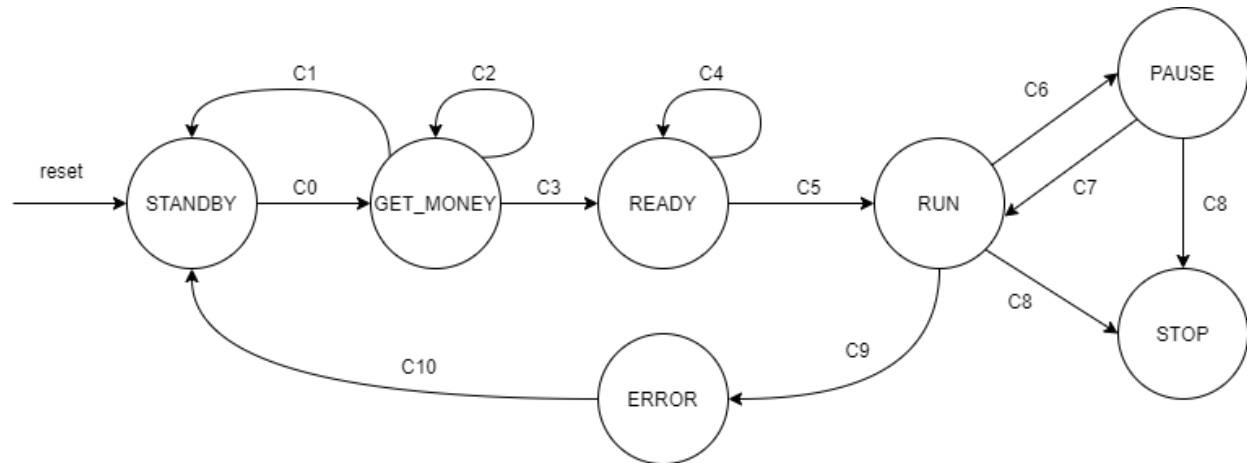


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Homework 4 Report

-State machine for washing machine:



-State determination:

STANDBY:

- + RLED is on
- + money_received = 0
- + waiting for inserting money

GET_MONEY:

- + only accept 10-cent, 20-cent, 50-cent coins
- + money_received += amount in

READY:

- + RLED is off, BLED is on(not blinking)
- + Timer is set to 30 minutes
- + When RUN button pressed, money_received = 0 (no returning any redudancies)

RUN:

- + BLED is blinking
- + Timer countdowns to 0

PAUSE:

- + BLED is on (not blinking)
- + Timer still countdowns to 0

STOP:

- + Stop machine
- + Stop timer

ERROR:

- + BLED is off, RLED is on and blinking

-State transition condition:

C0: inserting 10-cent, 20-cent, 50-cent coins

C1: button RESET pressed

C2: inserting 10-cent, 20-cent, 50-cent coins

C3: money_received \geq 50 cents

C4: button RUN not pressed

C5: button RUN pressed

C6: button PAUSE pressed

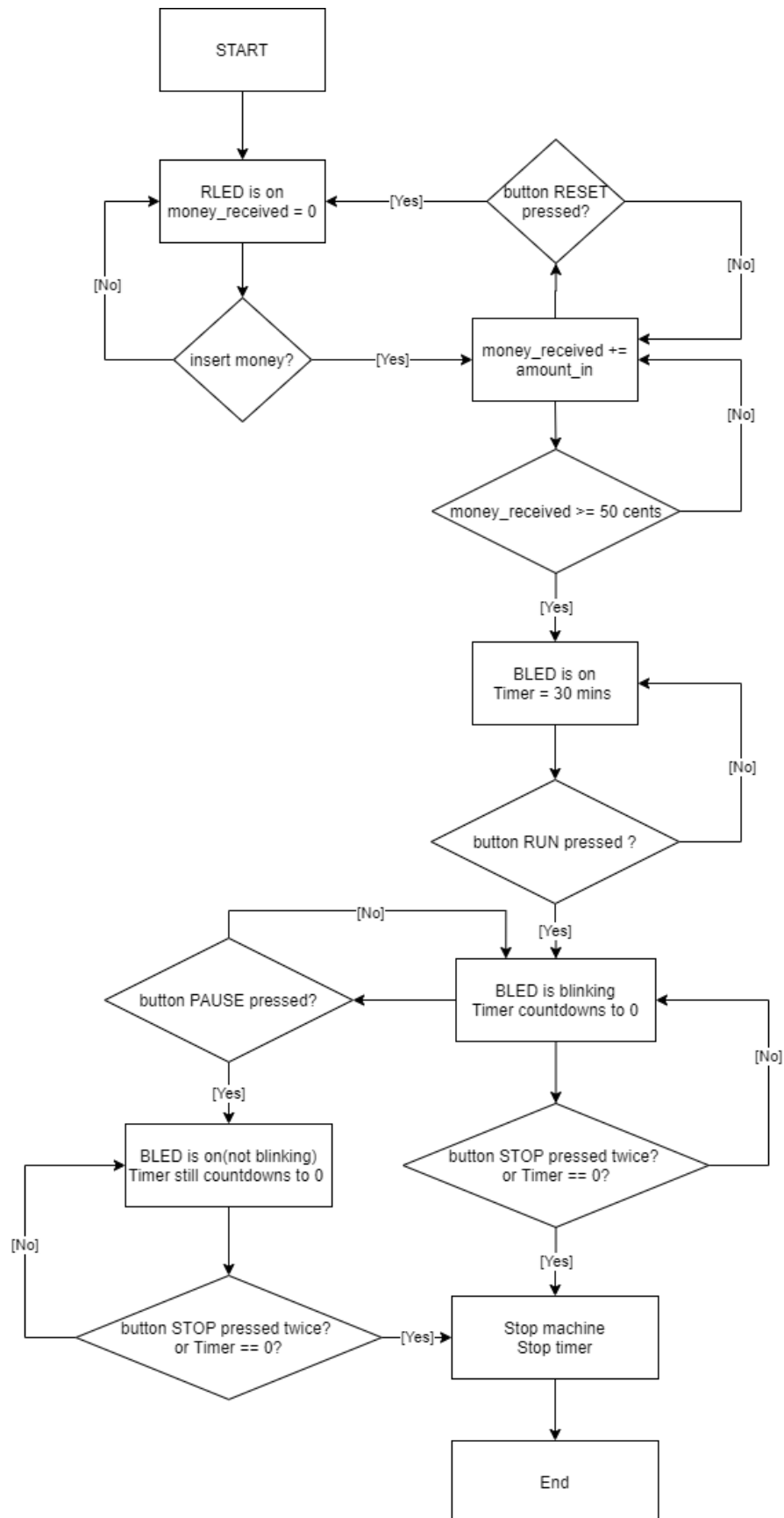
C7: button RUN pressed

C8: Timer == 0 or button STOP pressed twice

C9: errors occurred

C10: button RESET pressed

-Flow chart for washing machine:



-State machine for music player:

