4.) 
$$u = 0$$

$$Q = [2]$$

$$v \in \{x_1, x_2\}$$

$$key = [1, 0, 2, 1, 1]$$

$$\Upsilon = [4, NULL, 3, 1, 3]$$

5.) 
$$u=2$$

$$Q = []$$

$$v \in \{3\}$$

$$key = [1, 0, 2, 1, 1]$$

$$M = [4, NULL, 3, 1, 3]$$



