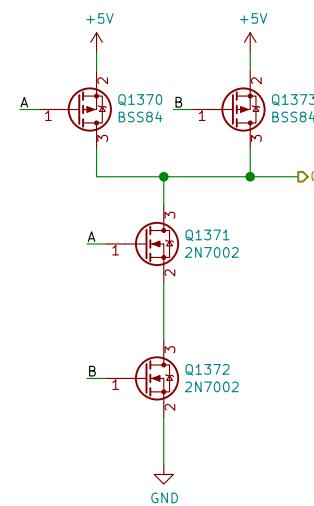
AD—A  
BD—Bc  
Philipp SchilkSheet: /PlayerMem\_2/sheet5F1827A8/sheet5EFB6E86/sheet5EFA6019/  
File: Gate\_NAND2in.sch**Title:**Size: A4 | Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3Rev: v0.0  
Id: 341/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5F46F157/  
File: Gate\_NAND2in.sch**Title:**

Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0

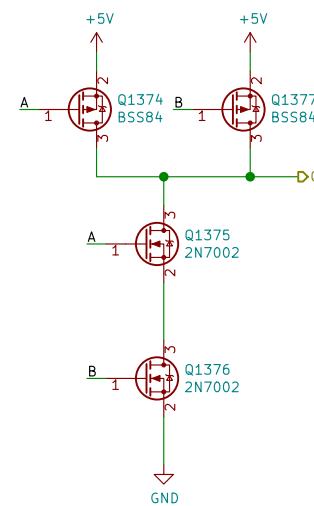
Id: 342/360

A

B

C

D

AD—A  
BD—Bc  
Philipp Schilk  
Sheet: /PlayerMem\_2/sheet5F1827A8/sheet5F46F774/  
File: Gate\_NAND2in.sch**Title:**

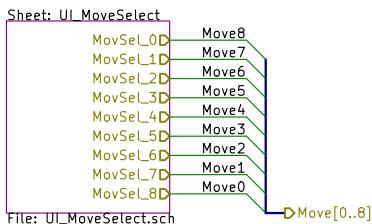
Size: A4 | Date: 2020-07-05

KiCad E.D.A. kicad (5.1.5)-3

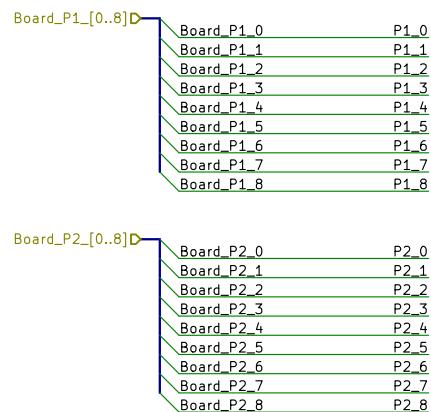
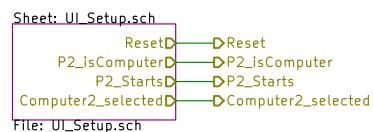
Rev: v0.0

Id: 343/360

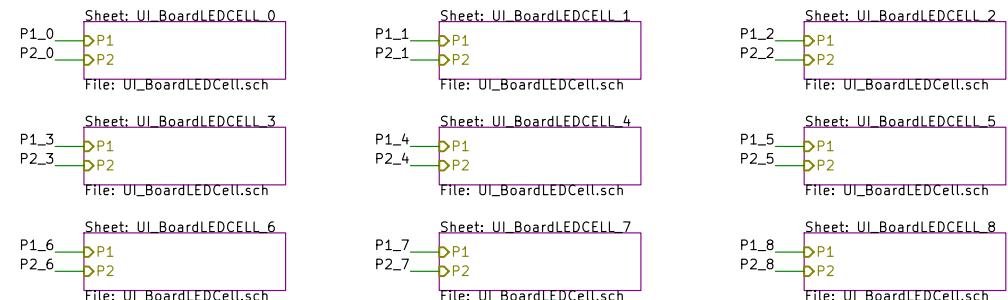
## Player Move Selection



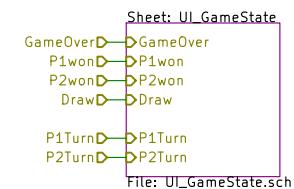
## Setup



## Board Display



## GameState Display



c  
Philipp Schilk

Sheet: /UI.sch/  
File: UI.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 344/360

