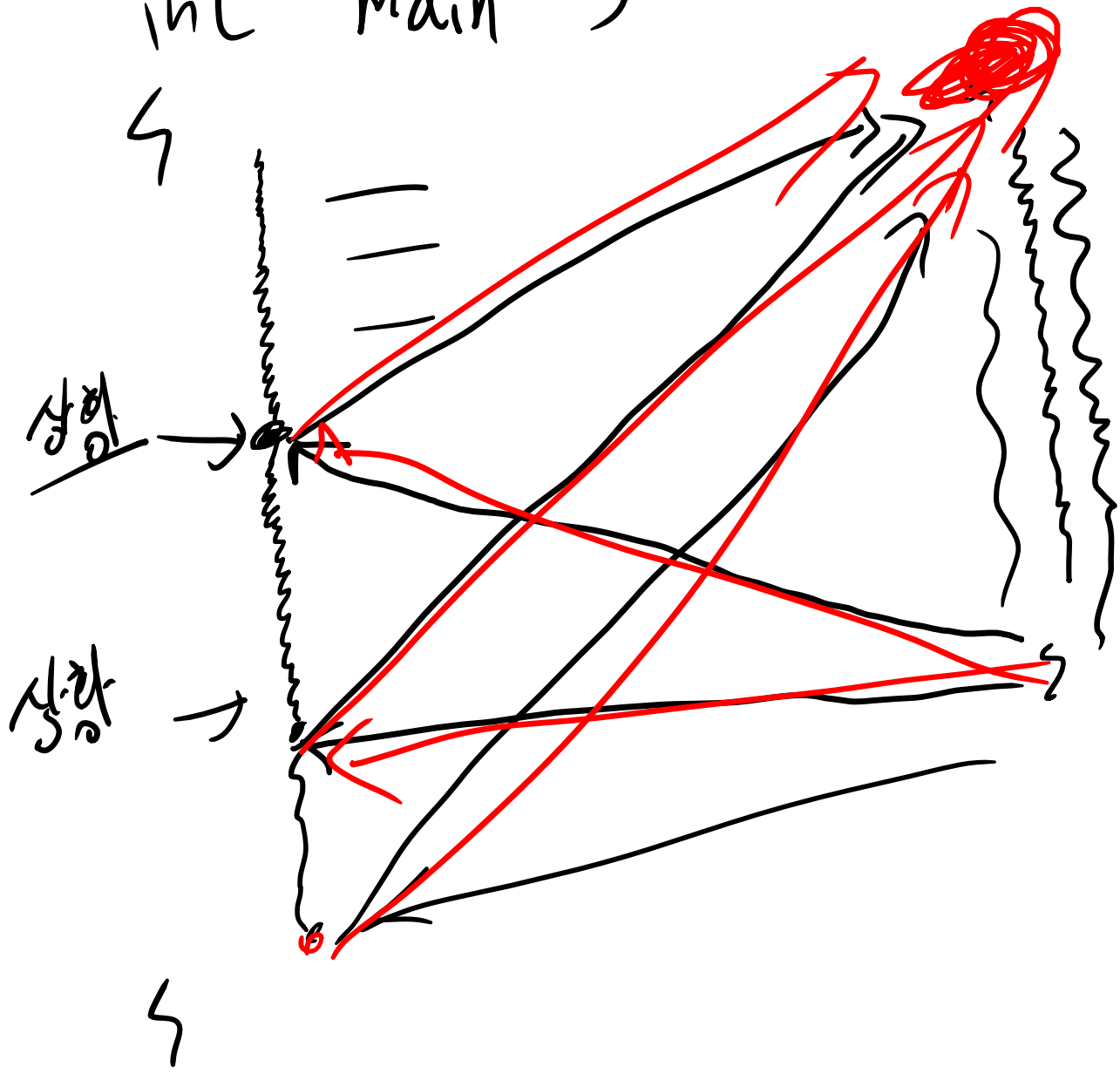


~~주기적으로~~ FND-dispnum ( ) 함수를  
수행하기 위해 하겠다.

