Appendix A: $SOA_{s'}(n, s^m)$ s in the tables

We arrange the columns of a saturated regular design OA(n, (n-1)/(s'-1), s', 2) in Yates order and label them by $1, 2, \ldots, (n-1)/(s'-1)$. For ease of expression, we represent A and B by the labels of columns.

An SOA₂(8, 4^2) with $A_2(D) = 1$: A = (5, 6), B = (4, 4).

An $SOA_2(8, 4^3)$ with $A_2(D) = 3$: A = (5, 6, 7), B = (4, 4, 4).

An SOA₂(16, 4^6) with $A_2(D) = 3$: A = (2, 4, 8, 10, 14, 15), B = (1, 3, 13, 6, 11, 6).

An SOA₂(16, 4^7) with $A_2(D) = 6$: A = (3, 4, 8, 10, 12, 14, 15), B = (6, 2, 5, 11, 11, 9, 13).

An SOA₂(16, 4^8) with $A_2(D) = 12$: A = (1, 2, 3, 4, 8, 10, 11, 14), B = (12, 5, 15, 9, 7, 5, 13, 7).

An SOA₂(16, 4^9) with $A_2(D) = 18$: A = (1, 2, 3, 4, 8, 10, 12, 14, 15), <math>B = (7, 11, 6, 13, 5, 7, 11, 5, 9).

An SOA₂(16, 4^{10}) with $A_2(D) = 30$: A = (1, 2, 3, 4, 8, 10, 11, 12, 14, 15), <math>B = (7, 5, 5, 13, 5, 7, 6, 5, 9, 6).

An SOA₂(32, 4^{10}) with $A_2(D) = 1$: A = (9, 15, 17, 18, 19, 21, 23, 25, 30, 31), B = (8, 3, 13, 22, 14, 16, 29, 2, 24, 11).

An SOA₂(32, 4^{11}) with $A_2(D) = 3$: A = (1, 2, 4, 10, 11, 14, 18, 22, 23, 24, 31), <math>B = (21, 19, 29, 12, 21, 7, 15, 19, 13, 16, 3).

An SOA₂(32, 4^{12}) with $A_2(D) = 5$: A = (2, 3, 8, 11, 12, 14, 16, 18, 19, 20, 22, 27), <math>B = (26, 30, 21, 15, 6, 7, 9, 31, 10, 17, 1, 28).

An SOA₂(32, 4^{13}) with $A_2(D) = 8$: A = (2, 3, 4, 10, 14, 15, 18, 22, 23, 24, 27, 28, 31), <math>B = (9, 19, 29, 12, 29, 17, 21, 8, 16, 13, 26, 25, 11).

An SOA₂(32, 4^{14}) with $A_2(D) = 11$: A = (3, 4, 10, 11, 12, 14, 15, 16, 18, 24, 26, 27, 30, 31), <math>B = (23, 21, 8, 22, 13, 7, 25, 21, 1, 9, 28, 8, 2, 6).

An SOA₂(32, 4^{15}) with $A_2(D) = 14$: A = (5, 6, 9, 10, 11, 17, 19, 22, 23, 25, 26, 27, 29, 30, 31), <math>B = (4, 8, 13, 18, 12, 16, 20, 20, 15, 12, 8, 21, 13, 28, 28).

30, 31), B = (20, 5, 6, 9, 28, 25, 28, 26, 13, 9, 17, 29, 20, 10, 18, 25).

21, 25).

28, 30, 31), B = (8, 7, 16, 21, 7, 21, 8, 18, 29, 19, 17, 11, 8, 11, 13, 25, 25).

26, 27, 30, 31), B = (12, 11, 6, 13, 17, 5, 5, 12, 7, 6, 29, 28, 10, 21, 11, 7, 7, 25).

24, 26, 27, 28, 30), B = (6, 5, 25, 25, 7, 29, 9, 2, 21, 31, 6, 11, 11, 2, 17, 31, 25, 13, 21).

An SOA₂(32, 4^{20}) with $A_2(D) = 54$: A = (1, 2, 3, 4, 8, 10, 11, 12, 15, 16, 18, 19, 20, 22,

24, 26, 27, 28, 30, 31), B = (7, 21, 13, 13, 17, 29, 13, 17, 6, 21, 5, 6, 29, 17, 29, 23, 14, 25, 7, 14).

