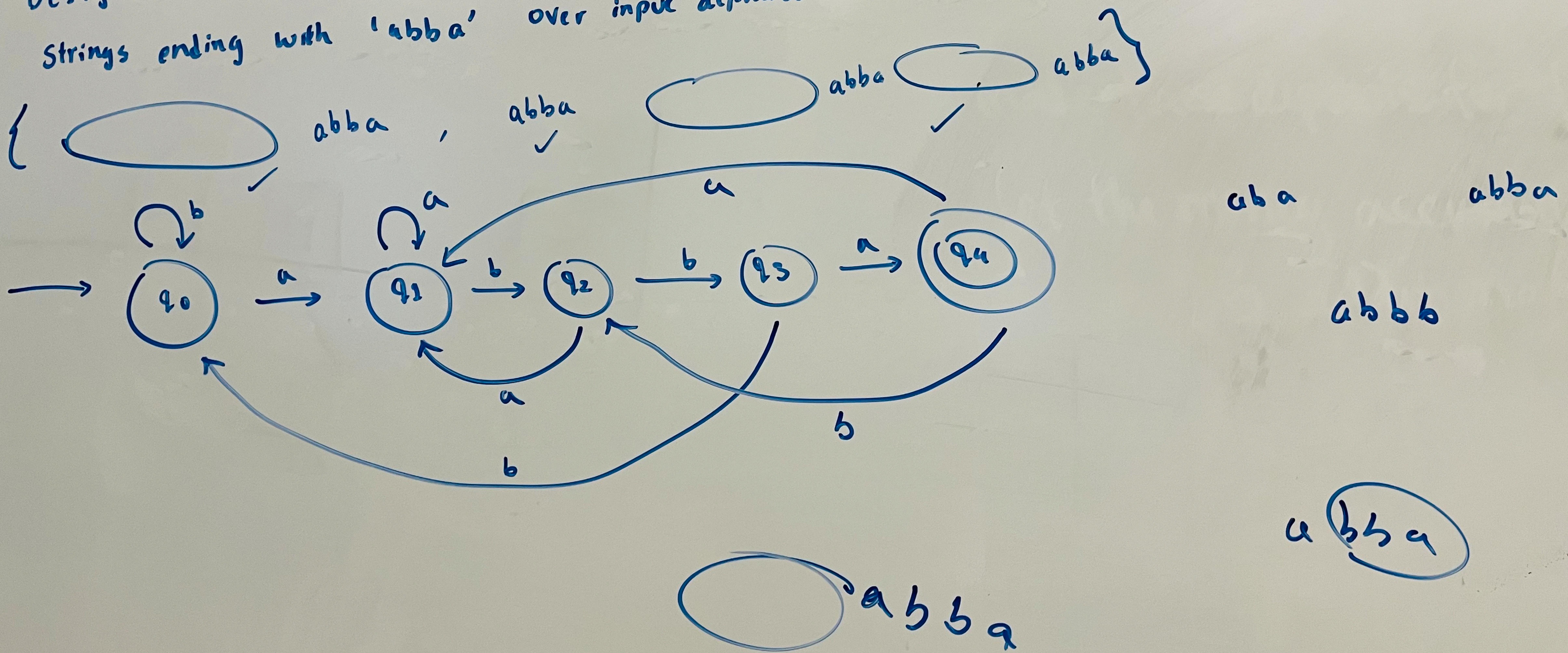


* Example 5

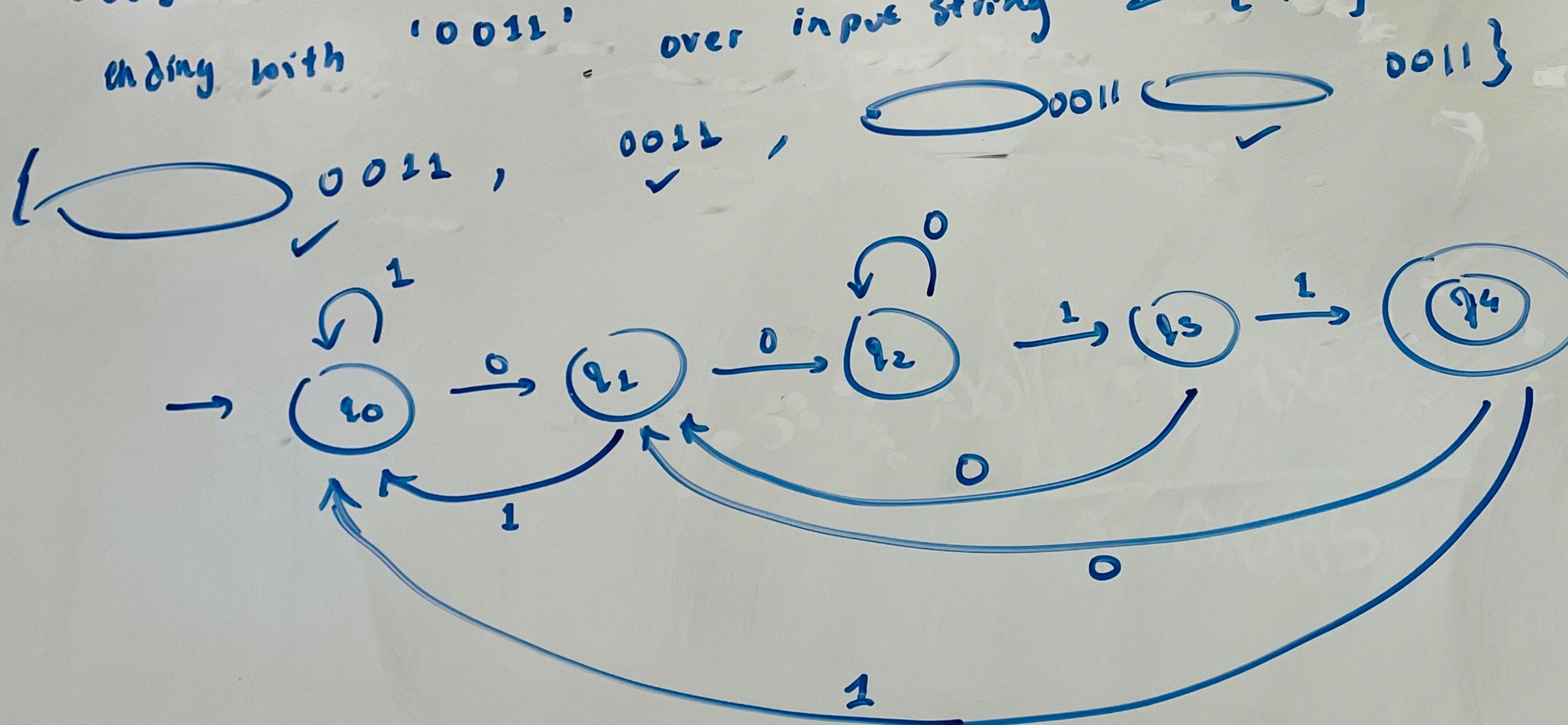
Example

Design a DFA for the language accepting strings ending with 'abbba' over input alphabet $\Sigma = \{a, b\}$.



* Example 6

Design a DFA for the language accepting strings
ending with '0011' over input string $\Sigma = \{0, 1\}$



