

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	1 1 1 1 1 1 1 1 2 2 8 8	15	7.86814E+38	
	1 1 1 1 1 1 1 2 2 2 7 8	40	8.39268E+39	
	0 1 1 1 1 1 2 2 2 2 7 8	180	1.88835E+40	
	0 1 1 1 1 1 1 2 2 2 8 8	140	3.6718E+39	
	0 0 1 1 1 2 2 2 2 2 7 8	120	6.29451E+39	
	0 0 1 1 1 1 2 2 2 2 8 8	225	2.95055E+39	
	0 0 0 1 1 2 2 2 2 2 8 8	60	3.93407E+38	
5	0 0 0 1 2 2 2 2 2 2 7 7	4	2.26829E+37	5.52581E+40
	0 0 0 0 2 2 2 2 2 2 7 8	2	1.41768E+36	
	0 1 1 1 2 2 2 2 2 2 6 6	4	1.11146E+39	
	0 0 0 0 1 2 2 2 2 2 8 8	30	5.31631E+36	
	0 0 1 1 2 2 2 2 2 2 6 7	12	4.76341E+38	
	0 0 0 1 2 2 2 2 2 2 6 8	8	3.96951E+37	
	1 1 1 1 1 1 1 1 1 2 8 8	6	1.70122E+37	
	1 1 1 1 1 1 1 2 2 2 7 7	20	9.07317E+38	
	0 1 1 1 1 1 1 1 2 2 8 8	120	1.70122E+38	
	1 1 1 1 1 1 1 1 2 2 7 8	30	3.40244E+38	
	0 0 1 1 1 1 1 2 2 2 8 8	420	2.97713E+38	
	0 0 0 1 1 1 2 2 2 2 8 8	300	1.06326E+38	
	0 0 1 1 1 2 2 2 2 2 7 7	60	6.80488E+38	
	0 0 0 1 1 2 2 2 2 2 7 8	120	1.70122E+38	
	0 1 1 1 1 1 2 2 2 2 7 7	90	2.04146E+39	
	0 1 1 1 1 1 1 2 2 2 7 8	280	1.5878E+39	
	0 0 1 1 1 1 2 2 2 2 7 8	450	1.27591E+39	
	1 1 1 1 1 2 2 2 2 2 6 6	6	3.33439E+39	
	1 1 1 1 1 1 2 2 2 2 6 7	30	4.76341E+39	
	1 1 1 1 1 1 1 2 2 2 6 8	40	1.5878E+39	
	0 1 1 1 1 2 2 2 2 2 6 7	60	4.76341E+39	
	0 1 1 1 1 1 2 2 2 2 6 8	180	3.57256E+39	
	0 0 1 1 1 2 2 2 2 2 6 8	120	1.19085E+39	
	1 1 1 1 2 2 2 2 2 2 5 6	2	3.33439E+39	
	0 1 1 1 2 2 2 2 2 2 5 7	8	1.90537E+39	
	0 0 1 1 2 2 2 2 2 2 5 8	12	3.57256E+38	
	1 1 1 1 1 2 2 2 2 2 5 7	12	5.7161E+39	
	1 1 1 1 1 1 2 2 2 2 5 8	30	3.57256E+39	
	0 1 1 1 1 2 2 2 2 2 5 8	60	3.57256E+39	
	1 1 1 1 2 2 2 2 2 2 4 7	2	2.38171E+39	
	0 1 1 1 2 2 2 2 2 2 4 8	8	1.19085E+39	
	1 1 1 1 1 2 2 2 2 2 4 8	12	3.57256E+39	
	1 1 1 1 2 2 2 2 2 2 3 8	2	1.19085E+39	
6	1 1 1 1 2 2 2 2 2 2 5 5	1	2.63241E+38	1.10607E+40
	1 1 1 1 1 1 1 1 1 1 8 8	1	1.4923E+35	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 2 2 2 2 2 2 7 7	1	1.4923E+35	
	0 0 1 1 2 2 2 2 2 2 6 6	6	4.38735E+37	
	0 0 0 1 2 2 2 2 2 2 6 7	8	8.35687E+36	
	0 0 0 0 2 2 2 2 2 2 6 8	2	2.61152E+35	
	0 1 1 1 2 2 2 2 2 2 5 6	8	3.50988E+38	
	1 1 1 1 1 1 1 1 2 2 7 7	15	3.58151E+37	
	1 1 1 1 1 1 1 1 1 2 7 8	12	7.16303E+36	
	1 1 1 1 1 1 2 2 2 2 6 6	15	4.38735E+38	
	0 1 1 1 1 2 2 2 2 2 6 6	30	4.38735E+38	
	1 1 1 1 1 2 2 2 2 2 5 6	12	1.05297E+39	
	1 1 1 1 2 2 2 2 2 2 4 6	2	4.38735E+38	
	0 0 1 1 2 2 2 2 2 2 5 7	12	7.52118E+37	
	0 0 0 1 2 2 2 2 2 2 5 8	8	6.26765E+36	
	0 1 1 1 2 2 2 2 2 2 4 7	8	2.50706E+38	
	1 1 1 1 1 1 2 2 2 2 5 7	30	7.52118E+38	
	0 1 1 1 1 2 2 2 2 2 5 7	60	7.52118E+38	
	1 1 1 1 1 2 2 2 2 2 4 7	12	7.52118E+38	
	1 1 1 1 2 2 2 2 2 2 3 7	2	2.50706E+38	
	0 1 1 1 2 2 2 2 2 2 3 8	8	1.25353E+38	
	1 1 1 1 1 2 2 2 2 2 3 8	12	3.76059E+38	
	1 1 1 1 2 2 2 2 2 2 2 8	2	9.40147E+37	
	1 1 1 1 1 1 2 2 2 2 4 8	30	4.70074E+38	
	0 1 1 1 1 2 2 2 2 2 4 8	60	4.70074E+38	
	0 0 1 1 2 2 2 2 2 2 4 8	12	4.70074E+37	
	1 1 1 1 1 1 1 1 2 2 6 7	40	3.34275E+38	
	1 1 1 1 1 1 1 1 2 2 6 8	30	6.26765E+37	
	1 1 1 1 1 1 1 1 2 2 5 8	40	2.50706E+38	
	0 1 1 1 1 1 2 2 2 2 6 7	180	7.52118E+38	
	0 1 1 1 1 1 2 2 2 2 5 8	180	5.64088E+38	
	0 0 1 1 1 2 2 2 2 2 6 7	120	2.50706E+38	
	0 0 1 1 1 2 2 2 2 2 5 8	120	1.88029E+38	
	0 1 1 1 1 1 1 1 1 2 8 8	54	4.0292E+36	
	0 1 1 1 1 1 1 2 2 2 7 7	140	1.67137E+38	
	0 1 1 1 1 1 1 1 2 2 7 8	240	7.16303E+37	
	0 1 1 1 1 1 1 2 2 2 6 8	280	2.9249E+38	
	0 0 1 1 1 1 2 2 2 2 7 7	225	1.34307E+38	
	0 0 1 1 1 1 2 2 2 2 6 8	450	2.35037E+38	
	0 0 1 1 1 1 1 1 2 2 8 8	420	1.56691E+37	
	0 0 1 1 1 1 1 2 2 2 7 8	840	1.25353E+38	
	0 0 0 0 0 2 2 2 2 2 8 8	6	2.79806E+34	
	0 0 0 1 1 2 2 2 2 2 7 7	60	1.79076E+37	
	0 0 0 0 1 2 2 2 2 2 7 8	60	2.23845E+36	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 0 0 1 1 2 2 2 2 2 6 8	120	3.13382E+37	
	0 0 0 1 1 1 2 2 2 2 7 8	600	4.47689E+37	
	0 0 0 1 1 1 1 2 2 2 8 8	700	1.30576E+37	
	0 0 0 0 1 1 2 2 2 2 8 8	225	2.09854E+36	
7	0 0 0 1 2 2 2 2 2 2 6 6	4	7.49975E+35	1.92039E+39
	0 0 0 0 2 2 2 2 2 2 6 7	2	5.35697E+34	
	0 1 1 1 2 2 2 2 2 2 5 5	4	2.69991E+37	
	0 0 0 0 0 2 2 2 2 2 7 8	12	1.14792E+34	
	0 0 0 0 1 2 2 2 2 2 7 7	30	2.29584E+35	
	0 0 1 1 2 2 2 2 2 2 5 6	12	1.34996E+37	
	0 0 0 0 2 2 2 2 2 2 5 8	2	4.01772E+34	
	0 0 0 1 2 2 2 2 2 2 5 7	8	1.28567E+36	
