

first in set	last in set	count	root of first in set	root length
1	$2k + 1$	$2k + 1$	$a^{k-1}baa^{k-1}ba^{k-1}ba$	$3k + 2$
$2k + 2$	$3k + 2$	$k + 1$	NONE	0
$3k + 3$	$4k + 1$	$k - 1$	$a^{k-1}ba$	$k + 1$
$4k + 2$	$4k + 2$	1	$baa^{k-1}ba^{k-1}$	$2k + 1$
$4k + 3$	$4k + 3$	1	NONE	0
$4k + 4$	$5k + 3$	k	$a^{k-1}b$	k
$5k + 4$	$6k + 3$	k	$a^{k-1}ba^kbaa$	$2k + 3$