Jump Explore

eax	ebx	ecx	edx
0x01234567	0x89ABCDEF	0xFEDCBA98	0x76543210

Based on the given contents of the registers, evaluate whether each code block would trigger a jump. Put a check next to each block that *would* jump.

	Code	Jump?
1	`cmpl    %eax, %eax` `jmp     L2`	
2	`cmpl    $0x01234567, %eax` `je      L2`	
3	`cmpl    $0x01234567, %eax` `jne     L2`	
4	`cmpl    %eax, %ebx` `jg      L2`	
5	`cmpl    %edx, %eax` `jle     L2`	
6	`cmpl    %ebx, %eax` `jb      L2`	
7	`testl %eax, %eax` `jns     L2`	
8	`testl $0xFFFFFFFF, %eax` `jz      L2`	
9	`testb $1, %cl` `jnz     L2`	

Jump Instructions

Instruction	Synonym	Condition	Description
`jmp Label`		Unconditional	Direct jump
`jmp *Operand`		Unconditional	Indirect jump
`je   Label`	`jz`	ZF == 1	Equal / zero
`jne Label`	`jnz`	ZF == 0	Not equal / not zero
`js   Label`		SF == 1	Negative
`jns Label`		SF == 0	Nonnegative
`jg   Label`	`jnle`	(SF == OF) && (ZF == 0)	Greater (signed >)
`jge Label`	`jnl`	SF == OF	Greater or equal (signed >=)
`jl   Label`	`jnge`	SF != OF	Less (signed <)
`jle Label`	`jng`	(SF != OF) || (ZF == 1)	Less or equal (signed <=)
`ja   Label`	`jnbe`	(CF == 0) && (ZF == 0)	Above (unsigned >)
`jae Label`	`jnb`	CF == 0	Above or equal (unsigned >=)
`jb   Label`	`jnae`	CF == 1	Below (unsigned <)
`jbe Label`	`jna`	(CF == 1) || (ZF == 1)	Below or equal (unsigned <=)