Cascaded Decade Countens
to count 0-99

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BESE-II

Hardware Design Lab.

can count through 0-99.

The decade countens are designed in the previous assignment.

Logie for cascading:

The flipflops in the counters are

falling edge triggered.

When upcounting, the clock of input of the lind counter (10's place) should be ligh only when the list counter (1's place) gives an output of a (1001 in binary). So that when I's place changes to 0, the 10's place is incremented.

when down counting insted of output

O from the list counters.

let A be tigh when I's place is I and B be high when I's place is O. If I is the control imput, for a trich the counter toggles between execunding (=0) and down counting (=1), then I

e 100 61 11 10 EA+ CB = clock of 10's place

