

Some tables for: Three variable full orthogonal designs of order 56

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There are 261 theoretical possible types for three variable full orthogonal designs of order 56. We found them all using amicable sets, doubling and negacyclic matrices.

Table 3 contains 81 amicable sets, 61 of which are special, which can be used to generate amicable sets for all 209 triples found in Table 5. Each special sets is marked with an asterisk.

Table 5 contains 209 amicable sets for the triples that were found via amicability. The sets given are not necessarily ones found by collapsing variables from OD's in Table 3, as we looked for the largest number of sets which are "special" from the data our programs generated. We found special amicable sets for 194 of them, leaving just 15 where no special matching is known. Each special sets is marked with an asterisk.

In addition to these we found 15 via doubling.

Table 4 contains 82 sets for triples that were found using negacyclic matrices. These include the 37 triples which we could not find by amicable sets or by doubling.

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Table 3: Amicable sets for given OD of order 56

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
$(4_4, 10_4)^*$	$aebeff\bar{f}$	$cgdghh\bar{h}$	$a\bar{e}b\bar{e}ff\bar{f}$	$c\bar{g}d\bar{g}hh\bar{h}$	$a\bar{f}b\bar{f}e\bar{e}e$	$c\bar{h}d\bar{h}gg\bar{g}$	$a\bar{f}b\bar{f}e\bar{e}e$	$c\bar{h}d\bar{h}gg\bar{g}$
$(7_8)^*$	$\bar{c}ccacbd$	$\bar{g}ggegfh$	$\bar{a}a\bar{a}c\bar{a}d\bar{b}$	$\bar{e}\bar{e}g\bar{e}h\bar{f}$	$b\bar{b}b\bar{d}b\bar{c}a$	$h\bar{h}h\bar{f}h\bar{e}g$	$\bar{d}d\bar{d}b\bar{d}a\bar{c}$	$f\bar{f}f\bar{h}f\bar{g}\bar{e}$
$(1_2, 2_2, 25_2)^*$	$ce\bar{e}\bar{e}\bar{e}\bar{e}$	$d\bar{f}f\bar{f}f\bar{f}$	$ae\bar{e}\bar{e}\bar{e}\bar{e}$	$f\bar{f}f\bar{f}f\bar{f}$	$ce\bar{e}\bar{e}\bar{e}\bar{e}$	$d\bar{f}f\bar{f}f\bar{f}$	$\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$b\bar{f}f\bar{f}f\bar{f}$
$(2_2, 8_2, 18_2)^*$	$\bar{c}e\bar{e}cecc$	$\bar{d}\bar{f}f\bar{d}f\bar{d}$	$ce\bar{e}\bar{c}\bar{e}\bar{c}$	$d\bar{f}f\bar{d}f\bar{d}$	$ae\bar{e}\bar{e}\bar{e}\bar{e}$	$b\bar{f}f\bar{f}f\bar{f}$	$ae\bar{e}\bar{e}\bar{e}\bar{e}$	$b\bar{f}f\bar{f}f\bar{f}$
$(4_4, 8, 32)^*$	$f\bar{e}\bar{f}f\bar{b}fa$	$f\bar{e}\bar{f}d\bar{f}c$	$f\bar{e}\bar{f}f\bar{b}fa$	$f\bar{e}\bar{f}d\bar{f}c$	$f\bar{e}\bar{f}f\bar{b}fa$	$f\bar{e}\bar{f}d\bar{f}c$	$f\bar{e}\bar{f}f\bar{b}fa$	$f\bar{e}\bar{f}d\bar{f}c$
$(1_3, 25, 28)^*$	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$
$(1_2, 2, 26_2)^*$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$d\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{e}\bar{c}\bar{e}\bar{e}\bar{e}\bar{e}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$e\bar{e}c\bar{e}\bar{e}\bar{e}$
$(1, 3, 8, 19, 25)^*$	$bee\bar{e}\bar{e}\bar{e}\bar{e}$	$\bar{c}\bar{d}\bar{d}c\bar{d}c\bar{c}$	$bee\bar{e}\bar{e}\bar{e}\bar{e}$	$c\bar{d}\bar{d}c\bar{d}c\bar{c}$	$bee\bar{e}\bar{e}\bar{e}\bar{e}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(1, 3, 13, 14, 25)^*$	$bee\bar{e}\bar{e}\bar{e}\bar{e}$	$\bar{c}\bar{d}\bar{d}c\bar{d}c\bar{c}$	$bee\bar{e}\bar{e}\bar{e}\bar{e}$	$d\bar{c}\bar{c}\bar{d}c\bar{d}\bar{d}$	$bee\bar{e}\bar{e}\bar{e}\bar{e}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
$(3, 4, 8, 16, 25)^*$	$d\bar{c}\bar{d}\bar{d}c\bar{d}b$	$\bar{e}\bar{e}\bar{e}\bar{e}ea$	$d\bar{c}\bar{d}\bar{d}c\bar{d}b$	$\bar{e}\bar{e}\bar{e}\bar{e}ae$	$d\bar{c}\bar{d}\bar{d}c\bar{d}b$	$\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$	$d\bar{c}\bar{d}\bar{d}c\bar{d}b$	$\bar{a}\bar{e}\bar{e}\bar{e}\bar{e}\bar{e}$
$(4, 7_2, 14, 24)^*$	$e\bar{e}\bar{e}ea\bar{e}$	$\bar{c}\bar{c}cb\bar{d}b\bar{d}$	$e\bar{e}\bar{e}\bar{a}\bar{e}\bar{e}$	$\bar{d}\bar{d}\bar{d}b\bar{d}\bar{c}$	$e\bar{e}\bar{e}a\bar{a}\bar{e}$	$\bar{d}\bar{d}\bar{d}c\bar{d}b$	$e\bar{e}\bar{e}a\bar{a}\bar{e}$	$b\bar{b}b\bar{c}\bar{d}\bar{c}\bar{d}$
$(1, 1, 18, 36)$	$\bar{d}\bar{c}\bar{c}\bar{d}c\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{d}c\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}b\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(1, 2, 4, 49)$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}c\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}c\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}c\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}c\bar{d}\bar{d}$
$(1, 2, 8, 45)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{d}\bar{d}c\bar{d}c\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{d}\bar{d}c\bar{d}\bar{c}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(1, 2, 13, 40)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{d}\bar{d}c\bar{d}c\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{d}\bar{c}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
$(1, 2, 14, 39)$	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{c}\bar{c}\bar{d}\bar{c}\bar{d}\bar{d}$	$\bar{c}\bar{d}\bar{d}c\bar{d}c\bar{c}$
$(1, 2, 18, 35)$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{c}\bar{c}\bar{d}c\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{d}c\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
$(1, 2, 19, 34)$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{c}\bar{d}c\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{d}c\bar{d}\bar{d}$
$(1, 3, 24, 28)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
$(1, 5, 23, 27)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{b}\bar{c}\bar{c}\bar{c}\bar{b}$
$(1, 6, 21, 28)^*$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(1, 7, 21, 27)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{b}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{b}\bar{c}$
$(1, 8, 20, 27)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{b}\bar{b}\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}\bar{c}\bar{c}\bar{b}$
$(1, 9, 18, 28)^*$	$\bar{b}\bar{c}\bar{b}c\bar{b}b$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{b}c\bar{b}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}a$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{e}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(1, 9, 19, 27)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$
$(1, 10, 18, 27)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{b}\bar{c}\bar{b}\bar{b}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{b}\bar{c}\bar{c}\bar{c}\bar{b}$
$(1, 14, 14, 27)$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$d\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{b}\bar{b}$	$\bar{c}\bar{b}\bar{b}c\bar{b}\bar{c}$
$(2, 2, 14, 38)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{c}$	$c\bar{c}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{d}c\bar{d}\bar{d}\bar{d}$	$d\bar{c}\bar{c}\bar{d}\bar{d}\bar{c}$	$c\bar{c}\bar{d}\bar{d}\bar{c}\bar{d}$	$d\bar{c}\bar{d}\bar{d}\bar{d}\bar{b}$	$c\bar{c}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{c}$
$(2, 3, 3, 48)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$d\bar{c}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}c$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(2, 4, 12, 38)$	$\bar{c}\bar{d}\bar{d}c\bar{d}c$	$c\bar{d}\bar{d}c\bar{d}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}b\bar{d}c$	$\bar{d}\bar{d}\bar{d}b\bar{d}\bar{c}$	$\bar{d}\bar{d}\bar{d}b\bar{d}\bar{c}$	$\bar{d}\bar{d}\bar{d}b\bar{d}\bar{c}$
$(2, 4, 22, 28)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}b\bar{e}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}a\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}c\bar{c}b\bar{a}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$
$(2, 4, 24, 26)^*$	$c\bar{c}b\bar{e}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}\bar{e}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{a}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{b}$	$\bar{a}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(2, 5, 23, 26)$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}\bar{b}\bar{c}\bar{e}\bar{c}\bar{b}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{b}\bar{e}\bar{b}\bar{c}\bar{e}$	$c\bar{c}\bar{c}\bar{e}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{e}\bar{c}\bar{c}\bar{c}$
$(2, 6, 6, 42)^*$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{c}\bar{d}\bar{d}\bar{c}\bar{d}$	$b\bar{b}\bar{d}\bar{d}b\bar{d}$	$c\bar{c}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}$
$(2, 6, 12, 36)^*$	$\bar{d}\bar{c}\bar{e}\bar{d}\bar{d}\bar{a}$	$\bar{d}\bar{c}\bar{e}\bar{d}\bar{d}\bar{a}$	$d\bar{b}\bar{c}\bar{e}\bar{d}\bar{d}$	$d\bar{b}\bar{c}\bar{e}\bar{d}\bar{d}$	$d\bar{c}\bar{a}b\bar{d}\bar{d}$	$d\bar{c}\bar{a}b\bar{d}\bar{d}$	$c\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}$
$(2, 6, 22, 26)^*$	$\bar{c}\bar{b}\bar{b}\bar{e}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{a}$	$b\bar{e}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{a}\bar{a}\bar{d}\bar{d}$
$(2, 7, 19, 28)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$c\bar{e}\bar{b}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{c}\bar{e}\bar{b}\bar{b}$
$(2, 7, 21, 26)^*$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{e}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{a}$	$b\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(2, 8, 14, 32)^*$	$\bar{b}\bar{d}\bar{d}b\bar{d}\bar{b}$	$\bar{d}\bar{c}\bar{d}c\bar{d}\bar{d}$	$b\bar{d}\bar{d}b\bar{d}\bar{b}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{d}\bar{d}c\bar{d}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
$(2, 9, 9, 36)^*$	$\bar{b}\bar{d}\bar{d}b\bar{d}\bar{b}$	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}b\bar{d}\bar{b}$	$c\bar{d}\bar{d}c\bar{d}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{d}\bar{d}c\bar{d}c\bar{c}$
$(2, 9, 17, 28)^*$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{c}\bar{c}\bar{b}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{b}\bar{c}\bar{b}\bar{c}\bar{b}$