1 2 3 4 5 6

A

A

B

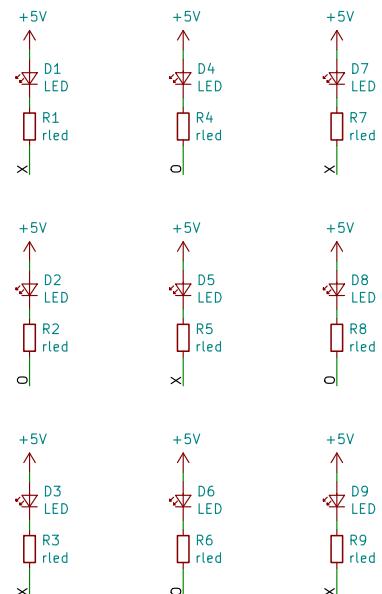
B

C

C

D

D



c  
Philipp Schilk

Sheet: /UI.sch/UI\_BoardLEDCELL\_0/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 345/360

1 2 3 4 5 6

A

A

B

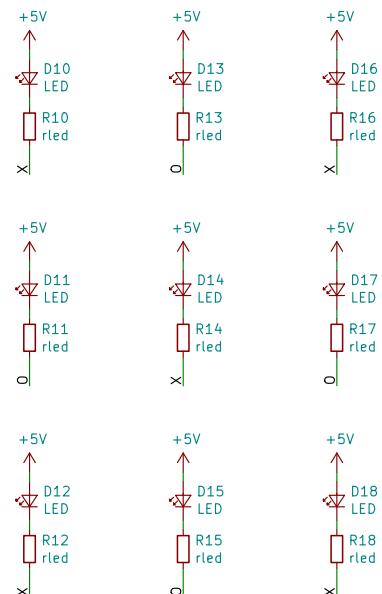
B

C

C

D

D



c  
**Philipp Schilk**  
Sheet: /UI.sch/UI\_BoardLEDCELL\_1/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 346/360

1 2 3 4 5 6

A

A

B

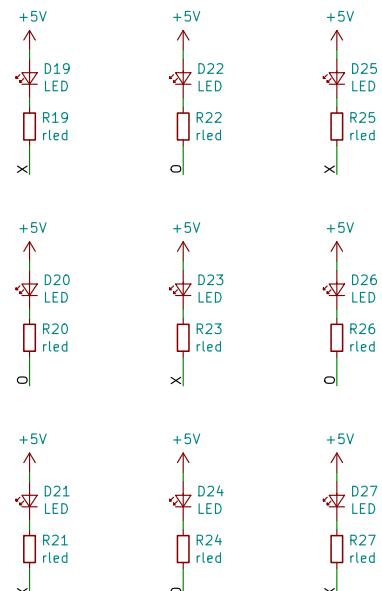
B

C

C

D

D



c  
Philipp Schilk

Sheet: /UI.sch/UI\_BoardLEDCELL\_2/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 347/360

1 2 3 4 5 6

A

A

B

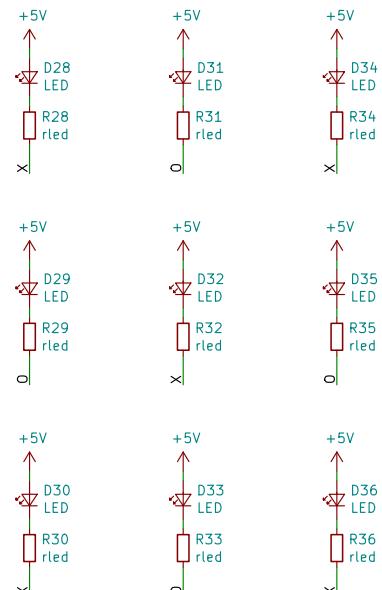
B

C

C

D

D



c  
**Philipp Schilk**

Sheet: /UI.sch/UI\_BoardLEDCELL\_3/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

