

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

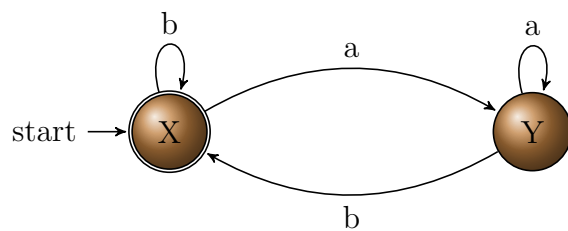


Figure 2: Q01: $L_2 = b(a+b)^*$

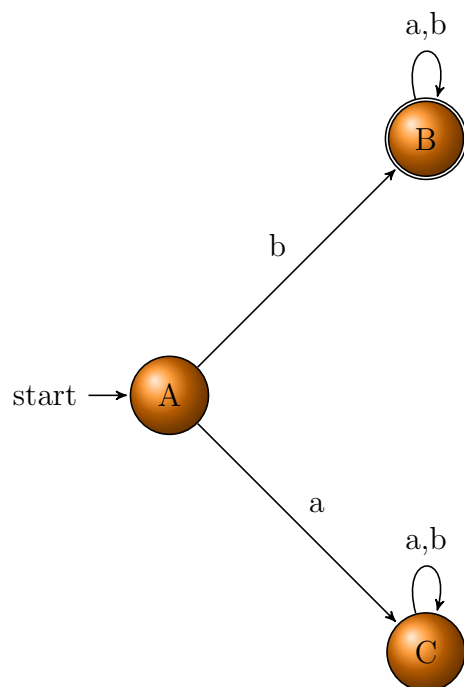


Figure 3: Q01: $L_1 \cap L_2$

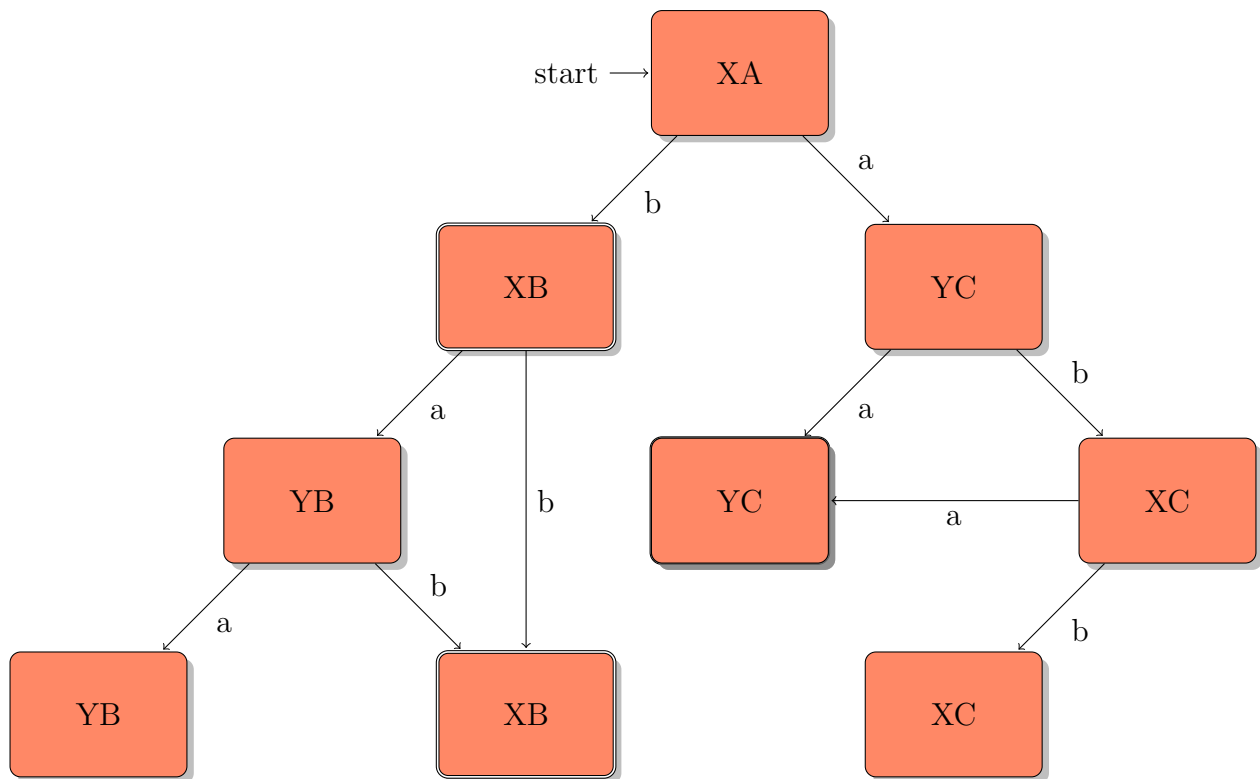


Figure 4: Q01: $L_3 = b(b^*+a)(a^*+b)$

