Figure 1: Q01: $L_1 = (a+b)*a$
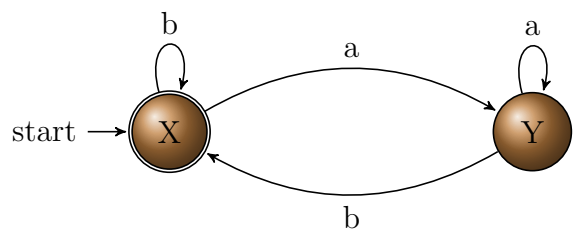

Figure 2: Q01: $L_2 = b(a+b)*$
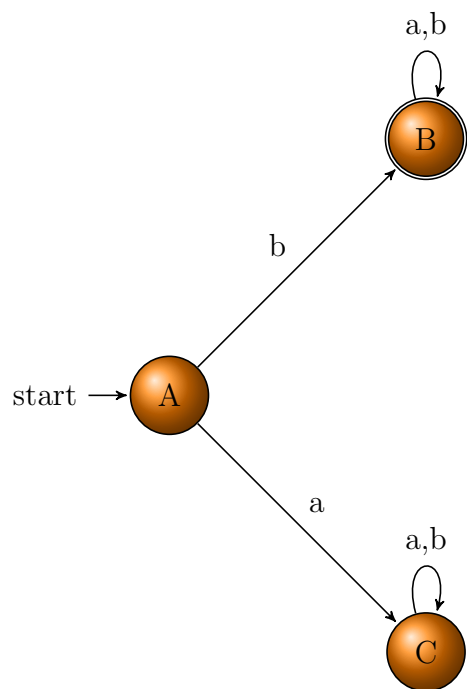
Figure 3: Q01: $L_1 \bigcap L_2$
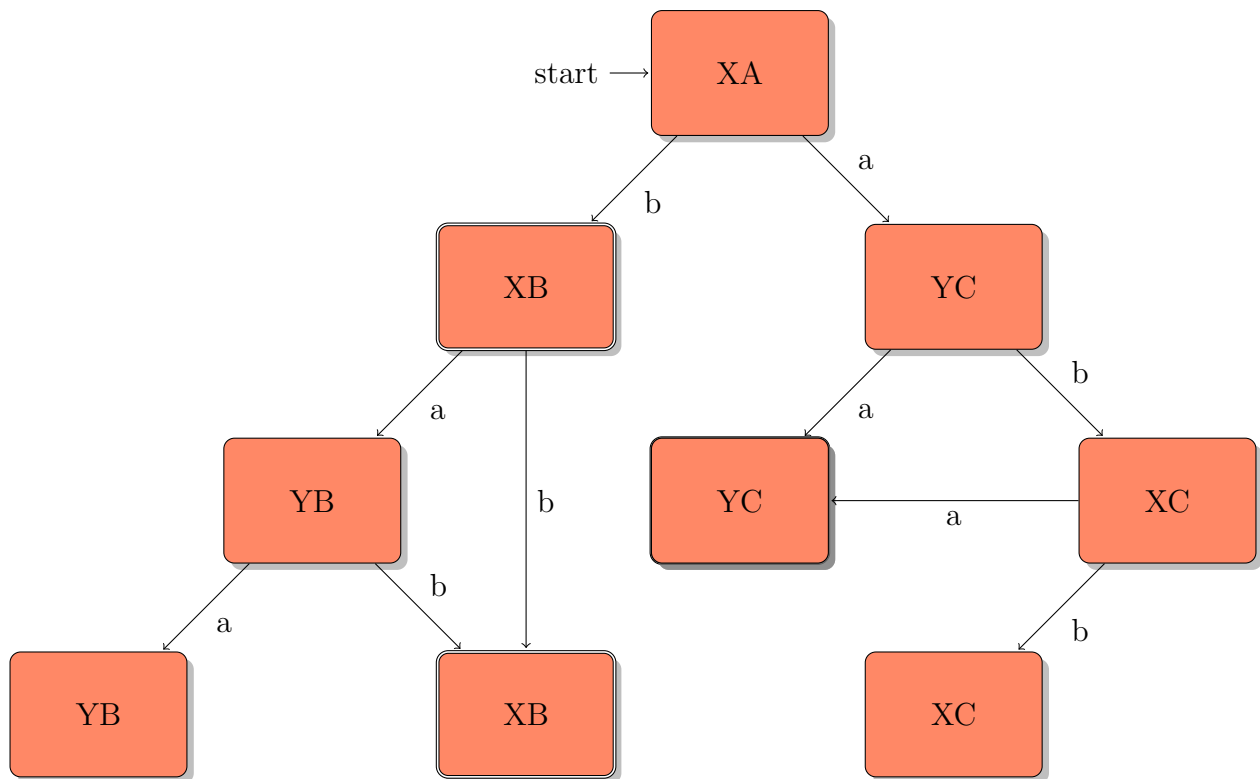