⇒ Interrupt  
↓  
polling

int main ( )

ISRC )



Interrupt, 종류(?) 발생조건

①. Timer / Counter

② 외부 인터럽트

③ 내부 > | < | 다각

ATmega128A

MCU

$\rightarrow$   
0

4 EA

Timer/Counter

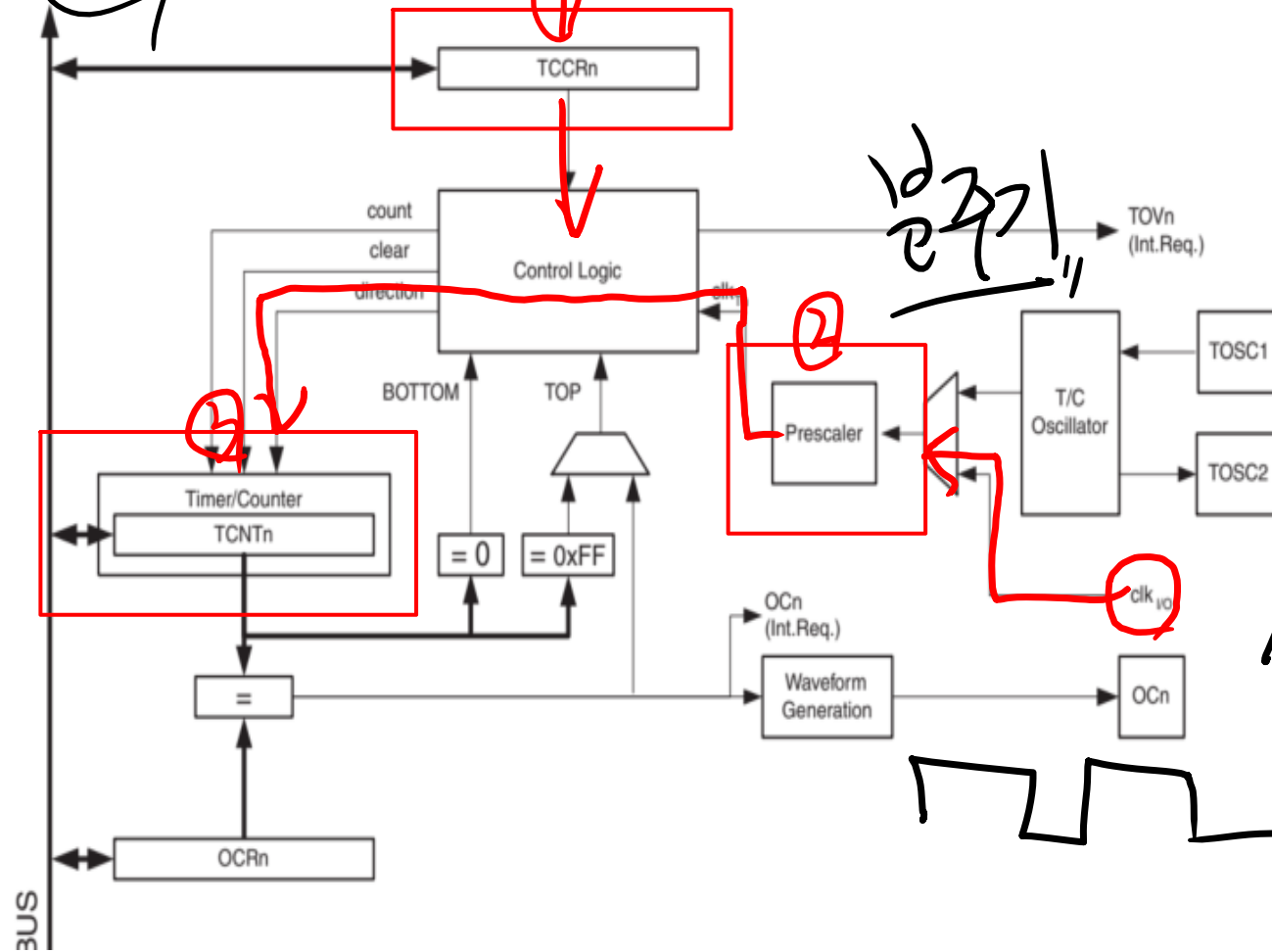
---

0, 1, 2, 3.

