



終極密碼

106 數位系統導論實驗 專題 16組

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INTRODUCTION 1

INFORMATION

- 題目：終極密碼



FLOW

- Step 0：按下reset鈕，重置遊戲
- Step 1：使用switch決定要猜的數字
 - 用SW0 - SW6輸入二進位數字
- Step 2：使用SW0確認，要猜的數字
- Step 3：若猜錯回到Step1，猜對則回到Step0

BASIC FUNCTION

RESET

- 任何狀態下都能將遊戲重來



SEVEN SEGMENT

- 開始時顯示範圍0-99，可猜測數字範圍01-98
- 顯示方式如下圖



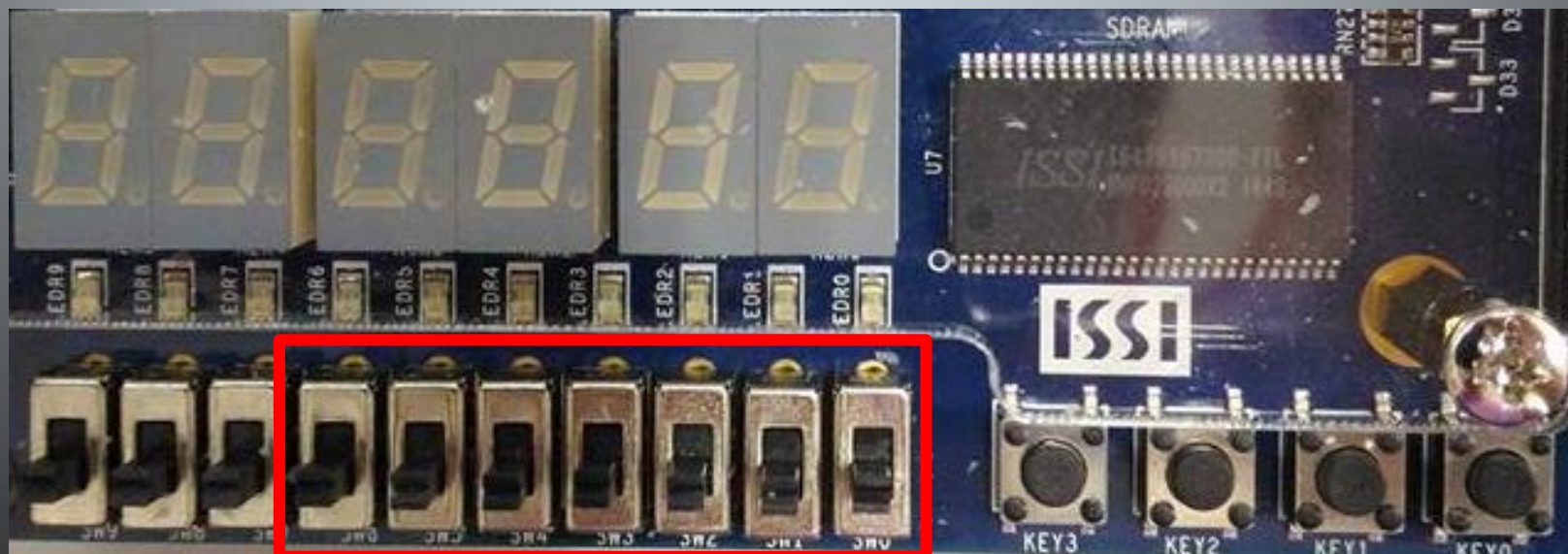
