ADDENDUM TO 'A NEW RESULT ON THE PROBLEM OF BURATTI, HORAK AND ROSA'

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We report in the following tables a linear realization of some lists $L = \{1^a, 2^b, 3^c, 5^d\}$ used by the authors to prove the results of [1], omitted there for sake of brevity. We order the lists according to the Lemmas/Propositions/Theorems in which they are used. In the second column of the following tables, we write P if the corresponding linear realization is perfect.

LEMMA 3.3

(a, b, c, d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(0, 2v + 4, 1, 2)$		$[0, \ldots, 2v, 2v + 5, 2v + 7, 2v + 2, 2v + 4, 2v + 6, 2v + 3, \ldots, 1]$
$(0, 2v + 5, 1, 2)$		$[0, \ldots, 2v + 4, 2v + 7, 2v + 5, 2v + 3, 2v + 8, 2v + 6, 2v + 1, \ldots, 1]$
$(0, 2v + 3, 2, 1)$		$[0, \ldots, 2v, 2v + 5, 2v + 2, 2v + 4, 2v + 6, 2v + 3, \ldots, 1]$
$(0, 2v + 4, 2, 1)$		$[0, \ldots, 2v + 2, 2v + 7, 2v + 5, 2v + 3, 2v + 6, 2v + 4, 2v + 1, \ldots, 1]$
$(0, 3, 3t + 4, 1)$		$[0, 2, \ldots, 3t + 2, 3t + 7, \ldots, 1, 3, \ldots, 3t + 6, 3t + 8, 3t + 5]$
$(0, 3, 3t + 5, 1)$		$[0, 2, \ldots, 3t + 8, 3t + 3, 3t + 6, 3t + 9, 3t + 7, \ldots, 1, 3, \ldots, 3t]$
$(0, 3, 3t + 6, 1)$		$[0, 2, \ldots, 3t + 8, 3t + 10, 3t + 7, 3t + 4, 3t + 9, \ldots, 3, 1, \ldots, 3t + 1]$
$(0, 3, 3t + 2, 2)$		$[0, 5, \ldots, 3t + 5, 3t + 7, \ldots, 7, 2, 4, 1, 3, \ldots, 3t + 6]$
$(0, 3, 3t + 3, 2)$		$[0, 5, \ldots, 3t + 8, 3t + 6, \ldots, 3, 1, 4, 2, 7, \ldots, 3t + 7]$
$(0, 3, 3t + 7, 2)$		$[0, 3, 1, 4, 6, \ldots, 3t + 6, 3t + 11, \ldots, 2, 7, \ldots, 3t + 10, 3t + 12, 3t + 9]$
$(0, 4, 3t + 1, 1)$		$[0, 2, \ldots, 3t + 5, 3t + 3, \ldots, 3, 1, \ldots, 3t + 1, 3t + 6, 3t + 4]$
$(0, 4, 3t + 2, 1)$		$[0, 2, \ldots, 3t + 5, 3t + 7, 3t + 4, 3t + 6, 3t + 1, \ldots, 1, 3, \ldots, 3t + 3]$
$(0, 4, 3t + 3, 1)$		$[0, 2, \ldots, 3t + 2, 3t + 7, 3t + 5, 3t + 8, 3t + 6, \ldots, 3, 1, \ldots, 3t + 4]$
$(0, 4, 3t + 2, 2)$	P	$[0, 5, \ldots, 3t + 5, 3t + 7, \ldots, 7, 2, 4, 1, 3, \ldots, 3t + 6, 3t + 8]$
$(0, 4, 3t + 3, 2)$	P	$[0, 5, \ldots, 3t + 8, 3t + 6, \ldots, 3, 1, 4, 2, 7, \ldots, 3t + 7, 3t + 9]$
$(0, 4, 3t + 4, 2)$		$[0, 2, \ldots, 3t + 5, 3t + 10, 3t + 7, 3t + 9, 3t + 6, 3t + 4, \ldots, 1, 3, \ldots, 3t + 3, 3t + 8]$

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Lemma 3.6

(a,b,c,d)	$r\{1^a, 2^b, 3^c, 5^d\}$
$(0, 2v+5, 0, 3)$	$[0, \ldots, 2v, 2v+5, 2v+7, 2v+2, 2v+4, 2v+6, 2v+8, 2v+3, \ldots, 1]$,
$(0, 2v+6, 0, 3)$	$[0, \ldots, 2v+4, 2v+9, 2v+7, 2v+5, 2v+3, 2v+8, 2v+6, 2v+1, \ldots, 1]$
$(0, 5, 0, 5k+1)$	$[0, \ldots, 5k, 5k+2, \ldots, 2, 4, \ldots, 5k+4, 5k+6, \ldots, 1, 3, \ldots, 5k+3, 5k+5]$
$(0, 7, 0, 5k+6)$	$[0, \ldots, 5k+5, 5k+3, \ldots, 3, 1, \ldots, 5k+6, 5k+8, 5k+13, 5k+11, 5k+9, \ldots, 4, 2, \ldots, 5k+12, 5k+10]$
$(0, 7, 0, 5k+3)$	$[0, 2, 4, \ldots, 5k+4, 5k+6, \ldots, 1, 3, \ldots, 5k+8, 5k+10, \ldots, 5, 7, \ldots, 5k+7, 5k+9]$
$(0, 7, 0, 5k+7)$	$[0, \ldots, 5k+10, 5k+12, 5k+14, 5k+9, 5k+7, \ldots, 2, 4, \ldots, 5k+4, 5k+6, \ldots, 1, 3, \ldots, 5k+13, 5k+11]$