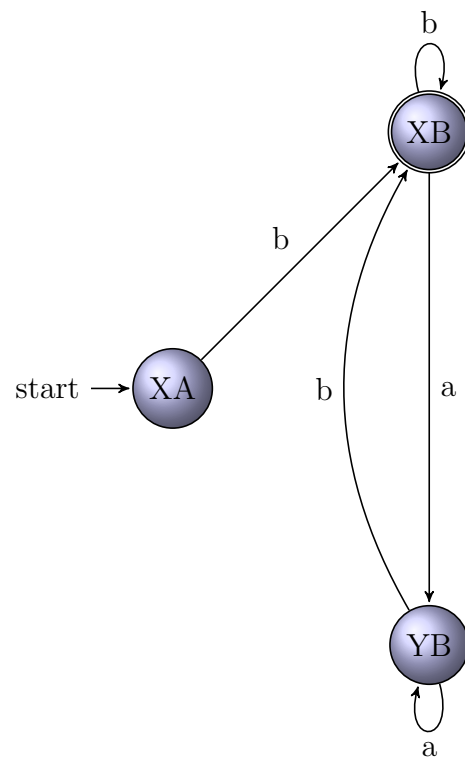**Figure 4:** Q01: L_3 = b(b+aa*b)*

Figure 5: Q02: $L_1 = $ (a+b)b(a+b)*
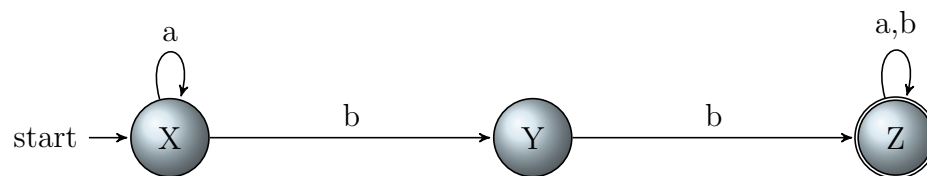
Figure 6: Q02: $L_2 = $ b(a+b)*