Lower Bound

Guess Number

Upper Bound

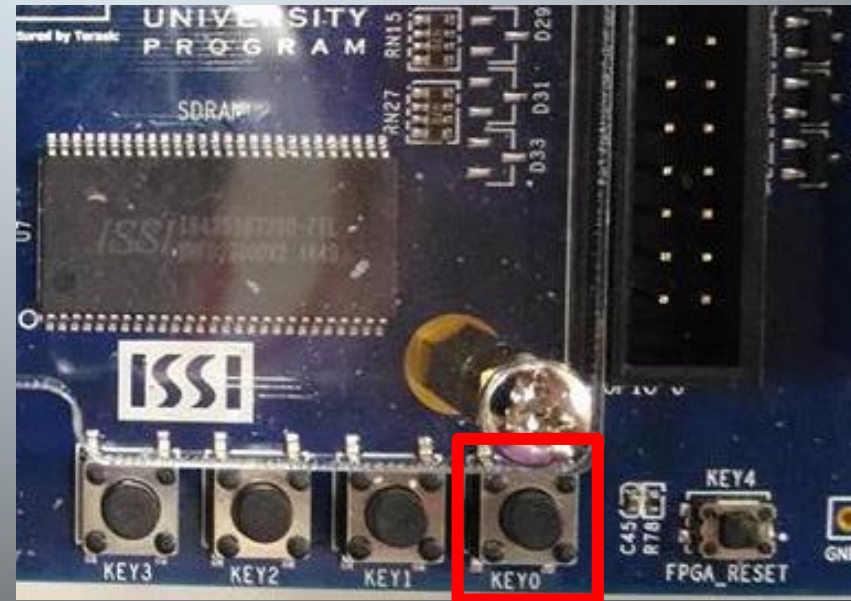
SWITCH

- 撥SWITCH確認輸入二進位數字



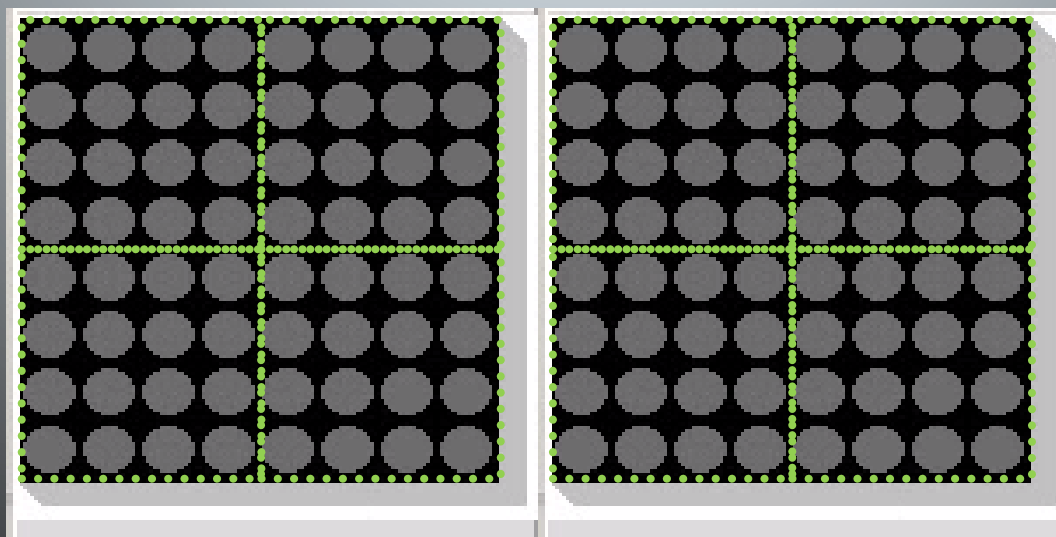
KEY BUTTONS

- 按KEY0確認輸入的數字



DOT MATRIX

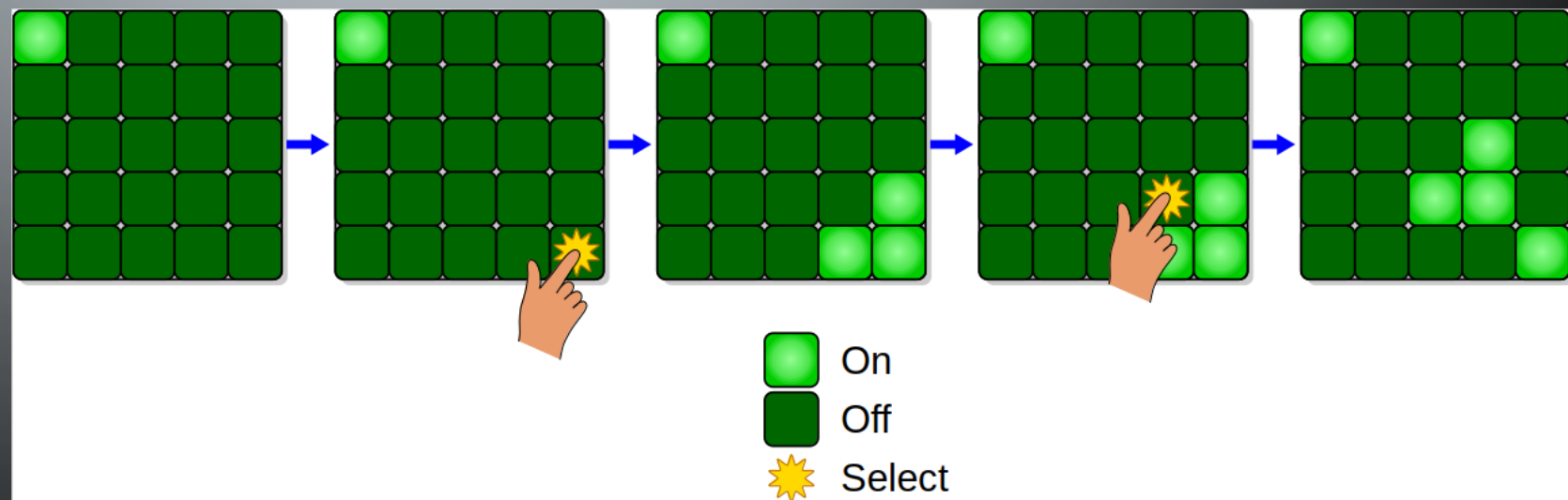
- 猜對數字後，顯示通關訊息



INTRODUCTION 2

INFORMATION

- 題目：light out



FLOW

- Step 1 : Use button to move x,y to selection