Table 3: Continued

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
(2, 9, 19, 26)*	$bccc\bar{e}b\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}c\bar{b}c\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{b}\bar{c}c\bar{b}c$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{a}$	$b\bar{b}c\bar{c}\bar{c}c$	$\bar{a}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(2, 13, 13, 28)*	$\bar{b}d\bar{b}d\bar{b}b$	$dcc\bar{c}\bar{c}\bar{c}$	$\bar{d}b\bar{b}d\bar{b}d$	$\bar{d}\bar{c}c\bar{d}\bar{c}d$	$d\bar{b}b\bar{b}b\bar{b}$	$\bar{c}d\bar{d}c\bar{d}c$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(2, 14, 14, 26)*	$c\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{b}b\bar{b}b\bar{b}$	$\bar{d}a\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{b}\bar{c}b$	$\bar{b}d\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}c$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{b}c\bar{b}c$
(2, 14, 18, 22)	$\bar{d}\bar{c}c\bar{d}c\bar{d}$	$\bar{b}\bar{d}\bar{b}d\bar{b}b$	$dcc\bar{d}c\bar{d}$	$b\bar{b}b\bar{b}b\bar{b}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}b\bar{b}d\bar{b}d$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(3, 6, 19, 28)*	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}a\bar{b}\bar{b}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{c}\bar{c}\bar{c}\bar{b}c$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{a}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{b}\bar{c}\bar{c}\bar{c}$
(3, 7, 18, 28)*	$\bar{c}b\bar{b}c\bar{c}b\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}a\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(3, 7, 21, 25)*	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{b}\bar{c}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}b\bar{c}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}b\bar{b}c\bar{b}c$
(3, 8, 14, 31)	$\bar{b}d\bar{b}d\bar{b}b$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}d\bar{b}d\bar{b}\bar{b}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}d\bar{d}c\bar{d}c$	$\bar{d}\bar{c}\bar{d}\bar{d}\bar{c}d$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}d\bar{d}\bar{d}\bar{d}\bar{d}$
(3, 11, 17, 25)*	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}\bar{c}b\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{b}c\bar{c}b$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}\bar{c}b\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}b\bar{b}\bar{c}\bar{c}\bar{c}$
(4, 6, 18, 28)*	$\bar{c}b\bar{b}c\bar{c}a\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}a\bar{b}\bar{b}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}b\bar{c}a$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(4, 9, 19, 24)*	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$b\bar{c}\bar{c}\bar{c}b\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{b}\bar{b}\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}b\bar{b}\bar{c}\bar{c}\bar{c}$
(4, 10, 16, 26)	$\bar{d}a\bar{d}\bar{d}c\bar{d}c$	$\bar{b}\bar{d}\bar{d}\bar{c}b\bar{c}$	$\bar{d}a\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{b}\bar{d}\bar{d}c\bar{b}\bar{c}$	$\bar{d}a\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{d}a\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{c}\bar{d}\bar{c}d\bar{b}b$	$\bar{c}d\bar{c}d\bar{b}b$
(4, 13, 13, 26)*	$\bar{b}d\bar{b}d\bar{b}b$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}b\bar{b}d\bar{b}d$	$\bar{a}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{b}b\bar{b}b\bar{b}$	$\bar{c}d\bar{d}c\bar{d}c$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{d}c\bar{c}d\bar{c}d$
(5, 5, 23, 23)*	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}a\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{d}\bar{b}\bar{d}\bar{d}\bar{d}$	$a\bar{c}a\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{b}\bar{b}d\bar{b}d$
(5, 9, 14, 28)*	$a\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{b}\bar{c}a\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}b\bar{b}\bar{b}\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{a}\bar{c}a\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(5, 9, 19, 23)*	$\bar{c}b\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}b\bar{b}\bar{b}$	$\bar{a}\bar{a}a\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}b\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}b\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{a}\bar{d}\bar{a}\bar{d}\bar{d}$
(6, 6, 22, 22)*	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{a}\bar{c}\bar{a}\bar{c}\bar{c}$	$\bar{b}\bar{b}d\bar{b}d\bar{d}$	$a\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}d\bar{d}\bar{d}\bar{d}$
(6, 7, 7, 36)*	$\bar{d}b\bar{b}d\bar{d}\bar{b}\bar{d}$	$\bar{d}\bar{c}\bar{d}d\bar{c}\bar{d}$	$d\bar{a}b\bar{b}d\bar{d}$	$d\bar{a}\bar{c}\bar{d}\bar{d}\bar{d}$	$\bar{d}b\bar{d}a\bar{d}\bar{d}$	$\bar{d}\bar{d}\bar{c}a\bar{d}\bar{d}$	$b\bar{a}d\bar{d}\bar{d}\bar{d}$	$\bar{d}\bar{a}\bar{d}\bar{d}\bar{d}\bar{d}$
(6, 12, 16, 22)*	$\bar{c}b\bar{c}c\bar{b}c\bar{b}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}\bar{c}b\bar{c}$	$\bar{d}a\bar{a}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}b\bar{c}b$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}b\bar{c}\bar{c}b\bar{c}$	$\bar{d}\bar{a}\bar{a}\bar{d}\bar{d}\bar{d}$
(7, 7, 16, 26)*	$\bar{d}\bar{c}\bar{a}a\bar{c}\bar{d}$	$\bar{d}\bar{c}b\bar{d}\bar{b}\bar{c}\bar{d}$	$\bar{a}\bar{d}\bar{c}\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{b}\bar{d}\bar{c}\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{a}\bar{d}\bar{c}\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{b}\bar{d}\bar{c}\bar{d}\bar{d}\bar{c}\bar{d}$	$\bar{d}\bar{c}a\bar{d}\bar{a}\bar{c}\bar{d}$	$\bar{d}\bar{c}\bar{b}b\bar{c}\bar{d}$
(7, 8, 20, 21)*	$\bar{c}\bar{c}\bar{c}b\bar{c}b$	$\bar{d}\bar{d}\bar{d}\bar{a}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{b}\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{a}\bar{d}\bar{d}$	$\bar{c}\bar{c}\bar{c}b\bar{c}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{a}\bar{d}$	$\bar{c}\bar{c}\bar{c}\bar{b}\bar{c}b$	$\bar{a}\bar{a}a\bar{d}\bar{d}\bar{d}$
(9, 9, 10, 28)*	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}a\bar{a}\bar{c}\bar{a}\bar{a}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}b\bar{a}\bar{b}a$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{b}b\bar{b}\bar{a}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{c}b\bar{b}\bar{b}\bar{c}\bar{b}$
(9, 9, 19, 19)*	$\bar{a}\bar{c}c\bar{a}\bar{c}a$	$\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$a\bar{c}\bar{c}\bar{a}\bar{c}\bar{a}$	$\bar{b}\bar{d}\bar{b}d\bar{b}\bar{b}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{d}\bar{b}d\bar{b}b$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(9, 14, 14, 19)*	$\bar{a}\bar{d}\bar{d}a\bar{d}a$	$\bar{b}\bar{c}\bar{c}b\bar{c}b\bar{b}$	$a\bar{d}\bar{d}\bar{a}\bar{d}\bar{a}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$a\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$	$\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(11, 11, 17, 17)*	$\bar{a}\bar{c}\bar{c}a\bar{a}\bar{c}$	$\bar{b}\bar{d}\bar{d}\bar{d}\bar{b}d$	$\bar{c}\bar{c}c\bar{a}\bar{c}\bar{c}$	$\bar{b}\bar{d}\bar{b}\bar{b}b\bar{d}$	$\bar{a}\bar{c}\bar{c}\bar{c}\bar{a}\bar{c}$	$\bar{b}\bar{d}\bar{d}\bar{b}\bar{b}d$	$\bar{a}\bar{a}a\bar{c}\bar{a}\bar{c}$	$\bar{d}\bar{b}\bar{d}\bar{d}\bar{d}\bar{d}$
(12, 12, 16, 16)*	$\bar{c}a\bar{c}\bar{c}a\bar{c}a$	$\bar{b}\bar{d}\bar{b}d\bar{b}d$	$\bar{c}a\bar{c}\bar{c}\bar{a}\bar{c}\bar{a}$	$\bar{d}\bar{b}d\bar{b}d\bar{b}$	$\bar{a}\bar{c}\bar{a}\bar{c}\bar{a}\bar{c}$	$\bar{d}\bar{b}d\bar{b}d\bar{b}$	$\bar{c}a\bar{c}\bar{c}\bar{a}\bar{c}a$	$\bar{d}\bar{b}d\bar{b}d\bar{b}$
(13, 13, 15, 15)*	$\bar{a}\bar{c}c\bar{a}\bar{c}a$	$\bar{d}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{a}\bar{c}\bar{a}\bar{c}\bar{c}$	$\bar{d}\bar{b}\bar{b}d\bar{b}d$	$\bar{c}a\bar{a}\bar{a}\bar{a}\bar{a}$	$\bar{b}\bar{d}\bar{b}d\bar{b}b$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(13, 14, 14, 15)*	$\bar{c}b\bar{b}c\bar{b}c$	$\bar{d}a\bar{a}\bar{a}\bar{a}\bar{a}$	$\bar{b}\bar{c}\bar{c}b\bar{c}b\bar{b}$	$\bar{a}\bar{d}\bar{d}\bar{a}\bar{d}\bar{a}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{d}a\bar{a}\bar{d}\bar{a}\bar{d}$	$\bar{c}b\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}\bar{d}$
(2, 11, 43)	$\bar{b}\bar{c}c\bar{b}c\bar{b}b$	$\bar{b}\bar{c}\bar{c}b\bar{c}\bar{b}\bar{b}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(4, 5, 47)	$\bar{c}b\bar{c}\bar{c}a\bar{c}c$	$\bar{c}b\bar{c}\bar{c}a\bar{c}\bar{c}$	$\bar{c}b\bar{c}\bar{c}a\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}b\bar{c}\bar{c}a\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(4, 23, 29)	$\bar{b}\bar{b}\bar{b}b\bar{a}b\bar{c}$	$\bar{b}\bar{b}\bar{b}b\bar{a}\bar{b}\bar{c}$	$\bar{b}\bar{b}\bar{b}b\bar{a}\bar{b}\bar{c}$	$\bar{b}\bar{b}\bar{b}b\bar{a}\bar{b}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(5, 6, 45)	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}b\bar{b}\bar{b}\bar{a}\bar{c}\bar{a}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{a}\bar{c}\bar{c}\bar{c}\bar{c}\bar{a}$	$a\bar{b}\bar{c}b\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(5, 8, 43)	$\bar{b}\bar{c}c\bar{b}c\bar{b}b$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}c\bar{b}\bar{c}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{a}\bar{c}\bar{a}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{a}\bar{a}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(6, 9, 41)*	$\bar{c}b\bar{b}c\bar{c}a\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}b\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{c}a\bar{a}\bar{a}\bar{c}\bar{c}\bar{c}$	$\bar{c}b\bar{c}b\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{a}\bar{c}\bar{a}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(6, 20, 30)*	$a\bar{b}\bar{b}b\bar{c}b\bar{c}$	$a\bar{b}\bar{b}b\bar{c}b\bar{c}$	$a\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$a\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$a\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$a\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$
(8, 11, 37)	$\bar{a}\bar{c}c\bar{a}\bar{c}a$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$a\bar{c}\bar{c}\bar{a}\bar{c}\bar{a}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}b\bar{c}\bar{b}$	$\bar{b}\bar{c}c\bar{b}c\bar{b}$
(10, 13, 33)	$\bar{b}c\bar{b}c\bar{a}\bar{a}\bar{a}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{a}\bar{a}\bar{a}$	$\bar{b}\bar{a}\bar{b}\bar{a}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{a}\bar{b}\bar{a}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$
(10, 15, 31)	$\bar{c}b\bar{c}b\bar{a}\bar{a}\bar{a}$	$\bar{c}\bar{b}\bar{c}\bar{b}\bar{a}\bar{a}\bar{a}$	$\bar{c}\bar{a}\bar{c}\bar{a}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{a}\bar{c}\bar{a}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$
(13, 21, 22)	$\bar{c}b\bar{b}c\bar{b}c\bar{c}$	$\bar{b}\bar{a}\bar{a}\bar{a}\bar{a}\bar{a}$	$\bar{c}b\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}b\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{a}a\bar{c}\bar{a}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{a}\bar{c}\bar{c}\bar{a}\bar{c}\bar{a}$
(15, 18, 23)*	$\bar{c}b\bar{b}c\bar{b}c\bar{c}$	$\bar{c}\bar{a}\bar{a}\bar{a}\bar{a}\bar{a}$	$\bar{c}b\bar{b}\bar{c}\bar{b}\bar{c}\bar{c}$	$\bar{c}\bar{a}a\bar{c}\bar{a}\bar{c}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$a\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}b\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{a}\bar{c}\bar{c}\bar{a}\bar{c}\bar{a}$