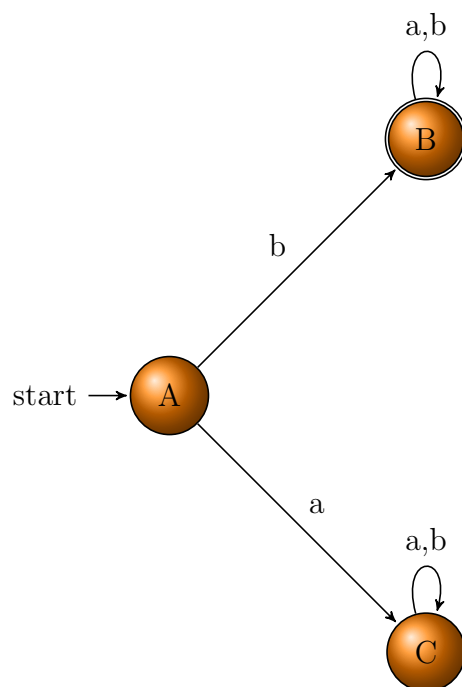
Figure 7: Q02: $L_1 \bigcap L_2$
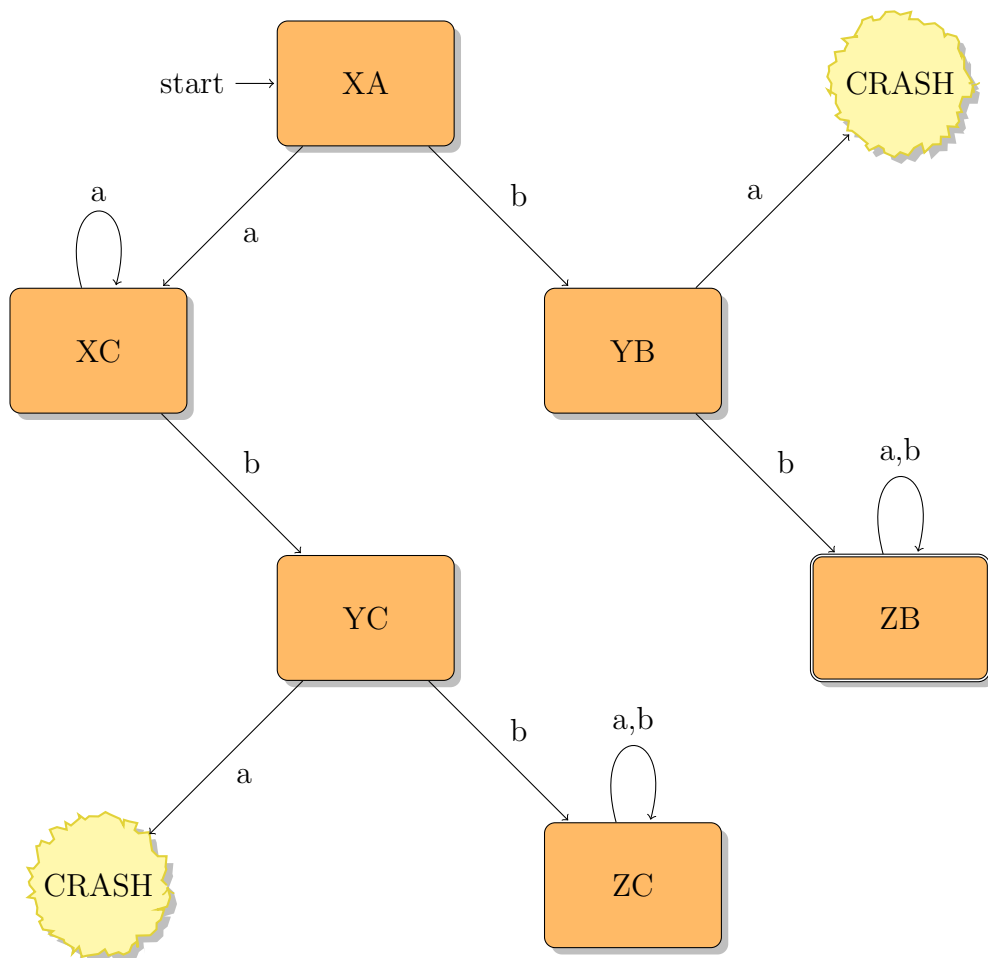
Figure 8: Q02: $L_3 = \text{ab(a+b)*}$
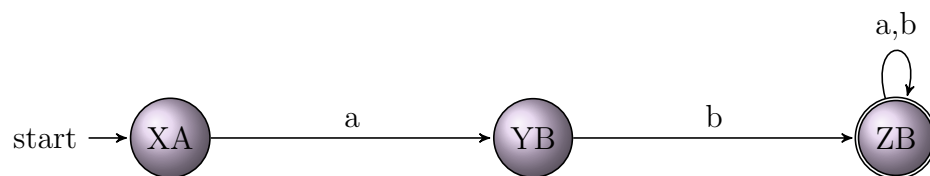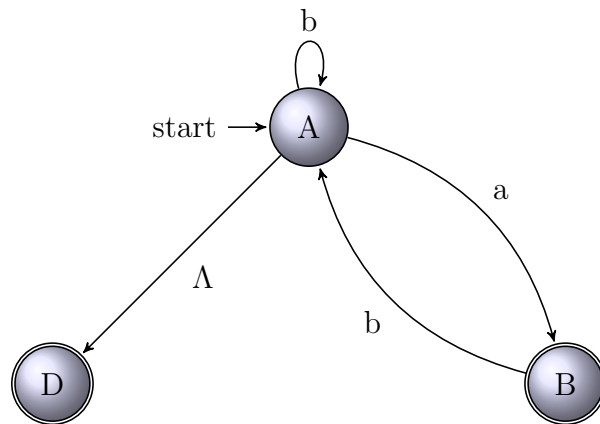