0, 2 : 8bit  
[ 1, 3 : 16bit

φ. 2 해람

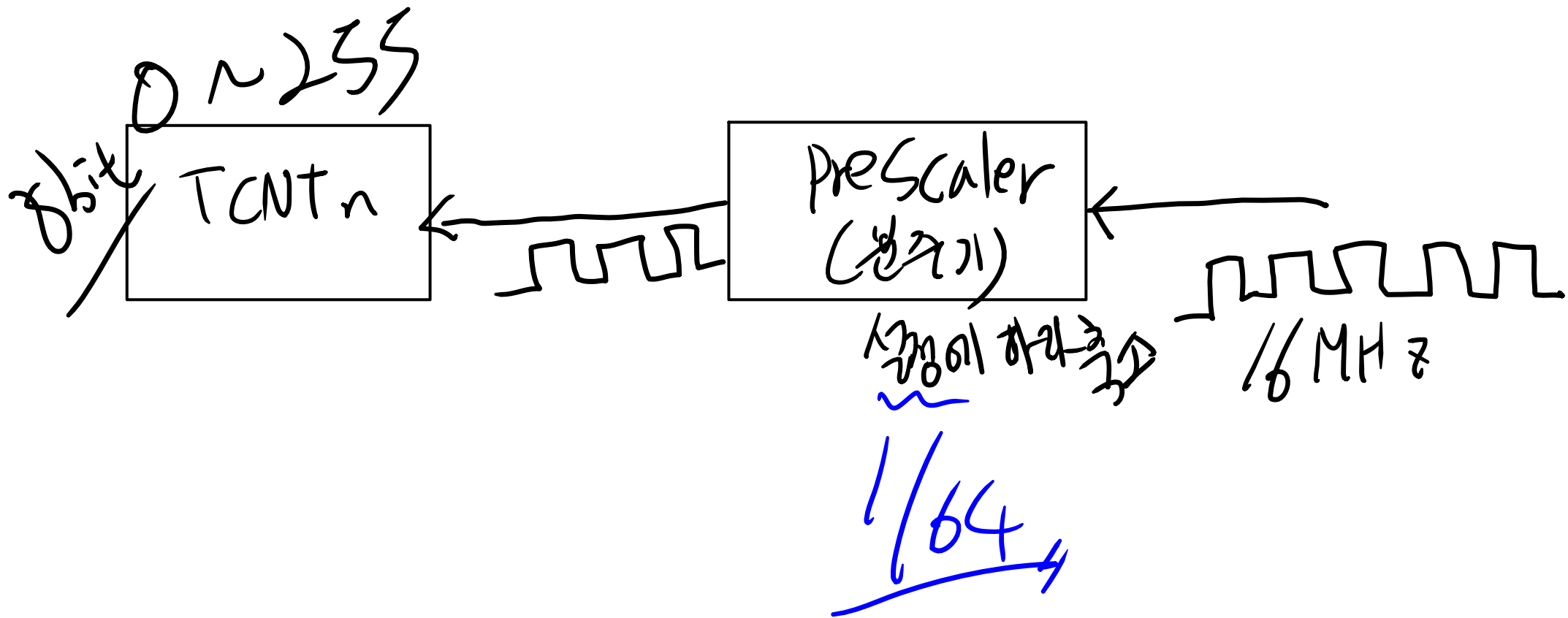
Figure 34. 8-bit Timer/Counter Block Diagram