- Step 2 : Use button to turn on/off the lights
- Step 3 : If all the light are turn on then game end,
- else repeat step 1,2

BASIC FUNCTION

SEVEN SEGMENT

- 開始時顯示範圍0, when pressed check button the number of tries +1
- 顯示方式如下圖



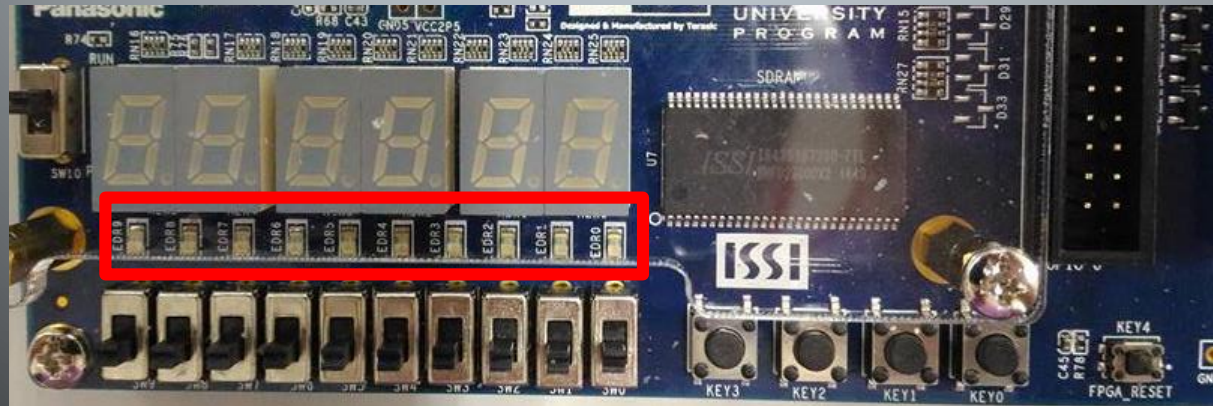
Number of tries

MONITOR

- The light will show on monitor as a 4×4 matrix
- Turn on all the light means game end