Figure 9: Q03: $L_1 = $ (b+ab)*(a+Λ)

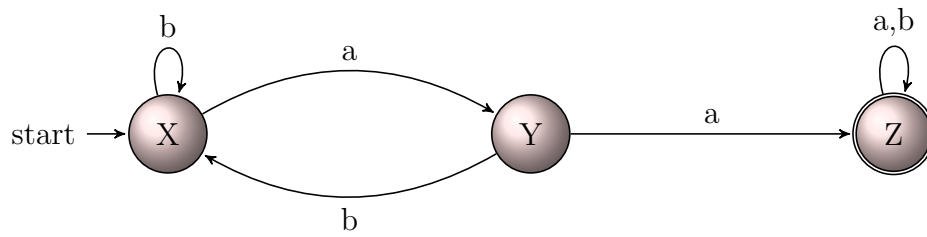**Figure 10:** Q03: $L_2 = $ (a+b)*aa(a+b)*
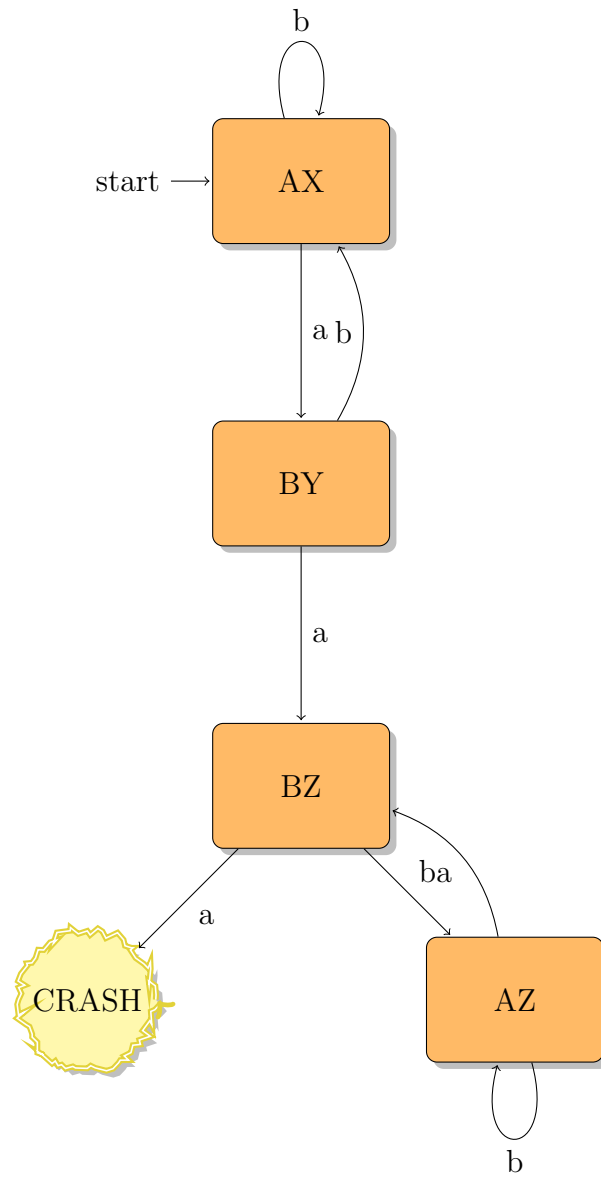
Figure 11: Q02: $L_1 \bigcap L_2$