Table 4: Complementary negacyclic matrices for given OD of order 56 in 3 variables

type	A_1	A_2	A_3	A_4
(1, 9, 46)	$\overline{cccccccccccc}$	$\overline{bcbbcccccc}$	$\overline{ccccccccccbc}$	$\overline{accccccccccb}$
(1, 23, 32)	$\overline{acccccccccc}$	$\overline{bbcbcbccbb}$	$\overline{bbccbbbbbcc}$	$\overline{bbbbccccbbcb}$
(1, 24, 31)	$\overline{acccccccccc}$	$\overline{bbcbcbccbb}$	$\overline{bbccbbbbbcc}$	$\overline{bbbbccccbbcb}$
(2, 5, 49)	$\overline{acbbcccccc}$	$\overline{accccccccc}$	$\overline{bccccccccc}$	$\overline{bccccccccc}$
(2, 7, 47)	$\overline{bbcccccccc}$	$\overline{bccbbcccc}$	$\overline{acbbcccccc}$	$\overline{accccccccc}$
(2, 11, 43)	$\overline{bbccccccbc}$	$\overline{bccbbcccc}$	$\overline{acbbcccccc}$	$\overline{accccccccc}$
(2, 23, 31)	$\overline{abcccccccc}$	$\overline{bbccbbbbb}$	$\overline{bbcbccbbbc}$	$\overline{abcbcbcbcb}$
(3, 4, 49)	$\overline{bbcccccccc}$	$\overline{bcccccccc}$	$\overline{accccccccc}$	$\overline{accccccccc}$
(3, 6, 47)	$\overline{acbbcccccc}$	$\overline{accccccccc}$	$\overline{bbcccccccc}$	$\overline{acbbcccccc}$
(3, 7, 46)	$\overline{acccccccab}$	$\overline{accccccccb}$	$\overline{bbcccccccc}$	$\overline{bbcccccccc}$
(3, 10, 43)	$\overline{bbccccccbc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(3, 11, 42)	$\overline{bbccccccbc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(3, 21, 32)	$\overline{bbcccccccc}$	$\overline{abcbcbbbb}$	$\overline{acbbbbbbb}$	$\overline{acbbcccccc}$
(3, 22, 31)	$\overline{acbbcccccc}$	$\overline{acbbbbbbb}$	$\overline{abbbcccccc}$	$\overline{bbcbcbcbcb}$
(3, 24, 29)	$\overline{abbbcccccc}$	$\overline{bbcbcccccc}$	$\overline{acbbbbbbb}$	$\overline{abbbcbcbcb}$
(4, 5, 47)	$\overline{acccccccab}$	$\overline{bcccccccc}$	$\overline{accccccccc}$	$\overline{accccccccc}$
(4, 11, 41)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(4, 15, 37)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(4, 23, 29)	$\overline{bbcbcccccc}$	$\overline{abcbcccccc}$	$\overline{acbbcccccc}$	$\overline{bbcbcccccc}$
(5, 6, 45)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{bbcbcccccc}$
(5, 7, 44)	$\overline{abcbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 8, 43)	$\overline{abcbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 9, 42)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 11, 40)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 13, 38)	$\overline{abbbcccccc}$	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 14, 37)	$\overline{acbbcccccc}$	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{abbbcccccc}$
(5, 16, 35)	$\overline{abbbcccccc}$	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 17, 34)	$\overline{acbbcccccc}$	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 19, 32)	$\overline{acbbcccccc}$	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 20, 31)	$\overline{acbbcccccc}$	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(5, 21, 30)	$\overline{bbcbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{abbbcccccc}$
(5, 22, 29)	$\overline{abcbcccccc}$	$\overline{aaacbbcccc}$	$\overline{bbcbcccccc}$	$\overline{acbbcccccc}$
(5, 24, 27)	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(6, 9, 41)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{aaacbbcccc}$	$\overline{acbbcccccc}$
(6, 11, 39)	$\overline{abbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(6, 16, 34)	$\overline{aaabbbcccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbbbcccc}$
(6, 17, 33)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(6, 21, 29)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(6, 23, 27)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(7, 8, 41)	$\overline{abcbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$
(7, 9, 40)	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$	$\overline{acbbcccccc}$

Table 4: Continued

[illegible]

