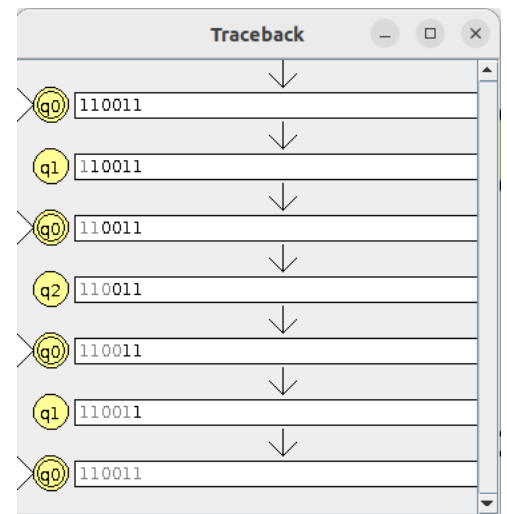
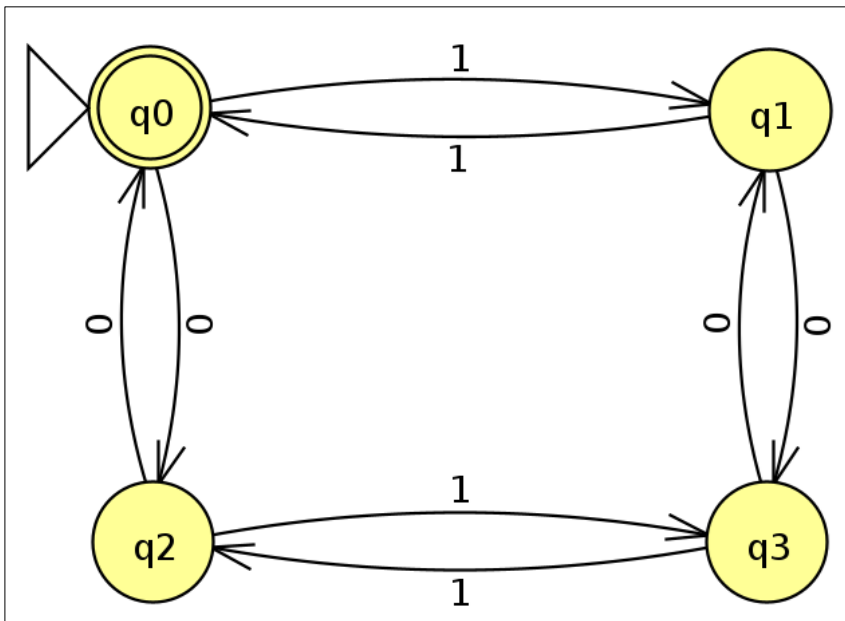


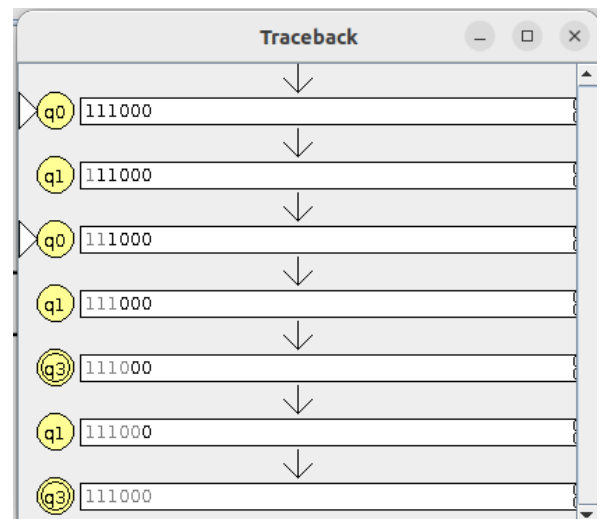
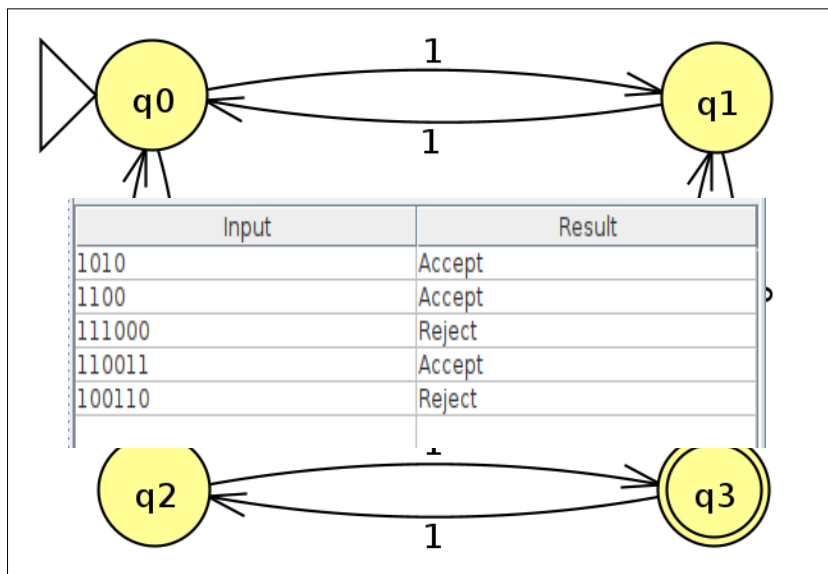
**Question 1: Design a DFA which accepts even number of 0s and even number of 1s**