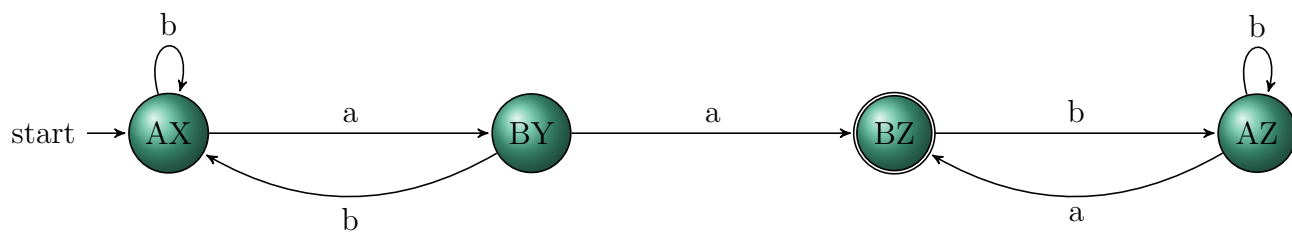**Figure 12:** Q03: $L_3 = $ (b+ab)*aa(bb*a)*

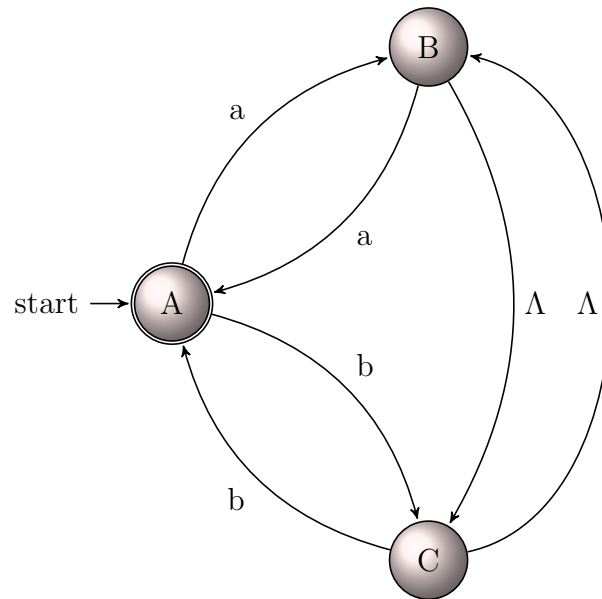**Figure 13:** Q04: $L_1 = (aa+ab+ba+bb)^*$

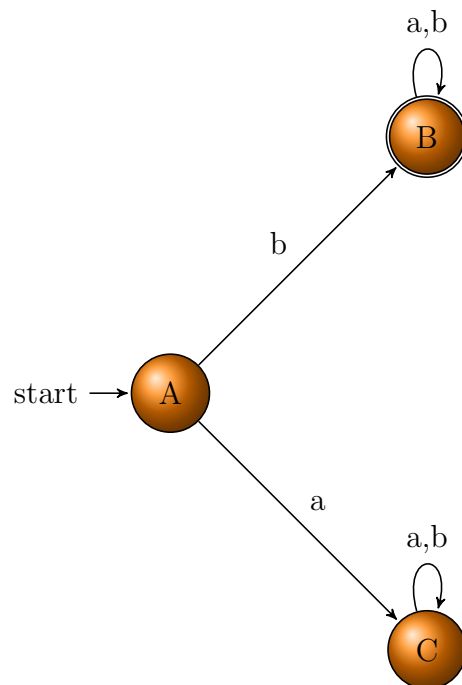**Figure 