S = a b a b b a b a b b a b b a b a b b a $
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0

$S_0 = \{ 0, 3, 6, 9, 12, 15, 18, 21 \}$

$S_{12} = [22] - S_0$

3-grams and their names:

a b a	0
a b b	1
b a b	2
b b a	3
b $ $	4
b b $	5

$S^1 = \underbrace{2\,2\,1\,1\,0\,3\,5}_{(i)}\ \underbrace{1\,0\,3\,3\,2\,2\,4}_{(ii)}$

RECURSIVE CALL

S = 2 2 1 1 0 3 5 1 0 3 3 2 2 4 $
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
0 1 2 0 1 2 0 1 2 0 1 2 0 1 2

$S_0 = \{0, 3, 6, 9, 12\}$

$S_{12} = [15] - S_0$

3-grams and their names →

$ $ $	0
0 3 3	1
0 3 5	2
1 0 3	3
1 1 0	4
2 1 1	5
2 2 1	6
2 2 4	7
2 4 $	8
3 2 2	9
3 3 2	10
3 5 1	11
4 $ $	12
5 1 0	13

5 2 3 9 12

$S^1 = \underbrace{2\,3\,13\,10\,0}_{(i)}\ \underbrace{4\,11\,1\,7\,0}_{(ii)}$

Recursion ends as all symbols are distinct