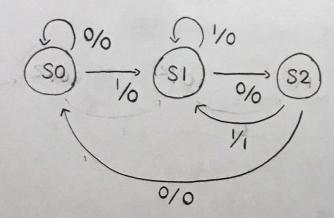
1. Speed: SRAM > DRAM > flash

Price : SRAM > DRAM > flash

- 2. OD DRAM 需要 refresh 是因為 DRAM 由電容器組成, 而電容器上的電荷會隨時間及溫度消失, 所以要定期 refresh, 以確保 DRAM 上所存的值不會被改變。
 - ② nonvolatile 不具揮發性, 當電源斷掉時, 記憶体會繼續 存著值。

3.



4.	×	у	Q	Q [†]	CS
	0	0	0	D	0 0
	0	0	1	1	0 1
	0	1	0	1	0 1
	0	1	1	0	100
	1	0	0	1	0 1
	1	0	1	0	10
	1	1	0	0	10
	1	11	1	0	11

(0.070 0.071)	
(0,0)/0, (0,1)/	11, (1,0)/1
(III)/0 CO	1) 2 (0,0)/1
(0,1)/0,(1,0),	/0, (1.1)/1

```
6. DE CDDQDDAAA
```

7. always @ (posedge CLK) begin
if (rst) next_state = A;
else begin
case (state) begin

A = if (input == 0) output = 0, next_state = A;
else output = 0, next_state = B;

B: if (input == 0) output = 0. next-state = A; else output = 0, next-state = C;

C: if (input == 0) output = 0, next_state = D; else output = 0, next_state = C;

D = if (input == 0) output = 0, next-state = A; else output = 1, next-state = B;

endcase

end

end

CIK CIK Q SO

9. T F.F. :

O Synchronous =

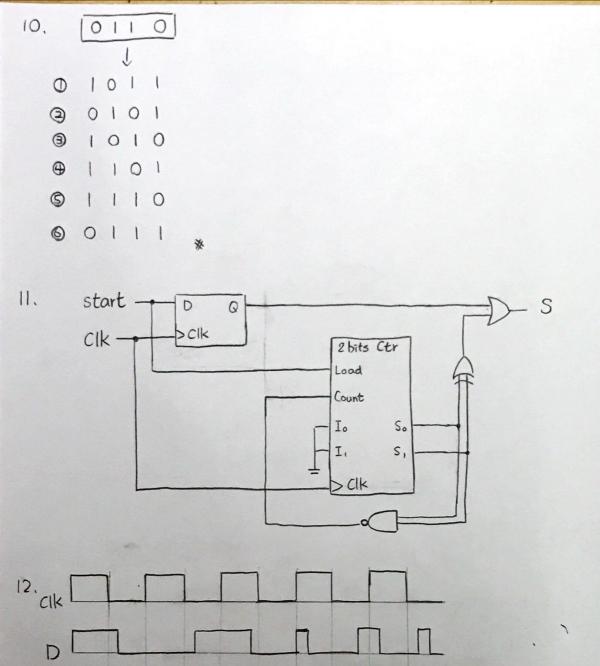
always @ (posedge Clk) begin
if (rst) Q <= 0;
else Q <= ~T;

end

@ Asynchronous =

always @(posedge Clk, rst) begin
if (rst) Q (= 0;
else Q (= ~T;

end



B: -