An SOA₂(32, 4^{22}) with $A_2(D) = 98$: A = (1, 2, 3, 4, 8, 10, 11, 12, 14, 15, 16, 18, 19, 20, 22, 23, 24, 26, 27, 28, 30, 31), <math>B = (7, 7, 6, 25, 13, 7, 13, 21, 7, 9, 21, 21, 6, 9, 17, 17, 9, 7, 29, 13, 7, 25).

An SOA₂(64, 4^{22}) with $A_2(D) = 7$: A = (11, 14, 19, 22, 23, 29, 31, 34, 37, 43, 44, 45, 47, 51, 53, 55, 57, 58, 59, 60, 61, 62), <math>B = (35, 20, 3, 28, 40, 26, 39, 4, 52, 41, 36, 13, 41, 50, 48, 46, 33, 54, 21, 54, 30, 49).

An SOA₂(64, 4^{23}) with $A_2(D) = 9$: A = (2, 3, 6, 16, 21, 27, 29, 32, 34, 35, 38, 42, 43, 44, 47, 48, 50, 51, 55, 58, 60, 61, 62), <math>B = (57, 4, 23, 28, 20, 13, 9, 49, 56, 10, 25, 31, 14, 41, 8, 39, 28, 33, 56, 30, 57, 11, 19).

40, 42, 46, 47, 48, 50, 52, 56, 58, 62, 63), B = (3, 13, 6, 11, 6, 49, 51, 61, 54, 59, 54, 17, 19, 29, 22, 27, 22, 16, 33, 35, 45, 38, 43, 38).

An SOA₂(64, 4^{25}) with $A_2(D) = 12$: A = (2, 4, 8, 10, 14, 15, 18, 20, 24, 26, 30, 31, 34, 36, 40, 42, 46, 47, 48, 50, 52, 56, 58, 62, 63), <math>B = (1, 3, 13, 6, 11, 6, 49, 51, 61, 54, 59, 54, 17, 19, 29, 22, 27, 22, 16, 33, 35, 45, 38, 43, 38).

An SOA₂(64, 4^{26}) with $A_2(D) = 17$: A = (8, 10, 12, 15, 16, 18, 19, 21, 24, 27, 28, 31, 32, 34, 36, 39, 40, 45, 51, 52, 54, 56, 58, 59, 62, 63), <math>B = (35, 44, 29, 50, 14, 60, 26, 22, 6, 2, 1, 48, 37, 41, 33, 9, 25, 7, 6, 57, 1, 60, 3, 48, 47, 50).

An SOA₂(64, 4^{27}) with $A_2(D) = 20$: A = (13, 14, 18, 19, 21, 22, 23, 25, 27, 28, 29, 31, 33, 34, 35, 37, 41, 43, 44, 46, 47, 52, 53, 57, 58, 62, 63), <math>B = (12, 9, 10, 2, 50, 48, 30, 40, 39, 56, 55, 20, 49, 45, 5, 20, 51, 39, 8, 6, 32, 2, 48, 4, 50, 3, 59).

An SOA₂(64, 4^{28}) with $A_2(D) = 22$: A = (4, 8, 10, 12, 14, 15, 19, 20, 24, 26, 28, 30, 31, 35, 36, 40, 42, 44, 46, 47, 48, 51, 52, 56, 58, 60, 62, 63), <math>B = (2, 5, 11, 11, 9, 13, 54, 50, 53, 59, 59, 57, 61, 22, 18, 21, 27, 27, 25, 29, 16, 38, 34, 37, 43, 43, 41, 45).

An SOA₂(64, 4^{29}) with $A_2(D) = 24$: A = (3, 4, 8, 10, 12, 14, 15, 19, 20, 24, 26, 28, 30, 31, 35, 36, 40, 42, 44, 46, 47, 48, 51, 52, 56, 58, 60, 62, 63), <math>B = (6, 2, 5, 11, 11, 9, 13, 54, 50, 53, 59, 59, 57, 61, 22, 18, 21, 27, 27, 25, 29, 16, 38, 34, 37, 43, 43, 41, 45).