Proposition 3.7

(a,b,c,d)	$r\{1^a, 2^b, 3^c, 5^d\}$
$(0, 1, 3t+6, 4)$	$[0, 3, 8, \ldots, 3t+11, 3t+9, \ldots, 6, 1, 4, 7, 2, 5, 10, \ldots, 3t+10]$
$(0, 1, 3t+8, 4)$	$[0, 3, 6, 1, 4, 9, \ldots, 3t+12, 3t+7, \ldots, 7, 2, \ldots, 3t+11, 3t+13, 3t+10]$
$(0, 1, 3t+4, 5)$	$[0, 5, 2, 7, \ldots, 3t+10, 3t+8, \ldots, 8, 3, 6, 1, 4, 9, \ldots, 3t+9]$
$(0, 1, 3t+6, 5)$	$[0, 3, 8, \ldots, 3t+11, 3t+6, \ldots, 6, 1, 4, 7, 2, 5, 10, \ldots, 3t+10, 3t+12, 3t+9]$
$(0, 1, 4, 5k+2)$	$[0, 3, \ldots, 5k+3, 5k+5, \ldots, 5, 2, \ldots, 5k+7, 5k+4, \ldots, 4, 1, \ldots, 5k+6]$
$(0, 1, 5, 5k+7)$	$[0, 3, \ldots, 5k+13, 5k+10, \ldots, 5, 2, \ldots, 5k+12, 5k+9, 5k+11, \ldots, 1, 4, \ldots, 5k+4]$
$(0, 1, 6, 5k+7)$	$[0, 3, \ldots, 5k+3, 5k+6, \ldots, 1, 4, \ldots, 5k+14, 5k+12, \ldots, 2, 5, \ldots, 5k+10, 5k+13, 5k+8, 5k+11]$
$(0, 1, 7, 5k+7)$	$[0, 3, \ldots, 5k+3, 5k+6, \ldots, 1, 4, \ldots, 5k+9, 5k+12, \ldots, 2, 5, \ldots, 5k+15, 5k+13, 5k+8, 5k+11, 5k+14]$
$(0, 1, 4, 5k+4)$	$[0, 3, \ldots, 5k+8, 5k+5, \ldots, 5, 2, \ldots, 5k+7, 5k+9, \ldots, 4, 1 \ldots, 5k+6]$
$(0, 1, 5, 5k+4)$	$[0, 3, \ldots, 5k+8, 5k+10, \ldots, 5, 2, \ldots, 5k+7, 5k+4, \ldots, 4, 1, \ldots, 5k+6, 5k+9]$
$(0, 1, 6, 5k+4)$	$[0, 3, \ldots, 5k+8, 5k+11, 5k+9, 5k+6, \ldots, 1, 4, \ldots, 5k+4, 5k+7, \ldots, 2, 5, \ldots, 5k+10]$
$(0, 1, 7, 5k+4)$	$[0, 3, \ldots, 5k+8, 5k+11, 5k+6, 5k+9, 5k+12, 5k+7, 5k+10, \ldots, 5, 2, \ldots, 5k+2, 5k+4, \ldots, 4, 1, \ldots, 5k+1]$
$(0, 1, 8, 5k+4)$	$[0, 3, \ldots, 5k+3, 5k+6, \ldots, 1, 4, \ldots, 5k+9, 5k+12, \ldots, 2, 5, \ldots, 5k+5, 5k+8, 5k+11, 5k+13, 5k+10]$
$(0, 1, 4, 5k+1)$	$[0, 3, \ldots, 5k+3, 5k+6, \ldots, 1, 4, \ldots, 5k+4, 5k+2, \ldots, 2, 5, \ldots, 5k+5]$
$(0, 1, 5, 5k+1)$	$[0, 3, \ldots, 5k+3, 5k+6, \ldots, 1, 4, \ldots, 5k+4, 5k+7, 5k+5, \ldots, 5, 2, \ldots, 5k+2]$
$(0, 1, 6, 5k+1)$	$[0, 3, \ldots, 5k+3, 5k+6, 5k+8, 5k+5, \ldots, 5, 2, \ldots, 5k+7, 5k+4, \ldots, 4, 1, \ldots, 5k+1]$
$(0, 1, 7, 5k+6)$	$[0, 3, \ldots, 5k+13, 5k+10, \ldots, 5, 2, \ldots, 5k+7, 5k+4, \ldots, 4, 1, \ldots, 5k+11, 5k+14, 5k+12, 5k+9]$
$(0, 1, 5, 5k+3)$	$[0, 3, \ldots, 5k+8, 5k+5, \ldots, 5, 2, \ldots, 5k+7, 5k+9, 5k+6, \ldots, 1, 4, \ldots, 5k+4]$
$(0, 1, 6, 5k+8)$	$[0, 3, \ldots, 5k+13, 5k+15, \ldots, 5, 2, \ldots, 5k+7, 5k+4, \ldots, 4, 1, \ldots, 5k+11, 5k+14, 5k+9, 5k+12]$
$(0, 1, 7, 5k+3)$	$[0, 3, \ldots, 5k+8, 5k+11, 5k+9, 5k+6, \ldots, 1, 4, \ldots, 5k+4, 5k+7, 5k+10, \ldots, 5, 2, \ldots, 5k+2]$
$(0, 1, 6, 5k+5)$	$[0, 3, \ldots, 5k+8, 5k+11, \ldots, 1, 4, \ldots, 5k+4, 5k+7, \ldots, 2, 5, \ldots, 5k+10, 5k+12, 5k+9]$
$(0, 1, 7, 5k+5)$	$[0, 3, \ldots, 5k+3, 5k+6, \ldots, 1, 4, \ldots, 5k+9, 5k+12, \ldots, 2, 5, \ldots, 5k+10, 5k+13, 5k+11, 5k+8]$