**Diagram:**



**Question 2: Design a DFA which accepts odd number of 0s and odd number of 1s**

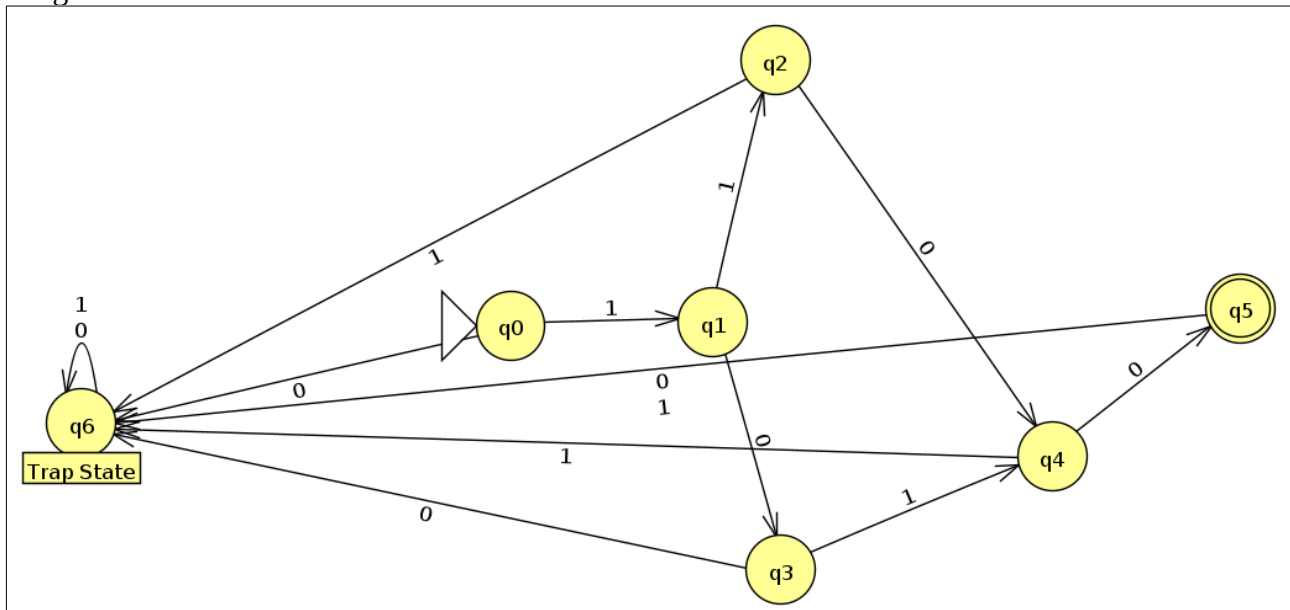
**Diagram:**



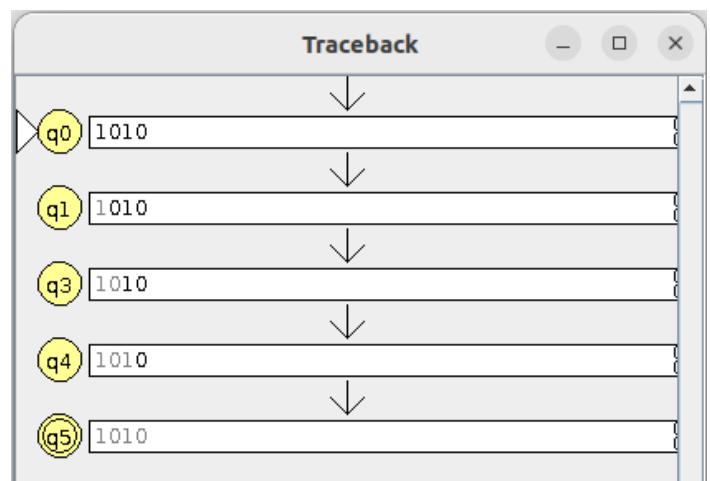
Input	Result
1100	Reject
10	Accept
111000	Accept
11110000	Reject

**Question 3: Design a DFA which accepts string 1100 or 1010 only**

Diagram:

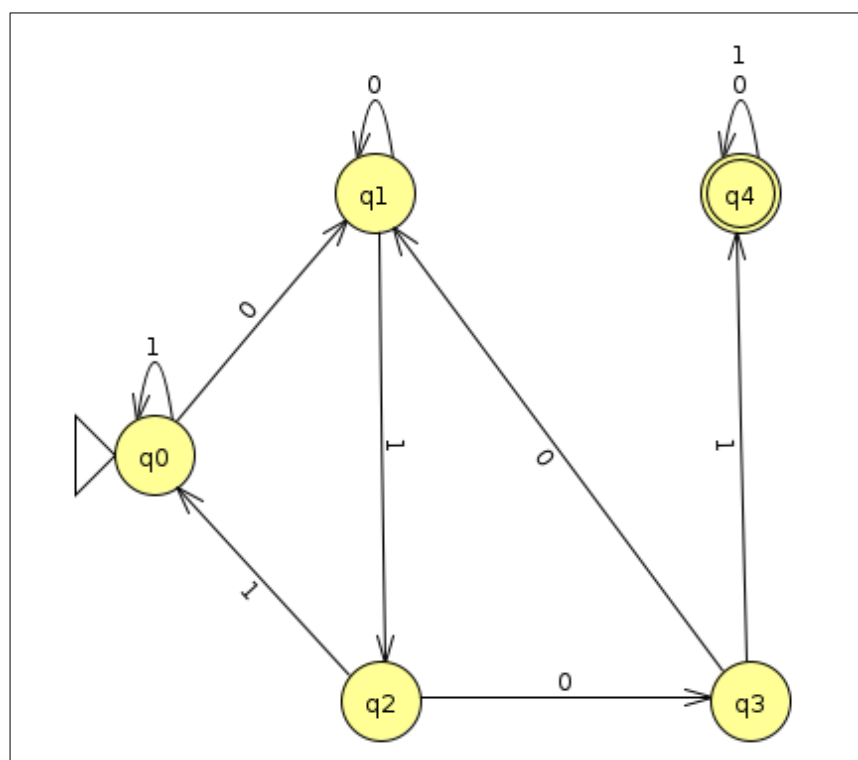


Input	Result
1010	Accept
1100	Accept
0011	Reject
0101	Reject

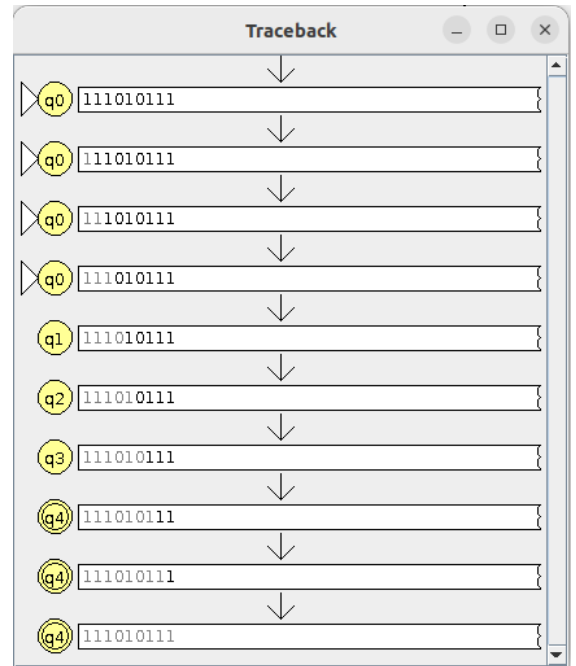


**Question 4: Design a DFA which accepts which accepts set of all strings that containing 0101 as substring**

Diagram:

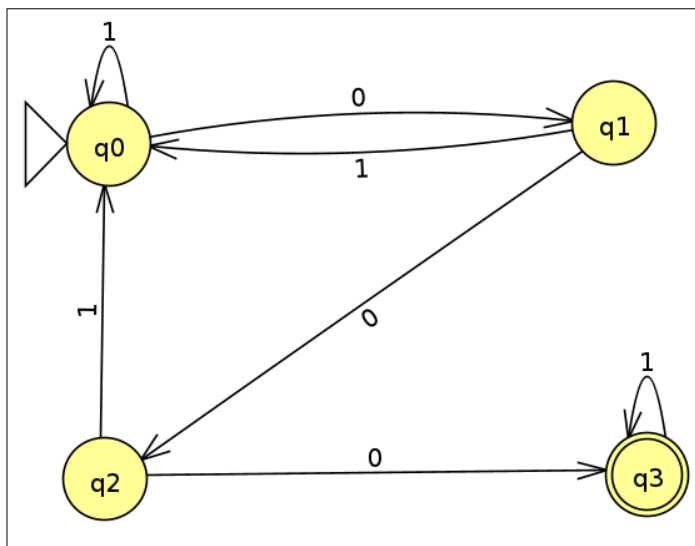


Input	Result
0010100	Accept
1001001001	Reject
111010111	Accept
0101	Accept
1111111111111	Reject

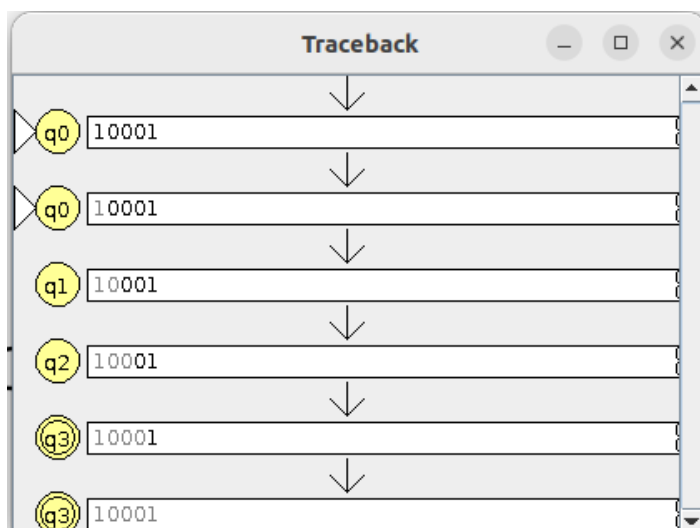


**Question 5: Design a DFA which accepts set of all strings containing 3 consecutive zeros**

Diagram:

