Write a microcode fragment that computes the absolute value of the 32 bit two's compliment value in register 1.

cycle	*X*	*Y*	*Z*	*rwe*	*im en*	*im va*	*au en*	*-a/s*	*lu en*	*lf*	*su en*	*st*	*ld en*	*st en*	*r/-w*	*msel*	*description*
1	1	X	2	1	1	31	0	X	0	X	1	1	0	0	X	0	R2 ← R1 asf 31
2	1	2	1	1	0	X	0	X	1	6	0	X	0	0	X	0	R1 ← R1 xor R2
3	2	X	2	1	1	1	0	X	1	8	0	X	0	0	X	0	R2 ← R2 and 1
4	1	2	1	1	0	X	1	0	0	X	0	X	0	0	X	0	R1 ← R1 + R2