PROPOSITION 3.8

(a,b,c,d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(0,2,3t+4,3)$		$[0,2,\ldots,3t+8,3t+3,\ldots,3,1,\ldots,3t+1,3t+6,3t+9,3t+4,3t+7]$
$(0,2,3t+5,3)$	P	$[0,2,\ldots,3t+8,3t+3,\ldots,3,1,\ldots,3t+1,3t+6,3t+9,3t+4,3t+7,3t+10]$
$(0,2,3t+6,3)$		$[0,2,\ldots,3t+5,3t+10,\ldots,1,3,\ldots,3t+3,3t+8,3t+11,3t+6,3t+9]$
$(0,2,3t+3,4)$		$[0,2,\ldots,3t+2,3t+7,3t+4,3t+9,3t+6,3t+1,\ldots,1,3,\ldots,3t+3,3t+8,3t+5]$
$(0,2,3t+4,4)$		$[0,3,1,6,\ldots,3t+9,3t+4,\ldots,4,2,\ldots,3t+2,3t+7,3t+10,3t+5,3t+8]$
$(0,2,3t+5,4)$	P	$[0,3,1,6,\ldots,3t+9,3t+4,\ldots,4,2,\ldots,3t+2,3t+7,3t+10,3t+5,3t+8,3t+11]$
$(0,2,2,5k+1)$		$[0,\ldots,5k+5,5k+2,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3]$
$(0,2,3,5k+1)$	P	$[0,\ldots,5k+5,5k+2,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3,5k+6]$
$(0,2,4,5k+1)$	P	$[0,2,\ldots,5k+2,5k+5,\ldots,5,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+4,5k+7]$
$(0,2,5,5k+1)$		$[0,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+5,5k+8,5k+6]$
$(0,2,6,5k+1)$	P	$[0,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+5,5k+8,5k+6,5k+9]$
$(0,2,2,5k)$		$[0,\ldots,5k,5k+3,\ldots,3,1,\ldots,5k+1,5k+4,\ldots,4,2,\ldots,5k+2]$
$(0,2,3,5k)$	P	$[0,\ldots,5k,5k+3,\ldots,3,1,\ldots,5k+1,5k+4,\ldots,4,2,\ldots,5k+2,5k+5]$
$(0,2,4,5k+5)$		$[0,2,\ldots,5k+7,5k+10,\ldots,5,3,\ldots,5k+8,5k+11,5k+6,5k+9,\ldots,4,1,\ldots,5k+1]$
$(0,2,5,5k+5)$	P	$[0,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+9,5k+11,5k+8,5k+10,\ldots,5,2,\ldots,5k+12]$
$(0,2,4,5k+2)$	P	$[0,3,\ldots,5k+3,5k+5,\ldots,5,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+6,5k+8]$
$(0,2,5,5k+2)$		$[0,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+9,5k+6,5k+8,5k+5,\ldots,5,2,\ldots,5k+7]$
$(0,2,6,5k+2)$	P	$[0,3,\ldots,5k+8,5k+5,\ldots,5,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+9,5k+7,5k+10]$
$(0,2,7,5k+2)$		$[0,3,\ldots,5k+3,5k+6,5k+9,5k+11,5k+8,5k+10,\ldots,5,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+1]$
$(0,2,3,5k+4)$		$[0,3,\ldots,5k+8,5k+6,\ldots,1,4,\ldots,5k+9,5k+7,\ldots,2,5,\ldots,5k+5]$
$(0,2,4,5k+4)$		$[0,2,5,\ldots,5k+10,5k+7,\ldots,7,4,\ldots,5k+9,5k+6,\ldots,1,3,\ldots,5k+8]$
$(0,2,5,5k+4)$	P	$[0,2,5,\ldots,5k+10,5k+7,\ldots,7,4,\ldots,5k+9,5k+6,\ldots,1,3,\ldots,5k+8,5k+11]$
$(0,2,4,5k+3)$		$[0,2,5,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+9,\ldots,4,7,\ldots,5k+7]$
$(0,2,5,5k+3)$	P	$[0,2,5,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+9,\ldots,4,7,\ldots,5k+7,5k+10]$
$(0,2,6,5k+3)$		$[0,2,5,\ldots,5k+10,5k+7,\ldots,7,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+8,5k+11,5k+6,5k+9]$