Table 5: Amicable sets for given OD of order 56 in 3 variables

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
(1, 1, 54)*	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$cc\bar{c}cc\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}cccc\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$c\bar{c}\bar{c}\bar{c}\bar{c}c$
(1, 2, 53)*	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$cc\bar{c}cc\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}cccc\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$c\bar{c}\bar{c}\bar{c}\bar{c}c$
(1, 3, 52)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$
(1, 4, 51)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$
(1, 5, 50)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$
(1, 6, 49)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcccc\bar{c}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}c$	$b\bar{b}cc\bar{b}cc$	$\bar{c}\bar{c}ccccc$	$b\bar{b}c\bar{c}\bar{c}cc$	$\bar{c}cccccc$
(1, 7, 48)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccc\bar{c}\bar{b}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccc\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{c}cccccc$	$\bar{c}c\bar{c}\bar{c}b\bar{c}$
(1, 8, 47)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}ccbcb\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 9, 46)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{c}\bar{b}\bar{c}cb$	$c\bar{c}\bar{c}cccc$	$b\bar{b}\bar{b}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}b\bar{c}\bar{c}\bar{c}$
(1, 10, 45)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{c}b\bar{c}\bar{c}$	$c\bar{c}\bar{c}cccc$	$c\bar{b}\bar{c}bb\bar{b}\bar{b}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}cc\bar{c}\bar{c}\bar{b}$
(1, 11, 44)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}ccbcb\bar{b}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 13, 42)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}ccbcb\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$
(1, 14, 41)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 15, 40)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{b}\bar{c}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 16, 39)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}ccbcb\bar{b}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$
(1, 17, 38)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}cccccc$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 18, 37)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$cc\bar{b}\bar{c}\bar{b}\bar{b}$	$c\bar{c}\bar{c}cccc$	$b\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$bcb\bar{b}\bar{b}\bar{b}\bar{c}$
(1, 19, 36)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}cccccc$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$
(1, 20, 35)*	$\bar{c}bbcbcc$	$\bar{c}cc\bar{b}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{c}\bar{c}\bar{b}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$cccc\bar{c}\bar{c}\bar{c}$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 21, 34)*	$\bar{c}bbcbcc$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{c}\bar{c}cccc$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 22, 33)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}cccccc$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$
(1, 23, 32)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{b}\bar{c}\bar{b}\bar{b}$	$c\bar{c}\bar{c}cccc$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$bcb\bar{b}\bar{b}\bar{b}\bar{c}$
(1, 24, 31)*	$cc\bar{c}\bar{c}ccc$	$b\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{c}\bar{b}\bar{b}$	$cc\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{a}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(1, 25, 30)*	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}cccccc$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 26, 29)*	$abb\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}cc\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{c}cccc\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(1, 27, 28)*	$abb\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}cc\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 2, 52)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$
(2, 3, 51)*	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$
(2, 4, 50)*	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$
(2, 5, 49)*	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}cc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}abc\bar{c}$	$c\bar{c}\bar{c}cccc$	$c\bar{c}\bar{c}cc\bar{b}\bar{a}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}b\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 6, 48)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}cccc$	$\bar{c}\bar{c}cccc\bar{c}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 7, 47)*	$cccc\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{b}\bar{c}$	$\bar{c}ccc\bar{c}\bar{c}\bar{c}$	$\bar{a}cb\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{c}b\bar{b}c\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}\bar{b}\bar{c}\bar{c}\bar{b}\bar{b}\bar{c}$
(2, 8, 46)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}ccbcb\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 9, 45)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}ccbcb\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 10, 44)*	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}\bar{b}$	$\bar{c}cccccc$
(2, 11, 43)	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}cccc$	$c\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 12, 42)*	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$ac\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$bcccc\bar{c}\bar{c}$	$bcccc\bar{c}\bar{c}$	$b\bar{b}cc\bar{b}cc$	$b\bar{b}cc\bar{b}cc$	$b\bar{b}c\bar{c}\bar{c}\bar{c}\bar{c}$	$b\bar{b}c\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 13, 41)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(2, 14, 40)*	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(2, 15, 39)	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{c}\bar{c}\bar{c}\bar{c}$	$\bar{c}cccccc$	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{b}cc$	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$
(2, 16, 38)*	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$	$\bar{b}cc\bar{c}b\bar{b}\bar{b}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$bcc\bar{b}\bar{c}\bar{c}\bar{b}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$acc\bar{c}\bar{c}\bar{c}\bar{c}$	$ccc\bar{c}\bar{c}\bar{c}\bar{c}$
(2, 17, 37)	$cc\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$cc\bar{c}cccc$	$abb\bar{b}\bar{b}\bar{b}\bar{b}$	$cc\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}$	$bcc\bar{b}\bar{b}c\bar{b}$	$c\bar{c}\bar{c}cccc$	$\bar{b}c\bar{b}\bar{b}\bar{b}\bar{b}\bar{c}$	$a\bar{c}\bar{b}\bar{c}b\bar{c}b\bar{c}$

Table 5: Continued

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
(2, 18, 36)*	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$cbb\bar{b}\bar{b}\bar{b}\bar{b}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}\bar{e}$	$\bar{c}cccc\bar{c}$	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{b}\bar{e}\bar{c}$
(2, 19, 35)*	$cbb\bar{b}\bar{b}\bar{c}\bar{b}$	$\bar{c}\bar{c}\bar{c}cccc$	$\bar{c}bcb\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}cccc\bar{c}$	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{e}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{a}$	$c\bar{c}b\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{a}\bar{c}\bar{c}\bar{e}\bar{c}\bar{c}\bar{e}$
(2, 20, 34)*	$\bar{c}cccccc$	$\bar{c}\bar{b}bcbcc$	$ccc\bar{c}\bar{e}\bar{c}\bar{c}$	$c\bar{b}\bar{b}\bar{c}\bar{b}\bar{c}\bar{e}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(2, 21, 33)*	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$cccc\bar{c}\bar{e}\bar{c}$	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{e}$	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{e}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{a}$	$c\bar{c}b\bar{b}\bar{b}\bar{b}\bar{b}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}$
(2, 22, 32)*	$\bar{b}\bar{c}cbcb\bar{b}$	$\bar{c}\bar{b}bcbcc$	$\bar{b}\bar{c}\bar{e}\bar{c}\bar{b}\bar{c}\bar{b}\bar{b}$	$b\bar{c}\bar{c}\bar{b}\bar{c}\bar{b}\bar{b}$	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}$	$ccc\bar{c}\bar{e}\bar{c}\bar{e}$
(2, 23, 31)	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}\bar{c}$	$ccc\bar{c}\bar{e}\bar{c}\bar{e}$	$b\bar{c}\bar{b}\bar{c}\bar{b}\bar{b}\bar{b}$	$cccccc\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(2, 24, 30)*	$b\bar{b}cb\bar{b}\bar{b}\bar{b}$	$cccccc\bar{c}$	$b\bar{b}\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}$	$ca\bar{c}\bar{c}\bar{e}\bar{c}\bar{c}$	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{c}$	$\bar{a}\bar{c}\bar{c}\bar{e}\bar{c}\bar{c}$	$b\bar{b}\bar{c}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{e}\bar{c}\bar{c}$
(2, 25, 29)*	$c\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{e}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}cccc\bar{c}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{e}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{c}$
(2, 26, 28)*	$b\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{e}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}cccc\bar{c}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{e}\bar{c}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{c}$
(2, 27, 27)*	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$ccc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$	$\bar{c}\bar{c}cccc\bar{c}$	$a\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}\bar{b}$
(3, 3, 50)*	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{c}cccc\bar{c}$	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$acc\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{c}cccc\bar{c}$
(3, 4, 49)*	$\bar{c}\bar{c}\bar{c}\bar{e}\bar{c}\bar{c}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{c}\bar{a}$	$\bar{c}\bar{c}\bar{c}\bar{e}\bar{c}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{c}\bar{a}\bar{c}$	$\bar{c}\bar{c}\bar{c}\bar{e}\bar{c}\bar{b}$	$\bar{c}\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{c}\bar{c}\bar{c}\bar{e}\bar{c}\bar{b}$	$\bar{a}\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$
(3, 5, 48)*	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$b\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$a\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{c}\bar{b}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{a}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{c}\bar{b}$	$\bar{a}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{c}$
(3, 6, 47)*	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{e}\bar{c}\bar{a}\bar{b}\bar{b}\bar{e}$	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{a}\bar{c}\bar{e}\bar{c}\bar{e}\bar{b}\bar{e}$	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{b}\bar{a}\bar{c}\bar{e}\bar{c}\bar{e}$	$ccc\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{b}\bar{b}\bar{e}\bar{c}\bar{e}\bar{c}$
(3, 7, 46)*	$\bar{c}\bar{b}\bar{b}\bar{c}\bar{e}\bar{b}\bar{e}$	$\bar{c}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{a}\bar{b}\bar{b}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{c}\bar{b}\bar{a}\bar{e}\bar{a}\bar{c}\bar{e}$	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}$	$\bar{b}\bar{a}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}$	$\bar{c}\bar{e}\bar{c}\bar{e}\bar{c}\bar{e}\bar{c$

