CSC244

Preliminary Report

Project 1

FSM Vending Machine

Written by: Neil Rolf, Mehul Deep Lab Section: 02 (Neil), ?? (Mehul)

Instructor: James Gallipeau Date: 10/04/2022

**Inputs & Outputs**

Inputs: clock, $0.25, $0.50, $1.00, asynchronous reset

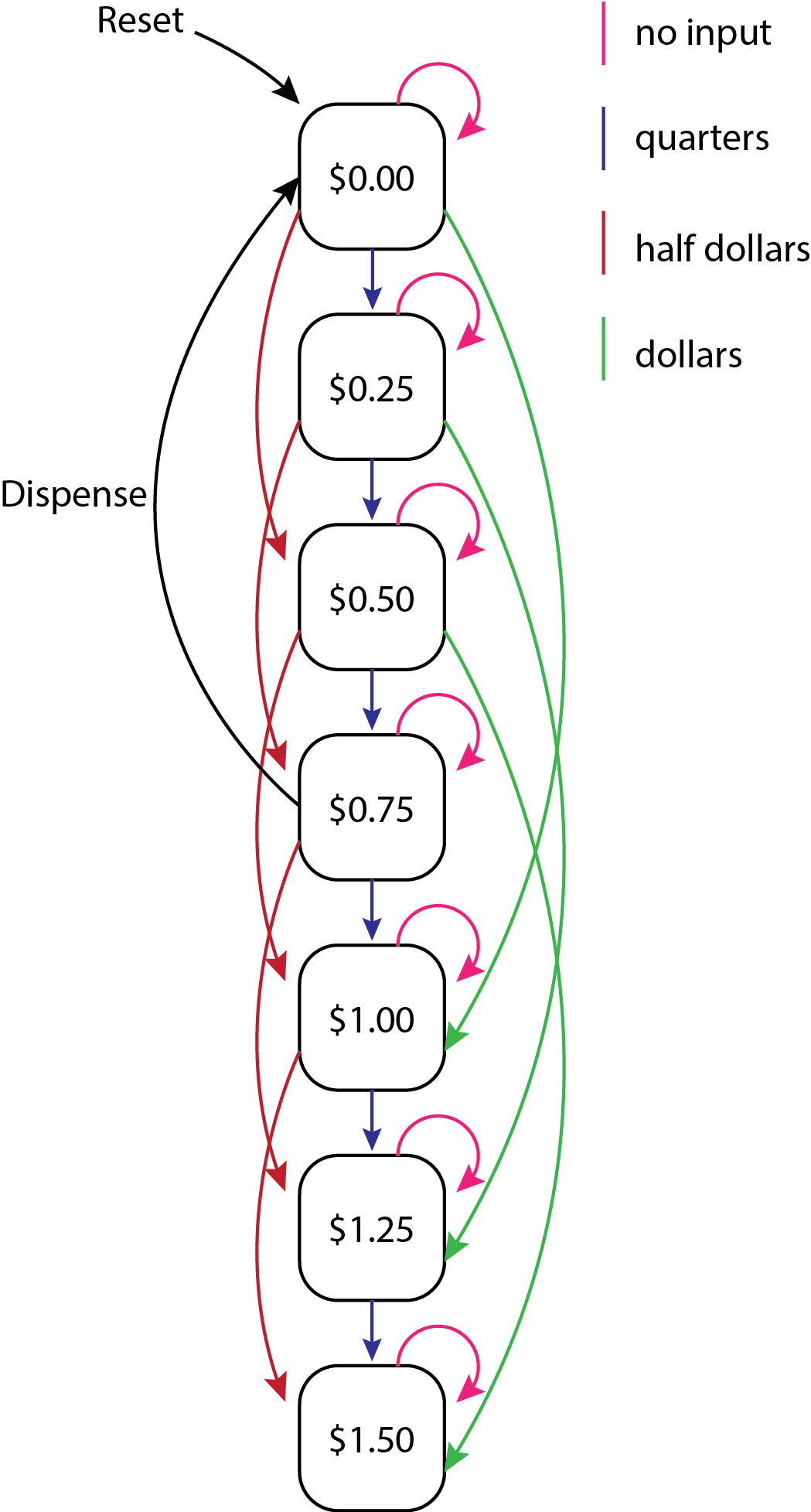
Outputs: MacGuffin, change in quarters, change in half-dollars, 7-segment display (inserted money), 7-segment display (change due)

**Assumptions**

Coins will be inserted one at a time.

**Required States (number of flip-flops)**

**State transition diagram**



**State transition/output table**

**Required System Verilog Modules (with inputs/outputs)**