THEOREM 2.3

(a,b,c,d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(0,3,1,5k)$		$[0,\ldots,5k,5k+2,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3]$
$(0,3,1,5k+1)$		$[0,\ldots,5k+5,5k+3,\ldots,3,1,\ldots,5k+1,5k+4,\ldots,4,2,\ldots,5k+2]$
$(0,3,1,5k+2)$		$[0,\ldots,5k+5,5k+2,\ldots,2,4,\ldots,5k+4,5k+6,\ldots,1,3,\ldots,5k+3]$
$(0,3,1,5k+4)$		$[0,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+4,\ldots,4,2,\ldots,5k+7]$
$(0,3,2,5k)$		$[0,2,\ldots,5k+2,5k+5,\ldots,5,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4]$
$(0,3,2,5k+1)$		$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+3,\ldots,3,5,\ldots,5k+5]$
$(0,3,2,5k+2)$		$[0,2,\ldots,5k+7,5k+5,\ldots,5,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+4]$
$(0,3,2,5k+3)$		$[0,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+6,5k+8,\ldots,3,5,\ldots,5k+5]$
$(0,3,2,5k+4)$		$[0,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+9,5k+7,\ldots,2,4,\ldots,5k+4]$
$(0,3,3,5k)$		$[0,2,\ldots,5k+2,5k+5,\ldots,5,3,\ldots,5k+3,5k+6,5k+4,\ldots,4,1,\ldots,5k+1]$
$(0,3,5,5k+2)$		$[0,2,\ldots,5k+2,5k+5,\ldots,5,3,\ldots,5k+8,5k+6,\ldots,1,4,\ldots,5k+4,5k+7]$
$(0,3,3,5k+3)$		$[0,2,\ldots,5k+7,5k+9,\ldots,4,1,\ldots,5k+6,5k+3,\ldots,3,5,\ldots,5k+5,5k+8]$
$(0,3,3,5k+4)$		$[0,\ldots,5k+5,5k+8,5k+10,5k+7,\ldots,2,4,\ldots,5k+9,5k+6,\ldots,1,3,\ldots,5k+3]$
$(0,3,3,5k+6)$		$[0,2,\ldots,5k+12,5k+9,\ldots,4,1,\ldots,5k+11,5k+8,5k+10,\ldots,5,3,\ldots,5k+3]$
$(0,3,4,5k)$		$[0,2,5,\ldots,5k+5,5k+7,\ldots,7,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3,5k+6]$
$(0,3,4,5k+1)$		$[0,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4,5k+6,5k+8,5k+5,\ldots,5,2,\ldots,5k+7]$
$(0,3,4,5k+2)$		$[0,2,5,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+9,5k+7\ldots,7,4,\ldots,5k+4]$
$(0,3,4,5k+3)$		$[0,3,\ldots,5k+8,5k+10,\ldots,5,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+9,5k+7]$
$(0,3,4,5k+4)$		$[0,2,\ldots,5k+7,5k+10,\ldots,5,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+9,5k+11,5k+8]$
$(0,3,5,5k+2)$		$[0,\ldots,5k+5,5k+8,5k+10,5k+7,\ldots,2,4,1,3,\ldots,5k+3,5k+6,\ldots,6,9,\ldots,5k+9]$
$(0,4,1,5k+3)$		$[0,2,\ldots,5k+7,5k+5,\ldots,5,3,\ldots,5k+8,5k+6,\ldots,1,4,\ldots,5k+4]$
$(0,4,2,5k+3)$		$[0,2,4,\ldots,5k+9,5k+6,\ldots,1,3,\ldots,5k+8,5k+5,\ldots,5,7,\ldots,5k+7]$
$(0,4,3,5k+3)$	P	$[0,2,4,\ldots,5k+9,5k+6,\ldots,1,3,\ldots,5k+8,5k+5,\ldots,5,7,\ldots,5k+7,5k+10]$
$(0,4,4,5k+3)$		$[0,3,\ldots,5k+8,5k+10,5k+7,5k+9,5k+11,\ldots,1,4,\ldots,5k+4,5k+2,\ldots,2,5,\ldots,5k+5]$
$(0,4,5,5k+3)$		$[0,3,5,2,\ldots,5k+7,5k+9,5k+12,5k+10,\ldots,10,8,\ldots,5k+8,5k+11,\ldots,1,4,\ldots,5k+4]$
$(0,5,1,5k+3)$		$[0,2,4,\ldots,5k+9,5k+7,\ldots,7,5,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6]$
$(0,5,2,5k+3)$		$[0,\ldots,5k+10,5k+8,5k+6,5k+9,5k+7,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3]$
$(0,5,3,5k+3)$		$[0,2,\ldots,5k+7,5k+10,5k+8,5k+5,\ldots,5,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+9,5k+11,5k+6]$
$(0,5,4,5k+3)$		$[0,2,\ldots,5k+12,5k+9,5k+11,5k+8,5k+10,\ldots,5,3,\ldots,5k+3,5k+6,5k+4,\ldots,4,1,\ldots,5k+1]$
$(0,6,1,5k+3)$		$[0,2,\ldots,5k+7,5k+9,\ldots,4,1,\ldots,5k+1,5k+3,\ldots,3,5,\ldots,5k+10,5k+8,5k+6]$
$(0,4,1,5k+2)$		$[0,\ldots,5k+5,5k+7,\ldots,2,4,\ldots,5k+4,5k+6,5k+3,\ldots,3,1,\ldots,5k+1]$
$(0,5,1,5k+2)$		$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+8,\ldots,3,5,\ldots,5k+5,5k+7]$
$(0,6,1,5k+2)$	P	$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+8,\ldots,3,5,\ldots,5k+5,5k+7,5k+9]$