1100101

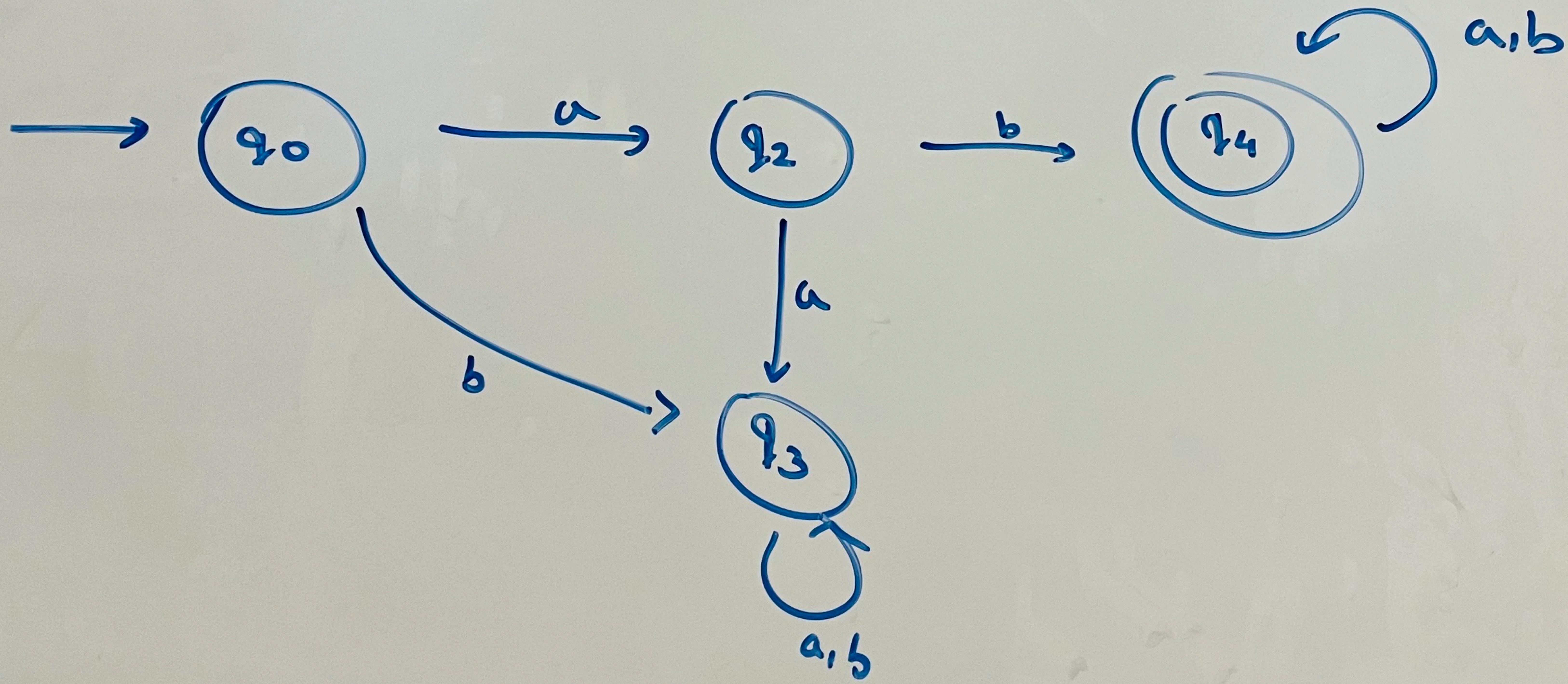
0010011

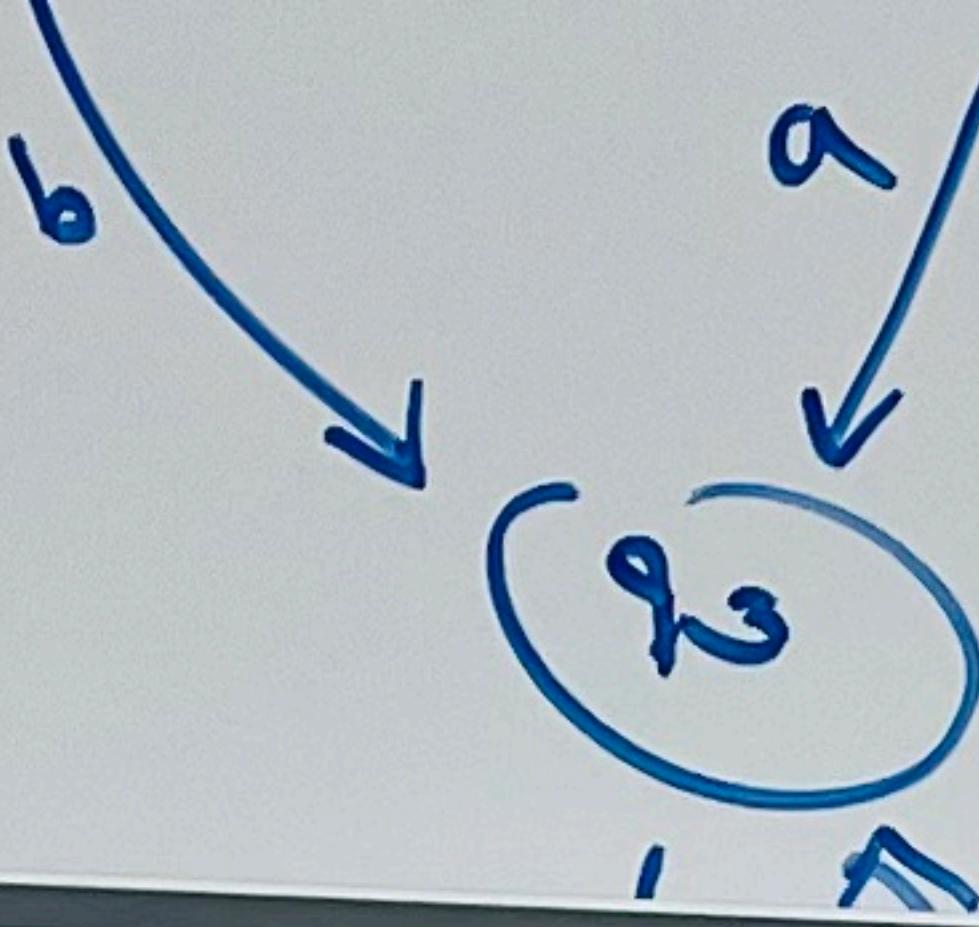
00110011
00111

* Example 7

Design a DFA for the language accepting strings starting with 'ab'
over the input alphabet $\Sigma = \{a, b\}$

{ \underline{ab} , \underline{abb} , \underline{aba} , \underline{ab} } , \underline