	1 1 1 1 1 1 1 1 1 2 7 7	6	7.34669E+35	
	0 1 1 1 1 1 1 1 1 1 8 8	10	3.8264E+34	
	1 1 1 1 1 1 1 1 1 1 7 8	2	6.12225E+34	
	0 0 0 0 0 1 2 2 2 2 8 8	90	2.15235E+34	
	0 0 1 1 1 1 1 1 1 2 8 8	216	4.13252E+35	
	0 0 0 1 1 1 1 1 2 2 8 8	840	8.03545E+35	
	0 0 0 0 1 1 1 2 2 2 8 8	700	3.3481E+35	
	1 1 1 1 1 1 1 2 2 2 6 6	20	2.9999E+37	
	0 1 1 1 1 1 1 1 2 2 7 7	120	7.34669E+36	
	0 1 1 1 1 1 1 1 1 2 7 8	108	1.65301E+36	
	1 1 1 1 1 1 1 1 2 2 6 7	30	1.28567E+37	
	1 1 1 1 1 1 1 1 1 2 6 8	12	1.28567E+36	
	0 0 1 1 1 1 1 2 2 2 7 7	420	1.28567E+37	
	0 0 1 1 1 1 1 1 2 2 7 8	840	6.42836E+36	
	0 0 0 0 1 1 2 2 2 2 7 8	450	8.60941E+35	
	0 0 0 1 1 1 2 2 2 2 7 7	300	4.59168E+36	
	0 0 0 1 1 1 1 2 2 2 7 8	1400	5.35697E+36	
	0 0 1 1 1 2 2 2 2 2 6 6	60	2.24993E+37	
	0 0 0 1 1 2 2 2 2 2 6 7	120	6.42836E+36	
	0 0 0 0 1 2 2 2 2 2 6 8	60	4.01772E+35	
	0 1 1 1 1 1 2 2 2 2 6 6	90	6.74978E+37	
	0 1 1 1 1 1 1 2 2 2 6 7	280	5.9998E+37	
	0 1 1 1 1 1 1 1 2 2 6 8	240	1.28567E+37	
	0 0 1 1 1 1 2 2 2 2 6 7	450	4.82127E+37	
	0 0 1 1 1 1 1 2 2 2 6 8	840	2.24993E+37	
	0 0 0 1 1 1 2 2 2 2 6 8	600	8.03545E+36	
	1 1 1 1 1 2 2 2 2 2 5 5	6	8.09973E+37	
	1 1 1 1 1 1 2 2 2 2 5 6	30	1.34996E+38	
	1 1 1 1 1 1 1 2 2 2 5 7	40	5.14269E+37	
	1 1 1 1 1 1 1 1 2 2 5 8	30	9.64254E+36	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 1 1 1 1 2 2 2 2 2 5 6	60	1.34996E+38	
	0 1 1 1 1 1 2 2 2 2 5 7	180	1.1571E+38	
	0 1 1 1 1 1 1 2 2 2 5 8	280	4.49985E+37	
	0 0 0 1 1 2 2 2 2 2 5 8	120	4.82127E+36	
	0 0 1 1 1 2 2 2 2 2 5 7	120	3.85701E+37	
	0 0 1 1 1 1 2 2 2 2 5 8	450	3.61595E+37	
	1 1 1 1 2 2 2 2 2 2 4 5	2	6.74978E+37	
	0 1 1 1 2 2 2 2 2 2 4 6	8	4.49985E+37	
	0 0 1 1 2 2 2 2 2 2 4 7	12	9.64254E+36	
	0 0 0 1 2 2 2 2 2 2 4 8	8	8.03545E+35	
	1 1 1 1 1 2 2 2 2 2 4 6	12	1.34996E+38	
	1 1 1 1 1 1 2 2 2 2 4 7	30	9.64254E+37	
	1 1 1 1 1 1 1 2 2 2 4 8	40	3.21418E+37	
	0 1 1 1 1 2 2 2 2 2 4 7	60	9.64254E+37	
	0 1 1 1 1 1 2 2 2 2 4 8	180	7.2319E+37	
	0 0 1 1 1 2 2 2 2 2 4 8	120	2.41063E+37	
	1 1 1 1 2 2 2 2 2 2 3 6	2	4.49985E+37	
	0 1 1 1 2 2 2 2 2 2 3 7	8	2.57134E+37	
	0 0 1 1 2 2 2 2 2 2 3 8	12	4.82127E+36	
	1 1 1 1 1 2 2 2 2 2 3 7	12	7.71403E+37	
	1 1 1 1 1 1 2 2 2 2 3 8	30	4.82127E+37	
	0 1 1 1 1 2 2 2 2 2 3 8	60	4.82127E+37	
	1 1 1 1 2 2 2 2 2 2 2 7	2	1.92851E+37	
	0 1 1 1 2 2 2 2 2 2 2 8	8	9.64254E+36	
	1 1 1 1 1 2 2 2 2 2 2 8	14	3.37489E+37	
8	1 1 1 1 2 2 2 2 2 2 4 4	1	4.21861E+36	2.92329E+38
	1 1 1 1 1 1 1 1 1 1 7 7	1	6.12225E+33	
	0 0 0 0 2 2 2 2 2 2 6 6	1	4.68734E+33	
	0 0 1 1 2 2 2 2 2 2 5 5	6	1.01247E+36	
	0 0 0 1 2 2 2 2 2 2 5 6	8	2.24993E+35	
	0 0 0 0 0 2 2 2 2 2 7 7	6	1.14792E+33	
	0 0 0 0 2 2 2 2 2 2 5 7	2	8.03545E+33	
	0 1 1 1 2 2 2 2 2 2 4 5	8	6.74978E+36	
	1 1 1 1 1 1 1 1 1 2 2 6 6	15	1.12496E+36	
	0 1 1 1 1 1 1 1 1 2 7 7	54	1.65301E+35	
	1 1 1 1 1 1 1 1 1 2 6 7	12	2.57134E+35	
	0 1 1 1 1 1 1 1 1 1 7 8	20	1.53056E+34	
	1 1 1 1 1 1 1 1 1 1 6 8	2	1.07139E+34	
	1 1 1 1 1 1 2 2 2 2 5 5	15	1.01247E+37	
	0 1 1 1 1 2 2 2 2 2 5 5	30	1.01247E+37	
	1 1 1 1 1 2 2 2 2 2 4 5	12	2.02493E+37	
	1 1 1 1 2 2 2 2 2 2 3 5	2	6.74978E+36	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 0 1 1 2 2 2 2 2 2 4 6	12	1.68744E+36	
	0 0 0 1 2 2 2 2 2 2 4 7	8	1.60709E+35	
	0 0 0 0 2 2 2 2 2 2 4 8	2	5.02215E+33	
	0 0 1 1 1 2 2 2 2 2 5 6	120	6.74978E+36	
	0 1 1 1 2 2 2 2 2 2 3 6	8	4.49985E+36	
	1 1 1 1 1 1 1 2 2 2 5 6	40	8.9997E+36	
	1 1 1 1 1 1 1 1 2 2 5 7	30	1.92851E+36	
	1 1 1 1 1 1 1 1 1 2 5 8	12	1.92851E+35	
	0 1 1 1 1 1 2 2 2 2 5 6	180	2.02493E+37	
	1 1 1 1 1 1 2 2 2 2 4 6	30	1.68744E+37	
	0 1 1 1 1 2 2 2 2 2 4 6	60	1.68744E+37	
	1 1 1 1 1 2 2 2 2 2 3 6	12	1.34996E+37	
	1 1 1 1 2 2 2 2 2 2 2 6	2	3.37489E+36	
	0 0 1 1 2 2 2 2 2 2 3 7	12	9.64254E+35	
	0 0 0 1 2 2 2 2 2 2 3 8	8	8.03545E+34	
	0 1 1 1 2 2 2 2 2 2 2 7	8	1.92851E+36	
	1 1 1 1 1 1 2 2 2 2 3 7	30	9.64254E+36	
	0 1 1 1 1 2 2 2 2 2 3 7	60	9.64254E+36	
	1 1 1 1 1 2 2 2 2 2 2 7	14	6.74978E+36	
	1 1 1 1 1 1 2 2 2 2 2 8	42	5.06233E+36	
	0 1 1 1 1 2 2 2 2 2 2 8	70	4.21861E+36	
	0 0 1 1 2 2 2 2 2 2 2 8	12	3.61595E+35	
	1 1 1 1 1 1 1 2 2 2 4 7	40	6.42836E+36	
	1 1 1 1 1 1 1 1 2 2 4 8	30	1.20532E+36	
	1 1 1 1 1 1 1 2 2 2 3 8	40	3.21418E+36	
	0 1 1 1 1 1 2 2 2 2 4 7	180	1.44638E+37	
