

TEST 7

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The program below is a sequence of quadruples numbered 1-14. Quadruples 5-13 comprise a loop.

Show which quadruples can be hoisted (moved to the point between quadruples 4 and 5). Write Y or N in each empty cell below.

		<i>Can this quadruple be hoisted? (Y/N)</i>
	1: read(i)	
	2: v = 2	
	3: y = 3	
	4: inc = 9	
L O O P	5: x = v + 1	Y
	6: z = x * 2	N
	7: w = z * y	N
	8: y = 5	N
	9: z = 0	N
	10: min = 0	Y
	11: inc = 1	Y
	12: i = i - inc	N
	13: if (i > min) goto 5	
	14: write(y)	