(a,b,c,d)		$r\{1^a,2^b,3^c,5^d\}$
$(0,7,1,5k+2)$		$[0,2,4,\ldots,5k+4,5k+6,5k+9,5k+7,\ldots,7,5,\ldots,5k+10,5k+8,\ldots,3,1,\ldots,5k+1]$
$(0,4,2,5k+2)$	P	$[0,\ldots,5k+5,5k+7,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3,5k+6,5k+8]$
$(0,5,2,5k+2)$		$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+9,5k+7,5k+5,\ldots,5,3,\ldots,5k+8]$
$(0,6,2,5k+2)$	P	$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+9,5k+7,5k+5,\ldots,5,3,\ldots,5k+8,5k+10]$
$(0,4,3,5k+2)$		$[0,\ldots,5k+5,5k+8,5k+6,5k+9,5k+7,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3]$
$(0,5,3,5k+2)$		$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+6,5k+9,5k+7,5k+10,5k+8,\ldots,3,5,\ldots,5k+5]$
$(0,4,1,5k+6)$		$[0,\ldots,5k+10,5k+7,\ldots,2,4,\ldots,5k+9,5k+11,5k+6,5k+8,\ldots,3,1,\ldots,5k+1]$
$(0,4,2,5k+1)$		$[0,2,\ldots,5k+7,5k+5,\ldots,5,3,\ldots,5k+3,5k+6,5k+4,\ldots,4,1,\ldots,5k+1]$
$(0,4,3,5k+1)$		$[0,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+1,5k+3,\ldots,3,5,\ldots,5k+5,5k+8,5k+6]$
$(0,5,1,5k+1)$		$[0,2,4,\ldots,5k+4,5k+7,\ldots,7,5,\ldots,5k+5,5k+3,\ldots,3,1,\ldots,5k+6]$
$(0,5,2,5k+1)$		$[0,2,5,\ldots,5k+5,5k+7,\ldots,7,4,\ldots,5k+4,5k+6,5k+8,\ldots,3,1,\ldots,5k+1]$
$(0,5,3,5k+1)$		$[0,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+8,5k+5,\ldots,5,7,\ldots,5k+7,5k+9,5k+6]$
$(0,6,2,5k+1)$		$[0,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+8,5k+6,5k+9,5k+7,\ldots,7,5,\ldots,5k+5]$
$(0,4,1,5k)$	P	$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+1,5k+3,\ldots,3,5,\ldots,5k+5]$
$(0,4,2,5k)$	P	$[0,2,\ldots,5k+2,5k+5,\ldots,5,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4,5k+6]$
$(0,4,3,5k)$		$[0,2,5,\ldots,5k+5,5k+7,\ldots,7,4,\ldots,5k+4,5k+6,5k+3,\ldots,3,1,\ldots,5k+1]$
$(0,4,4,5k)$	P	$[0,2,5,\ldots,5k+5,5k+7,\ldots,7,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3,5k+6,5k+8]$
$(0,5,1,5k+5)$		$[0,\ldots,5k+10,5k+8,\ldots,3,1,\ldots,5k+11,5k+9,5k+7,5k+4,\ldots,4,2,\ldots,5k+2]$
$(0,5,2,5k+5)$		$[0,\ldots,5k+5,5k+3,\ldots,3,1,\ldots,5k+11,5k+8,5k+10,5k+12,5k+9,\ldots,4,2,\ldots,5k+7]$
$(0,5,3,5k)$		$[0,\ldots,5k,5k+2,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3,5k+6,5k+8,5k+5,5k+7]$
$(0,6,1,5k+5)$		$[0,2,\ldots,5k+12,5k+10,\ldots,5,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+9,5k+11,5k+6,5k+8]$
$(0,4,1,5k+4)$	P	$[0,2,\ldots,5k+7,5k+5,\ldots,5,3,\ldots,5k+8,5k+6,\ldots,1,4,\ldots,5k+9]$
$(0,4,2,5k+4)$		$[0,\ldots,5k+5,5k+7,5k+10,5k+8,\ldots,3,1,\ldots,5k+6,5k+9,\ldots,4,2,\ldots,5k+2]$
$(0,4,3,5k+4)$	P	$[0,\ldots,5k+10,5k+7,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+8,5k+6,5k+9,5k+11]$
$(0,5,1,5k+4)$		$[0,2,4,\ldots,5k+9,5k+6,\ldots,1,3,\ldots,5k+8,5k+10,\ldots,5,7,\ldots,5k+7]$
$(0,6,1,5k+4)$		$[0,\ldots,5k+10,5k+8,5k+6,5k+11,5k+9,5k+7,\ldots,2,4,\ldots,5k+4,5k+1,\ldots,1,3,\ldots,5k+3]$
$(0,5,2,5k+4)$		$[0,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+11,5k+9,5k+7,5k+10,\ldots,5,3,\ldots,5k+8]$

PROPOSITION 3.9

(a,b,c,d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(1,0,3t+5,3)$		$[0,3,6,1,4,9,\ldots,3t+9,3t+8,\ldots,2,7,\ldots,3t+7]$
$(1,0,3t+6,3)$		$[0,3,6,1,4,9,\ldots,3t+9,3t+10,\ldots,7,2,\ldots,3t+8]$
$(1,0,3t+7,3)$	P	$[0,3,6,1,4,9,\ldots,3t+9,3t+10,\ldots,7,2,\ldots,3t+11]$
$(1,0,3t+5,4)$	P	$[0,3,8,\ldots,3t+8,3t+9,\ldots,6,1,4,7,2,5,10,\ldots,3t+10]$
$(1,0,3t+6,4)$		$[0,3,8,\ldots,3t+11,3t+10,\ldots,10,5,2,7,4,1,6,\ldots,3t+9]$
$(1,0,3t+7,4)$		$[0,3,8,\ldots,3t+11,3t+12,\ldots,6,1,4,7,2,5,10,\ldots,3t+10]$
$(1,0,4,5k+1)$		$[0,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+4,5k+5,\ldots,5,2,\ldots,5k+2]$
$(1,0,5,5k+1)$		$[0,3,\ldots,5k+3,5k+6,5k+5,\ldots,5,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+1]$
$(1,0,6,5k+1)$		$[0,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+4,5k+7,5k+8,5k+5,\ldots,5,2,\ldots,5k+2]$
$(1,0,7,5k+1)$		$[0,3,\ldots,5k+3,5k+6,5k+9,5k+8,5k+5,\ldots,5,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+1]$
$(1,0,3,5k+2)$		$[0,\ldots,5k+5,5k+2,\ldots,2,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+4]$
$(1,0,5,5k+2)$		$[0,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+5,5k+8,\ldots,3,6,\ldots,5k+6]$
$(1,0,6,5k+2)$	P	$[0,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+5,5k+8,\ldots,3,6,\ldots,5k+6,5k+9]$
$(1,0,7,5k+7)$		$[0,3,6,1,4,\ldots,5k+14,5k+15,5k+12,\ldots,2,5,\ldots,5k+10,5k+13,\ldots,8,11,\ldots,5k+11]$
$(1,0,4,5k+5)$		$[0,\ldots,5k+10,5k+7,\ldots,2,1,4,\ldots,5k+9,5k+6,\ldots,6,3,\ldots,5k+8]$
$(1,0,5,5k+5)$		$[0,3,\ldots,5k+8,5k+11,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+10,5k+9]$
$(1,0,6,5k+5)$		$[0,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+9,5k+12,\ldots,2,5,\ldots,5k+10,5k+11,5k+8]$
$(1,0,7,5k+5)$		$[0,3,\ldots,5k+8,5k+11,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+10,5k+13,5k+12,5k+9]$
$(1,0,3,5k+4)$		$[0,\ldots,5k+5,5k+8,\ldots,3,2\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+6]$
$(1,0,4,5k+4)$	P	$[0,3,\ldots,5k+8,5k+5,\ldots,5,2,\ldots,5k+7,5k+6,\ldots,1,4,\ldots,5k+9]$
$(1,0,5,5k+4)$	P	$[0,3,\ldots,5k+8,5k+9,5k+6,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+10]$
$(1,0,6,5k+4)$		$[0,3,\ldots,5k+8,5k+5,\ldots,5,2,\ldots,5k+7,5k+10,5k+11,5k+6,5k+9,\ldots,4,1,\ldots,5k+1]$
$(1,0,7,5k+4)$		$[0,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+9,5k+12,\ldots,2,5,\ldots,5k+5,5k+8,5k+11,5k+10]$
$(1,0,5,5k+3)$		$[0,3,\ldots,5k+8,5k+9,5k+6,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,5,\ldots,5k+5]$
$(1,0,6,5k+3)$	P	$[0,3,\ldots,5k+3,5k+6,\ldots,1,4,\ldots,5k+9,5k+8,5k+5,\ldots,5,2,\ldots,5k+7,5k+10]$