	0 1 1 1 1 1 2 2 2 2 3 8	180	7.2319E+36	
	0 0 1 1 1 2 2 2 2 2 4 7	120	4.82127E+36	
	0 0 1 1 1 2 2 2 2 2 3 8	120	2.41063E+36	
	0 1 1 1 1 1 1 2 2 2 6 6	140	5.24983E+36	
	0 1 1 1 1 1 1 1 2 2 6 7	240	2.57134E+36	
	0 1 1 1 1 1 1 1 1 2 6 8	108	2.89276E+35	
	0 1 1 1 1 1 1 2 2 2 5 7	280	8.9997E+36	
	0 1 1 1 1 1 1 1 2 2 5 8	240	1.92851E+36	
	0 1 1 1 1 1 1 2 2 2 4 8	280	5.62481E+36	
	0 0 1 1 1 1 2 2 2 2 6 6	225	4.21861E+36	
	0 0 1 1 1 1 2 2 2 2 5 7	450	7.2319E+36	
	0 0 1 1 1 1 2 2 2 2 4 8	450	4.51994E+36	
	0 0 0 1 1 2 2 2 2 2 6 6	60	5.62481E+35	
	0 0 0 0 1 2 2 2 2 2 6 7	60	8.03545E+34	
	0 0 0 0 0 2 2 2 2 2 6 8	12	2.00886E+33	
	0 0 0 1 1 2 2 2 2 2 5 7	120	9.64254E+35	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 1 2 2 2 2 2 5 8	60	6.02659E+34	
	0 0 0 1 1 2 2 2 2 2 4 8	120	6.02659E+35	
	0 0 1 1 1 1 1 1 1 1 8 8	45	4.3047E+33	
	0 0 1 1 1 1 1 1 2 2 7 7	420	6.42836E+35	
	0 0 1 1 1 1 1 1 2 7 8	432	1.65301E+35	
	0 0 1 1 1 1 2 2 2 6 7	840	4.49985E+36	
	0 0 1 1 1 1 2 2 6 8	840	1.12496E+36	
	0 0 1 1 1 2 2 2 5 8	840	3.37489E+36	
	0 0 0 1 1 2 2 2 6 7	600	1.60709E+36	
	0 0 0 1 1 2 2 2 5 8	600	1.20532E+36	
	0 0 0 1 1 1 1 1 2 8 8	504	2.41063E+34	
	0 0 0 1 1 1 2 2 2 7 7	700	5.35697E+35	
	0 0 0 1 1 1 1 2 2 7 8	1680	3.21418E+35	
	0 0 0 1 1 1 2 2 2 6 8	1400	9.37469E+35	
	0 0 0 0 0 2 2 2 2 8 8	15	8.96813E+31	
	0 0 0 0 1 2 2 2 2 7 7	225	8.60941E+34	
	0 0 0 0 1 2 2 2 2 7 8	180	8.60941E+33	
	0 0 0 0 1 2 2 2 2 6 8	450	1.50665E+35	
	0 0 0 0 1 1 1 2 2 8 8	1050	2.51108E+34	
	0 0 0 0 1 1 2 2 2 7 8	1400	1.33924E+35	
	0 0 0 0 0 1 2 2 2 8 8	420	5.02215E+33	
9	0 0 0 1 2 2 2 2 2 2 5 5	4	1.64629E+34	3.92962E+37
	0 0 0 0 2 2 2 2 2 2 5 6	2	1.37191E+33	
	0 1 1 1 2 2 2 2 2 2 4 4	4	4.11572E+35	
	0 0 0 0 0 2 2 2 2 2 6 7	12	3.91973E+32	
	0 0 0 0 1 2 2 2 2 2 6 6	30	6.85953E+33	
	0 0 1 1 2 2 2 2 2 2 4 5	12	2.46943E+35	
	0 0 0 0 2 2 2 2 2 2 4 7	2	9.79933E+32	
	0 0 0 1 2 2 2 2 2 2 4 6	8	2.74381E+34	
	1 1 1 1 1 1 1 1 1 2 6 6	6	2.19505E+34	
	0 1 1 1 1 1 1 1 1 1 7 7	10	1.49323E+33	
	1 1 1 1 1 1 1 1 1 1 6 7	2	2.09052E+33	
	0 0 0 1 1 1 1 1 1 1 8 8	120	2.79981E+32	
	0 0 0 0 0 1 2 2 2 8 8	140	4.08305E+31	
	0 0 0 0 1 1 1 1 2 8 8	756	8.81939E+32	
	0 0 0 0 0 1 1 2 2 8 8	840	4.89966E+32	
	0 0 0 0 0 2 2 2 2 7 8	30	3.49976E+31	
	0 0 0 0 0 1 2 2 2 2 7 7	90	8.39942E+32	
	0 0 1 1 1 1 1 1 1 2 7 7	216	1.61269E+34	
	0 0 1 1 1 1 1 1 1 7 8	90	1.67988E+33	
	0 0 0 1 1 1 1 1 2 2 7 7	840	3.13578E+34	
	0 0 0 1 1 1 1 1 2 7 8	1008	9.40735E+33	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 1 1 2 2 2 7 8	840	1.95987E+33	
	0 0 0 0 1 1 1 2 2 2 7 7	700	1.30658E+34	
	0 0 0 0 1 1 1 1 2 2 7 8	2100	9.79933E+33	
	1 1 1 1 1 1 1 2 2 2 5 5	20	6.58515E+35	
	0 1 1 1 1 1 1 1 2 2 6 6	120	2.19505E+35	
	0 1 1 1 1 1 1 1 1 1 6 8	20	2.61315E+33	
	0 1 1 1 1 1 1 1 1 2 6 7	108	5.64441E+34	
	1 1 1 1 1 1 1 1 2 2 5 6	30	3.29257E+35	
	1 1 1 1 1 1 1 1 1 1 5 8	2	1.56789E+33	
	1 1 1 1 1 1 1 1 1 2 5 7	12	3.76294E+34	
	0 0 1 1 1 1 1 2 2 2 6 6	420	3.84134E+35	
	0 0 1 1 1 1 1 1 2 2 6 7	840	2.19505E+35	
	0 0 1 1 1 1 1 1 1 2 6 8	432	2.82221E+34	
	0 0 0 0 0 1 2 2 2 2 6 8	180	1.4699E+33	
	0 0 0 0 1 1 2 2 2 2 6 7	450	2.9398E+34	
	0 0 0 1 1 1 2 2 2 2 6 6	300	1.37191E+35	
	0 0 0 1 1 1 1 2 2 2 6 7	1400	1.82921E+35	
	0 0 0 1 1 1 1 1 2 2 6 8	1680	5.48762E+34	
	0 0 0 0 1 1 1 2 2 2 6 8	1400	2.28651E+34	
	0 0 1 1 1 2 2 2 2 2 5 5	60	4.93886E+35	
	0 0 0 1 1 2 2 2 2 2 5 6	120	1.64629E+35	
	0 0 0 0 0 2 2 2 2 2 5 8	12	2.9398E+32	
	0 0 0 0 1 2 2 2 2 2 5 7	60	1.17592E+34	
	0 1 1 1 1 1 2 2 2 2 5 5	90	1.48166E+36	
	0 1 1 1 1 1 1 2 2 2 5 6	280	1.53653E+36	
	0 1 1 1 1 1 1 1 2 2 5 7	240	3.76294E+35	
	0 1 1 1 1 1 1 1 1 2 5 8	108	4.23331E+34	
	0 0 1 1 1 1 2 2 2 2 5 6	450	1.23472E+36	
	0 0 1 1 1 1 1 2 2 2 5 7	840	6.58515E+35	
	0 0 1 1 1 1 1 1 2 2 5 8	840	1.64629E+35	
	0 0 0 0 1 1 2 2 2 2 5 8	450	2.20485E+34	
	0 0 0 1 1 1 2 2 2 2 5 7	600	2.35184E+35	
	0 0 0 1 1 1 1 2 2 2 5 8	1400	1.37191E+35	
	1 1 1 1 1 2 2 2 2 2 4 4	6	1.23472E+36	
	1 1 1 1 1 1 2 2 2 2 4 5	30	2.46943E+36	
	1 1 1 1 1 1 1 2 2 2 4 6	40	1.09752E+36	
	1 1 1 1 1 1 1 1 1 2 4 8	12	2.35184E+34	
	1 1 1 1 1 1 1 1 2 2 4 7	30	2.35184E+35	
	0 1 1 1 1 2 2 2 2 2 4 5	60	2.46943E+36	
	0 1 1 1 1 1 2 2 2 2 4 6	180	2.46943E+36	