LED LIGHT

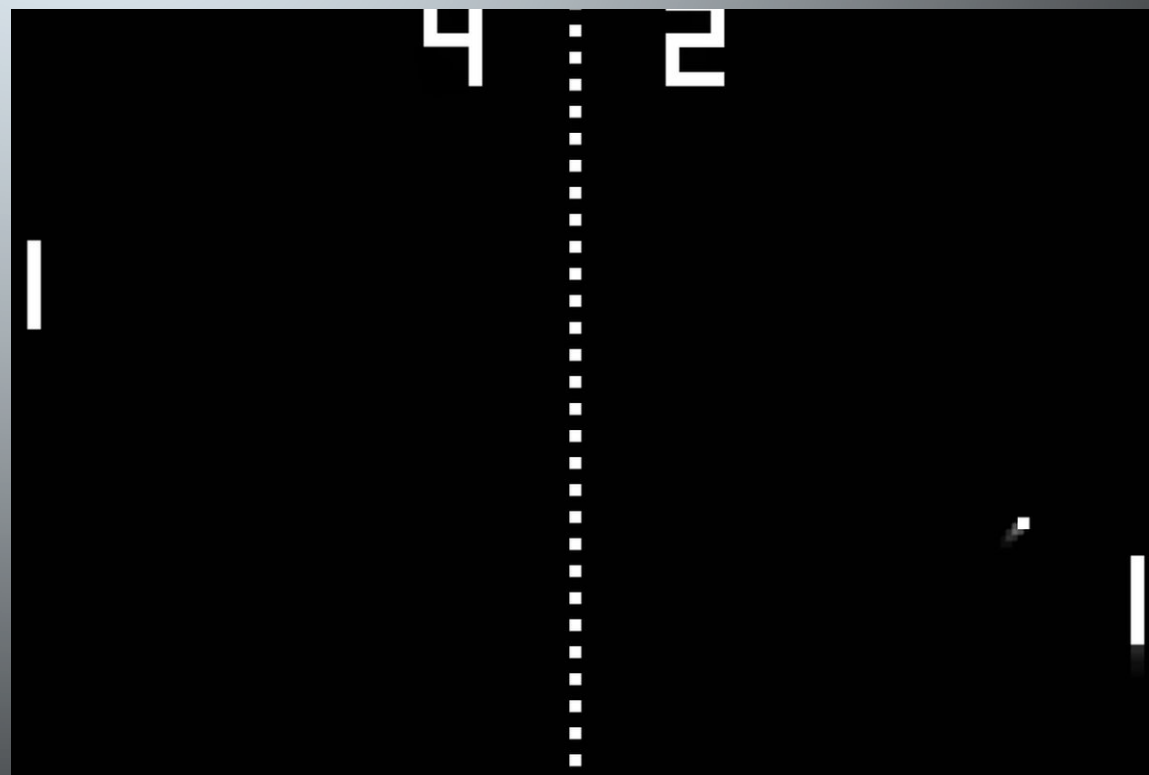
- When all lights are turn on, led light will show up to notify you finish



INTRODUCTION 3

INFORMATION

- 題目：ping pong



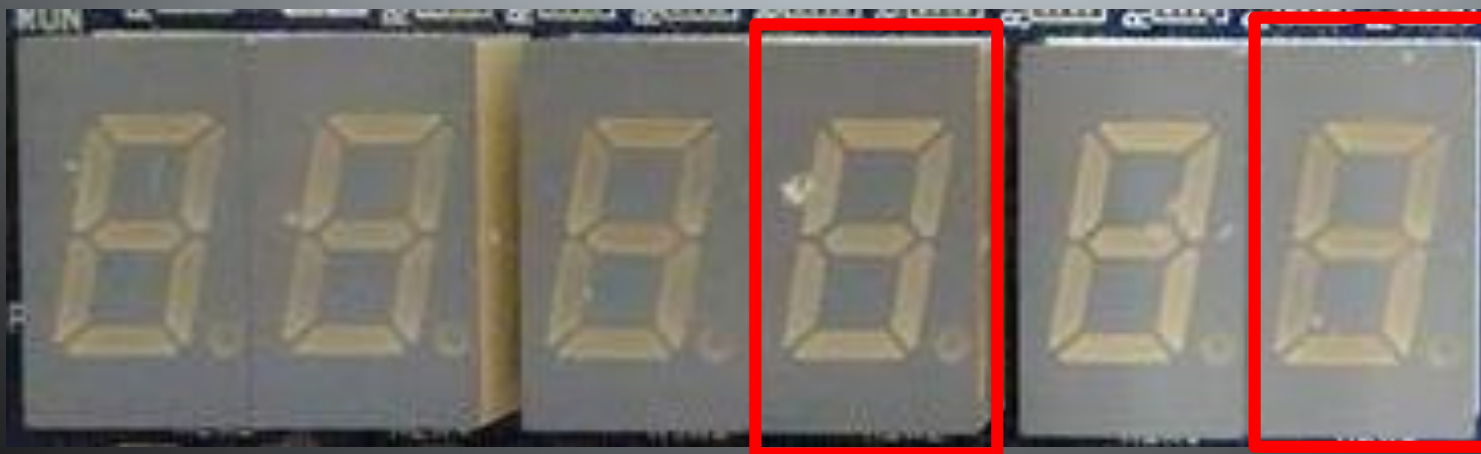
FLOW

- Step 1 : Use button to p1,p2 board(this game is 2 players!)
- Setp2: If ball fall out of the range then player get point
- Repeat 1 and 2 till one of the player got 3 points