PROPOSITION 3.10

(a,b,c,d)	$r\{1^a, 2^b, 3^c, 5^d\}$
$(1,1,3t+3,1)$	$[0,\ldots,3t,3t+5,\ldots,2,1,\ldots,3t+4,3t+6,3t+3]$
$(1,1,3t+4,1)$	$[0,3,2,\ldots,3t+5,3t+7,\ldots,1,6,\ldots,3t+6]$
$(1,1,3t+5,1)$	$[0,3,2,\ldots,3t+8,3t+6,\ldots,6,1,\ldots,3t+7]$
$(1,1,3t+5,2)$	$[0,\ldots,3t+9,3t+4,\ldots,1,2,\ldots,3t+2,3t+7,3t+5,3t+8]$
$(1,1,3t+5,3)$	$[0,5,2,3,8,\ldots,3t+8,3t+10,\ldots,1,6,\ldots,3t+9]$
$(1,1,2,5k)$	$[0,\ldots,5k,5k+3,\ldots,3,2,\ldots,5k+2,5k+4,\ldots,4,1,\ldots,5k+1]$
$(1,1,2,5k+1)$	$[0,\ldots,5k+5,5k+2,\ldots,2,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4]$
$(1,1,2,5k+3)$	$[0,\ldots,5k+5,5k+3,\ldots,3,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+6]$
$(1,1,3,5k)$	$[0,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4,5k+5,\ldots,5,2,\ldots,5k+2]$
$(1,1,3,5k+1)$	$[0,\ldots,5k+5,5k+2,\ldots,2,3,\ldots,5k+3,5k+6,5k+4,\ldots,4,1,\ldots,5k+1]$
$(1,1,3,5k+2)$	$[0,\ldots,5k+5,5k+7,5k+4,\ldots,4,1,\ldots,5k+6,5k+3,\ldots,3,2,\ldots,5k+2]$
$(1,1,3,5k+3)$	$[0,\ldots,5k+5,5k+8,5k+6,\ldots,1,4,\ldots,5k+4,5k+7,\ldots,2,3,\ldots,5k+3]$
$(1,1,3,5k+4)$	$[0,\ldots,5k+5,5k+7,\ldots,2,1,4,\ldots,5k+9,5k+6,\ldots,6,3,\ldots,5k+8]$
$(1,1,4,5k)$	$[0,3,\ldots,5k+3,5k+6,5k+4,\ldots,4,1,\ldots,5k+1,5k+2,\ldots,2,5,\ldots,5k+5]$

PROPOSITION 3.11

(a,b,c,d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(1,2,3t+2,1)$		$[0,\ldots,3t+3,3t+5,\ldots,2,1,\ldots,3t+1,3t+6,3t+4]$
$(1,2,3t+3,1)$		$[0,2,\ldots,3t+2,3t+7,\ldots,1,3,\ldots,3t+6,3t+5]$
$(1,2,3t+4,1)$	P	$[0,2,\ldots,3t+2,3t+7,\ldots,1,3,\ldots,3t+6,3t+5,3t+8]$
$(1,2,3t+3,2)$		$[0,2,5,3,8,\ldots,3t+8,3t+7,\ldots,1,6,\ldots,3t+6]$
$(1,2,3t+4,2)$	P	$[0,2,5,3,8,\ldots,3t+8,3t+7,\ldots,1,6,\ldots,3t+9]$
$(1,2,3t+5,2)$	P	$[0,2,5,3,8,\ldots,3t+8,3t+9,\ldots,6,1,\ldots,3t+10]$
$(1,2,1,5k)$	P	$[0,\ldots,5k,5k+2,\ldots,2,3,\ldots,5k+3,5k+1,\ldots,1,4,\ldots,5k+4]$
$(1,2,1,5k+1)$		$[0,\ldots,5k+5,5k+2,\ldots,2,4,\ldots,5k+4,5k+3,\ldots,3,1,\ldots,5k+1]$
$(1,2,1,5k+2)$	P	$[0,\ldots,5k+5,5k+2,\ldots,2,4,\ldots,5k+4,5k+3,\ldots,3,1,\ldots,5k+6]$
$(1,2,1,5k+4)$		$[0,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+7,\ldots,2,4,\ldots,5k+4]$
$(1,2,2,5k+2)$	P	$[0,\ldots,5k+5,5k+6,5k+3,\ldots,3,1,\ldots,5k+1,5k+4,\ldots,4,2,\ldots,5k+7]$
$(1,2,2,5k+3)$	P	$[0,\ldots,5k+5,5k+3,\ldots,3,2,\ldots,5k+7,5k+4,\ldots,4,1,\ldots,5k+6,5k+8]$
$(1,2,2,5k+4)$		$[0,\ldots,5k+5,5k+7,\ldots,2,3,\ldots,5k+8,5k+6,5k+9,\ldots,4,1,\ldots,5k+1]$
$(1,2,3,5k+3)$	P	$[0,2,5,\ldots,5k+5,5k+8,\ldots,3,1,\ldots,5k+6,5k+7,\ldots,7,4,\ldots,5k+9]$