	0 1 1 1 1 1 1 2 2 2 4 7	280	1.09752E+36	
	0 1 1 1 1 1 1 1 2 2 4 8	240	2.35184E+35	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 1 2 2 2 2 2 4 8	60	7.34949E+33	
	0 0 0 1 1 2 2 2 2 2 4 7	120	1.17592E+35	
	0 0 1 1 1 2 2 2 2 2 4 6	120	8.23143E+35	
	0 0 1 1 1 1 2 2 2 2 4 7	450	8.81939E+35	
	0 0 1 1 1 1 1 2 2 2 4 8	840	4.11572E+35	
	0 0 0 1 1 1 2 2 2 2 4 8	600	1.4699E+35	
	1 1 1 1 2 2 2 2 2 2 3 4	2	8.23143E+35	
	0 1 1 1 2 2 2 2 2 2 3 5	8	6.58515E+35	
	0 0 1 1 2 2 2 2 2 2 3 6	12	1.64629E+35	
	0 0 0 0 2 2 2 2 2 2 3 8	2	4.89966E+32	
	0 0 0 1 2 2 2 2 2 2 3 7	8	1.56789E+34	
	1 1 1 1 1 2 2 2 2 2 3 5	12	1.97554E+36	
	1 1 1 1 1 1 2 2 2 2 3 6	30	1.64629E+36	
	1 1 1 1 1 1 1 2 2 2 3 7	40	6.27157E+35	
	1 1 1 1 1 1 1 1 2 2 3 8	30	1.17592E+35	
	0 1 1 1 1 2 2 2 2 2 3 6	60	1.64629E+36	
	0 1 1 1 1 1 2 2 2 2 3 7	180	1.4111E+36	
	0 1 1 1 1 1 1 2 2 2 3 8	280	5.48762E+35	
	0 0 0 1 1 2 2 2 2 2 3 8	120	5.8796E+34	
	0 0 1 1 1 2 2 2 2 2 3 7	120	4.70368E+35	
	0 0 1 1 1 1 2 2 2 2 3 8	450	4.4097E+35	
	1 1 1 1 2 2 2 2 2 2 2 5	2	4.93886E+35	
	0 1 1 1 2 2 2 2 2 2 2 6	8	3.29257E+35	
	0 0 1 1 2 2 2 2 2 2 2 7	12	7.05551E+34	
	0 0 0 1 2 2 2 2 2 2 2 8	8	5.8796E+33	
	1 1 1 1 1 2 2 2 2 2 2 6	14	1.1524E+36	
	1 1 1 1 1 1 2 2 2 2 2 7	42	9.87772E+35	
	1 1 1 1 1 1 1 2 2 2 2 8	70	4.11572E+35	
	0 1 1 1 1 2 2 2 2 2 2 7	70	8.23143E+35	
	0 0 1 1 1 2 2 2 2 2 2 8	140	2.05786E+35	
	0 1 1 1 1 1 2 2 2 2 2 8	252	7.40829E+35	
10	1 1 1 1 2 2 2 2 2 2 3 3	1	3.91973E+34	4.6863E+36
	1 1 1 1 1 1 1 1 1 1 6 6	1	1.7421E+32	
	0 0 0 0 2 2 2 2 2 2 5 5	1	9.79933E+31	
	0 0 1 1 2 2 2 2 2 2 4 4	6	1.4699E+34	
	0 0 0 1 2 2 2 2 2 2 4 5	8	3.91973E+33	
	0 0 0 0 0 2 2 2 2 2 6 6	6	3.26644E+31	
	0 0 0 0 2 2 2 2 2 2 4 6	2	1.63322E+32	
	0 1 1 1 2 2 2 2 2 2 3 4	8	7.83946E+34	
	1 1 1 1 1 1 1 1 2 2 5 5	15	2.35184E+34	
	0 0 1 1 1 1 1 1 1 1 7 7	45	1.59989E+32	
	0 1 1 1 1 1 1 1 1 2 6 6	54	4.70368E+33	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	1 1 1 1 1 1 1 1 1 2 5 6	12	6.27157E+33	
	0 1 1 1 1 1 1 1 1 1 6 7	20	4.97744E+32	
	1 1 1 1 1 1 1 1 1 1 5 7	2	2.98646E+32	
	1 1 1 1 1 1 2 2 2 2 4 4	15	1.4699E+35	
	0 1 1 1 1 2 2 2 2 2 4 4	30	1.4699E+35	
	1 1 1 1 1 2 2 2 2 2 3 4	12	2.35184E+35	
	1 1 1 1 2 2 2 2 2 2 2 4	2	5.8796E+34	
	0 0 0 1 1 2 2 2 2 2 5 5	60	1.17592E+34	
	0 0 1 1 2 2 2 2 2 2 3 5	12	2.35184E+34	
	0 0 0 0 1 2 2 2 2 2 5 6	60	1.95987E+33	
	0 0 0 1 2 2 2 2 2 2 3 6	8	2.61315E+33	
	0 0 0 0 0 2 2 2 2 2 5 7	12	5.59961E+31	
	0 0 0 0 2 2 2 2 2 2 3 7	2	9.33269E+31	
	0 0 1 1 1 2 2 2 2 2 4 5	120	1.17592E+35	
	0 1 1 1 2 2 2 2 2 2 2 5	8	4.70368E+34	
	0 1 1 1 1 1 1 2 2 2 5 5	140	1.09752E+35	
	1 1 1 1 1 1 1 2 2 2 4 5	40	1.56789E+35	
	0 1 1 1 1 1 1 1 2 2 5 6	240	6.27157E+34	
	1 1 1 1 1 1 1 1 2 2 4 6	30	3.91973E+34	
	0 1 1 1 1 1 1 1 1 2 5 7	108	8.06345E+33	
	1 1 1 1 1 1 1 1 1 2 4 7	12	4.47969E+33	
	0 1 1 1 1 1 1 1 1 1 5 8	20	3.73308E+32	
	1 1 1 1 1 1 1 1 1 1 4 8	2	1.86654E+32	
	0 0 1 1 1 1 2 2 2 2 5 5	225	8.81939E+34	
	0 1 1 1 1 1 2 2 2 2 4 5	180	3.52776E+35	
	1 1 1 1 1 1 2 2 2 2 3 5	30	2.35184E+35	
	0 1 1 1 1 2 2 2 2 2 3 5	60	2.35184E+35	
	1 1 1 1 1 2 2 2 2 2 2 5	14	1.64629E+35	
	0 0 1 1 2 2 2 2 2 2 2 6	12	1.17592E+34	
	0 0 0 1 2 2 2 2 2 2 2 7	8	1.11992E+33	
	0 0 0 0 2 2 2 2 2 2 2 8	2	3.49976E+31	
	0 0 1 1 1 2 2 2 2 2 3 6	120	7.83946E+34	
	1 1 1 1 1 1 1 2 2 2 3 6	40	1.04526E+35	
	1 1 1 1 1 1 1 1 2 2 3 7	30	2.23985E+34	
	1 1 1 1 1 1 1 1 1 2 3 8	12	2.23985E+33	
	0 1 1 1 1 1 2 2 2 2 3 6	180	2.35184E+35	
	1 1 1 1 1 1 2 2 2 2 2 6	42	1.64629E+35	
	0 1 1 1 1 2 2 2 2 2 2 6	70	1.37191E+35	
	1 1 1 1 1 1 1 2 2 2 2 7	70	7.83946E+34	
	1 1 1 1 1 1 1 1 2 2 2 8	70	1.95987E+34	
	0 1 1 1 1 1 2 2 2 2 2 7	252	1.4111E+35	
	0 0 1 1 1 2 2 2 2 2 2 7	140	3.91973E+34	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 1 1 1 1 1 1 2 2 2 4 6	280	1.82921E+35	
	0 1 1 1 1 1 1 1 2 2 4 7	240	4.47969E+34	
	0 1 1 1 1 1 1 1 1 2 4 8	108	5.03965E+33	
	0 1 1 1 1 1 1 2 2 2 3 7	280	1.04526E+35	
	0 1 1 1 1 1 1 1 2 2 3 8	240	2.23985E+34	
	0 1 1 1 1 1 1 2 2 2 2 8	490	6.85953E+34	
	0 0 1 1 1 1 2 2 2 2 4 6	450	1.4699E+35	
	0 0 1 1 1 1 2 2 2 2 3 7	450	8.39942E+34	
	0 0 1 1 1 1 2 2 2 2 2 8	630	4.4097E+34	
	0 0 0 1 1 2 2 2 2 2 4 6	120	1.95987E+34	
