

$$\text{Cup 1} = 0$$

$$\text{Cup 2} = 1$$

$$\text{Cup 3} = 0$$

$$\text{Cup 1} = 0 + 1 = 1$$

$$\text{Cup 2} = \text{Cup 1} - 1 = 1 - 1 = 0$$

$$\text{Cup 3} = \text{Cup 1} = 1$$

$$\text{Cup 1} = \text{Cup 1} * 0 = 1 * 0 = 0$$

$$\text{Cup 2} = \text{Cup 3} = 1$$

$$\text{Cup 3} = \text{Cup 1} = 0$$

$$\text{Cup 1} = \text{Cup 2} \times 1 = 1 \times 1 = 0$$

$$* \text{Cup 3} = \text{Cup 2} = 1$$

$$\text{Cup 2} = \text{Cup 3} - \text{Cup 3} = 1 - 1 = 0$$

Ans: So, 1 is in Cup 3

Winner