

## 获得的答案

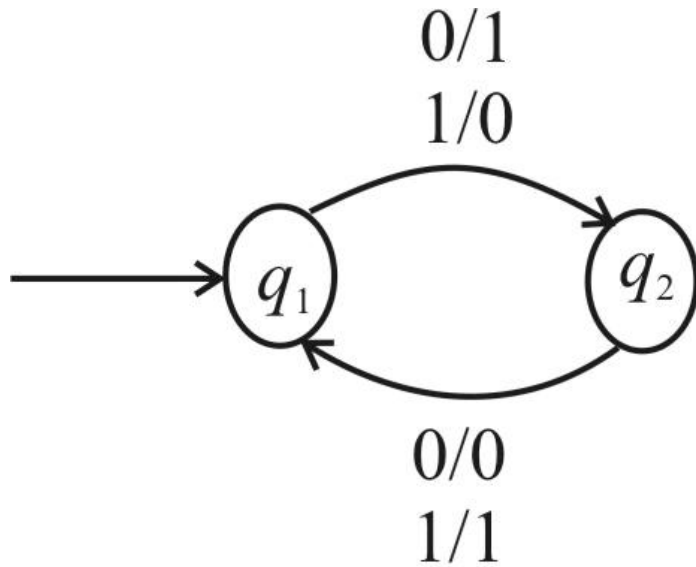
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Given input and output alphabets for FST are  $\{0,1\}$ .

FST has the following behavior

- Its output string is identical to the input string on the even positions.
- Its output string is inverted on the odd positions.

So the state diagram of that FST is given as follows:



So by this state diagram,

- In even positions output string is same as input string

i.e. for input **0** → output is also 0

for input **1** → output is also 1

- In odd positions, out string is inverted

i.e. for input **0** → output is 1

for input **1** → output is 0.