	0 0 0 0 1 2 2 2 2 2 4 7	60	1.3999E+33	
	0 0 0 0 0 2 2 2 2 2 4 8	12	3.49976E+31	
	0 0 0 1 1 2 2 2 2 2 3 7	120	1.11992E+34	
	0 0 0 0 1 2 2 2 2 2 3 8	60	6.99952E+32	
	0 0 0 1 1 2 2 2 2 2 2 8	140	4.89966E+33	
	0 0 1 1 1 1 1 1 2 2 6 6	420	1.82921E+34	
	0 0 1 1 1 1 1 1 1 2 6 7	432	5.37563E+33	
	0 0 1 1 1 1 1 1 1 1 6 8	90	2.79981E+32	
	0 0 1 1 1 1 1 2 2 2 5 6	840	1.09752E+35	
	0 0 1 1 1 1 1 1 2 2 5 7	840	3.13578E+34	
	0 0 1 1 1 1 1 1 1 2 5 8	432	4.03172E+33	
	0 0 1 1 1 1 1 2 2 2 4 7	840	7.83946E+34	
	0 0 1 1 1 1 1 1 2 2 4 8	840	1.95987E+34	
	0 0 1 1 1 1 1 2 2 2 3 8	840	3.91973E+34	
	0 0 0 1 1 1 2 2 2 2 5 6	600	3.91973E+34	
	0 0 0 1 1 1 2 2 2 2 4 7	600	2.79981E+34	
	0 0 0 1 1 1 2 2 2 2 3 8	600	1.3999E+34	
	0 0 0 1 1 1 1 1 1 2 7 7	504	8.95938E+32	
	0 0 0 1 1 1 1 1 1 1 7 8	240	1.06659E+32	
	0 0 0 1 1 1 1 2 2 2 6 6	700	1.52434E+34	
	0 0 0 1 1 1 1 1 2 2 6 7	1680	1.04526E+34	
	0 0 0 1 1 1 1 1 1 2 6 8	1008	1.56789E+33	
	0 0 0 1 1 1 1 2 2 2 5 7	1400	2.61315E+34	
	0 0 0 1 1 1 1 1 2 2 5 8	1680	7.83946E+33	
	0 0 0 1 1 1 1 2 2 2 4 8	1400	1.63322E+34	
	0 0 0 0 0 0 2 2 2 2 7 7	15	3.3331E+30	
	0 0 0 0 1 1 2 2 2 2 6 6	225	2.44983E+33	
	0 0 0 0 0 1 2 2 2 2 6 7	180	2.79981E+32	
	0 0 0 0 0 0 2 2 2 2 6 8	30	5.83293E+30	
	0 0 0 0 1 1 2 2 2 2 5 7	450	4.19971E+33	
	0 0 0 0 0 1 2 2 2 2 5 8	180	2.09986E+32	
	0 0 0 0 1 1 2 2 2 2 4 8	450	2.62482E+33	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 1 1 1 1 1 1 8 8	210	1.16659E+31	
	0 0 0 0 1 1 1 1 2 2 7 7	1050	9.33269E+32	
	0 0 0 0 1 1 1 1 1 2 7 8	1512	3.35977E+32	
	0 0 0 0 1 1 1 2 2 2 6 7	1400	4.35526E+33	
	0 0 0 0 1 1 1 1 2 2 6 8	2100	1.63322E+33	
	0 0 0 0 1 1 1 2 2 2 5 8	1400	3.26644E+33	
	0 0 0 0 0 1 1 1 1 2 8 8	756	2.09986E+31	
	0 0 0 0 0 0 1 1 2 2 8 8	420	5.83293E+30	
	0 0 0 0 0 0 0 2 2 2 8 8	20	1.38879E+29	
	0 0 0 0 0 1 1 2 2 2 7 7	420	1.86654E+32	
	0 0 0 0 0 1 1 1 2 2 7 8	1680	1.86654E+32	
	0 0 0 0 0 0 1 2 2 2 7 8	280	1.55545E+31	
	0 0 0 0 0 1 1 2 2 2 6 8	840	3.26644E+32	
11	0 0 0 1 2 2 2 2 2 2 4 4	4	2.27891E+32	4.96954E+35
	0 0 0 0 2 2 2 2 2 2 4 5	2	2.27891E+31	
	0 1 1 1 2 2 2 2 2 2 3 3	4	3.64626E+33	
	0 0 0 0 0 2 2 2 2 2 5 6	12	9.11565E+30	
	0 0 0 0 1 2 2 2 2 2 5 5	30	1.36735E+32	
	0 0 1 1 2 2 2 2 2 2 3 4	12	2.7347E+33	
	0 0 0 0 2 2 2 2 2 2 3 6	2	1.51928E+31	
	0 0 0 1 2 2 2 2 2 2 3 5	8	3.64626E+32	
	0 0 0 0 0 1 1 1 1 1 8 8	252	3.25559E+29	
	0 0 0 0 0 0 1 1 1 2 8 8	504	3.25559E+29	
	0 0 0 0 0 0 0 1 2 2 8 8	120	3.8757E+28	
	1 1 1 1 1 1 1 1 1 2 5 5	6	4.37551E+32	
	0 1 1 1 1 1 1 1 1 1 6 6	10	4.0514E+31	
	1 1 1 1 1 1 1 1 1 1 5 6	2	4.86168E+31	
	0 0 0 1 1 1 1 1 1 1 7 7	120	9.9218E+30	
	0 0 0 0 0 0 0 2 2 2 7 8	40	5.1676E+28	
	0 0 0 0 0 0 1 2 2 2 7 7	140	1.44693E+30	
	0 0 0 0 1 1 1 1 1 2 7 7	756	3.12537E+31	
	0 0 0 0 1 1 1 1 1 1 7 8	420	4.34079E+30	
	0 0 0 0 0 0 1 1 2 2 7 8	840	2.17039E+30	
	0 0 0 0 0 1 1 1 2 2 7 7	840	1.73631E+31	
	0 0 0 0 0 1 1 1 1 2 7 8	1512	7.81342E+30	
	0 0 0 0 0 0 2 2 2 2 6 7	30	1.0852E+30	
	0 0 0 0 0 1 2 2 2 2 6 6	90	2.27891E+31	
	0 0 1 1 1 1 1 1 1 2 6 6	216	4.37551E+32	
	0 0 1 1 1 1 1 1 1 1 6 7	90	5.20894E+31	
	0 0 0 1 1 1 1 1 2 2 6 6	840	8.50794E+32	
	0 0 0 1 1 1 1 1 1 2 6 7	1008	2.91701E+32	
	0 0 0 1 1 1 1 1 1 1 6 8	240	1.73631E+31	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 1 2 2 2 6 8	280	2.53213E+30	
	0 0 0 0 0 1 1 2 2 2 6 7	840	6.0771E+31	
	0 0 0 0 1 1 1 2 2 2 6 6	700	3.54498E+32	
	0 0 0 0 1 1 1 1 2 2 6 7	2100	3.03855E+32	
	0 0 0 0 1 1 1 1 1 2 6 8	1512	5.46939E+31	
	0 0 0 0 0 1 1 1 2 2 6 8	1680	3.03855E+31	
	1 1 1 1 1 1 1 2 2 2 4 4	20	9.11565E+33	
	0 1 1 1 1 1 1 1 2 2 5 5	120	4.37551E+33	
	0 1 1 1 1 1 1 1 1 1 5 7	20	6.94526E+31	
	0 1 1 1 1 1 1 1 1 2 5 6	108	1.31265E+33	
	1 1 1 1 1 1 1 1 2 2 4 5	30	5.46939E+33	
	1 1 1 1 1 1 1 1 1 1 4 7	2	3.47263E+31	
	1 1 1 1 1 1 1 1 1 2 4 6	12	7.29252E+32	
	0 0 1 1 1 1 1 2 2 2 5 5	420	7.65715E+33	
	0 0 1 1 1 1 1 1 2 2 5 6	840	5.10477E+33	
	0 0 1 1 1 1 1 1 1 1 5 8	90	3.90671E+31	
	0 0 1 1 1 1 1 1 1 2 5 7	432	7.50088E+32	
	0 0 0 0 0 0 2 2 2 2 5 8	30	8.13898E+29	
	0 0 0 0 0 1 2 2 2 2 5 7	180	3.90671E+31	
	0 0 0 0 1 1 2 2 2 2 5 6	450	6.83674E+32	
	0 0 0 1 1 1 2 2 2 2 5 5	300	2.7347E+33	
	0 0 0 1 1 1 1 2 2 2 5 6	1400	4.25397E+33	
	0 0 0 1 1 1 1 1 2 2 5 7	1680	1.4585E+33	