**Rev: v0.0**  
Id: 348/360

A

A

B

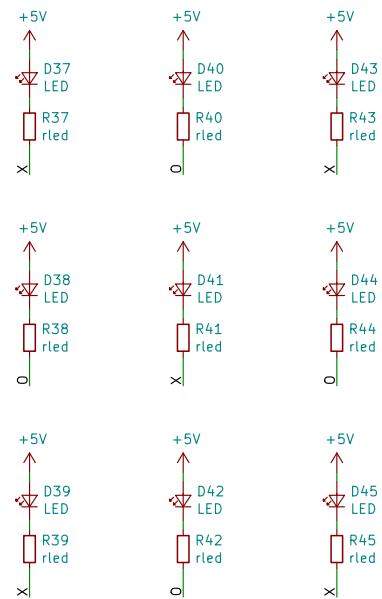
B

C

C

D

D



c  
Philipp Schilk

Sheet: /UI.sch/UI\_BoardLEDCELL\_4/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 349/360

A

A

B

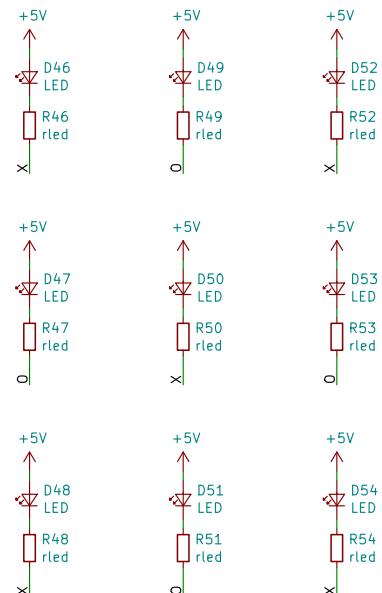
B

C

C

D

D



c  
**Philipp Schilk**  
Sheet: /UI.sch/UI\_BoardLEDCELL\_5/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 350/360

A

A

B

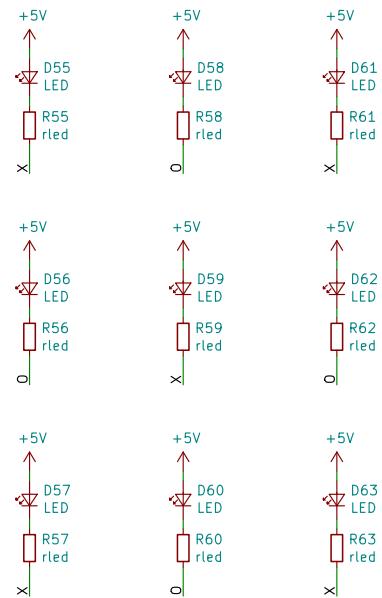
B

C

C

D

D



c  
**Philipp Schilk**

Sheet: /UI.sch/UI\_BoardLEDCELL\_6/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 351/360

