

Number of required components to represent each combination														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	18	77	58	25	33	37	37	43	39	41	43	45	44	38
1	77	77	102	81	86	89	89	92	90	91	90	94	93	89
2	58	102	44	51	57	60	60	64	62	63	65	67	66	60
3	25	81	51	9	24	29	29	35	32	33	37	37	36	30
4	33	86	57	24	17	35	35	41	38	40	44	44	43	36
5	37	89	60	29	35	21	39	44	42	42	46	46	46	39
6	37	89	60	29	35	39	21	45	42	43	47	47	46	40
7	43	92	64	35	41	44	45	28	42	48	52	52	51	45
8	39	90	62	32	38	42	42	42	24	45	48	50	48	42
9	41	91	63	33	40	42	43	48	45	25	50	44	50	42
10	43	90	65	37	44	46	47	52	48	50	30	54	53	48
11	45	94	67	37	44	46	47	52	50	44	54	30	54	48
12	44	93	66	36	43	46	46	51	48	50	53	54	28	46
13	38	89	60	30	36	39	40	45	42	42	48	48	46	22

Label	
0	capital-common-countries
1	capital-world
2	city-in-state
3	currency
4	family
5	gram1-adjective-to-adverb
6	gram2-opposite
7	gram3-comparative
8	gram4-superlative
9	gram5-present-participle
10	gram6-nationality-adjective
11	gram7-past-tense
12	gram8-plural
13	gram9-plural-verbs

Color Meaning	
	Class alone
	$Combination = Sum$
	$0.9Sum < Combination < 1.1Sum$
	$Combination \leq 0.9Sum$
	$Combination \geq 1.1Sum$