	0 0 0 1 1 1 1 1 1 2 5 8	1008	2.18776E+32	
	0 0 0 0 0 1 1 2 2 2 5 8	840	4.55783E+31	
	0 0 0 0 1 1 1 2 2 2 5 7	1400	6.0771E+32	
	0 0 0 0 1 1 1 1 2 2 5 8	2100	2.27891E+32	
	0 0 1 1 1 2 2 2 2 2 4 4	60	6.83674E+33	
	0 0 0 1 1 2 2 2 2 2 4 5	120	2.7347E+33	
	0 0 0 0 0 2 2 2 2 2 4 7	12	6.51118E+30	
	0 0 0 0 1 2 2 2 2 2 4 6	60	2.27891E+32	
	0 1 1 1 1 1 2 2 2 2 4 4	90	2.05102E+34	
	0 1 1 1 1 1 1 2 2 2 4 5	280	2.55238E+34	
	0 1 1 1 1 1 1 1 2 2 4 6	240	7.29252E+33	
	0 1 1 1 1 1 1 1 1 1 4 8	20	4.34079E+31	
	0 1 1 1 1 1 1 1 1 2 4 7	108	9.3761E+32	
	0 0 1 1 1 1 2 2 2 2 4 5	450	2.05102E+34	
	0 0 1 1 1 1 1 2 2 2 4 6	840	1.27619E+34	
	0 0 1 1 1 1 1 1 2 2 4 7	840	3.64626E+33	
	0 0 1 1 1 1 1 1 1 2 4 8	432	4.68805E+32	
	0 0 0 0 0 1 2 2 2 2 4 8	180	2.44169E+31	
	0 0 0 0 1 1 2 2 2 2 4 7	450	4.88339E+32	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 1 1 1 2 2 2 2 4 6	600	4.55783E+33	
	0 0 0 1 1 1 1 2 2 2 4 7	1400	3.03855E+33	
	0 0 0 1 1 1 1 1 2 2 4 8	1680	9.11565E+32	
	0 0 0 0 1 1 1 2 2 2 4 8	1400	3.79819E+32	
	1 1 1 1 1 2 2 2 2 2 3 3	6	1.09388E+34	
	1 1 1 1 1 1 2 2 2 2 3 4	30	2.7347E+34	
	1 1 1 1 1 1 1 2 2 2 3 5	40	1.4585E+34	
	1 1 1 1 1 1 1 1 1 1 3 8	2	1.73631E+31	
	1 1 1 1 1 1 1 1 1 2 3 7	12	4.16716E+32	
	1 1 1 1 1 1 1 1 2 2 3 6	30	3.64626E+33	
	0 1 1 1 1 2 2 2 2 2 3 4	60	2.7347E+34	
	0 1 1 1 1 1 2 2 2 2 3 5	180	3.28163E+34	
	0 1 1 1 1 1 1 2 2 2 3 6	280	1.70159E+34	
	0 1 1 1 1 1 1 1 1 2 3 8	108	4.68805E+32	
	0 1 1 1 1 1 1 1 2 2 3 7	240	4.16716E+33	
	0 0 0 0 0 2 2 2 2 2 3 8	12	3.25559E+30	
	0 0 0 0 1 2 2 2 2 2 3 7	60	1.30224E+32	
	0 0 0 1 1 2 2 2 2 2 3 6	120	1.82313E+33	
	0 0 1 1 1 2 2 2 2 2 3 5	120	1.09388E+34	
	0 0 1 1 1 1 2 2 2 2 3 6	450	1.36735E+34	
	0 0 1 1 1 1 1 2 2 2 3 7	840	7.29252E+33	
	0 0 1 1 1 1 1 1 2 2 3 8	840	1.82313E+33	
	0 0 0 0 1 1 2 2 2 2 3 8	450	2.44169E+32	
	0 0 0 1 1 1 2 2 2 2 3 7	600	2.60447E+33	
	0 0 0 1 1 1 1 2 2 2 3 8	1400	1.51928E+33	
	1 1 1 1 2 2 2 2 2 2 2 3	2	5.46939E+33	
	0 1 1 1 2 2 2 2 2 2 2 4	8	5.46939E+33	
	0 0 1 1 2 2 2 2 2 2 2 5	12	1.64082E+33	
	0 0 0 0 2 2 2 2 2 2 2 7	2	6.51118E+30	
	0 0 0 1 2 2 2 2 2 2 2 6	8	1.82313E+32	
	1 1 1 1 1 2 2 2 2 2 2 4	14	1.91429E+34	
	1 1 1 1 1 1 2 2 2 2 2 5	42	2.29714E+34	
	1 1 1 1 1 1 1 2 2 2 2 6	70	1.27619E+34	
	1 1 1 1 1 1 1 1 2 2 2 7	70	3.64626E+33	
	1 1 1 1 1 1 1 1 1 2 2 8	42	5.46939E+32	
	0 1 1 1 1 2 2 2 2 2 2 5	70	1.91429E+34	
	0 0 1 1 1 2 2 2 2 2 2 6	140	6.38096E+33	
	0 0 0 1 1 2 2 2 2 2 2 7	140	9.11565E+32	
	0 0 0 0 1 2 2 2 2 2 2 8	70	5.69728E+31	
	0 1 1 1 1 1 2 2 2 2 2 6	252	2.29714E+34	
	0 1 1 1 1 1 1 2 2 2 2 7	490	1.27619E+34	
	0 1 1 1 1 1 1 1 2 2 2 8	560	3.64626E+33	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 1 1 1 1 2 2 2 2 2 7	630	8.20409E+33	
	0 0 1 1 1 1 1 2 2 2 2 8	1470	4.78572E+33	
	0 0 0 1 1 1 2 2 2 2 2 8	840	1.36735E+33	
12	1 1 1 1 2 2 2 2 2 2 2 2	1	1.86457E+32	4.68714E+34
	1 1 1 1 1 1 1 1 1 1 5 5	1	3.31478E+30	
	0 0 0 0 2 2 2 2 2 2 4 4	1	1.29484E+30	
	0 0 1 1 2 2 2 2 2 2 3 3	6	1.24304E+32	
	0 0 0 1 2 2 2 2 2 2 3 4	8	4.14348E+31	
	0 0 0 0 0 2 2 2 2 2 5 5	6	6.21522E+29	
	0 0 0 0 2 2 2 2 2 2 3 5	2	2.07174E+30	
	0 1 1 1 2 2 2 2 2 2 2 3	8	4.97217E+32	
	1 1 1 1 1 1 1 1 2 2 4 4	15	3.10761E+32	
	0 0 1 1 1 1 1 1 1 1 6 6	45	4.14348E+30	
	0 1 1 1 1 1 1 1 1 2 5 5	54	8.94991E+31	
	1 1 1 1 1 1 1 1 1 2 4 5	12	9.94435E+31	
	0 1 1 1 1 1 1 1 1 1 5 6	20	1.10493E+31	
	1 1 1 1 1 1 1 1 1 1 4 6	2	5.52464E+30	
	1 1 1 1 1 1 2 2 2 2 3 3	15	1.24304E+33	
	0 1 1 1 1 2 2 2 2 2 3 3	30	1.24304E+33	
	1 1 1 1 1 2 2 2 2 2 2 3	14	1.74026E+33	
	0 0 0 1 1 2 2 2 2 2 4 4	60	1.5538E+32	
	0 0 1 1 2 2 2 2 2 2 2 4	12	1.86457E+32	
	0 0 0 0 1 2 2 2 2 2 4 5	60	3.10761E+31	
	0 0 0 1 2 2 2 2 2 2 2 5	8	2.48609E+31	
	0 0 0 0 0 2 2 2 2 2 4 6	12	1.03587E+30	
	0 0 0 0 2 2 2 2 2 2 2 6	2	1.03587E+30	
	0 0 1 1 1 2 2 2 2 2 3 4	120	1.24304E+33	
	0 1 1 1 1 1 1 2 2 2 4 4	140	1.45022E+33	
	1 1 1 1 1 1 1 2 2 2 3 4	40	1.65739E+33	
	0 0 1 1 1 1 1 1 2 2 5 5	420	3.48052E+32	
	0 1 1 1 1 1 1 1 2 2 4 5	240	9.94435E+32	
	1 1 1 1 1 1 1 1 2 2 3 5	30	4.97217E+32	
	0 0 1 1 1 1 1 1 1 2 5 6	432	1.19332E+32	
	0 0 1 1 1 1 1 1 1 1 5 7	90	7.10311E+30	
	0 1 1 1 1 1 1 1 1 2 4 6	108	1.49165E+32	
	1 1 1 1 1 1 1 1 1 2 3 6	12	6.62957E+31	
