

Write a microcode fragment that computes the equation $R_1 = (3R_2 - 9R_3)/16$. Use only R1, R2, and R3 for the exercise.

<i>cycle</i>	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>rwe</i>	<i>im en</i>	<i>im va</i>	<i>au en</i>	<i>-a/s</i>	<i>lu en</i>	<i>lf</i>	<i>su en</i>	<i>st</i>	<i>ld en</i>	<i>st en</i>	<i>r/-w</i>	<i>m sel</i>	<i>description</i>
1	3	X	1	1	1	FFFD	0	X	0	X	1	1	0	0	X	0	R1 ← R3 ash -3
2	3	1	3	1	0	X	1	0	0	X	0	X	0	0	X	0	R3 ← R3 + R1
3	2	2	1	1	0	X	1	0	0	X	0	X	0	0	X	0	R1 ← R2 + R2
4	1	2	2	1	0	X	1	0	0	X	0	X	0	0	X	0	R2 ← R1 + R2
5	2	3	1	1	0	X	1	1	0	X	0	X	0	0	X	0	R1 ← R2 - R3
6	1	X	1	1	1	4	0	X	0	X	1	1	0	0	X	0	R1 ← R1 ash 4