

1.indicating path

Path #1 :

0 -> 1 -> 2 -> 2 -> 3
a a b b

Path #2 :

0 -> 0 -> 0 -> 0 -> 0
a a b b

Path #3 :

0 -> 0 -> 1 -> 1 -> 1
a a b b

Path #4 :

0 -> 1 -> 2 -> 2 -> 2
a a b b

Only the #1 path is valid path (accepted path)

2.

FSA that accepts binary with odd number of 1s.