PROPOSITION 3.12

(a, b, c, d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(1, 2v+6, 0, 1)$		$[0, 2, 4, 6, 1, \ldots, 2v+7, 2v+8, \ldots, 8]$
$(1, 2v+7, 0, 1)$		$[0, 2, 4, 6, 1, \ldots, 2v+9, 2v+8, \ldots, 8]$
$(1, 3, 0, 5k)$		$[0, \ldots, 5k, 5k+2, \ldots, 2, 4, \ldots, 5k+4, 5k+3, \ldots 3, 1, \ldots, 5k+1]$
$(1, 3, 0, 5k+1)$		$[0, \ldots, 5k+5, 5k+3, \ldots, 3, 1, \ldots, 5k+1, 5k+2, \ldots, 2, 4, \ldots, 5k+4]$
$(1, 3, 0, 5k+3)$		$[0, \ldots, 5k+5, 5k+7, \ldots, 2, 4, \ldots, 5k+4, 5k+3, \ldots, 3, 1, \ldots, 5k+6]$
$(1, 4, 0, 5k)$		$[0, 2, \ldots, 5k+2, 5k+4, \ldots, 4, 5, \ldots, 5k+5, 5k+3, \ldots 3, 1, \ldots, 5k+1]$
$(1, 4, 0, 5k+1)$	P	$[0, \ldots, 5k+5, 5k+3, \ldots, 3, 1, \ldots, 5k+1, 5k+2, \ldots, 2, 4, \ldots, 5k+4, 5k+6]$
$(1, 4, 0, 5k+2)$		$[0, 1, \ldots, 5k+6, 5k+4, \ldots, 4, 2, \ldots, 5k+7, 5k+5, \ldots, 5, 3, \ldots, 5k+3]$
$(1, 5, 0, 5k)$		$[0, \ldots, 5k, 5k+2, \ldots, 2, 4, \ldots, 5k+4, 5k+6, 5k+5, 5k+3, \ldots, 3, 1, \ldots, 5k+1]$
$(1, 5, 0, 5k+2)$		$[0, 2, \ldots, 5k+7, 5k+5, \ldots, 5, 4, \ldots, 5k+4, 5k+6, 5k+8, \ldots, 3, 1, \ldots, 5k+1]$
$(1, 6, 0, 5k)$		$[0, \ldots, 5k, 5k+2, \ldots, 2, 4, \ldots, 5k+4, 5k+6, 5k+7, 5k+5, 5k+3, \ldots, 3, 1, \ldots, 5k+1]$
$(1, 6, 0, 5k+2)$		$[0, 2, 1, 3, \ldots, 5k+8, 5k+6, \ldots, 6, 4, \ldots, 5k+9, 5k+7, \ldots, 7, 5, \ldots, 5k+5]$

LEMMA 3.13

(a, b, c, d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(2, 0, 2, 5k)$	P	$[0, \ldots, 5k, 5k+3, \ldots, 3, 2, \ldots, 5k+2, 5k+1, \ldots, 1, 4, \ldots, 5k+4]$
$(2, 0, 2, 5k+1)$		$[0, \ldots, 5k+5, 5k+2, \ldots, 2, 1, \ldots, 5k+1, 5k+4, \ldots, 4, 3, \ldots, 5k+3]$
$(2, 0, 2, 5k+2)$	P	$[0, \ldots, 5k+5, 5k+2, \ldots, 2, 3, \ldots, 5k+3, 5k+4, \ldots, 4, 1, \ldots, 5k+6]$
$(2, 0, 2, 5k+3)$	P	$[0, \ldots, 5k+5, 5k+4, \ldots, 4, 1, \ldots, 5k+6, 5k+3, \ldots, 3, 2, \ldots, 5k+7]$
$(2, 0, 2, 5k+4)$	P	$[0, \ldots, 5k+5, 5k+6, \ldots, 1, 4, \ldots, 5k+4, 5k+7, \ldots, 2, 3, \ldots, 5k+8]$
$(2, 1, 1, 5k)$		$[0, \ldots, 5k, 5k+1, \ldots, 1, 4, \ldots, 5k+4, 5k+2, \ldots, 2, 3, \ldots, 5k+3]$
$(2, 1, 1, 5k+1)$		$[0, \ldots, 5k+5, 5k+2, \ldots, 2, 1, \ldots, 5k+1, 5k+3, \ldots, 3, 4, \ldots, 5k+4]$
$(2, 1, 1, 5k+2)$		$[0, \ldots, 5k+5, 5k+2, \ldots, 2, 1, \ldots, 5k+6, 5k+4, \ldots, 4, 3, \ldots, 5k+3]$
$(2, 1, 1, 5k+3)$		$[0, \ldots, 5k+5, 5k+7, \ldots, 2, 1, \ldots, 5k+6, 5k+3, \ldots, 3, 4, \ldots, 5k+4]$
$(2, 1, 1, 5k+4)$		$[0, \ldots, 5k+5, 5k+8, \ldots, 3, 4, \ldots, 5k+4, 5k+6, \ldots, 1, 2, \ldots, 5k+7]$
$(2, 2, 0, 5k)$	P	$[0, \ldots, 5k, 5k+1, \ldots, 1, 3, \ldots, 5k+3, 5k+2, \ldots, 2, 4, \ldots, 5k+4]$
$(2, 2, 0, 5k+1)$		$[0, \ldots, 5k+5, 5k+3, \ldots, 3, 4, \ldots, 5k+4, 5k+2, \ldots, 2, 1, \ldots, 5k+1]$
$(2, 2, 0, 5k+2)$	P	$[0, \ldots, 5k+5, 5k+3, \ldots, 3, 4, \ldots, 5k+4, 5k+2, \ldots, 2, 1, \ldots, 5k+6]$
$(2, 2, 0, 5k+3)$	P	$[0, \ldots, 5k+5, 5k+6, \ldots, 1, 3, \ldots, 5k+3, 5k+4, \ldots, 4, 2, \ldots, 5k+7]$
$(2, 2, 0, 5k+4)$	P	$[0, \ldots, 5k+5, 5k+4, \ldots, 4, 2, \ldots, 5k+7, 5k+6, \ldots, 1, 3, \ldots, 5k+8]$