14:** Q04: $L_2 = b(a+b)^*$
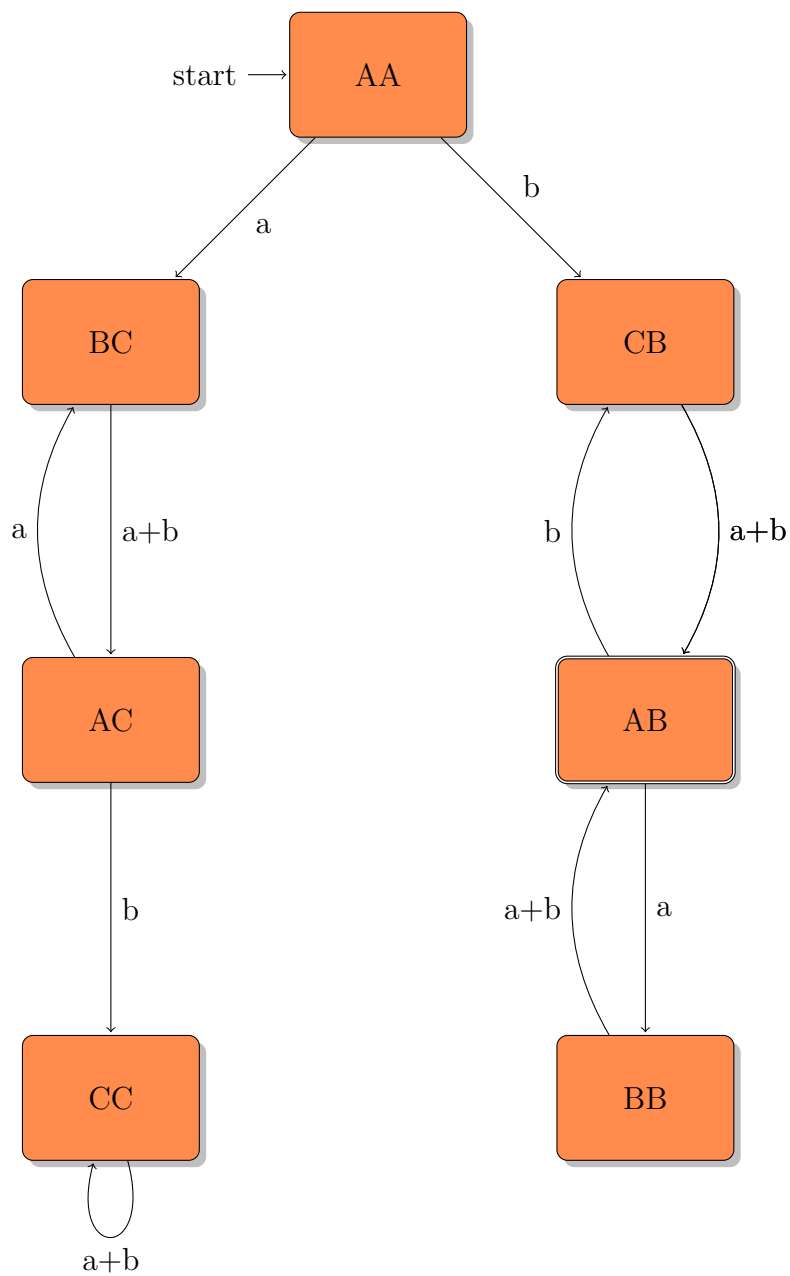
Figure 15: Q04: $L_1 \bigcap L_2$

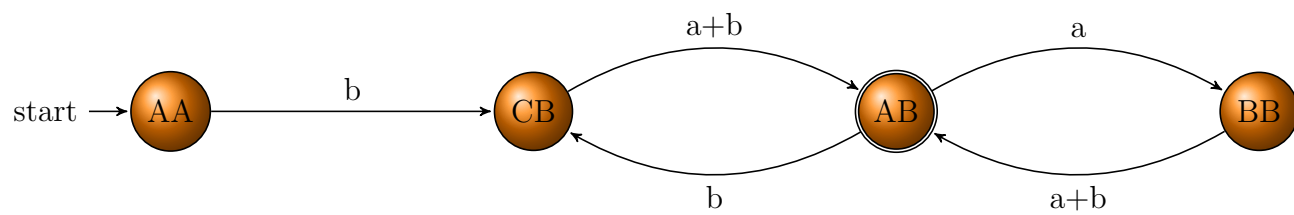**Figure 16:** Q04: L_3= b(a+b)(b(a+b)+a(a+b))