{ba} , \underline{bab} , \underline{ax} , \underline{aa} }



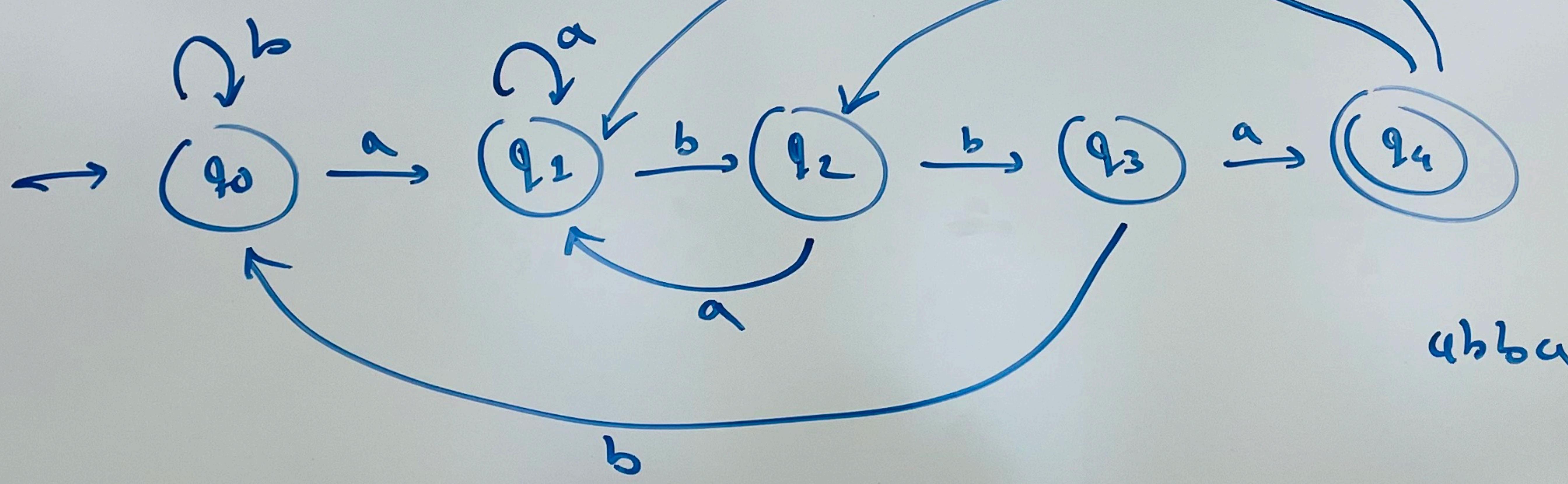


* Example 5

Design a DFA for the language accepting strings ending with 'abba'

over $\Sigma = \{a, b\}$

$$= \{ abba, \quad \checkmark \quad abba, \quad \checkmark \quad abba, \quad \checkmark \quad abba \}$$



