## Problem HH8.30

The figure below shows the state diagram for a vending machine that dispenses a drink when at least 25 cents are deposited. Acceptable coins are the usual 5 cents or nickel (n), 10 c or dime (d) and 25 cents or quarter (q). The transition nc indicates that no coin was deposited. Verify that all possible combinations of coin deposits are covered by the rules.