보내기

1/6MHz





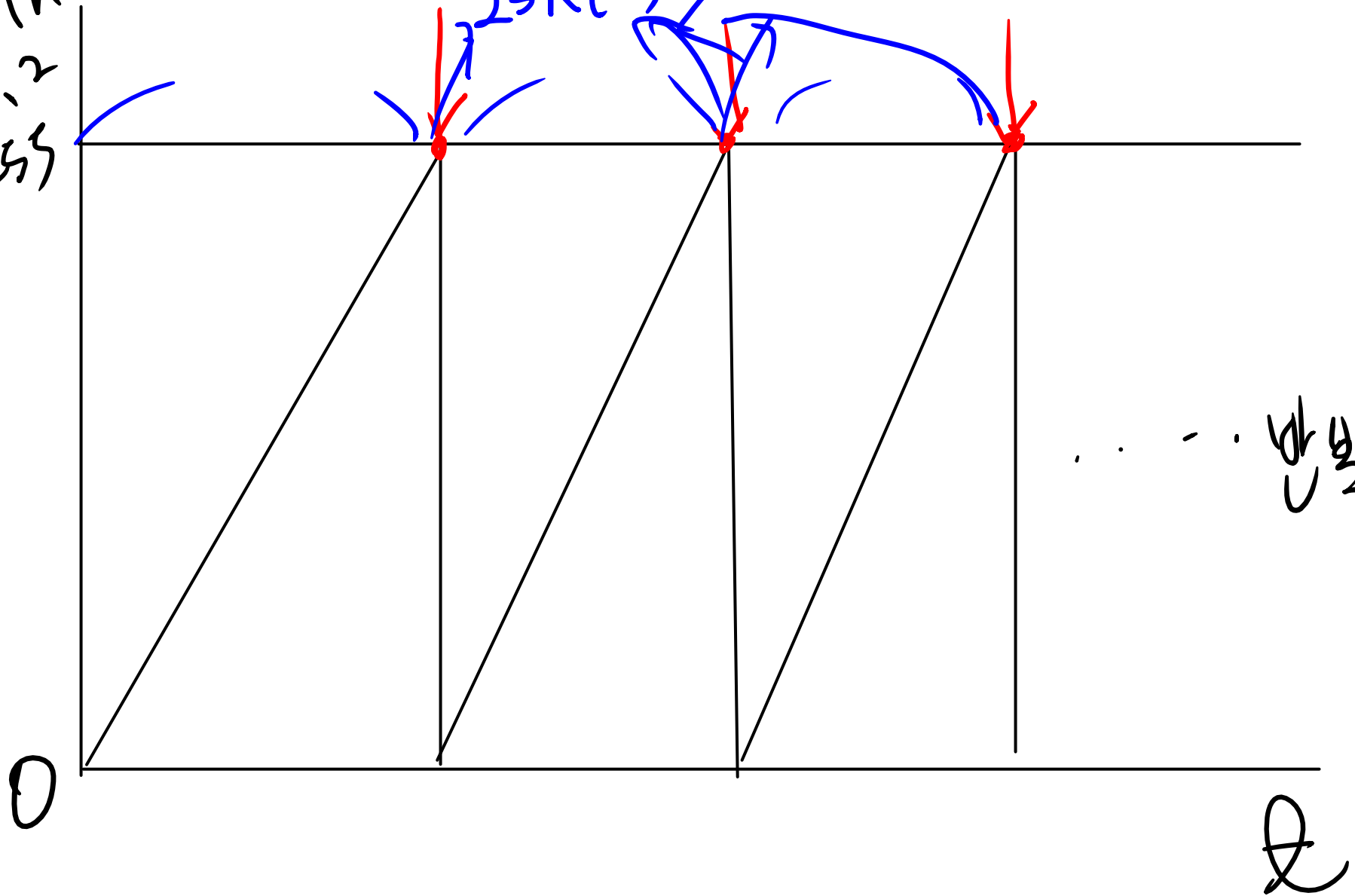
Interrupt 발생 주기는?

1.024 ms



Interrupt 발생 overflow가 전

TWTn  
n=0.2  
255



## Timer/Counter Control Register – TCCR0

Bit	7	6	5	4	3	2	1	0	
	FOC0	WGM00	COM01	COM00	WGM01	CS02	CS01	CS00	TCCR0
Read/Write	W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
Initial Value	0	0	0	0	0	0	0	0	

56.