ab a bba

abb b abba

a b ba

abba a bba

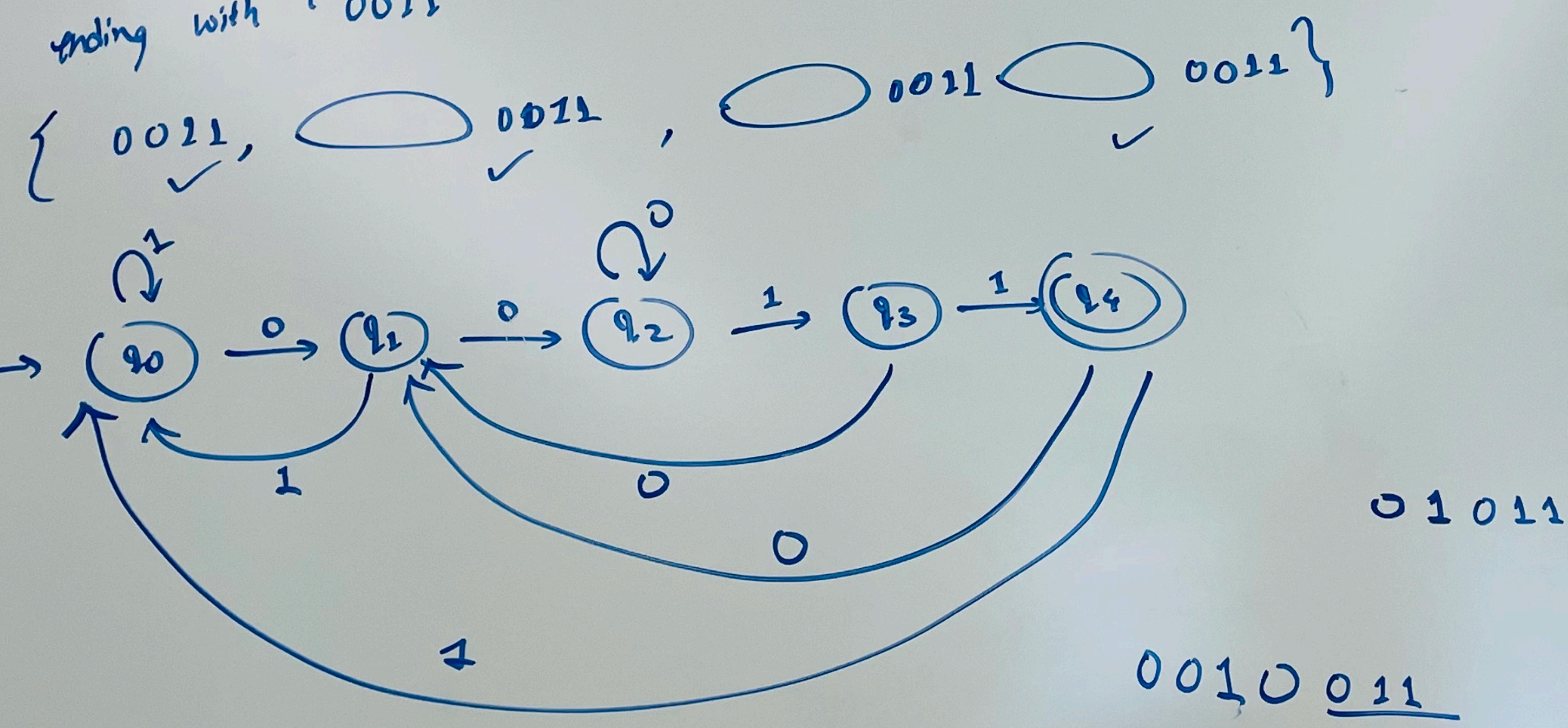
abb
+
bb a

abba b b
abba a bb a

* Example 6

Design a DFA for the language accepting strings

ending with '0011' over alphabet $\Sigma = \{0, 1\}$



001110011
00111

00110011
00111

* Example 7

Design a DFA for the language accepting strings

Starting with 'ab' over $\Sigma = \{a, b\}$

{ ab, \underline{abb} , \underline{aba} }

ab

\underline{ba}_x , \underline{baa}_x , $a\underline{aa}_x$, $a\underline{aa}_x$

