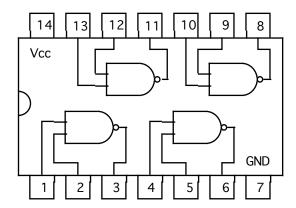
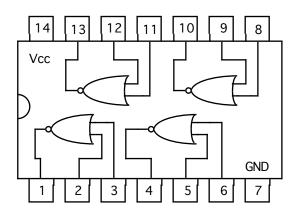
CSC 355 Chipset – Logic and Connection Diagrams

DM7400 quad 2-input NAND

LOGIC AND CONNECTION DIAGRAM



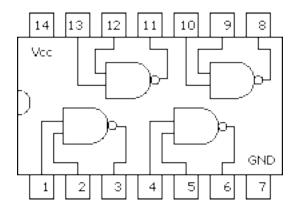
DM7402 quad 2-input NOR



Note: The 7400 and 7402 have different input/ouput pin assignments!

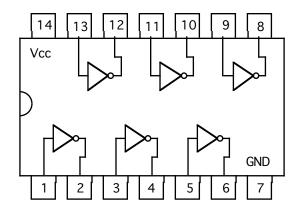
DM7403 quad 2-input NAND (open-collector)

7403 open collector is designed for applications where the normal "totem-pole" output configuration is not wanted. Aside from the output, the circuitry is identical to the standard quad 2-input gate (7400).

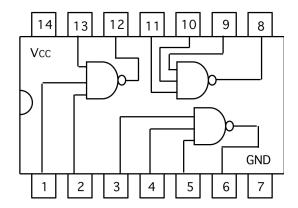


DM7404 hex inverter

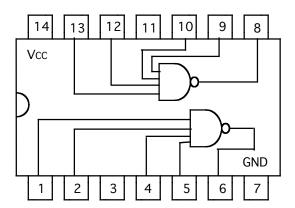
LOGIC AND CONNECTION DIAGRAM



DM7410 triple 3-input NAND

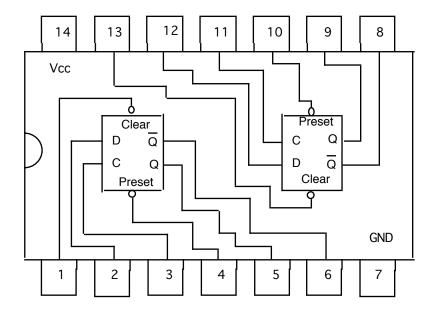


DM7420 4-input NAND



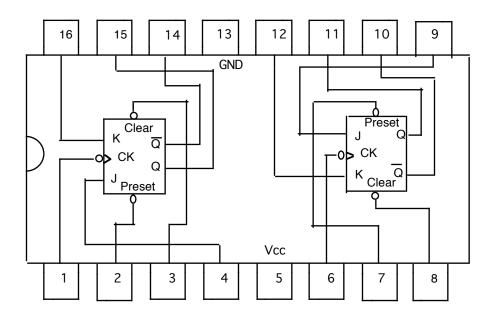
DM7474 dual D flip flop

LOGIC AND CONNECTION DIAGRAM



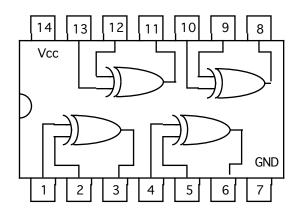
DM7476 dual JK flip flop

LOGIC AND CONNECTION DIAGRAM



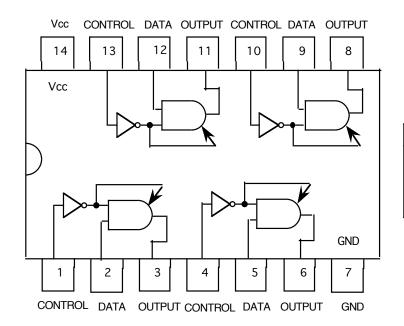
DM7486 quad 2-input EXOR

LOGIC AND CONNECTION DIAGRAM



DM74125 tri-state quad buffer

LOGIC AND CONNECTION DIAGRAM



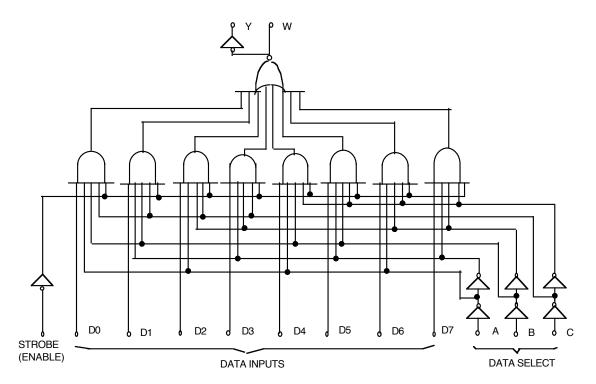
TRUTH TABLE

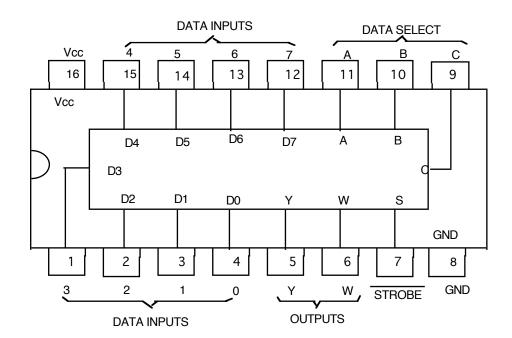
DATA	CONTROL	OUTPUT
1	0	1
0	0	0
Χ	1	Hi-Z