Figure 17: Q05: $L_1 = $ (aaa+bbb)*
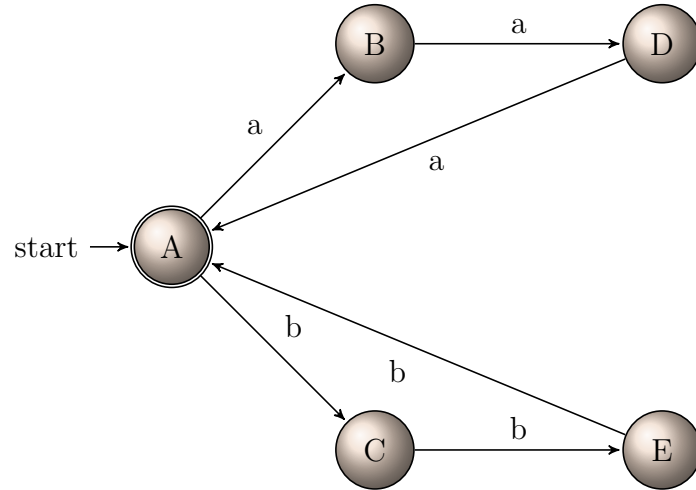
Figure 18: Q05: $L_2 = $ a(a+b)*
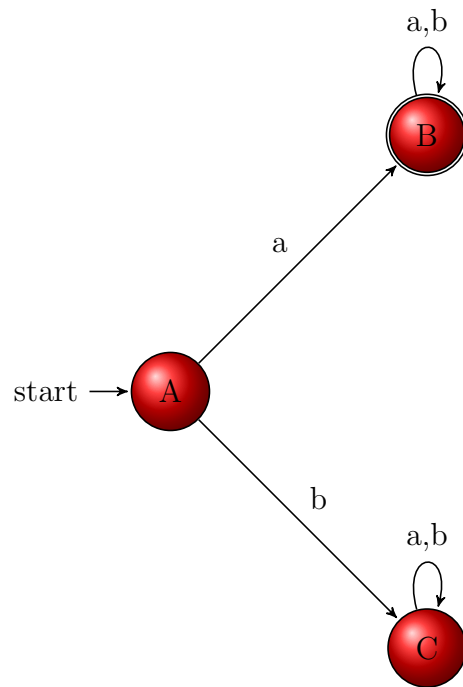
Figure 19: Q05: $L_1 \bigcap L_2$
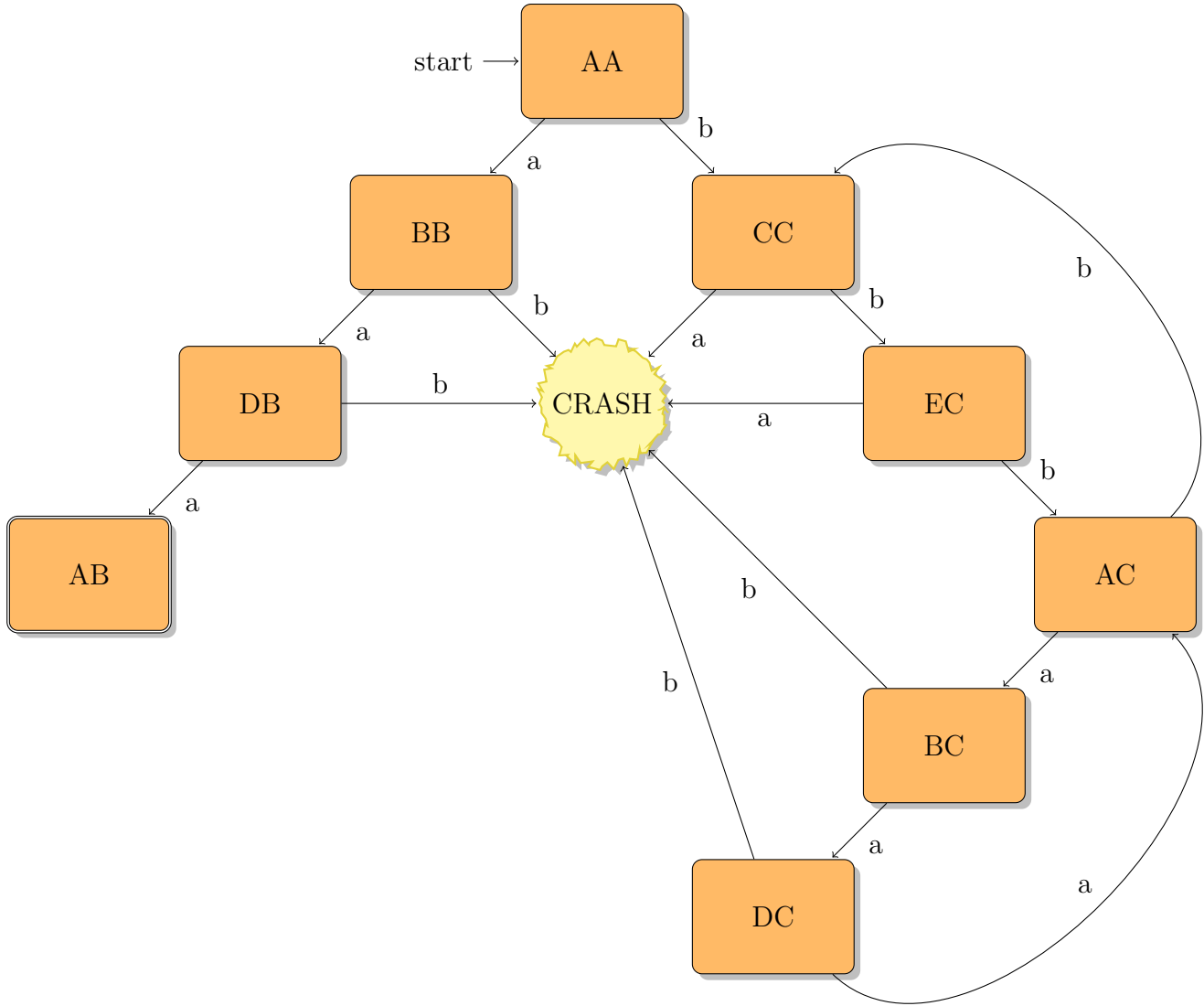