Table 5: Continued

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
(4, 14, 38)*	$acc\bar{c}c\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$acc\bar{c}c\bar{c}\bar{c}$	$bcb\bar{c}cb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}cccccc$	$acc\bar{c}c\bar{c}\bar{c}$
(4, 16, 36)*	$\bar{b}ccbcb\bar{b}$	$\bar{b}ccbcb\bar{b}$	$bcb\bar{c}cb\bar{b}$	$bcb\bar{c}cb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$	$acc\bar{c}c\bar{c}\bar{c}$	$acc\bar{c}c\bar{c}\bar{c}$	$acc\bar{c}c\bar{c}\bar{c}$
(4, 18, 34)*	$\bar{c}bbcbcc$	$\bar{c}cccccc$	$cbb\bar{c}b\bar{c}\bar{c}$	$ccc\bar{c}c\bar{c}\bar{c}$	$abb\bar{b}bb\bar{b}$	$\bar{a}cc\bar{c}c\bar{c}\bar{c}$	$abb\bar{b}bb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$
(4, 19, 33)*	$acc\bar{c}c\bar{c}\bar{c}$	$\bar{c}bbcbcc$	$acc\bar{c}c\bar{c}\bar{c}$	$cbb\bar{c}b\bar{c}\bar{c}$	$acc\bar{c}c\bar{c}\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}cccccc$	$abb\bar{b}bb\bar{b}$
(4, 20, 32)*	$cccccc\bar{c}$	$abcb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$a\bar{b}cb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$a\bar{b}\bar{c}bb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$ab\bar{c}bb\bar{b}bb\bar{b}$
(4, 21, 31)*	$cc\bar{c}cac\bar{c}$	$cc\bar{c}bb\bar{b}bb$	$cc\bar{c}c\bar{a}c\bar{c}$	$bb\bar{b}bb\bar{c}bb\bar{b}$	$cc\bar{c}c\bar{a}c\bar{c}$	$\bar{b}bbcbcb\bar{b}$	$c\bar{c}c\bar{c}c\bar{a}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}c$
(4, 22, 30)*	$cc\bar{c}c\bar{c}\bar{c}\bar{c}$	$bb\bar{b}ab\bar{b}bb$	$cc\bar{c}c\bar{c}\bar{c}\bar{c}$	$bb\bar{b}cab\bar{b}\bar{b}$	$c\bar{c}c\bar{c}cccc$	$bb\bar{b}bb\bar{a}c\bar{c}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$b\bar{a}bb\bar{b}bb\bar{b}$
(4, 23, 29)	$bb\bar{b}babc$	$bb\bar{b}b\bar{a}b\bar{c}$	$bb\bar{b}b\bar{a}b\bar{c}$	$bb\bar{b}b\bar{a}b\bar{c}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$b\bar{c}cccccc$	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$
(4, 24, 28)*	$cc\bar{c}cccc$	$bab\bar{b}bb\bar{b}$	$cc\bar{c}c\bar{c}\bar{c}\bar{c}$	$bb\bar{b}ab\bar{b}bb$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$abb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$\bar{a}bb\bar{b}bb\bar{b}$
(4, 25, 27)*	$ccc\bar{c}c\bar{c}\bar{c}$	$abb\bar{b}bb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$ccc\bar{c}c\bar{c}\bar{c}$	$\bar{a}bb\bar{b}bb\bar{b}$	$\bar{c}cccccc$	$\bar{a}bb\bar{b}bb\bar{b}$
(4, 26, 26)*	$acc\bar{c}c\bar{c}\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$acc\bar{c}c\bar{c}\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$ccc\bar{c}c\bar{c}\bar{c}$	$\bar{b}ab\bar{b}bb\bar{b}$	$\bar{c}cccccc$	$bb\bar{b}ab\bar{b}bb$
(5, 5, 46)*	$ac\bar{c}c\bar{c}c\bar{c}$	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$	$a\bar{c}acc\bar{c}\bar{c}$	$\bar{b}cb\bar{c}c\bar{c}\bar{c}$	$a\bar{c}ac\bar{c}c\bar{c}$	$cccc\bar{c}c\bar{c}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$c\bar{c}b\bar{c}b\bar{c}\bar{c}$
(5, 6, 45)	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$cbb\bar{b}a\bar{c}a$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$\bar{a}c\bar{c}c\bar{c}a\bar{c}$	$ab\bar{c}b\bar{c}c\bar{c}$	$ccc\bar{c}c\bar{c}\bar{c}$
(5, 8, 43)	$\bar{b}ccbcb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$bcb\bar{c}cb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$ca\bar{c}ac\bar{c}c$	$c\bar{c}c\bar{c}ca\bar{a}\bar{a}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$
(5, 9, 42)*	$abb\bar{c}ccc$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$ab\bar{c}a\bar{c}b\bar{c}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$bb\bar{b}bb\bar{c}b\bar{c}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$\bar{a}ccac\bar{c}c$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$
(5, 14, 37)*	$a\bar{c}cb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$ac\bar{b}ab\bar{c}b\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$c\bar{c}c\bar{c}b\bar{c}b\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$\bar{a}bbab\bar{b}bb$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$
(5, 19, 32)*	$\bar{b}c\bar{c}bb\bar{b}bb\bar{b}$	$ccc\bar{c}c\bar{c}c\bar{c}$	$bb\bar{b}bc\bar{c}\bar{c}$	$\bar{a}a\bar{a}c\bar{c}c\bar{c}$	$b\bar{c}cb\bar{c}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$ccbb\bar{b}bb\bar{b}$	$\bar{c}a\bar{c}a\bar{c}c\bar{c}$
(5, 23, 28)*	$cc\bar{c}c\bar{c}c\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{b}ab\bar{a}b\bar{b}bb$	$c\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$abb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$bab\bar{b}bb\bar{b}a$
(5, 24, 27)*	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{b}ab\bar{a}b\bar{b}bb$	$c\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$abb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$bab\bar{b}bb\bar{b}a$
(5, 25, 26)*	$abb\bar{b}bb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$	$cbb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$abb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$
(6, 6, 44)*	$cc\bar{c}c\bar{c}c\bar{c}$	$cc\bar{c}c\bar{c}c\bar{c}$	$bcccc\bar{c}\bar{c}$	$acccc\bar{c}\bar{c}$	$b\bar{b}c\bar{c}b\bar{c}c$	$\bar{a}a\bar{c}c\bar{a}c\bar{c}$	$bb\bar{c}c\bar{c}c\bar{c}$	$aac\bar{c}c\bar{c}c$
(6, 7, 43)*	$\bar{c}bb\bar{c}cb\bar{c}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$cab\bar{b}c\bar{c}\bar{c}$	$ca\bar{c}c\bar{c}c\bar{c}$	$cb\bar{c}a\bar{c}c\bar{c}$	$\bar{c}c\bar{c}a\bar{c}c\bar{c}$	$bacc\bar{c}c\bar{c}$	$c\bar{a}ccc\bar{c}\bar{c}$
(6, 8, 42)*	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$	$b\bar{c}c\bar{c}c\bar{c}\bar{c}$	$bcccc\bar{c}\bar{c}$	$acccc\bar{c}\bar{c}$	$b\bar{b}c\bar{c}b\bar{c}c$	$\bar{a}a\bar{c}c\bar{a}c\bar{c}$	$bb\bar{c}c\bar{c}c\bar{c}$	$aac\bar{c}c\bar{c}c$
(6, 9, 41)*	$\bar{c}bb\bar{c}ca\bar{c}$	$ccc\bar{c}c\bar{c}c\bar{c}$	$cbb\bar{b}c\bar{c}\bar{c}$	$ca\bar{a}a\bar{c}c\bar{c}$	$cb\bar{c}b\bar{c}c\bar{c}$	$\bar{c}a\bar{c}a\bar{c}c\bar{c}$	$bb\bar{c}c\bar{c}c\bar{c}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$
(6, 12, 38)	$\bar{b}ccbcb\bar{b}$	$bcb\bar{c}cb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$	$acc\bar{c}c\bar{c}\bar{c}$	$c\bar{c}c\bar{c}ac\bar{b}$	$c\bar{c}c\bar{c}a\bar{c}b\bar{b}$	$c\bar{c}c\bar{c}a\bar{c}b\bar{b}$	$c\bar{c}c\bar{c}a\bar{c}b\bar{b}$
(6, 14, 36)*	$\bar{c}bb\bar{c}cb\bar{c}$	$\bar{c}bb\bar{c}cb\bar{c}$	$cab\bar{b}c\bar{c}\bar{c}$	$cab\bar{b}c\bar{c}\bar{c}$	$cb\bar{c}a\bar{c}c\bar{c}$	$cb\bar{c}a\bar{c}c\bar{c}$	$bacc\bar{c}c\bar{c}$	$bacc\bar{c}c\bar{c}$
(6, 16, 34)*	$b\bar{c}bb\bar{c}bc$	$acccc\bar{c}\bar{c}$	$b\bar{c}bb\bar{c}b\bar{c}$	$caac\bar{c}c\bar{c}$	$\bar{b}c\bar{c}b\bar{c}b\bar{c}$	$ccc\bar{c}c\bar{c}\bar{c}$	$bcb\bar{b}c\bar{c}b\bar{c}$	$\bar{c}a\bar{a}c\bar{c}a\bar{c}$
(6, 18, 32)*	$\bar{b}a\bar{a}bb\bar{c}b\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$b\bar{c}a\bar{a}b\bar{b}bb$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}a\bar{b}c$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$acbb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$
(6, 19, 31)*	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$b\bar{b}b\bar{c}a\bar{a}b\bar{b}$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{c}bb\bar{b}b\bar{a}b$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$bac\bar{b}bb\bar{b}$	$cccc\bar{c}c\bar{c}$	$b\bar{a}ab\bar{b}bb\bar{b}$
(6, 20, 30)*	$abb\bar{b}cb\bar{c}$	$a\bar{b}bb\bar{c}b\bar{c}$	$abb\bar{b}c\bar{c}\bar{c}$	$abb\bar{b}c\bar{c}\bar{c}$	$a\bar{c}b\bar{c}c\bar{c}c$	$a\bar{c}b\bar{c}c\bar{c}c$	$b\bar{c}b\bar{c}c\bar{c}\bar{c}$	$b\bar{c}b\bar{c}c\bar{c}\bar{c}$
(6, 21, 29)*	$cb\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$abb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$a\bar{a}bb\bar{a}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$aab\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$
(6, 22, 28)*	$bb\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$abb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$a\bar{a}bb\bar{a}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$aab\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$
(6, 23, 27)*	$acc\bar{c}c\bar{c}\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{b}ab\bar{a}b\bar{b}bb$	$c\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$abb\bar{b}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$bab\bar{b}bb\bar{b}a$
(6, 24, 26)*	$bbab\bar{b}bb\bar{b}$	$cccc\bar{c}c\bar{c}$	$b\bar{b}ab\bar{b}bb\bar{b}$	$ca\bar{c}c\bar{c}c\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$	$b\bar{b}a\bar{b}bb\bar{b}$	$ccc\bar{c}c\bar{c}\bar{c}$
(6, 25, 25)*	$acc\bar{c}c\bar{c}\bar{c}$	$abb\bar{b}bb\bar{b}$	$acc\bar{c}c\bar{c}\bar{c}$	$bb\bar{b}bb\bar{b}bb$	$acc\bar{c}c\bar{c}\bar{c}$	$\bar{a}bb\bar{b}bb\bar{b}$	$\bar{c}cccccc$	$\bar{a}bb\bar{b}bb\bar{b}$
(7, 7, 42)*	$cc\bar{c}cccc$	$\bar{a}a\bar{a}b\bar{c}b\bar{c}$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{c}c\bar{c}c\bar{b}c\bar{a}$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{c}c\bar{c}c\bar{a}c\bar{b}$	$cc\bar{c}c\bar{c}c\bar{c}$	$\bar{b}bb\bar{a}c\bar{a}c$
(7, 8, 41)*	$cb\bar{c}cbca$	$\bar{c}c\bar{c}ccca$	$cb\bar{c}cb\bar{c}a$	$\bar{c}c\bar{c}c\bar{c}ac$	$cb\bar{c}cb\bar{c}a$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$cb\bar{c}c\bar{c}b\bar{c}a$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$
(7, 11, 38)*	$cc\bar{c}cbcc$	$\bar{a}a\bar{a}b\bar{c}b\bar{c}$	$cc\bar{c}cb\bar{c}c$	$\bar{c}c\bar{c}c\bar{b}c\bar{a}$	$c\bar{c}c\bar{c}b\bar{c}\bar{c}$	$\bar{c}c\bar{c}c\bar{a}c\bar{b}$	$cc\bar{c}c\bar{c}b\bar{c}c$	$\bar{b}bb\bar{a}c\bar{a}c$
(7, 13, 36)*	$\bar{c}a\bar{a}cca\bar{c}$	$\bar{c}bb\bar{c}cb\bar{c}$	$cb\bar{a}a\bar{c}c\bar{c}$	$cb\bar{b}b\bar{c}c\bar{c}$	$ca\bar{c}b\bar{c}c\bar{c}$	$\bar{c}c\bar{b}b\bar{c}c\bar{c}$	$ab\bar{c}c\bar{c}c\bar{c}$	$c\bar{b}ccc\bar{c}b\bar{b}$
(7, 14, 35)*	$cc\bar{c}cccc$	$bb\bar{b}cbca$	$cc\bar{c}c\bar{c}c\bar{c}$	$cc\bar{c}b\bar{a}bb\bar{b}$	$c\bar{c}c\bar{c}c\bar{c}\bar{c}$	$\bar{a}a\bar{a}b\bar{c}bb$	$cc\bar{c}c\bar{c}c\bar{c}$	$bb\bar{b}a\bar{b}a\bar{c}$
(7, 16, 33)*	$b\bar{c}bb\bar{c}ba$	$\bar{c}c\bar{c}ccca$	$b\bar{c}bb\bar{c}b\bar{a}$	$\bar{c}c\bar{c}c\bar{c}ac$	$b\bar{c}bb\bar{c}b\bar{a}$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$b\bar{c}bb\bar{c}b\bar{a}$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$
(7, 18, 31)*	$cc\bar{c}cbcc$	$bb\bar{b}cbca$	$cc\bar{c}cb\bar{c}c$	$cc\bar{c}b\bar{a}bb\bar{b}$	$c\bar{c}c\bar{c}b\bar{c}c$	$\bar{a}a\bar{a}b\bar{c}bb$	$cc\bar{c}c\bar{c}b\bar{c}c$	$bb\bar{b}a\bar{b}a\bar{c}$