BASIC FUNCTION

SEVEN SEGMENT

- 開始時顯示o-o, when player got point, point _+1
- 顯示方式如下圖



P1 point

P2 point

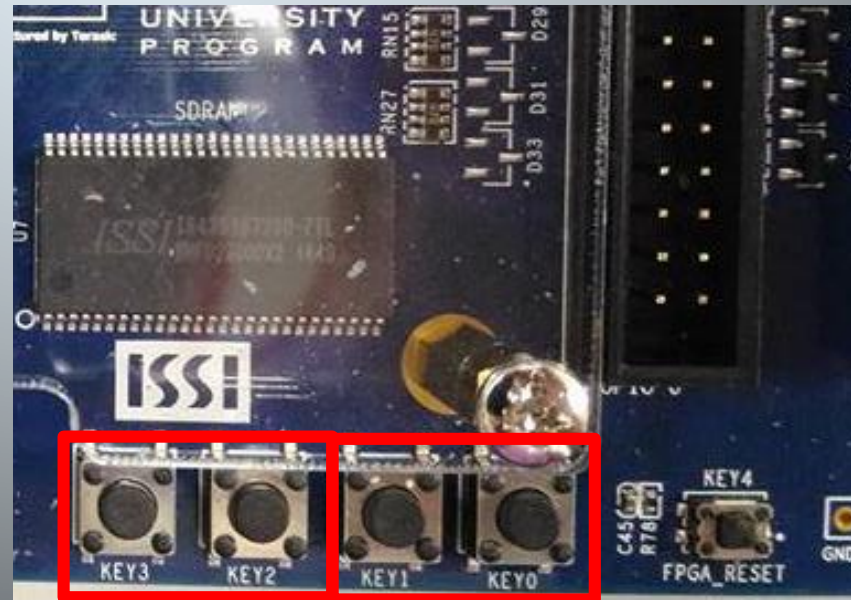
MONITOR

- Monitor will show 2 board and 1 ball on screen
- Players need to use board to bounce ball back to defend

KEY BUTTONS

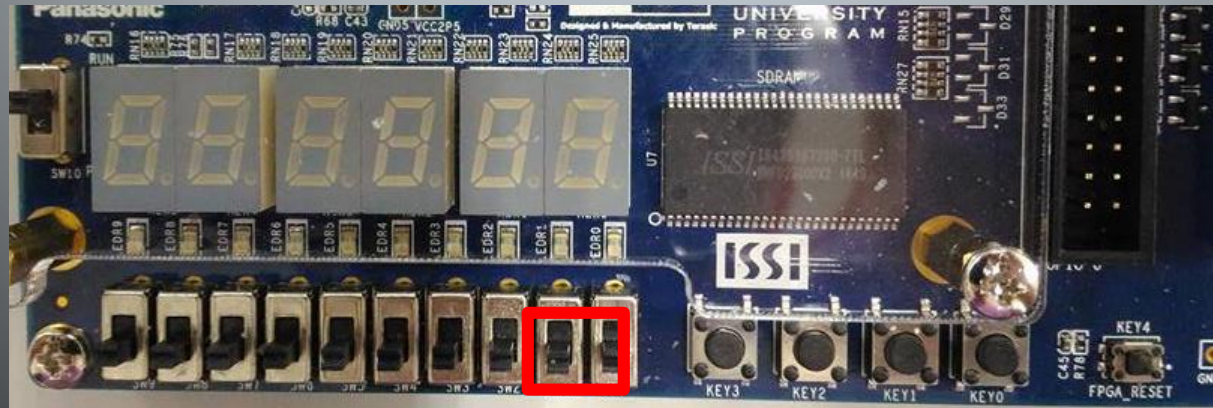
Press key 0,1 to move p1

Press key 2,3 to move p2



SWITCH

- Can use switch to change game's difficulty,
- When switch are on, the board will shrink as time passes



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