Figure 20: Q05: $L_3 =$ aaa

13
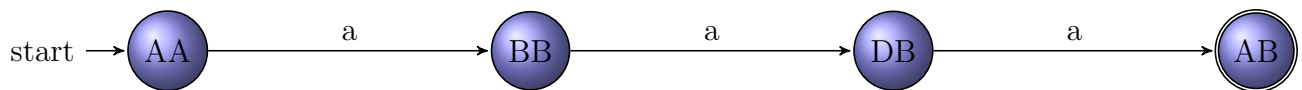
Figure 21: Q06: FA_1
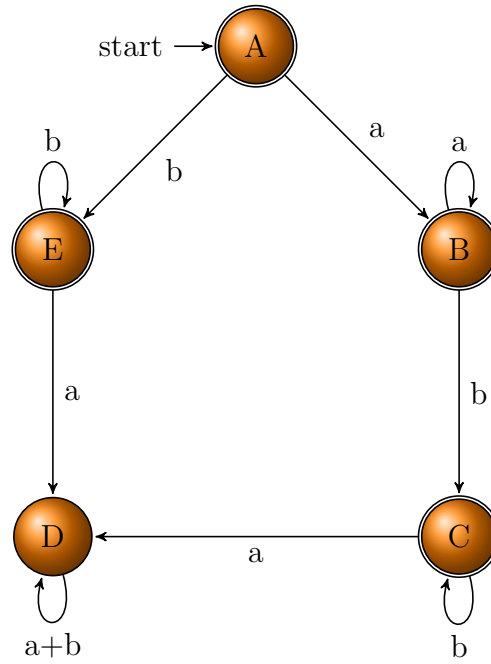
Figure 22: Q06: FA_2

Figure 23: Q05: $L_1 \bigcap L_2$