Table 5: Continued

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
(7, 19, 30)*	cccccc̄c̄	cbbbbāb̄	cccccc̄c̄	c̄babbb̄b̄	c̄cc̄cc̄cc̄	bbaabbb̄b̄	ccc̄cc̄cc̄	b̄abbb̄aāb̄
(7, 20, 29)*	bb̄bb̄c̄bc̄	ccc̄c̄cc̄cc̄	bb̄bb̄c̄b̄c̄	ccc̄c̄c̄c̄	bb̄bb̄c̄b̄c̄	ccc̄c̄c̄c̄	bb̄bb̄c̄b̄c̄	āaacacc̄
(7, 21, 28)*	ab̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	ab̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	āab̄bab̄b̄	c̄cc̄cc̄cc̄	aab̄bb̄bb̄	c̄cc̄cc̄cc̄
(7, 22, 27)*	ccc̄cc̄cc̄	b̄bb̄bb̄b̄ā	bcc̄cc̄cc̄	ab̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	āāab̄ab̄b̄	c̄cc̄cc̄cc̄	b̄bb̄bb̄aāb̄
(7, 23, 26)*	ab̄bb̄bb̄b̄	cccc̄cc̄c̄	ab̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	āab̄bab̄b̄	c̄cc̄cc̄cc̄	aab̄bb̄bb̄	bcc̄cc̄cc̄
(7, 24, 25)*	bb̄bb̄bb̄a	c̄cc̄cc̄cc̄	bb̄bb̄bb̄a	c̄cc̄cc̄cc̄	bb̄bb̄bb̄a	c̄cc̄cc̄cc̄	bb̄bb̄bb̄a	āc̄cc̄cc̄cc̄
(8, 8, 40)*	āccacaa	b̄c̄bc̄bb̄	acc̄āc̄āā	b̄c̄bc̄bb̄	ccc̄cc̄cc̄	ccc̄cc̄cc̄	ccc̄cc̄cc̄	ccc̄cc̄cc̄
(8, 10, 38)*	āccacaa	b̄c̄bc̄bb̄	acc̄āc̄āā	b̄c̄bc̄bb̄	bcc̄cc̄cc̄	ccc̄cc̄cc̄	ccc̄cc̄cc̄	bcc̄cc̄cc̄
(8, 11, 37)	āccacaa	b̄c̄bc̄bb̄	acc̄āc̄āā	b̄c̄bc̄bb̄	ccc̄cc̄cc̄	bcc̄cc̄cc̄	b̄c̄bc̄bb̄	b̄c̄bc̄bb̄
(8, 12, 36)*	āccacaa	b̄c̄bc̄bb̄	acc̄āc̄āā	b̄c̄bc̄bb̄	bcc̄cc̄cc̄	bcc̄cc̄cc̄	b̄c̄bc̄bb̄	b̄c̄bc̄bb̄
(8, 14, 34)*	āccacaa	c̄bb̄c̄bc̄	acc̄āc̄āā	bb̄bb̄bb̄b̄	ccc̄cc̄cc̄	b̄c̄bc̄bb̄	ccc̄cc̄cc̄	ccc̄cc̄cc̄
(8, 16, 32)*	āccacaa	c̄bb̄c̄bc̄	acc̄āc̄āā	bb̄bb̄bb̄b̄	ccc̄cc̄cc̄	b̄c̄bc̄bb̄	b̄c̄bc̄bb̄	b̄c̄bc̄bb̄
(8, 17, 31)	āccacaa	b̄cc̄cc̄cc̄	acc̄āc̄āā	b̄cc̄cc̄cc̄	b̄c̄bc̄bb̄	c̄bb̄c̄bc̄	bb̄bb̄bb̄b̄	b̄cc̄cc̄cc̄
(8, 18, 30)*	ccc̄cc̄cc̄	ābbabaa	ccc̄cc̄cc̄	c̄bb̄bb̄bb̄	ccc̄cc̄cc̄	cbb̄bb̄bb̄	c̄cc̄cc̄cc̄	abb̄ab̄āā
(8, 19, 29)*	ccc̄cc̄cc̄	ābbabaa	ccc̄cc̄cc̄	abb̄ab̄āā	ccc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	cbb̄bb̄bb̄
(8, 20, 28)*	ccc̄cc̄cc̄	ābbabaa	ccc̄cc̄cc̄	abb̄ab̄āā	ccc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄
(8, 21, 27)*	b̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	abb̄ab̄āā	c̄cc̄cc̄cc̄	b̄bab̄abb̄	c̄cc̄cc̄cc̄	b̄bb̄ab̄b̄ā
(8, 22, 26)*	b̄cc̄cc̄cc̄	ābbabaa	b̄cc̄cc̄cc̄	abb̄ab̄āā	b̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	cbb̄bb̄bb̄
(8, 23, 25)*	b̄cc̄cc̄cc̄	ābbabaa	b̄cc̄cc̄cc̄	abb̄ab̄āā	b̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄
(8, 24, 24)*	cbb̄bcc̄	ac̄ac̄bb̄	c̄bb̄b̄cc̄	ac̄ac̄bb̄	c̄c̄c̄bb̄b̄	ab̄ab̄bcc̄	c̄c̄c̄bb̄b̄	ab̄ab̄cc̄
(9, 9, 38)*	āccacaa	b̄cc̄cc̄cc̄	acc̄āc̄āā	b̄c̄bc̄bb̄	ccc̄cc̄cc̄	ccc̄cc̄cc̄	acc̄cc̄cc̄	b̄c̄bc̄bb̄
(9, 10, 37)*	c̄cc̄cc̄cc̄	baaāb̄āā	c̄cc̄cc̄cc̄	b̄bb̄c̄āc̄	c̄cc̄cc̄cc̄	ccc̄āab̄b̄	c̄cc̄cc̄cc̄	b̄b̄c̄c̄b̄c̄
(9, 11, 36)*	āccacaa	b̄cc̄cc̄cc̄	acc̄āc̄āā	b̄c̄bc̄bb̄	b̄cc̄cc̄cc̄	b̄cc̄cc̄cc̄	acc̄cc̄cc̄	b̄c̄bc̄bb̄
(9, 14, 33)*	c̄āab̄bb̄b̄	c̄cc̄cc̄cc̄	c̄ab̄c̄b̄b̄	c̄cc̄cc̄cc̄	āāāab̄ab̄	c̄cc̄cc̄cc̄	c̄bb̄c̄bb̄b̄	c̄cc̄cc̄cc̄
(9, 17, 30)*	c̄cc̄cc̄cc̄	b̄c̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	bb̄ab̄b̄āā	c̄cc̄cc̄cc̄	b̄ab̄ab̄bb̄	ccc̄cc̄cc̄	c̄abaāb̄ā
(9, 18, 29)*	ābbabaa	ccc̄cc̄cc̄	abb̄ab̄āā	c̄cc̄cc̄cc̄	bb̄bb̄bb̄c̄	ccc̄cc̄cc̄	abb̄bb̄bb̄	c̄cc̄cc̄cc̄
(9, 19, 28)*	ccc̄cc̄cc̄	ābbabaa	ccc̄cc̄cc̄	abb̄ab̄āā	ccc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	abb̄bb̄bb̄
(9, 20, 27)*	ac̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	abb̄ab̄āā	c̄cc̄cc̄cc̄	b̄bab̄abb̄	c̄cc̄cc̄cc̄	b̄bb̄ab̄b̄ā
(9, 21, 26)*	ab̄bb̄bb̄b̄	cccc̄cc̄c̄	ab̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	āab̄bab̄b̄	c̄cc̄cc̄cc̄	aab̄bb̄bb̄	acc̄cc̄cc̄
(9, 22, 25)*	b̄cc̄cc̄cc̄	ābbabaa	b̄cc̄cc̄cc̄	abb̄ab̄āā	b̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	abb̄bb̄bb̄
(9, 23, 24)*	b̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄	b̄cc̄cc̄cc̄	abb̄bb̄ab̄	b̄cc̄cc̄cc̄	b̄āāab̄ab̄	c̄cc̄cc̄cc̄	āāab̄bb̄b̄
(10, 10, 36)*	c̄bc̄baāā	cccc̄cc̄c̄	c̄bc̄b̄āāā	c̄cc̄cc̄cc̄	ac̄ab̄bb̄b̄	c̄cc̄cc̄cc̄	ac̄ab̄bb̄b̄	c̄cc̄cc̄cc̄
(10, 12, 34)*	bab̄acc̄	c̄bc̄cc̄c̄	bab̄acc̄	c̄bc̄cc̄c̄	b̄c̄b̄c̄āāā	c̄c̄b̄cc̄cc̄	b̄c̄b̄c̄āāā	c̄c̄b̄cc̄cc̄
(10, 13, 33)	b̄c̄b̄c̄āāā	b̄c̄b̄c̄āāā	b̄ab̄acc̄	b̄ab̄acc̄	c̄cc̄cc̄cc̄	bb̄b̄cc̄cc̄	c̄cc̄cc̄cc̄	b̄c̄b̄cc̄cc̄
(10, 14, 32)*	cac̄ab̄bb̄	b̄cc̄cc̄cc̄	c̄āc̄ābb̄b̄	b̄cc̄cc̄cc̄	c̄b̄c̄b̄āāā	b̄cc̄cc̄cc̄	c̄b̄c̄b̄āāā	b̄cc̄cc̄cc̄
(10, 15, 31)	c̄bc̄baāā	c̄b̄c̄b̄āāā	c̄āc̄ābb̄b̄	cāc̄ābb̄b̄	c̄cc̄cc̄cc̄	bb̄b̄cc̄cc̄	c̄cc̄cc̄cc̄	b̄c̄b̄cc̄cc̄
(10, 16, 30)*	b̄c̄b̄c̄āāā	b̄c̄b̄cc̄c̄	b̄c̄b̄c̄āāā	b̄c̄b̄cc̄c̄	b̄ab̄acc̄	b̄c̄b̄cc̄c̄	b̄ab̄acc̄	b̄c̄b̄cc̄c̄
(10, 18, 28)*	ābbabaa	c̄cc̄cc̄cc̄	abb̄ab̄āā	c̄cc̄cc̄cc̄	abb̄bb̄bb̄	ccc̄cc̄cc̄	abb̄bb̄bb̄	ccc̄cc̄cc̄
(10, 19, 27)*	b̄cc̄cc̄cc̄	bb̄bb̄bb̄b̄	c̄cc̄cc̄cc̄	aāab̄bb̄	c̄cc̄cc̄cc̄	b̄āb̄āāāā	c̄cc̄cc̄cc̄	b̄ab̄bb̄b̄ā
(10, 20, 26)*	cccc̄c̄āā	c̄bc̄bb̄bb̄	c̄cc̄c̄āāā	c̄b̄c̄bb̄bb̄	cāc̄ācc̄	c̄b̄c̄bb̄bb̄	c̄āc̄ācc̄	c̄bc̄bb̄bb̄
(10, 21, 25)*	c̄cc̄cc̄cc̄	bb̄bb̄āb̄b̄	ac̄cc̄cc̄	bb̄bb̄ab̄b̄	ac̄cc̄cc̄	b̄ab̄bb̄bb̄	c̄cc̄cc̄cc̄	āāab̄abb̄
(10, 22, 24)*	bab̄acc̄	cbb̄bcc̄	b̄ab̄acc̄	c̄bb̄b̄cc̄	b̄c̄b̄c̄āāā	c̄c̄b̄c̄bb̄	b̄c̄b̄c̄āāā	c̄c̄b̄c̄bb̄