An SOA₂(64, 4^{30}) with $A_2(D) = 31$: A = (10, 11, 13, 14, 17, 19, 21, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 41, 42, 47, 49, 50, 52, 53, 58, 59, 60, 61, 62, 63), <math>B = (45, 45, 5, 55, 7, 51, 22, 24, 44, 9, 24, 54, 23, 8, 32, 15, 3, 7, 44, 55, 20, 48, 56, 20, 40, 16, 12, 4, 40, 48).

An $SOA_2(64, 4^{32})$ with $A_2(D) = 40$: A = (1, 8, 10, 11, 12, 13, 19, 21, 22, 25, 26, 28, 30, 31, 35, 37, 41, 42, 43, 45, 46, 47, 49, 51, 52, 53, 54, 55, 58, 60, 61, 63), <math>B = (38, 14, 40, 50, 36, 4, 14, 7, 17, 56, 20, 24, 5, 15, 15, 2, 16, 59, 15, 20, 16, 3, 23, 3, 38, 7, 6, 23, 27, 36, 5, 29).

An SOA₂(64, 4^{33}) with $A_2(D) = 44$: A = (1, 11, 12, 14, 15, 16, 18, 20, 21, 23, 26, 27, 28, 29, 31, 35, 36, 37, 38, 39, 40, 42, 44, 45, 46, 51, 53, 55, 56, 58, 59, 60, 63), <math>B = (32, 57, 49, 62, 7, 8, 22, 10, 13, 33, 25, 2, 25, 24, 47, 50, 13, 17, 6, 52, 34, 47, 7, 6, 61, 2, 43, 33, 6, 3, 9, 34, 54).

An SOA₂(64, 4^{34}) with $A_2(D) = 53$: A = (9, 10, 13, 14, 15, 17, 19, 20, 22, 23, 27, 29, 30, 33, 34, 35, 36, 37, 39, 41, 42, 47, 49, 50, 51, 52, 53, 54, 55, 57, 59, 60, 61, 62), <math>B = (11, 18, 45, 38, 8, 26, 1, 24, 16, 21, 31, 48, 26, 38, 18, 32, 28, 11, 31, 5, 12, 44, 25, 46, 63, 25, 21, 26, 63, 43, 58, 16, 7, 56).

An SOA₂(64, 4^{35}) with $A_2(D) = 59$: A = (10, 11, 12, 13, 15, 17, 18, 19, 21, 23, 25, 27, 28, 29, 30, 31, 33, 36, 37, 38, 42, 43, 44, 45, 46, 47, 49, 50, 51, 54, 55, 57, 60, 61, 62), <math>B = (16, 34, 8, 5, 40, 24, 48, 35, 20, 35, 26, 24, 52, 58, 14, 7, 32, 6, 63, 48, 41, 63, 58, 40, 14, 40, 39, 59, 6, 56, 2, 59, 58, 2, 59).

An SOA₂(64, 4^{36}) with $A_2(D) = 65$: A = (1, 10, 12, 13, 14, 15, 16, 19, 21, 22, 23, 24, 26, 28, 29, 30, 32, 34, 35, 39, 40, 42, 43, 46, 47, 48, 50, 52, 53, 54, 55, 56, 59, 61, 62, 63), <math>B = (2, 9, 33, 49, 6, 7, 4, 2, 4, 58, 38, 60, 5, 58, 6, 25, 37, 37, 5, 44, 58, 33, 57, 58, 41, 3, 41, 25, 36, 41, 18, 33, 51, 57, 2, 36).

An SOA₂(64, 4^{37}) with $A_2(D) = 72$: A = (10, 11, 12, 13, 15, 17, 18, 19, 20, 22, 25, 26, 29, 30, 31, 33, 34, 35, 36, 37, 38, 39, 41, 42, 44, 46, 47, 49, 52, 53, 54, 55, 58, 59, 60, 61, 62), <math>B = (56, 2, 5, 14, 8, 24, 2, 8, 3, 16, 1, 50, 45, 45, 3, 40, 57, 27, 4, 50, 21, 32, 1, 63, 48, 43, 4, 14, 4, 51, 5, 57, 45, 43, 28, 63, 56).