(a,b,c,d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(2,0,3t+3,1)$		$[0,3,2,\ldots,3t+5,3t+6,\ldots,6,1,\ldots,3t+4]$
$(2,0,3t+4,1)$	P	$[0,3,2,\ldots,3t+5,3t+6,\ldots,6,1,\ldots,3t+7]$
$(2,0,3t+5,1)$		$[0,3,2,\ldots,3t+8,3t+7,\ldots,1,6,\ldots,3t+6]$
$(2,0,3,5k)$	P	$[0,3,\ldots,5k+3,5k+4,\ldots,4,1,\ldots,5k+1,5k+2,\ldots,2,5,\ldots,5k+5]$
$(2,0,3,5k+1)$	P	$[0,3,\ldots,5k+3,5k+2,\ldots 2,5,\ldots,5k+5,5k+4,\ldots,4,1,\ldots,5k+6]$
$(2,0,3,5k+3)$		$[0,3,\ldots,5k+8,5k+7,\ldots,2,5,\ldots,5k+5,5k+6,\ldots,1,4,\ldots,5k+4]$
$(2,1,2,5k+2)$		$[0,3,\ldots,5k+3,5k+5,\ldots,5,4,\ldots,5k+4,5k+7,\ldots,2,1,\ldots,5k+6]$
$(2,1,2,5k+4)$		$[0,\ldots,5k+5,5k+7,\ldots,2,3,\ldots,5k+8,5k+9,5k+6,\ldots,1,4,\ldots,5k+4]$
$(2,2,1,5k+3)$	P	$[0,\ldots,5k+5,5k+3,\ldots,3,4,\ldots,5k+4,5k+7,\ldots,2,1,\ldots,5k+6,5k+8]$
$(2,3,0,5k+2)$		$[0,2,\ldots,5k+7,5k+5,\ldots,5,4,\ldots,5k+4,5k+3,\ldots,3,1,\ldots,5k+6]$
$(2,3,0,5k+4)$		$[0,\ldots,5k+5,5k+7,5k+9,\ldots,4,3,\ldots,5k+8,5k+6,\ldots,1,2,\ldots,5k+2]$

LEMMA 3.14

(a,b,c,d)		$r\{1^a, 2^b, 3^c, 5^d\}$
$(3,0,1,5k)$		$[0,\ldots,5k,5k+1,\ldots,1,4,\ldots,5k+4,5k+3,\ldots,3,2,\ldots,5k+2]$
$(3,0,1,5k+1)$		$[0,\ldots,5k+5,5k+4,\ldots,4,1,\ldots,5k+1,5k+2,\ldots,2,3,\ldots,5k+3]$
$(3,0,1,5k+2)$		$[0,\ldots,5k+5,5k+6,\ldots,1,4,\ldots,5k+4,5k+3,\ldots,3,2,\ldots,5k+2]$
$(3,0,1,5k+3)$		$[0,\ldots,5k+5,5k+6,\ldots,1,2,\ldots,5k+7,5k+4,\ldots,4,3,\ldots,5k+3]$
$(3,0,1,5k+4)$	P	$[0,\ldots,5k+5,5k+6,\ldots,1,2,\ldots,5k+7,5k+4,\ldots,4,3,\ldots,5k+8]$
$(3,1,0,5k)$		$[0,\ldots,5k,5k+1,\ldots,1,2,\ldots,5k+2,5k+4,\ldots,4,3,\ldots,5k+3]$
$(3,1,0,5k+1)$		$[0,\ldots,5k+5,5k+4,\ldots,4,3,\ldots,5k+3,5k+1,\ldots,1,2,\ldots,5k+2]$
$(3,1,0,5k+2)$		$[0,\ldots,5k+5,5k+6,\ldots,1,2,\ldots,5k+2,5k+4,\ldots,4,3,\ldots,5k+3]$
$(3,1,0,5k+4)$		$[0,\ldots,5k+5,5k+4,\ldots,4,3,\ldots,5k+8,5k+6,\ldots,1,2,\ldots,5k+7]$
$(4,0,0,5k)$	P	$[0,\ldots,5k,5k+1,\ldots,1,2\ldots,5k+2,5k+3,\ldots,3,4,\ldots,5k+4]$
$(4,0,0,5k+1)$		$[0,\ldots,5k+5,5k+4,\ldots,4,3,\ldots,5k+3,5k+2,\ldots,2,1,\ldots,5k+1]$
$(4,0,0,5k+2)$		$[0,\ldots,5k+5,5k+6,\ldots,1,2,\ldots,5k+2,5k+3,\ldots,3,4,\ldots,5k+4]$
$(4,0,0,5k+4)$		$[0,\ldots,5k+5,5k+4,\ldots,4,3,\ldots,5k+8,5k+7,\ldots,2,1\ldots,5k+6]$
$(4,1,0,5k+3)$		$[0,\ldots,5k+5,5k+6,\ldots,1,2,\ldots,5k+2,5k+4,\ldots,4,3,\ldots,5k+8,5k+7]$
$(5,0,0,5k+3)$		$[0,\ldots,5k+5,5k+4,\ldots,4,3,\ldots,5k+8,5k+7,5k+6,\ldots,1,2\ldots,5k+2]$

THEOREM 2.4

(a,b,c,d)	$r\{1^a, 2^b, 3^c, 5^d\}$
$(1,3,1,5k+3)$	$[0,\ldots,5k+5,5k+8,5k+6,\ldots,1,3,\ldots,5k+3,5k+4,\ldots,4,2,\ldots,5k+7]$

References

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