	0 1 1 1 1 1 1 1 1 1 4 7	20	7.89234E+30	
	1 1 1 1 1 1 1 1 1 1 3 7	2	3.15694E+30	
	0 0 1 1 1 1 2 2 2 2 4 4	225	1.16535E+33	
	0 1 1 1 1 1 2 2 2 2 3 4	180	3.72913E+33	
	1 1 1 1 1 1 2 2 2 2 2 4	42	2.61039E+33	
	0 1 1 1 1 2 2 2 2 2 2 4	70	2.17533E+33	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 1 1 2 2 2 2 2 3 5	120	2.48609E+32	
	0 0 0 0 1 2 2 2 2 2 3 6	60	2.07174E+31	
	0 0 0 0 0 2 2 2 2 2 3 7	12	5.91925E+29	
	0 0 1 1 1 2 2 2 2 2 2 5	140	8.7013E+32	
	0 1 1 1 1 1 1 2 2 2 3 5	280	2.32035E+33	
	0 1 1 1 1 1 1 1 2 2 3 6	240	6.62957E+32	
	0 1 1 1 1 1 1 1 1 2 3 7	108	8.52373E+31	
	0 1 1 1 1 1 1 1 1 1 3 8	20	3.94617E+30	
	0 0 1 1 1 1 2 2 2 2 3 5	450	1.86457E+33	
	1 1 1 1 1 1 1 2 2 2 2 5	70	1.74026E+33	
	0 1 1 1 1 1 2 2 2 2 2 5	252	3.13247E+33	
	1 1 1 1 1 1 1 1 2 2 2 6	70	5.80087E+32	
	1 1 1 1 1 1 1 1 1 2 2 7	42	9.94435E+31	
	1 1 1 1 1 1 1 1 1 1 2 8	14	8.28696E+30	
	0 1 1 1 1 1 1 2 2 2 2 6	490	2.0303E+33	
	0 1 1 1 1 1 1 1 2 2 2 7	560	6.62957E+32	
	0 1 1 1 1 1 1 1 1 2 2 8	378	1.11874E+32	
	0 0 1 1 1 1 2 2 2 2 2 6	630	1.3052E+33	
	0 0 0 1 1 2 2 2 2 2 2 6	140	1.45022E+32	
	0 0 0 0 1 2 2 2 2 2 2 7	70	1.03587E+31	
	0 0 0 0 0 2 2 2 2 2 2 8	14	2.58967E+29	
	0 0 1 1 1 1 1 2 2 2 4 5	840	1.74026E+33	
	0 0 1 1 1 1 1 1 2 2 4 6	840	5.80087E+32	
	0 0 1 1 1 1 1 1 1 2 4 7	432	8.52373E+31	
	0 0 1 1 1 1 1 1 1 1 4 8	90	4.43944E+30	
	0 0 1 1 1 1 1 2 2 2 3 6	840	1.16017E+33	
	0 0 1 1 1 1 1 1 2 2 3 7	840	3.31478E+32	
	0 0 1 1 1 1 1 1 1 2 3 8	432	4.26186E+31	
	0 0 1 1 1 1 1 2 2 2 2 7	1470	8.7013E+32	
	0 0 1 1 1 1 1 1 2 2 2 8	1960	2.90043E+32	
	0 0 0 1 1 1 2 2 2 2 4 5	600	6.21522E+32	
	0 0 0 1 1 1 2 2 2 2 3 6	600	4.14348E+32	
	0 0 0 1 1 1 2 2 2 2 2 7	840	2.48609E+32	
	0 0 0 1 1 1 1 1 1 2 6 6	504	2.32035E+31	
	0 0 0 1 1 1 1 1 1 1 6 7	240	3.15694E+30	
	0 0 0 1 1 1 1 2 2 2 5 5	700	2.90043E+32	
	0 0 0 1 1 1 1 1 2 2 5 6	1680	2.32035E+32	
	0 0 0 1 1 1 1 1 1 2 5 7	1008	3.97774E+31	
	0 0 0 1 1 1 1 1 1 1 5 8	240	2.3677E+30	
	0 0 0 1 1 1 1 2 2 2 4 6	1400	4.83406E+32	
	0 0 0 1 1 1 1 1 2 2 4 7	1680	1.65739E+32	
	0 0 0 1 1 1 1 1 1 2 4 8	1008	2.48609E+31	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 0 0 1 1 1 1 2 2 2 3 7	1400	2.76232E+32	
	0 0 0 1 1 1 1 1 2 2 3 8	1680	8.28696E+31	
	0 0 0 1 1 1 1 2 2 2 2 8	2450	1.81277E+32	
	0 0 0 0 0 0 2 2 2 2 6 6	15	8.63225E+28	
	0 0 0 0 1 1 2 2 2 2 5 5	225	4.66141E+31	
	0 0 0 0 0 1 2 2 2 2 5 6	180	6.21522E+30	
	0 0 0 0 0 0 2 2 2 2 5 7	30	1.47981E+29	
	0 0 0 0 1 1 2 2 2 2 4 6	450	7.76902E+31	
	0 0 0 0 0 1 2 2 2 2 4 7	180	4.43944E+30	
	0 0 0 0 0 0 2 2 2 2 4 8	30	9.24884E+28	
	0 0 0 0 1 1 2 2 2 2 3 7	450	4.43944E+31	
	0 0 0 0 0 1 2 2 2 2 3 8	180	2.21972E+30	
	0 0 0 0 1 1 2 2 2 2 2 8	630	2.33071E+31	
	0 0 0 0 1 1 1 1 1 1 7 7	210	3.94617E+29	
	0 0 0 0 1 1 1 1 2 2 6 6	1050	2.41703E+31	
	0 0 0 0 1 1 1 1 1 2 6 7	1512	9.94435E+30	
	0 0 0 0 1 1 1 1 1 1 6 8	420	6.9058E+29	
	0 0 0 0 1 1 1 2 2 2 5 6	1400	9.66812E+31	
	0 0 0 0 1 1 1 1 2 2 5 7	2100	4.14348E+31	
	0 0 0 0 1 1 1 1 1 2 5 8	1512	7.45826E+30	
	0 0 0 0 1 1 1 2 2 2 4 7	1400	6.9058E+31	
	0 0 0 0 1 1 1 1 2 2 4 8	2100	2.58967E+31	
	0 0 0 0 1 1 1 2 2 2 3 8	1400	3.4529E+31	
	0 0 0 0 0 0 1 1 1 1 8 8	210	6.16589E+27	
	0 0 0 0 0 0 0 1 1 2 8 8	216	3.17103E+27	
	0 0 0 0 0 0 0 0 2 2 8 8	15	1.10105E+26	
	0 0 0 0 0 1 1 1 1 2 7 7	756	7.10311E+29	
	0 0 0 0 0 1 1 1 1 1 7 8	504	1.18385E+29	
	0 0 0 0 0 0 1 1 2 2 7 7	420	1.97308E+29	
	0 0 0 0 0 0 1 1 1 2 7 8	1008	1.18385E+29	
	0 0 0 0 0 0 0 2 2 2 7 7	20	4.69782E+27	
	0 0 0 0 0 0 0 1 2 2 7 8	240	1.40935E+28	
	0 0 0 0 0 1 1 2 2 2 6 6	420	4.83406E+30	
	0 0 0 0 0 1 1 1 2 2 6 7	1680	5.52464E+30	
	0 0 0 0 0 1 1 1 1 2 6 8	1512	1.24304E+30	
	0 0 0 0 0 0 1 2 2 2 6 7	280	4.60386E+29	
	0 0 0 0 0 0 1 1 2 2 6 8	840	3.4529E+29	
	0 0 0 0 0 0 0 2 2 2 6 8	40	8.22119E+27	
	0 0 0 0 0 1 1 2 2 2 5 7	840	8.28696E+30	
	0 0 0 0 0 1 1 1 2 2 5 8	1680	4.14348E+30	
	0 0 0 0 0 0 1 2 2 2 5 8	280	3.4529E+29	
	0 0 0 0 0 1 1 2 2 2 4 8	840	5.17935E+30	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
13	0 0 0 1 2 2 2 2 2 2 3 3	4	1.84155E+30	3.92605E+33
	0 0 0 0 2 2 2 2 2 2 3 4	2	2.30193E+29	
	0 1 1 1 2 2 2 2 2 2 2 2	4	1.65739E+31	
	0 0 0 0 0 0 0 1 1 1 8 8	120	7.8297E+25	