An SOA₂(64, 4^{38}) with $A_2(D) = 82$: A = (10, 12, 13, 14, 15, 17, 18, 19, 21, 22, 23, 25, 26, 27, 28, 30, 31, 33, 34, 35, 37, 42, 43, 44, 45, 46, 47, 50, 52, 53, 54, 55, 57, 58, 59, 60, 62, 63), <math>B = (9, 49, 8, 51, 4, 16, 2, 51, 51, 49, 20, 48, 2, 3, 1, 29, 7, 9, 6, 11, 32, 2, 32, 41, 4, 39, 39, 38, 16, 8, 48, 7, 16, 56, 29, 56, 6, 7).

An SOA₂(64, 4^{39}) with $A_2(D) = 93$: A = (8, 10, 11, 12, 13, 15, 17, 18, 19, 20, 22, 23, 25, 26, 28, 29, 30, 31, 34, 35, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 51, 52, 53, 55, 59, 60, 61, 62,

63), B = (1, 56, 50, 14, 3, 54, 32, 2, 6, 16, 16, 2, 33, 58, 27, 57, 36, 7, 24, 2, 4, 33, 36, 32, 49, 48, 4, 40, 54, 58, 50, 49, 5, 1, 56, 36, 5, 48, 49).

An SOA₂(64, 4^{40}) with $A_2(D) = 103$: A = (2, 3, 4, 5, 6, 7, 8, 16, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29, 30, 31, 32, 34, 35, 37, 38, 40, 42, 43, 44, 45, 46, 50, 51, 53, 55, 56, 58, 59, 60, 63), <math>B = (14, 61, 52, 11, 41, 49, 54, 25, 11, 26, 48, 52, 57, 54, 41, 10, 13, 57, 39, 14, 49, 11, 47, 1, 15, 15, 13, 26, 13, 9, 52, 62, 61, 52, 61, 33, 48, 15, 54, 1).

An SOA₂(64, 4^{41}) with $A_2(D) = 117$: A = (1, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 23, 24, 26, 27, 28, 29, 30, 32, 35, 36, 37, 40, 42, 44, 45, 46, 48, 50, 51, 52, 54, 55, 56, 58, 60, 61, 62, 63), <math>B = (38, 49, 33, 9, 21, 4, 53, 41, 25, 59, 6, 59, 39, 17, 9, 47, 57, 5, 2, 49, 34, 33, 5, 33, 3, 41, 47, 41, 41, 5, 53, 21, 43, 17, 21, 9, 17, 5, 34, 57, 38).

An SOA₂(64, 4^{42}) with $A_2(D) = 131$: A = (1, 8, 10, 11, 12, 14, 15, 16, 18, 19, 21, 23, 26, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 42, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 59, 60, 61, 62, 63), <math>B = (41, 49, 17, 2, 5, 3, 6, 20, 3, 22, 24, 20, 2, 4, 4, 27, 24, 57, 3, 58, 33, 49, 33, 22, 2, 43, 6, 40, 4, 41, 27, 58, 57, 49, 7, 22, 41, 57, 58, 22, 4, 20).

An SOA₂(64, 4^{43}) with $A_2(D) = 146$: A = (1, 8, 10, 11, 12, 13, 14, 15, 16, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 38, 39, 40, 43, 44, 45, 46, 47, 50, 51, 52, 53, 54, 55, 56, 59, 60, 62, 63), <math>B = (5, 41, 58, 25, 5, 4, 9, 9, 41, 41, 4, 17, 3, 61, 3, 58, 25, 4, 7, 58, 37, 7, 18, 48, 7, 6, 2, 41, 17, 57, 4, 18, 49, 49, 61, 20, 48, 49, 18, 42, 5, 61, 6).

An SOA₂(64, 4^{44}) with $A_2(D) = 163$: A = (1, 8, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 36, 37, 39, 40, 42, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 55, 56, 59, 60, 61, 62, 63), <math>B = (7, 10, 9, 6, 46, 9, 41, 49, 35, 25, 5, 22, 57, 41, 3, 10, 25, 25, 7, 22, 3, 38, 38, 4, 33, 46, 41, 5, 22, 46, 22, 17, 35, 9, 5, 35, 7, 17, 58, 2, 58, 57, 7, 22).