A

A

B

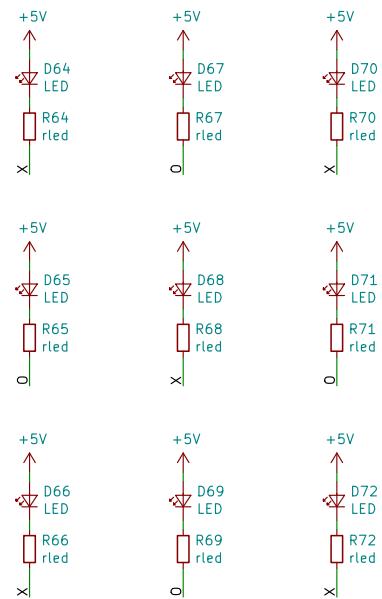
B

C

C

D

D



c  
**Philipp Schilk**

Sheet: /UI.sch/UI\_BoardLEDCELL\_7/  
File: UI\_BoardLEDCell.sch

**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 352/360

A

A

B

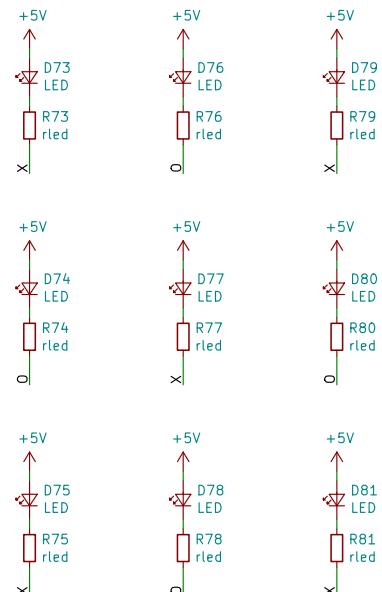
B

C

C

D

D



c  
**Philipp Schilk**

Sheet: /UI.sch/UI\_BoardLEDCELL\_8/  
 File: UI\_BoardLEDCell.sch

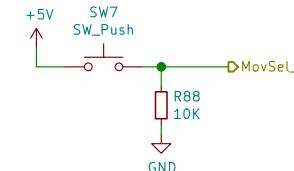
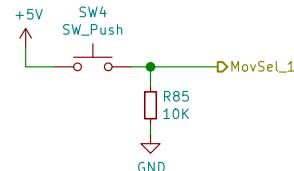
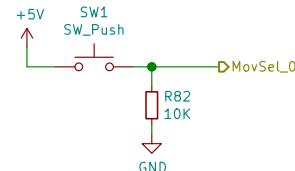
**Title: Fets and Crosses**

Size: A4 Date: 2020-07-05  
 KiCad E.D.A. kicad (5.1.5)-3

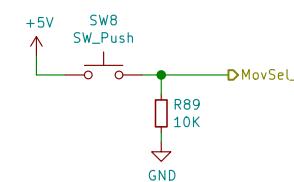
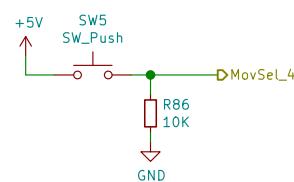
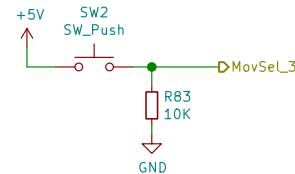
Rev: v0.0  
 Id: 353/360

1 2 3 4 5 6

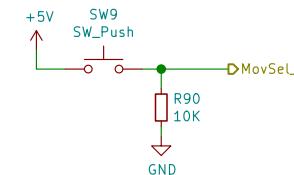
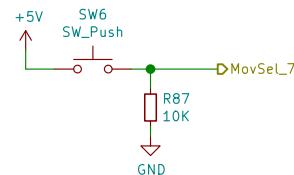
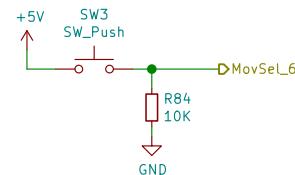
A



B



C



D

c  
Philipp Schilk

Sheet: /UI.sch/UI\_MoveSelect/  
File: UI\_MoveSelect.sch

Title:

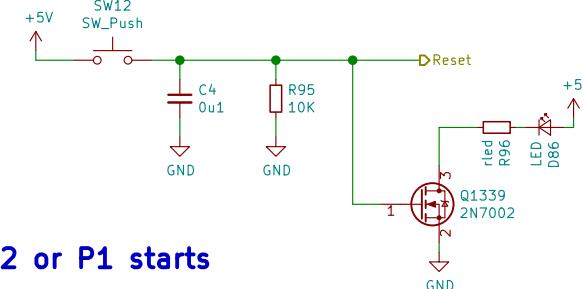
Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 354/360

1 2 3 4 5 6

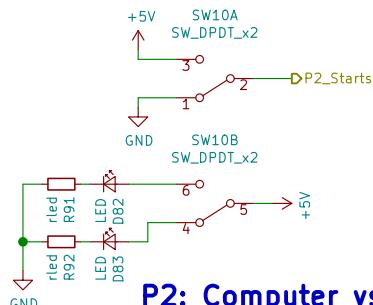
A

A

**Reset**

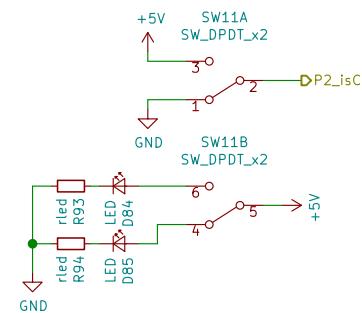
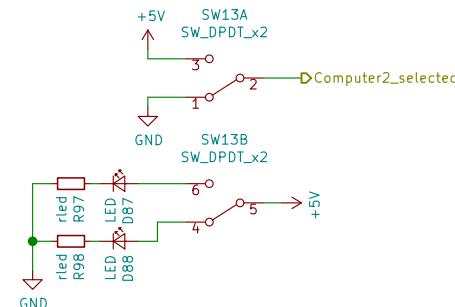
B

