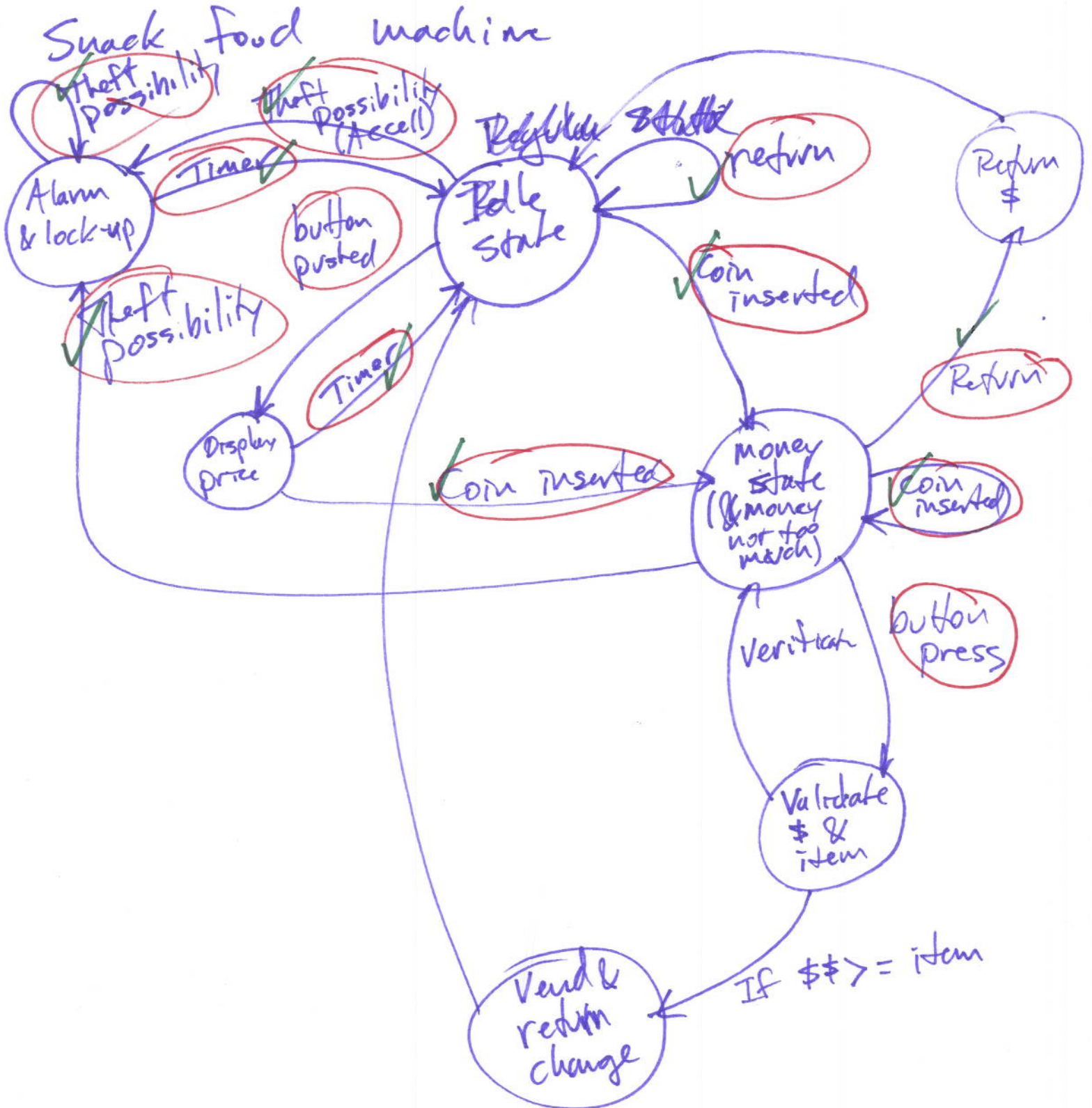


Interrupt Intro



```

theft_timer_ISR (void)
state = idle_state

```

②

```

display_timer_ISR (void)
state = idle_state

```

```

return_button_ISR (void)
if state == money_state
then state = return_money

```

```

coin_inserted_ISR (void)
if not a valid coin, return coin, return
state = money_state
save coin value in coin_inserted (variable)

```

```

theft_possibility_ISR (void)
state = alarm_lock_up
start_theft_timer

```

```

button_press_ISR (void)
if state == idle state
state = display_state
elseif state == money_state
state = verification_state
save button press in button_value (variable)

```

```
while (1) {
```

```
  switch (state)
```

```
    idle_state: idle_state_function
```

```
    display_state: display_state_function
```

```
    alarm_state: alarm_lockup_function
```

```
    return_money: return_money_function
```

```
    money_state:
```

```
    validate_item:
```

```
    vend_and_return:
```

```
  end switch
```

```
}
```

```
return_money_function(void) {
```

```
  return amount of money in
```

```
  money_count  
  (variable)
```

```
  money_count = 0
```

```
  coin_inserted = 0
```

```
  button_value = 0
```

```
  state = idle_state
```

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LECTURE 19

alarm_lockup - ~~function~~ (void)

(4)

lock drawer, dispenser, coins
sound alarm
activate taser

display_price_function

display price of item (button_value)