```
if (serviceValue >= `VALUE_NTD_1) begin
  if (countNTD_1 == 3'd0) begin
    serviceValue_w = inputValue;
    itemTypeOut_w = `ITEM_NONE;
    serviceCoinType_w = `NTD_50;
    countNTD_50_w = countNTD_50 + coinOutNTD_50;
    countNTD_10_w = countNTD_10 + coinOutNTD_10;
    countNTD_5_w = countNTD_5 + coinOutNTD_5;
    countNTD_1_w = countNTD_1 + coinOutNTD_1;
    coinOutNTD_50_w = 3'd0;
    coinOutNTD_10_w = 3'd0;
    coinOutNTD_1_w = 3'd0;
    coinOutNTD_1_w = 3'd0;
    serviceTypeOut_w = `SERVICE_BUSY;
    end else begin
    coinOutNTD_1_w = coinOutNTD_1 + 3'd1;
    countNTD_1_w = countNTD_1 - 3'd1;
    serviceValue_w = serviceValue - `VALUE_NTD_1;
    end
end else begin // exchangeable
    serviceTypeOut_w = `SERVICE_OFF;
end
```

當販賣機的零錢不足以至於交易失敗時,程式會執行到 if (countNTD_1 == 3'd0) begin 這個迴圈。 理論上應該要讓 coinOutNTD_w(50,10,5,1)全部歸零,接著把原先的 inputValue 當成 serviceValue,然後重新計算要退多少錢。但是原先迴圈最後卻是跳到 SERVICE_OFF State,這樣變成直接輸出結果,當然會產生 bug。如果要重新計算的話,迴圈最後要跳到 SERVICE_BUSY State 才對,這樣才會重新計算找零。因此調整迴圈內的 serviceTypeOut_w 為 SERVICE_BUSY 後即可解決此 bug。