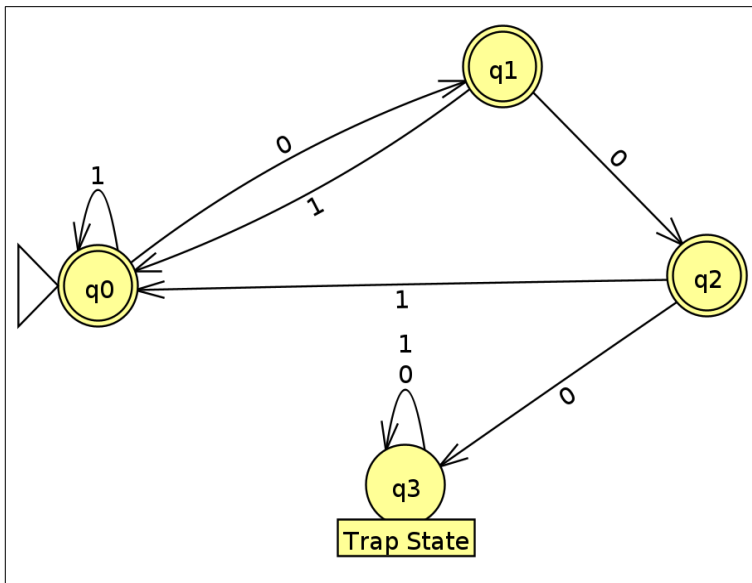


Input	Result
000	Accept
10010	Reject
10001	Accept
00000	Reject
0111000	Accept

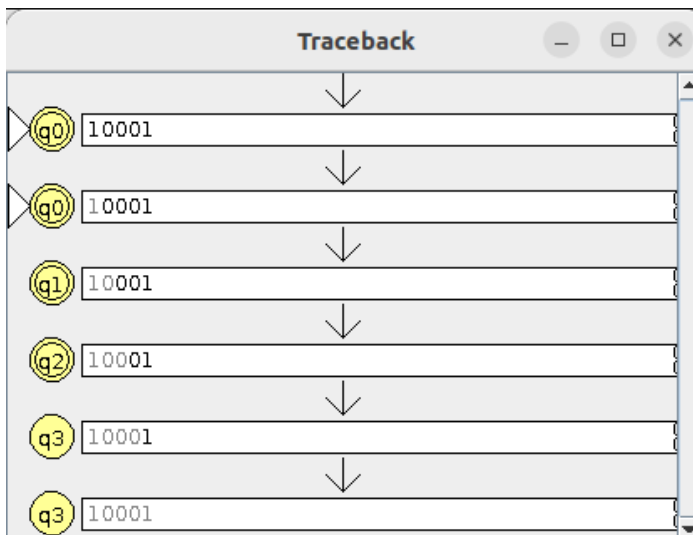


**Question 6: Design a DFA which does not accept set of all strings containing 3 consecutive zeros**

Diagram:

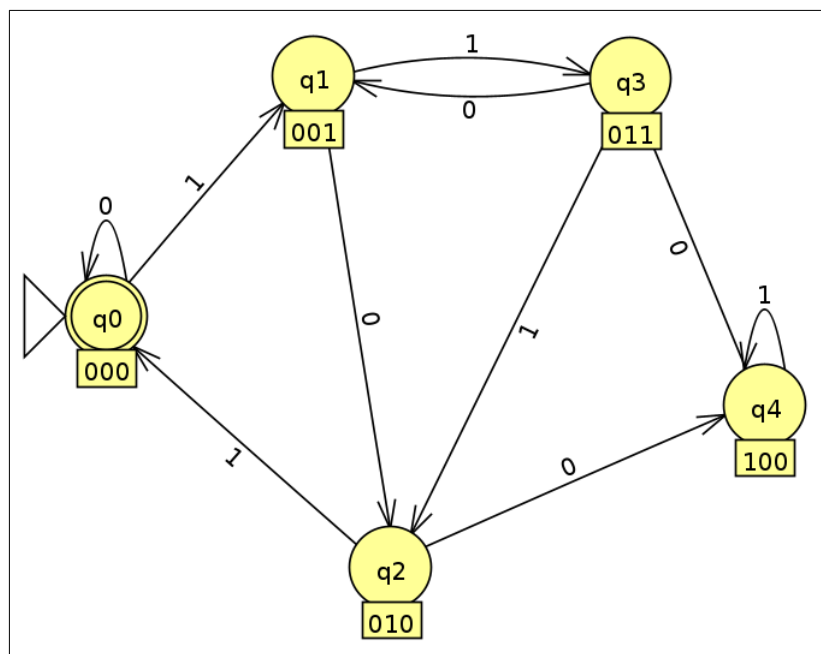


Input	Result
000	Reject
10010	Accept
10001	Reject
00000	Reject
0111000	Reject



**Question 7: Design a DFA which accepts set of all strings which are divisible by 5 for binary alphabets**

Diagram:



Input	Result
000	Accept
10010	Reject
10001	Reject
100011	Accept
0111000	Reject