x = Irrelevant

DM74151 Data selector/multiplexer

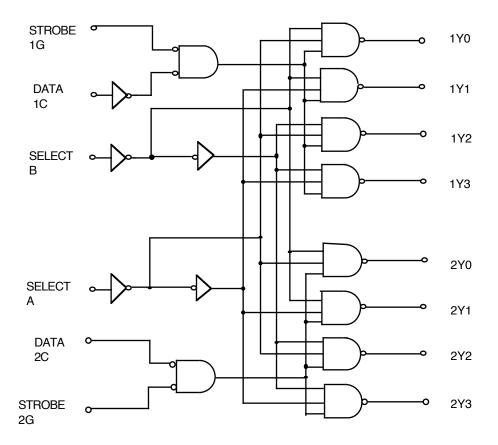
LOGIC DIAGRAM

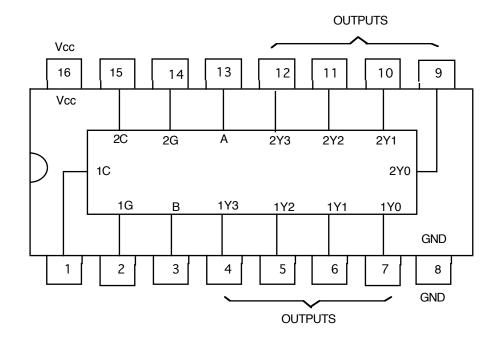




DM74155 dual decoder/demultiplexer

LOGIC DIAGRAM



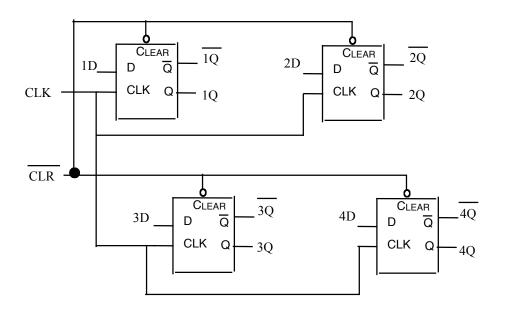


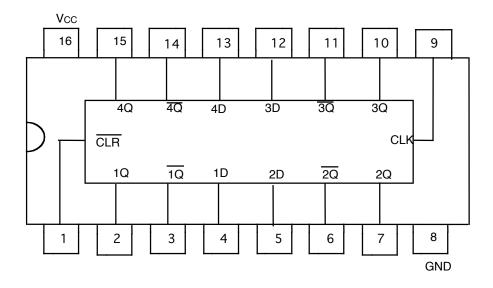
jon c muzio spring 2011

DM74175 quad D flip flop

LOGIC DIAGRAM

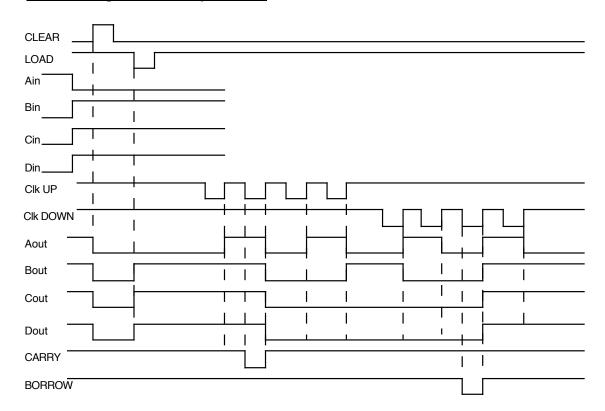
LOGIC DIAGRAM



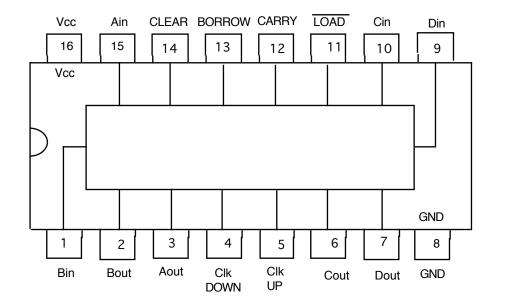


DM74193 up/down binary counter

LOGIC WAVEFORMS



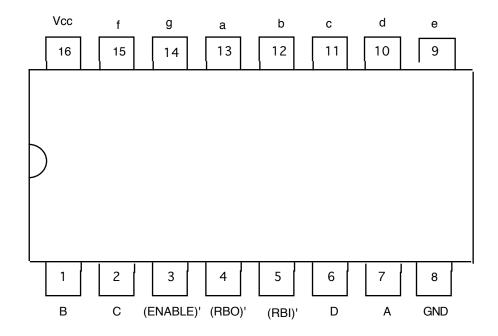
CONNECTION DIAGRAM



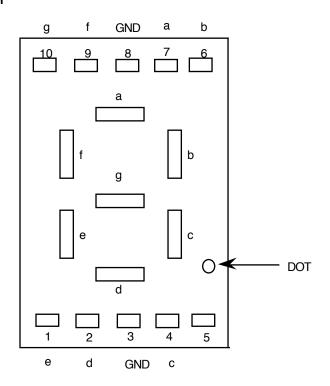
Notes - to count up, connect pin 4 to high and pin 5 to clock; to count down, connect pin 4 to clock and pin 5 to high. D is the most significant bit.

9368 7-Segment decoder driver

CONNECTION DIAGRAM



7-Segment display



jon c muzio spring 2011