The 7493 TTL 4-bit Binary Counter

Wired as a Mod-16 Counter

Input B — 1
RO$_1$ — 2
RO$_2$ — 3
NC — 4
VCC — 5
NC — 6
NC — 7

4-bit binary counter

7493

14 — Input A
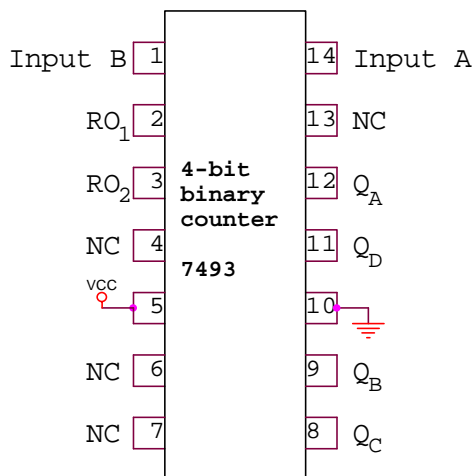13 — NC
12 — Q$_A$
11 — Q$_D$
10
9 — Q$_B$
8 — Q$_C$

Wired as a Mod-8 Counter

Input B — 1
RO$_1$ — 2
RO$_2$ — 3
NC — 4
VCC — 5
NC — 6
NC — 7

4-bit binary counter

7493

14 — Input A
13 — NC
12 — Q$_A$
11 — Q$_D$
10
9 — Q$_B$
8 — Q$_C$

Wired as a Mod-11 Counter

Input B — 1
RO$_1$ — 2
RO$_2$ — 3
NC — 4
VCC — 5
NC — 6
NC — 7

4-bit binary counter

7493
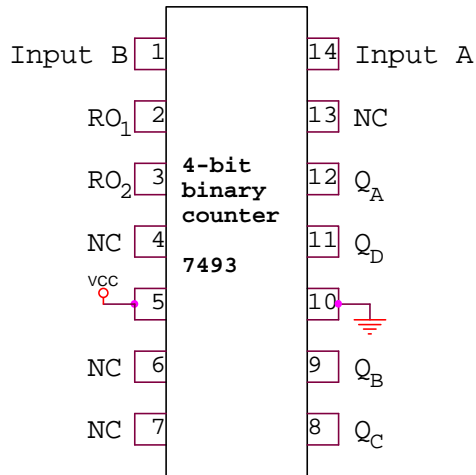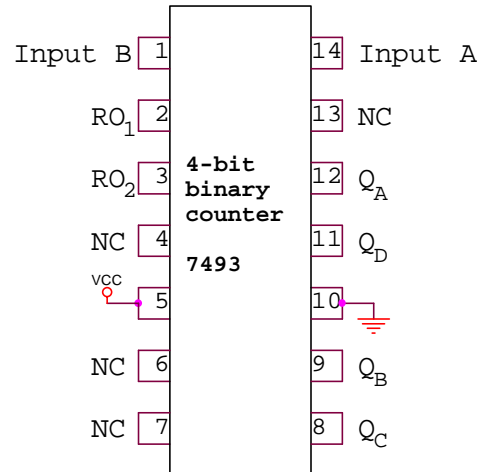
14 — Input A
13 — NC
12 — Q$_A$
11 — Q$_D$
10
9 — Q$_B$
8 — Q$_C$

Miscellaneous Notes:

Q$_A$ is always hooked to _____ because it controls the _____ for the 2nd internal JK-FF.

Input A is always hooked to _____

R$_0$ & R$_1$ are pins that are hooked to the internal _____ gate.