B

**P2 or P1 starts**

C

C

**P2: Computer vs. Human Select****Computer1 or Computer2**

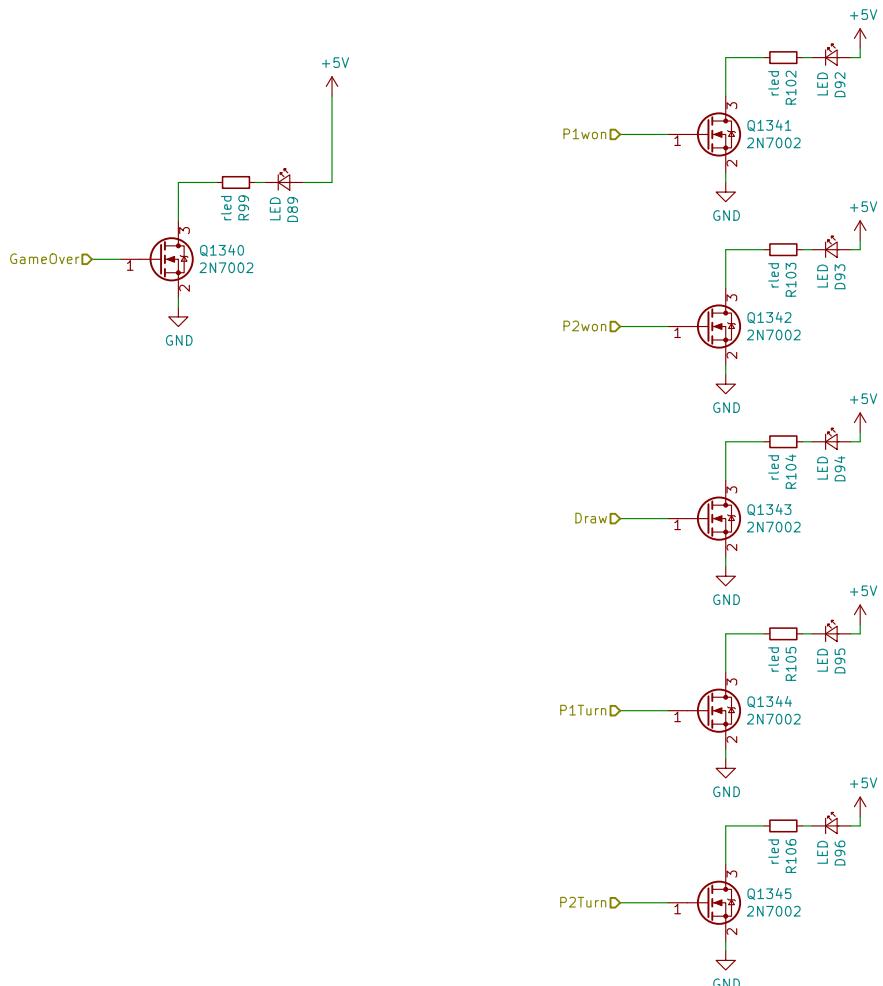
c  
Philipp Schilk

Sheet: /UI.sch/UI\_Setup.sch/  