Table 5: Continued

type	A_1	A_2	A_3	A_4	A_5	A_6	A_7	A_8
(10, 23, 23)*	$ac\bar{c}cc\bar{c}c$	$ab\bar{b}bb\bar{b}b$	$a\bar{c}acc\bar{c}c$	$\bar{a}b\bar{a}bb\bar{b}b$	$a\bar{c}acc\bar{c}c$	$bb\bar{b}bb\bar{b}b$	$\bar{c}ccccc$	$b\bar{b}a\bar{b}a\bar{b}b$
(11, 11, 34)*	$\bar{a}c\bar{c}ca\bar{a}c$	$b\bar{c}ccc\bar{b}c$	$cccac\bar{c}c$	$b\bar{c}\bar{b}bbbc$	$a\bar{c}ccc\bar{a}c$	$\bar{b}c\bar{c}cb\bar{b}c$	$\bar{a}aaaca\bar{c}$	$cbc\bar{c}c\bar{c}c$
(11, 14, 31)*	$cc\bar{c}cacc$	$\bar{b}bbcbca$	$cc\bar{c}c\bar{a}c\bar{c}$	$cc\bar{c}b\bar{a}b\bar{b}$	$cc\bar{c}c\bar{a}c\bar{c}$	$\bar{a}a\bar{a}b\bar{c}b\bar{b}$	$ccc\bar{c}a\bar{c}c$	$\bar{b}bbaba\bar{c}$
(11, 16, 29)*	$bab\bar{b}abc$	$\bar{c}cc\bar{c}cca$	$ba\bar{b}b\bar{a}b\bar{c}$	$\bar{c}cc\bar{c}c\bar{a}c$	$ba\bar{b}b\bar{a}b\bar{c}$	$\bar{c}cc\bar{c}c\bar{c}c$	$ba\bar{b}b\bar{a}b\bar{c}$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$
(11, 17, 28)*	$\bar{a}b\bar{b}ba\bar{a}b$	$\bar{c}cc\bar{c}c\bar{c}c$	$bbbab\bar{b}b$	$\bar{c}cc\bar{c}ccc$	$\bar{a}b\bar{b}bb\bar{a}b$	$\bar{c}c\bar{c}c\bar{c}c\bar{c}$	$\bar{a}aaabab\bar{b}$	$\bar{c}cc\bar{c}c\bar{c}c$
(11, 18, 27)*	$\bar{c}bbcbcc$	$acc\bar{c}c\bar{c}c$	$cbb\bar{c}b\bar{c}c$	$\bar{a}ccacaa$	$cbb\bar{b}bb\bar{b}$	$\bar{a}cc\bar{a}c\bar{a}a$	$abb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}c\bar{c}c\bar{c}$
(11, 19, 26)*	$acc\bar{c}c\bar{c}c$	$\bar{a}bbabaa$	$acc\bar{c}c\bar{c}c$	$\bar{a}bb\bar{a}ba\bar{a}$	$acc\bar{c}c\bar{c}c$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$cbb\bar{b}bb\bar{b}$
(11, 20, 25)*	$acc\bar{c}c\bar{c}c$	$\bar{a}bbabaa$	$acc\bar{c}c\bar{c}c$	$\bar{a}bb\bar{a}ba\bar{a}$	$acc\bar{c}c\bar{c}c$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$\bar{b}bb\bar{b}bb\bar{b}$
(11, 21, 24)*	$cc\bar{c}cacc$	$aa\bar{a}bb\bar{b}b$	$cc\bar{c}c\bar{a}c\bar{c}$	$bb\bar{b}b\bar{a}b\bar{b}$	$cc\bar{c}c\bar{a}c\bar{c}$	$\bar{b}bbabab\bar{b}$	$ccc\bar{c}a\bar{c}c$	$\bar{b}bb\bar{b}bb\bar{a}$
(12, 12, 32)*	$cb\bar{c}caca$	$cb\bar{c}cacb$	$cb\bar{c}c\bar{a}c\bar{a}$	$cb\bar{c}c\bar{a}c\bar{b}$	$cb\bar{c}c\bar{a}c\bar{a}$	$cb\bar{c}c\bar{a}c\bar{b}$	$cb\bar{c}c\bar{a}c\bar{a}$	$cb\bar{c}c\bar{a}c\bar{b}$
(12, 14, 30)*	$acacbb\bar{b}$	$bcaccc\bar{c}$	$\bar{a}c\bar{a}c\bar{b}bb$	$b\bar{c}\bar{a}c\bar{c}c$	$\bar{a}b\bar{a}b\bar{c}c$	$b\bar{c}\bar{a}c\bar{c}c$	$\bar{a}b\bar{a}b\bar{c}c$	$b\bar{c}\bar{a}c\bar{c}c$
(12, 16, 28)*	$ccc\bar{c}c\bar{c}c$	$\bar{b}\bar{a}b\bar{a}ba\bar{b}$	$ccc\bar{c}c\bar{c}c$	$bab\bar{b}ab\bar{a}$	$ccc\bar{c}c\bar{c}c$	$\bar{b}\bar{b}\bar{a}baba$	$\bar{c}ccccc$	$bab\bar{b}aba$
(12, 18, 26)*	$ccc\bar{c}c\bar{c}c$	$\bar{a}bbabaa$	$acc\bar{c}c\bar{c}c$	$\bar{a}b\bar{b}bb\bar{b}b$	$acc\bar{c}c\bar{c}c$	$\bar{a}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$\bar{a}bb\bar{a}ba\bar{a}$
(12, 19, 25)*	$acc\bar{c}c\bar{c}c$	$\bar{a}bbabaa$	$acc\bar{c}c\bar{c}c$	$\bar{a}bb\bar{a}ba\bar{a}$	$acc\bar{c}c\bar{c}c$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$\bar{a}bb\bar{b}bb\bar{b}$
(12, 20, 24)*	$acaccc\bar{c}$	$cbabb\bar{b}$	$\bar{a}c\bar{a}c\bar{c}c$	$\bar{c}b\bar{a}bb\bar{b}b$	$ac\bar{a}c\bar{c}c$	$\bar{c}b\bar{a}bb\bar{b}$	$\bar{a}c\bar{a}c\bar{c}c$	$\bar{c}b\bar{a}bb\bar{b}$
(12, 22, 22)*	$cc\bar{c}c\bar{c}c$	$\bar{b}bb\bar{b}bb\bar{b}$	$acccc\bar{c}c$	$\bar{a}b\bar{b}bb\bar{b}b$	$\bar{a}ac\bar{c}a\bar{c}c$	$\bar{a}a\bar{b}bab\bar{b}$	$\bar{a}ac\bar{c}c\bar{c}$	$\bar{a}a\bar{b}bb\bar{b}$
(13, 13, 30)*	$\bar{a}ccacaa$	$cbb\bar{b}bb\bar{b}$	$\bar{c}a\bar{a}c\bar{a}c$	$\bar{c}b\bar{b}c\bar{b}cc$	$caa\bar{a}a\bar{a}$	$\bar{b}c\bar{c}bcb\bar{b}$	$ccc\bar{c}c\bar{c}$	$ccc\bar{c}c\bar{c}$
(13, 14, 29)*	$\bar{b}c\bar{c}bcb\bar{b}$	$caa\bar{a}a\bar{a}$	$\bar{c}b\bar{b}c\bar{b}cc$	$\bar{a}ccacaa$	$cbb\bar{b}bb\bar{b}$	$caa\bar{c}a\bar{c}$	$bcc\bar{c}c\bar{c}$	$ccc\bar{c}c\bar{c}$
(13, 15, 28)*	$\bar{a}bbabaa$	$ccc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bab\bar{b}$	$\bar{c}cc\bar{c}c\bar{c}$	$baa\bar{a}a\bar{a}$	$\bar{c}ccccc$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}cc\bar{c}c\bar{c}$
(13, 17, 26)*	$bcc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bab\bar{b}$	$bcc\bar{c}c\bar{c}$	$\bar{a}b\bar{b}a\bar{b}aa$	$bcc\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$caa\bar{a}a\bar{a}$