**Table 56.** Clock Select Bit Description

CS02	CS01	CS00	Description
0	0	0	No clock source (Timer/Counter stopped)
0	0	1	$\text{clk}_{T0S}/(\text{No prescaling})$
0	1	0	$\text{clk}_{T0S}/8$ (From prescaler)
0	1	1	$\text{clk}_{T0S}/32$ (From prescaler)
1	0	0	$\text{clk}_{T0S}/64$ (From prescaler)
1	0	1	$\text{clk}_{T0S}/128$ (From prescaler)
1	1	0	$\text{clk}_{T0S}/256$ (From prescaler)
1	1	1	$\text{clk}_{T0S}/1024$ (From prescaler)



Timer/Counter N을 사용하고자 한다면  
조건: overflow Interrupt

① preScaler 설정

② Time/Counter Enable 설정 (TIMSK)

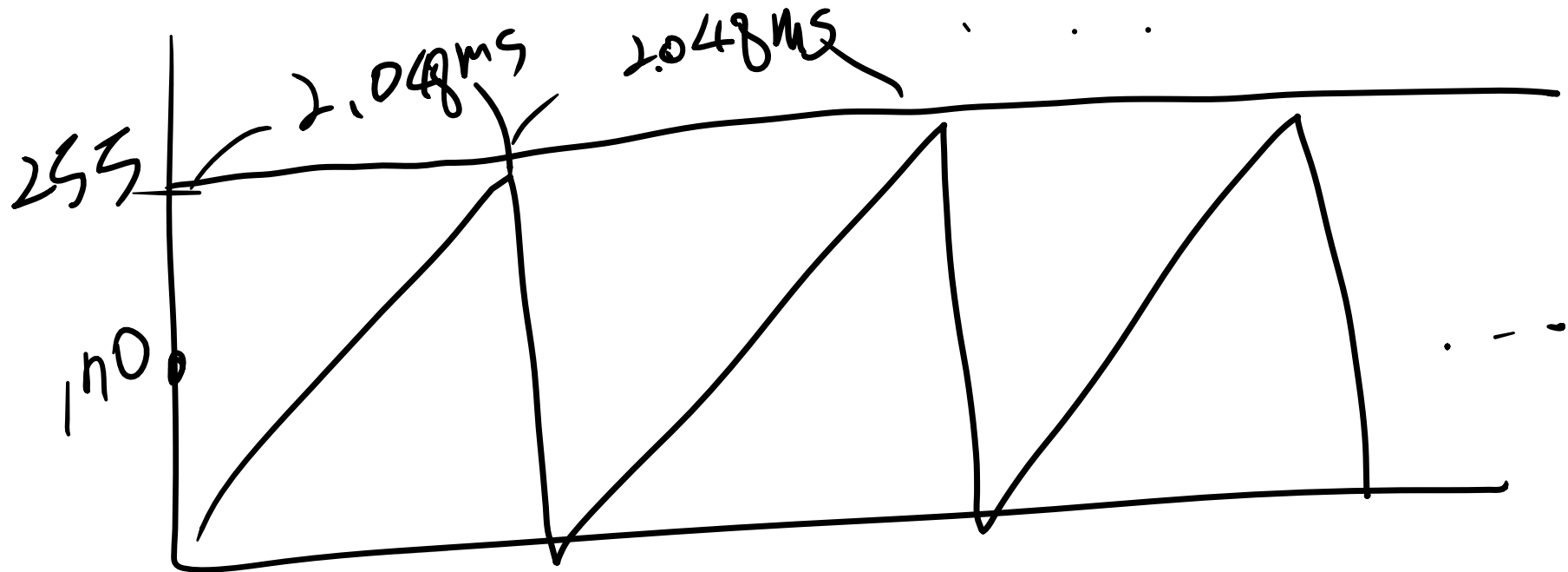
③ Global Interrupt Enable 설정

④ ISR ( )

Interrupt 주기 계산

누가 정확히 1ms 마다 Interrupt를 발생

조건: prescaler  $/128$



main. C

Counter = 5123;

find\_set findData(counter)

FND. C

findData



up Counter  
0000 ~ 9999

0000 ~ 9999