An SOA₂(64, 4^{45}) with $A_2(D) = 182$: A = (1, 8, 10, 11, 12, 13, 15, 16, 18, 19, 20, 22, 23, 24, 26, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 50, 52, 53, 54, 55, 56, 58, 60, 61, 62, 63), <math>B = (2, 59, 3, 14, 25, 9, 9, 5, 27, 17, 17, 3, 6, 9, 41, 27, 25, 7, 17, 25, 57, 2, 21, 33, 51, 33, 25, 27, 41, 5, 4, 21, 33, 3, 27, 51, 14, 49, 6, 33, 3, 7, 4, 5, 6).

An SOA₂(64, 4^{46}) with $A_2(D) = 207$: A = (1, 8, 10, 11, 12, 13, 15, 17, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63), <math>B = (6, 32, 14, 5, 2, 9, 6, 6, 23, 16, 16, 23, 6, 33, 2, 3, 40, 5, 9, 7, 33, 23, 52, 33, 6, 32, 32, 2, 3, 52, 40, 32, 40, 33, 48, 3, 5, 23, 32, 9, 52, 3, 4, 56, 6, 7).

An SOA₂(64, 4^{47}) with $A_2(D) = 233$: A = (1, 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37, 39, 41, 42, 44, 45, 46, 47, 49, 50, 51, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63), <math>B = (5, 40, 3, 32, 52, 38, 40, 6, 9, 38, 3, 16, 5, 16, 16, 9, 24, 43, 24, 24, 6, 43, 38, 2, 32, 4, 38, 7, 2, 2, 52, 40, 40, 4, 9, 2, 7, 5, 48, 7, 48, 2, 56, 4, 56, 6, 7).

An SOA₂(64, 4^{48}) with $A_2(D) = 263$: A = (1, 8, 10, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63), <math>B = (3, 40, 9, 9, 6, 11, 9, 33, 16, 24, 4, 16, 16, 7, 9, 2, 3, 4, 5, 6, 7, 3, 32, 32, 4, 33, 32, 9, 11, 11, 40, 40, 6, 40, 16, 48, 56, 48, 5, 48, 48, 9, 56, 3, 4, 5, 6, 7).

An SOA₂(64, 4^{49}) with $A_2(D) = 294$: A = (9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 52, 53, 54, 55, 57, 58, 59, 60, 61, 62, 63), <math>B = (1, 2, 8, 4, 5, 8, 7, 16, 16, 3, 4, 16, 16, 16, 12, 24, 24, 4, 5, 24, 24, 32, 2, 32, 32, 32, 32, 32, 1, 2, 40, 4, 40, 40, 40, 1, 2, 48, 48, 5, 48, 7, 1, 2, 3, 56, 5, 6, 7).

An SOA₂(64, 4^{50}) with $A_2(D) = 336$: A = (1, 8, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 58, 59, 60, 61, 62, 63), <math>B = (6, 17, 3, 2, 9, 9, 9, 6, 41, 3, 2, 5, 4, 17, 6, 57, 3, 25, 25, 25, 7, 25, 17, 33, 33, 5, 33, 7, 6, 33, 3, 41, 41, 41, 7, 6, 41, 3, 2, 49, 49, 7, 49, 49, 3, 2, 57, 4, 57, 57).

An SOA₃(27,9²) with
$$A_2(D) = 2$$
: $A = (4, 9)$, $B = (1, 2)$.
An SOA₃(27,9³) with $A_2(D) = 6$: $A = (4, 9, 10)$, $B = (1, 2, 1)$.