(13, 18, 25)*	$bcc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bab\bar{b}$	$bcc\bar{c}c\bar{c}$	$\bar{a}b\bar{b}a\bar{b}aa$	$bcc\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$baa\bar{a}a\bar{a}$
(13, 19, 24)*	$ac\bar{c}c\bar{c}c$	$\bar{b}bb\bar{b}bb\bar{b}$	$ac\bar{c}c\bar{c}c$	$\bar{a}b\bar{b}bb\bar{a}$	$\bar{a}c\bar{c}ccc$	$\bar{b}a\bar{a}a\bar{b}a\bar{b}$	$\bar{c}cc\bar{c}cca$	$\bar{a}a\bar{a}bb\bar{b}$
(13, 21, 22)	$\bar{c}bbcbcc$	$baa\bar{a}a\bar{a}$	$cbb\bar{b}bb\bar{b}$	$\bar{c}b\bar{b}c\bar{b}c$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}aacacc$	$bcc\bar{c}c\bar{c}$	$\bar{a}c\bar{c}a\bar{c}aa$
(14, 14, 28)*	$\bar{c}ccccc$	$\bar{a}bbabaa$	$ccc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bb\bar{b}$	$ccc\bar{c}c\bar{c}$	$aaa\bar{a}a\bar{a}$	$ccc\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$
(14, 15, 27)*	$\bar{a}ccacaa$	$bcc\bar{c}c\bar{c}$	$\bar{c}a\bar{a}c\bar{a}c$	$\bar{c}b\bar{b}c\bar{b}c$	$caa\bar{a}a\bar{a}$	$bcc\bar{c}bcb\bar{b}$	$acc\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$
(14, 16, 26)*	$bcc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bab\bar{b}$	$bcc\bar{c}c\bar{c}$	$\bar{a}bb\bar{a}ba\bar{a}$	$bcc\bar{c}c\bar{c}$	$\bar{a}a\bar{a}a\bar{a}$	$\bar{c}ccccc$	$cbb\bar{b}bb\bar{b}$
(14, 17, 25)*	$bcc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bab\bar{b}$	$bcc\bar{c}c\bar{c}$	$\bar{a}bb\bar{a}ba\bar{a}$	$bcc\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{c}ccccc$	$aaa\bar{a}a\bar{a}$
(14, 18, 24)*	$\bar{c}bbcbcc$	$\bar{a}ccacaa$	$cbb\bar{c}b\bar{c}c$	$\bar{c}a\bar{a}c\bar{a}c$	$cbb\bar{b}bb\bar{b}$	$aaa\bar{a}a\bar{a}$	$cbb\bar{b}bb\bar{b}$	$ccc\bar{c}c\bar{c}$
(14, 19, 23)*	$\bar{c}bbcbcc$	$\bar{c}a\bar{a}c\bar{a}c$	$cbb\bar{c}b\bar{c}c$	$\bar{c}a\bar{a}a\bar{a}$	$\bar{b}bb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}c\bar{c}c$	$cbb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}a\bar{c}aa$
(14, 20, 22)*	$ccc\bar{c}a\bar{a}$	$\bar{a}bcbb\bar{b}$	$\bar{c}c\bar{c}c\bar{a}a$	$\bar{a}b\bar{c}bb\bar{b}$	$\bar{c}a\bar{c}a\bar{c}c$	$\bar{a}b\bar{c}bb\bar{b}$	$\bar{c}a\bar{c}a\bar{c}c$	$\bar{a}b\bar{c}bb\bar{b}$
(14, 21, 21)*	$aa\bar{a}cccc$	$aa\bar{a}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{a}c$	$\bar{b}b\bar{b}a\bar{b}$	$\bar{c}c\bar{c}c\bar{a}c$	$\bar{b}bb\bar{b}bb\bar{a}$	$\bar{c}c\bar{c}c\bar{c}a$	$\bar{b}bb\bar{b}a\bar{b}$
(15, 15, 26)*	$\bar{c}aacacc$	$bcc\bar{c}c\bar{c}$	$\bar{a}c\bar{c}a\bar{c}aa$	$\bar{b}c\bar{c}bcb\bar{b}$	$acc\bar{c}c\bar{c}$	$\bar{c}bbcbcc$	$aaa\bar{a}a\bar{a}$	$\bar{b}bb\bar{b}bb\bar{b}$
(15, 16, 25)*	$bcc\bar{c}c\bar{c}$	$\bar{b}a\bar{a}bab\bar{b}$	$bcc\bar{c}c\bar{c}$	$\bar{a}bb\bar{a}ba\bar{a}$	$bcc\bar{c}c\bar{c}$	$\bar{a}a\bar{a}a\bar{a}$	$\bar{c}ccccc$	$\bar{a}bb\bar{b}bb\bar{b}$
(15, 18, 23)*	$\bar{c}bbcbcc$	$caa\bar{a}a\bar{a}$	$cbb\bar{c}b\bar{c}c$	$\bar{c}aacacc$	$\bar{a}bb\bar{b}bb\bar{b}$	$acc\bar{c}c\bar{c}$	$cbb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}a\bar{c}aa$
(15, 20, 21)*	$\bar{b}bb\bar{b}aba$	$cc\bar{c}a\bar{c}c$	$\bar{b}bb\bar{b}a\bar{b}$	$\bar{c}c\bar{c}a\bar{c}c$	$\bar{b}bb\bar{b}a\bar{b}$	$\bar{c}c\bar{c}a\bar{c}c$	$\bar{b}bb\bar{b}a\bar{b}$	$\bar{a}aacacc$
(16, 16, 24)*	$\bar{a}c\bar{a}cac$	$\bar{c}b\bar{c}bb\bar{c}$	$\bar{a}c\bar{a}c\bar{a}c$	$\bar{b}c\bar{b}b\bar{c}b$	$\bar{c}a\bar{c}a\bar{c}a$	$\bar{b}c\bar{b}b\bar{c}b$	$\bar{a}c\bar{a}c\bar{a}c$	$\bar{b}c\bar{b}b\bar{c}b$
(16, 18, 22)*	$\bar{a}bbabaa$	$\bar{a}ccacaa$	$\bar{a}bb\bar{a}ba\bar{a}$	$\bar{a}c\bar{c}a\bar{c}a$	$cbb\bar{b}bb\bar{b}$	$\bar{c}c\bar{c}c\bar{c}c$	$cbb\bar{b}bb\bar{b}$	$ccc\bar{c}c\bar{c}$
(16, 20, 20)*	$\bar{a}babb\bar{b}$	$\bar{a}caccc\bar{c}$	$\bar{a}babb\bar{b}$	$\bar{a}c\bar{a}c\bar{c}c$	$\bar{a}b\bar{a}bb\bar{b}$	$\bar{a}c\bar{a}c\bar{c}c$	$\bar{a}b\bar{a}bb\bar{b}$	$\bar{a}caccc\bar{c}$
(17, 17, 22)*	$\bar{c}a\bar{a}ac\bar{c}a$	$\bar{c}bb\bar{b}b\bar{c}$	$aa\bar{a}c\bar{a}a$	$\bar{c}b\bar{c}cc\bar{c}b$	$\bar{c}a\bar{a}a\bar{c}a$	$\bar{c}bb\bar{b}c\bar{b}$	$\bar{c}ccca\bar{c}a$	$\bar{b}cbb\bar{b}bb$
(18, 18, 20)*	$\bar{c}aacacc$	$\bar{c}bbcbcc$	$caa\bar{c}a\bar{c}$	$\bar{c}b\bar{b}c\bar{b}cc$	$caa\bar{a}a\bar{a}$	$cbb\bar{b}bb\bar{b}$	$caa\bar{a}a\bar{a}$	$cbb\bar{b}bb\bar{b}$
(18, 19, 19)*	$\bar{a}ccacaa$	$\bar{a}bb\bar{b}bb\bar{b}$	$\bar{a}c\bar{c}a\bar{c}a$	$\bar{a}bb\bar{a}ba\bar{a}$	$ccc\bar{c}c\bar{c}$	$\bar{b}bb\bar{b}bb\bar{b}$	$acc\bar{c}c\bar{c}$	$\bar{a}bbabaa$