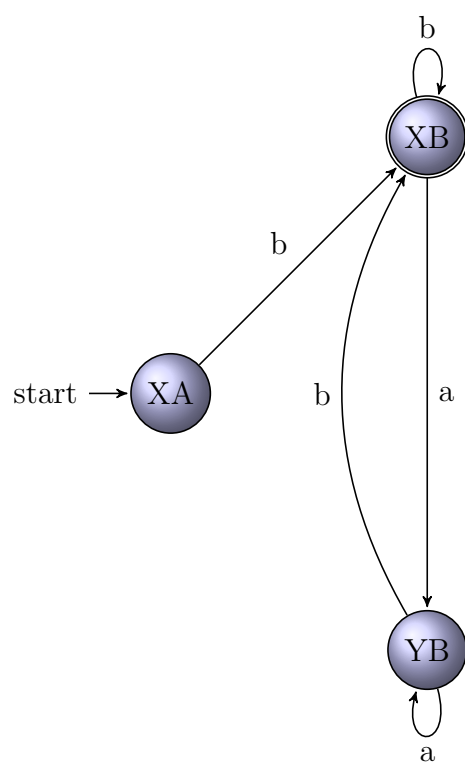


Figure 5: Q02: $L_1 = (a+b)b(a+b)^*$

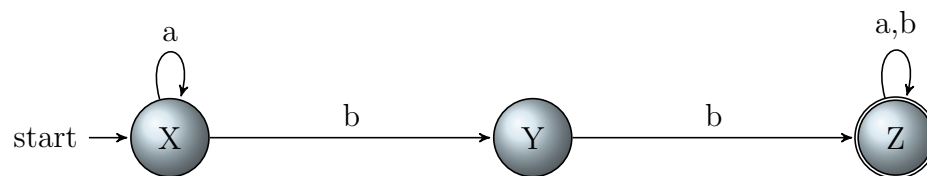


Figure 6: Q02: $L_2 = b(a+b)^*$

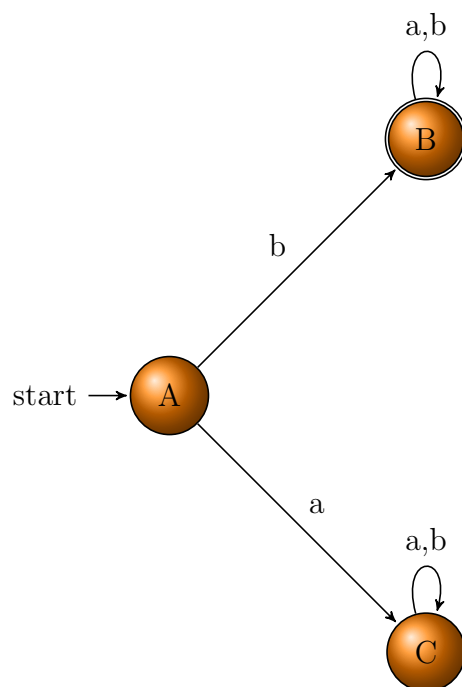


Figure 7: Q02: $L_1 \cap L_2$

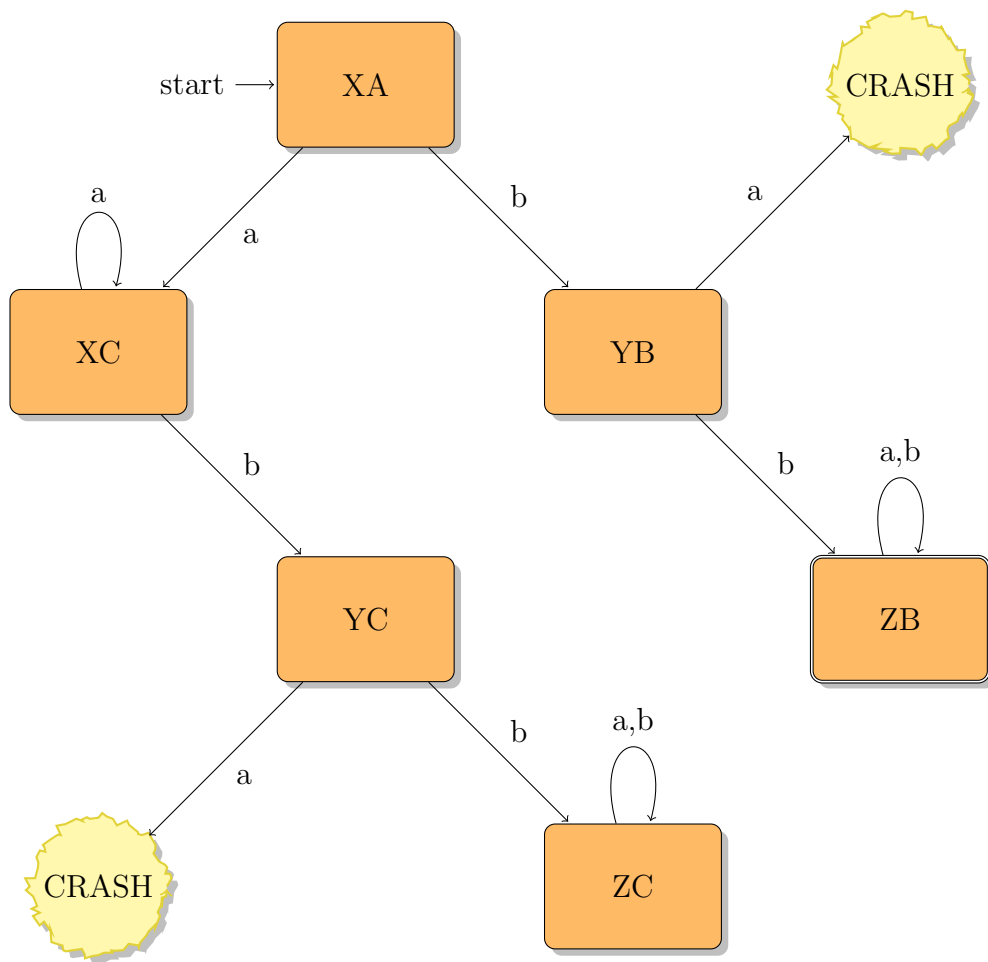


Figure 8: Q02: $L_3 = bb(a+b)^*$