File: UI\_Setup.sch

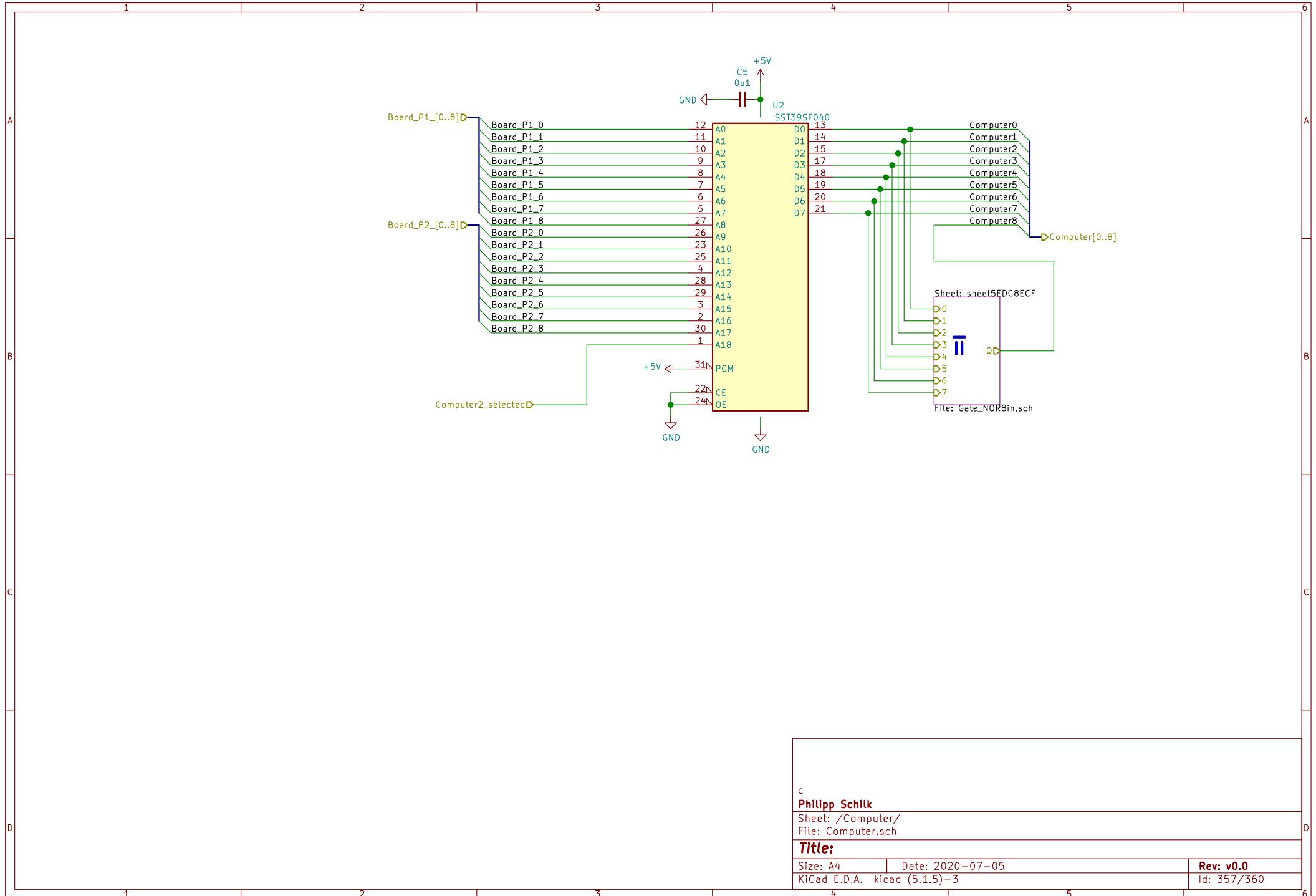
**Title:**

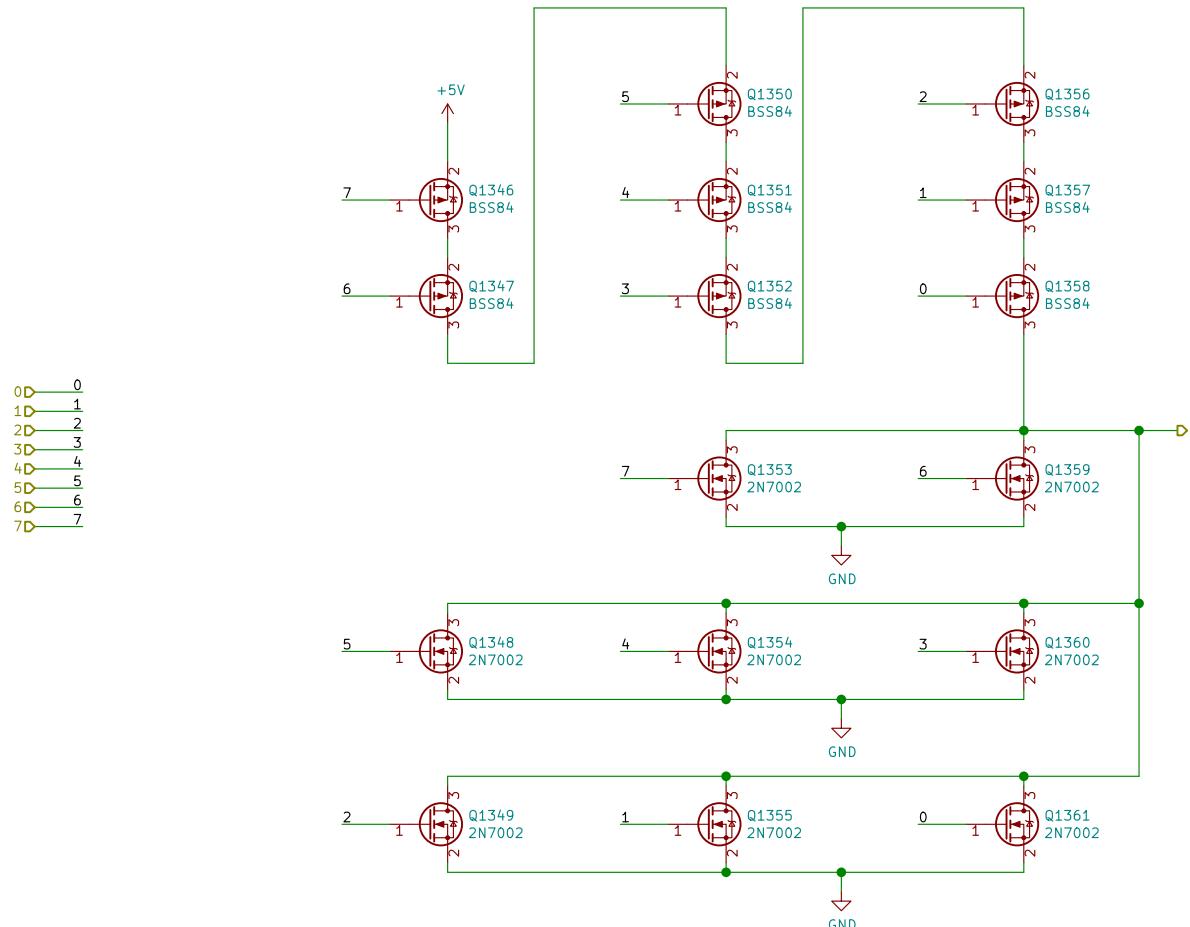
Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 355/360