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An SOA<sub>3</sub>(27, 9<sup>4</sup>) with A_2(D) = 12: A = (4, 9, 10, 11), B = (1, 2, 1, 2).
   An SOA<sub>3</sub>(27, 9<sup>5</sup>) with A_2(D) = 20: A = (4, 9, 10, 11, 12), B = (1, 2, 1, 2, 5).
   An SOA<sub>3</sub>(27, 9<sup>6</sup>) with A_2(D) = 30: A = (4, 9, 10, 11, 12, 13), B = (1, 2, 1, 2, 5, 1).
   An SOA<sub>3</sub>(81, 9<sup>11</sup>) with A_2(D) = 8: A = (4, 9, 10, 13, 23, 24, 26, 27, 29, 30, 34), <math>B = (4, 9, 10, 13, 23, 24, 26, 27, 29, 30, 34)
(14, 25, 38, 1, 37, 28, 22, 12, 8, 33, 2).
   An SOA<sub>3</sub>(81, 9<sup>12</sup>) with A_2(D) = 16: A = (4, 11, 12, 13, 23, 29, 31, 32, 34, 36, 38, 40),
B = (16, 22, 8, 35, 7, 22, 9, 28, 14, 1, 6, 2).
   A(40), B = (2, 18, 37, 24, 31, 28, 5, 19, 22, 38, 26, 4, 13).
   (37), B = (40, 7, 25, 25, 39, 5, 22, 27, 2, 33, 22, 27, 12, 23).
   38, 39, 40, B = (4, 9, 21, 5, 7, 19, 14, 16, 34, 28, 8, 22, 2, 6, 14).
   An SOA<sub>3</sub>(81, 9<sup>16</sup>) with A_2(D) = 54: A = (10, 11, 13, 24, 27, 28, 29, 30, 31, 32, 33, 35,
36, 37, 38, 39, B = (5, 26, 9, 17, 15, 18, 16, 19, 12, 2, 21, 22, 25, 34, 3, 4).
   An SOA<sub>3</sub>(81, 9^{17}) with A_2(D) = 68: A = (9, 10, 12, 23, 24, 25, 26, 27, 28, 29, 32, 33, 34,
35, 36, 39, 40, B = (4, 6, 7, 37, 20, 18, 8, 11, 30, 14, 7, 38, 21, 11, 13, 22, 22).
   An SOA<sub>3</sub>(81, 9<sup>18</sup>) with A_2(D) = 84: A = (4, 9, 10, 11, 12, 23, 24, 25, 26, 27, 29, 30, 31,
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33, 34, 35, 36, 37), B = (21, 32, 32, 3, 8, 39, 19, 21, 20, 15, 16, 17, 17, 38, 40, 14, 19, 39). An SOA₃(81, 9¹⁹) with $A_2(D) = 102$: A = (4, 9, 11, 12, 13, 18, 23, 24, 26, 27, 29, 31, 32, 33, 34, 35, 36, 37, 40), <math>B = (15, 15, 25, 3, 7, 16, 2, 6, 5, 38, 16, 25, 8, 15, 7, 39, 10, 19, 3). An SOA₃(81, 9²⁰) with $A_2(D) = 126$: A = (4, 9, 10, 11, 18, 23, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 30, 40), <math>B = (12, 2, 10, 13, 21, 2, 16, 5, 7, 15, 2, 17, 28, 33, 21, 10, 38, 30, 31, 32, 34, 35, 36, 37, 30, 40), <math>B = (12, 2, 10, 13, 21, 2, 16, 5, 7, 15, 2, 17, 28, 33, 21, 10, 38, 30, 31, 32, 34, 35, 36, 37, 30, 40)

32, 34, 35, 36, 37, 39, 40), B = (12, 2, 19, 13, 21, 2, 16, 5, 7, 15, 2, 17, 38, 33, 21, 19, 38, 20, 13, 3).

 6, 20, 19, 3).

An SOA₃(81, 9²²) with $A_2(D) = 190$: A = (4, 9, 10, 11, 12, 13, 18, 23, 24, 26, 28, 29, 30, 31, 32, 33, 34, 35, 36, 38, 39, 40), <math>B = (2, 8, 1, 20, 27, 7, 25, 21, 20, 22, 14, 25, 17, 17, 15, 27, 7, 22, 22, 19, 22, 25).

An SOA₃(81, 9²³) with $A_2(D) = 234$: A = (4, 9, 10, 11, 13, 18, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37, 38, 39, 40), <math>B = (7, 2, 21, 2, 7, 15, 2, 20, 5, 5, 22, 14, 8, 3, 17, 14, 6, 14, 12, 1, 15, 19, 1).

An SOA₃(81, 9²⁴) with $A_2(D) = 284$: A = (4, 9, 10, 11, 12, 18, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40), <math>B = (3, 2, 5, 13, 3, 2, 22, 15, 5, 22, 7, 1, 2, 14, 16, 5, 14, 21, 13, 16, 1, 2, 22, 21).

An SOA₃(81, 9²⁵) with $A_2(D) = 330$: A = (4, 9, 10, 11, 12, 13, 18, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40), <math>B = (3, 2, 5, 5, 8, 8, 17, 2, 5, 21, 5, 22, 14, 16, 17, 16, 19, 14, 21, 8, 6, 20, 19, 22, 22).