### 丑 1

Table for Problem 8-26

Relation	Condition of Status Bit			
A > B	C = 1 and $Z = 0C = 1C = 0$			
$A \geq B$	C=1			
A < B	C=0			
$A \leq B$	C=0 or $Z=1$			
A = B $A \neq B$	Z = 1 $Z = 0$			

Unsigned 숫자를 비교

ow occurs.) Show that the relative magnitude of *A* I from inspection of the status bits as specified below

Table for Problem 8-27

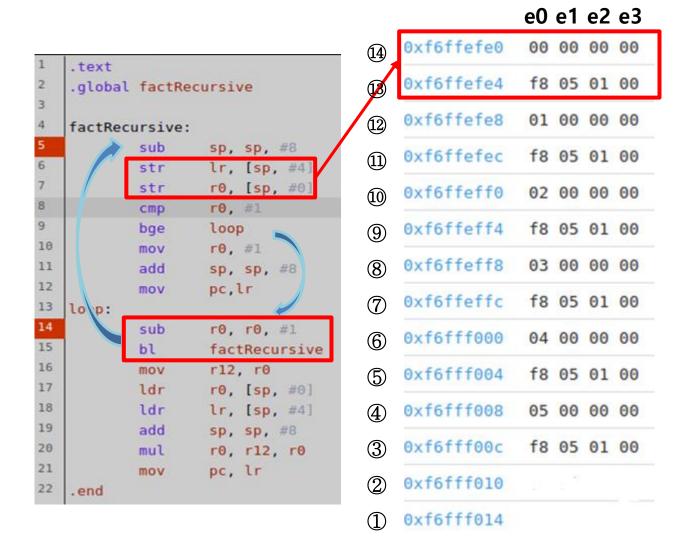
Relation	Condition of Status Bits		
A > B	$(S \oplus V) = 0$ and $Z = 0$		
$A \geq B$	$(S \oplus V) = 0$		
A < B	$(S \oplus V) = 1$		
$A \leq B$	$(S \oplus V) = 1$ or $Z = 1$		
A = B	Z = 1		
$A \neq B$	Z = 0		

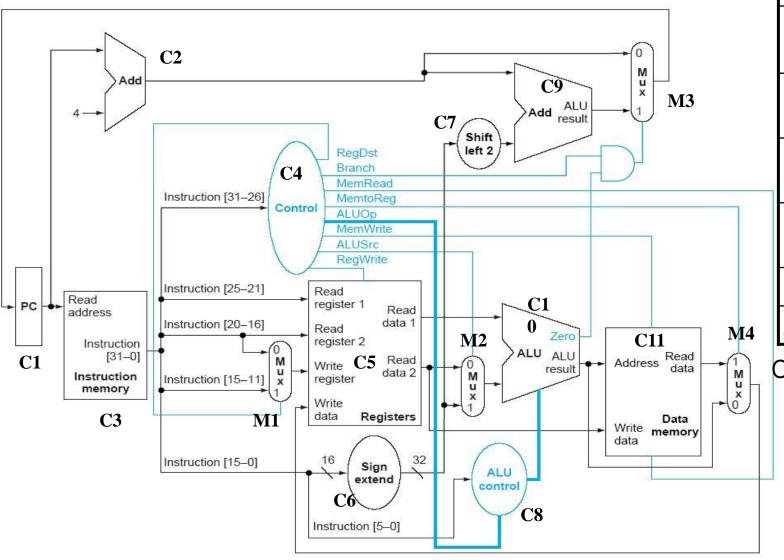
signed 숫자를 비교

#### 丑 2

값	의미	값	의미	
0	EQ (EQual)	8	HI (unsigned HIgher)	
1	NE (Not Equal)	9	LS (unsigned Lowe or Same)	
2	HS (unsigned Higher or Same)	10	GE (signed Greater than or Equal)	
3	LO (unsigned LOwer)	11	LT (signed Less Than)	
4	MI (Minus, <0)	12	GT (signed Greater Than)	
5	PL (PLus, >=0)	13	LE (signed Less Than or Equal)	
6	VS (oVerflow Set, overflow)	14	AL (ALways)	
7	VC (oVerflow Clear, no overflow)	15	NV (reserved)	

```
#include <stdio.h>
   extern int factorial(int num);
   extern int factRecursive(int num);
   int main(void){
                                              0x10610 pusht{r11, lr}
                                              0x10614 addtr11, sp, #4
                                              0x10618 subtsp, sp, #8
           int facnum = 6;
                                              0x1061c movtr3, #6
                                              0x10620 strtr3, [r11, #-12]
           int result = 0:
                                              0x10624 movtr3, #0
                                              0x10628 strtr3, [r11, #-8]
10
11
           printf("Before: %d\n", result);
                                              0x1062c ldrtr1, [r11, #-8]
                                              0x10630 ldrtr0, [pc, #40]t; 0x10666
                                              0x10634 blt0x16ee0 <printf>
12
            result = factRecursive(facnum); > 0x10638 ldrtr0, [r11, #-12]
                                              0x1063c blt0x105d0 <factRecursive>
                                              0x10640 strtr0, [r11, #-8]
14
15
           printf("After: %d\n", result);
                                              0x10644 ldrtr1, [r11, #-8]
                                              0x10648 ldrtr0, [pc, #20]t; 0x10664
                                              0x1064c blt0x16ee0 <printf>
16
17
            return Θ;
                                              0x10650 movtr3, #0
```





RegDst(M1) ALUSrc(M2) MemtoReg (M4)RegWrite MemRead MemWrite Branch **ALUOp** 

Control signal 표

R-type	0	rs	rt	rd	shamt	funct
	31:26	25:21	20:16	15:11	10:6	5:0
Load/ Store	35 or 43	rs	rt	address		
	31:26	25:21	20:16		15:0	
Branch	4	rs	rt	address		
	31:26	25:21	20:16		15:0	