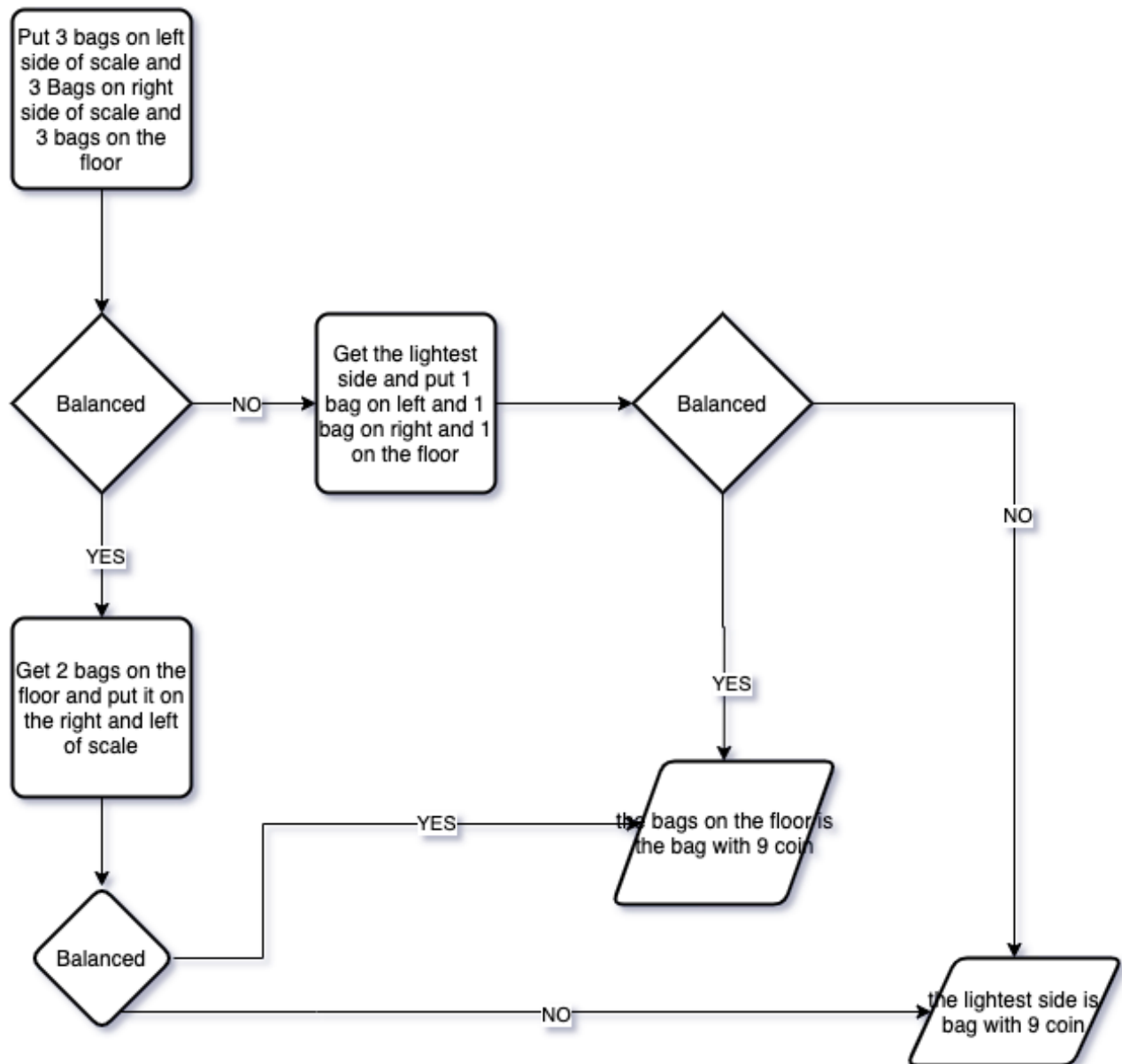


Logic Question

Quiz 1: Least amount of time to use the scale is **Two**

Explanation:



Quiz 2:

Step / Output	10 L	7 L	3 L
Initial value	10	0	0
Pour 10 L into 7L and 3L	0	7	3
Pour 3L into 10L	3	7	0
Pour 7L into 3L	3	4	3

Step / Output	10 L	7 L	3 L
Pour 3L into 10L	6	4	0
Pour 7L into 3L	6	1	3
Pour 3L into 10L	9	1	0
Pour 7L into 3L	9	0	1
Pour 10L into 7L	2	7	1
Pour 7L into 3L	2	5	3
Pour 3L into 10L	5	5	0

Quiz 3: Brother and Sister is **6 years old**

Explanation:

Brother stand for X, sister stand for Y

Hint 1: $2(x-2) = y + 2$

Hint 2: $3(x-3) = y + 3$

$$2x - 4 = y + 2$$

$$3x - 9 = y + 3$$

$$2x - y = 6$$

$$3x - y = 12$$

$$-x = -6$$

$$x = 6 \text{ // Brother age}$$

$$2(x - 2) = y + 2$$

$$8 = y + 2$$

$$y = 6 \text{ // Sister age}$$