

Number of required components to represent each combination														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	23	112	88	35	46	48	50	60	55	56	64	63	60	52
1	112	112	177	124	135	137	139	149	144	145	153	152	149	141
2	88	177	65	77	88	90	92	102	97	98	106	105	102	94
3	35	124	77	12	35	37	39	49	44	45	53	52	49	41
4	46	135	88	35	23	48	50	60	55	56	64	63	60	52
5	48	137	90	37	48	25	52	62	57	58	66	65	62	54
6	50	139	92	39	50	52	27	64	59	60	68	67	64	56
7	60	149	102	49	60	62	64	37	69	70	78	77	74	66
8	55	144	97	44	55	57	59	69	32	65	73	72	69	61
9	56	145	98	45	56	58	60	70	65	33	74	72	70	62
10	64	153	106	53	64	66	68	78	73	74	41	81	78	70
11	63	152	105	52	63	65	67	77	72	72	81	40	77	69
12	60	149	102	49	60	62	64	74	69	70	78	77	37	66
13	52	141	94	41	52	54	56	66	61	62	70	69	66	29

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
	$Combination = Sum$
	$0.9Sum < Combination < 1.1Sum$
	$Combination \leq 0.9Sum$
	$Combination \geq 1.1Sum$