c	
<b>Philipp Schilk</b>	
Sheet: /UI.sch/UI_GameState/	
File: UI_GameState.sch	
<b>Title:</b>	
Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	
Rev: v0.0	
Id: 356/360	





c  
Philipp Schilk

Sheet: /Computer/sheet5EDC8ECF/  
File: Gate\_NOR8in.sch

**Title:**

Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	

Rev: v0.0
Id: 358/360

A

A

B

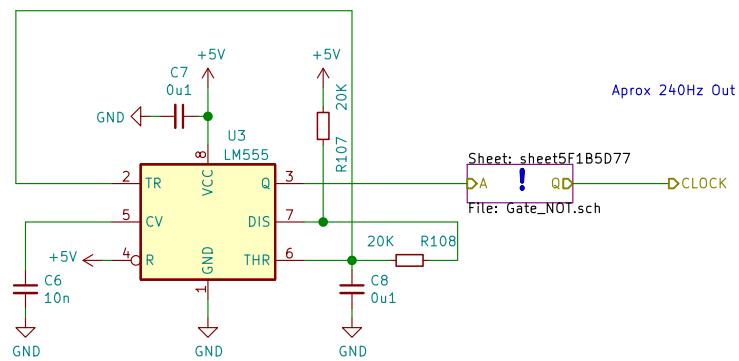
B

C

C

D

D



c  
Philipp Schilk

Sheet: /Clock/  
File: Clock.sch

**Title:**

Size: A4	Date: 2020-07-05
KiCad E.D.A. kicad (5.1.5)-3	

Rev: v0.0
Id: 359/360

A

B

C

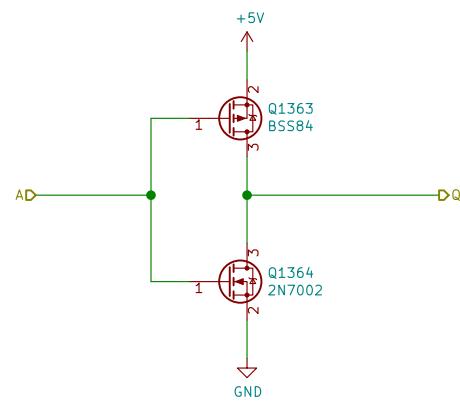
D

A

B

C

D



c  
Philipp Schilk

Sheet: /Clock/sheet5F1B5D77/  
File: Gate\_NOT.sch

**Title:**

Size: A4 Date: 2020-07-05  
KiCad E.D.A. kicad (5.1.5)-3

Rev: v0.0  
Id: 360/360