	0 0 0 0 0 0 0 0 1 2 8 8	54	1.76168E+25	
	0 0 0 0 0 2 2 2 2 2 4 5	12	1.38116E+29	
	0 0 0 0 1 2 2 2 2 2 4 4	30	1.72645E+30	
	0 0 1 1 2 2 2 2 2 2 2 3	12	1.65739E+31	
	0 0 0 0 2 2 2 2 2 2 2 5	2	1.38116E+29	
	0 0 0 1 2 2 2 2 2 2 2 4	8	2.76232E+30	
	0 0 0 0 0 1 1 1 1 1 7 7	252	1.05231E+28	
	0 0 0 0 0 0 1 1 1 2 7 7	504	1.05231E+28	
	0 0 0 0 0 0 1 1 1 1 7 8	420	2.19232E+27	
	0 0 0 0 0 0 0 0 2 2 7 8	30	3.91485E+25	
	0 0 0 0 0 0 0 1 2 2 7 7	120	1.25275E+27	
	0 0 0 0 0 0 0 1 1 2 7 8	432	1.12748E+27	
	1 1 1 1 1 1 1 1 1 2 4 4	6	5.52464E+30	
	0 1 1 1 1 1 1 1 1 1 5 5	10	7.36618E+29	
	1 1 1 1 1 1 1 1 1 1 4 5	2	7.36618E+29	
	0 0 0 1 1 1 1 1 1 1 6 6	120	2.45539E+29	
	0 0 0 0 0 0 0 2 2 2 6 7	40	1.46154E+27	
	0 0 0 0 0 0 1 2 2 2 6 6	140	3.58078E+28	
	0 0 0 0 1 1 1 1 1 2 6 6	756	7.73449E+29	
	0 0 0 0 1 1 1 1 1 1 6 7	420	1.2277E+29	
	0 0 0 0 0 0 0 1 2 2 6 8	240	2.19232E+27	
	0 0 0 0 0 0 1 1 2 2 6 7	840	6.13849E+28	
	0 0 0 0 0 1 1 1 2 2 6 6	840	4.29694E+29	
	0 0 0 0 0 1 1 1 1 2 6 7	1512	2.20986E+29	
	0 0 0 0 0 1 1 1 1 1 6 8	504	1.84155E+28	
	0 0 0 0 0 0 1 1 1 2 6 8	1008	1.84155E+28	
	0 0 0 0 0 0 2 2 2 2 5 6	30	2.30193E+28	
	0 0 0 0 0 1 2 2 2 2 5 5	90	4.14348E+29	
	0 0 1 1 1 1 1 1 1 2 5 5	216	7.95548E+30	
	0 0 1 1 1 1 1 1 1 1 5 6	90	1.10493E+30	
	0 0 0 1 1 1 1 1 2 2 5 5	840	1.5469E+31	
	0 0 0 1 1 1 1 1 1 2 5 6	1008	6.18759E+30	
	0 0 0 1 1 1 1 1 1 1 5 7	240	4.20925E+29	
	0 0 0 0 0 0 0 2 2 2 5 8	40	1.09616E+27	
	0 0 0 0 0 0 1 2 2 2 5 7	280	6.13849E+28	
	0 0 0 0 0 1 1 2 2 2 5 6	840	1.28908E+30	
0 0 0 0 1 1 1 2 2 2 5 5	700	6.44541E+30		
0 0 0 0 1 1 1 1 2 2 5 6	2100	6.44541E+30		

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 1 1 1 1 1 2 5 7	1512	1.32591E+30	
	0 0 0 0 1 1 1 1 1 1 5 8	420	9.20773E+28	
	0 0 0 0 0 0 1 1 2 2 5 8	840	4.60386E+28	
	0 0 0 0 0 1 1 1 2 2 5 7	1680	7.36618E+29	
	0 0 0 0 0 1 1 1 1 2 5 8	1512	1.65739E+29	
	1 1 1 1 1 1 1 2 2 2 3 3	20	7.36618E+31	
	0 1 1 1 1 1 1 1 2 2 4 4	120	5.52464E+31	
	0 1 1 1 1 1 1 1 1 1 4 6	20	1.2277E+30	
	0 1 1 1 1 1 1 1 1 2 4 5	108	1.98887E+31	
	1 1 1 1 1 1 1 1 2 2 3 4	30	5.52464E+31	
	1 1 1 1 1 1 1 1 1 1 3 6	2	4.91079E+29	
	1 1 1 1 1 1 1 1 1 2 3 5	12	8.83942E+30	
	0 0 1 1 1 1 1 2 2 2 4 4	420	9.66812E+31	
	0 0 1 1 1 1 1 1 2 2 4 5	840	7.73449E+31	
	0 0 1 1 1 1 1 1 1 1 4 7	90	7.89234E+29	
	0 0 1 1 1 1 1 1 1 2 4 6	432	1.32591E+31	
	0 0 0 0 0 0 2 2 2 2 4 7	30	1.64424E+28	
	0 0 0 0 0 1 2 2 2 2 4 6	180	6.9058E+29	
	0 0 0 0 1 1 2 2 2 2 4 5	450	1.03587E+31	
	0 0 0 1 1 1 2 2 2 2 4 4	300	3.4529E+31	
	0 0 0 1 1 1 1 2 2 2 4 5	1400	6.44541E+31	
	0 0 0 1 1 1 1 1 2 2 4 6	1680	2.57816E+31	
	0 0 0 1 1 1 1 1 1 1 4 8	240	2.63078E+29	
	0 0 0 1 1 1 1 1 1 2 4 7	1008	4.41971E+30	
	0 0 0 0 0 0 1 2 2 2 4 8	280	3.83655E+28	
	0 0 0 0 0 1 1 2 2 2 4 7	840	9.20773E+29	
	0 0 0 0 1 1 1 2 2 2 4 6	1400	1.07424E+31	
	0 0 0 0 1 1 1 1 2 2 4 7	2100	4.60386E+30	
	0 0 0 0 1 1 1 1 1 2 4 8	1512	8.28696E+29	
	0 0 0 0 0 1 1 1 2 2 4 8	1680	4.60386E+29	
	0 0 1 1 1 2 2 2 2 2 3 3	60	5.52464E+31	
	0 0 0 1 1 2 2 2 2 2 3 4	120	2.76232E+31	
	0 0 0 0 0 2 2 2 2 2 3 6	12	9.20773E+28	
	0 0 0 0 1 2 2 2 2 2 3 5	60	2.76232E+30	
	0 1 1 1 1 1 2 2 2 2 3 3	90	1.65739E+32	
	0 1 1 1 1 1 1 2 2 2 3 4	280	2.57816E+32	
	0 1 1 1 1 1 1 1 2 2 3 5	240	8.83942E+31	
	0 1 1 1 1 1 1 1 1 1 3 7	20	7.01541E+29	
	0 1 1 1 1 1 1 1 1 2 3 6	108	1.32591E+31	
	0 0 1 1 1 1 2 2 2 2 3 4	450	2.07174E+32	
	0 0 1 1 1 1 1 2 2 2 3 5	840	1.5469E+32	
	0 0 1 1 1 1 1 1 2 2 3 6	840	5.15633E+31	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 1 1 1 1 1 1 1 1 3 8	90	3.94617E+29	
	0 0 1 1 1 1 1 1 1 2 3 7	432	7.57665E+30	
	0 0 0 0 0 0 2 2 2 2 3 8	30	8.22119E+27	
	0 0 0 0 0 1 2 2 2 2 3 7	180	3.94617E+29	
	0 0 0 0 1 1 2 2 2 2 3 6	450	6.9058E+30	
	0 0 0 1 1 1 2 2 2 2 3 5	600	5.52464E+31	
	0 0 0 1 1 1 1 2 2 2 3 6	1400	4.29694E+31	
	0 0 0 1 1 1 1 1 2 2 3 7	1680	1.47324E+31	
	0 0 0 1 1 1 1 1 1 2 3 8	1008	2.20986E+30	
	0 0 0 0 0 1 1 2 2 2 3 8	840	4.60386E+29	
	0 0 0 0 1 1 1 2 2 2 3 7	1400	6.13849E+30	
	0 0 0 0 1 1 1 1 2 2 3 8	2100	2.30193E+30	
	1 1 1 1 1 2 2 2 2 2 2 2	8	6.62957E+31	
	1 1 1 1 1 1 2 2 2 2 2 3	42	2.32035E+32	
	1 1 1 1 1 1 1 2 2 2 2 4	70	1.93362E+32	
	1 1 1 1 1 1 1 1 2 2 2 5	70	7.73449E+31	
	1 1 1 1 1 1 1 1 1 1 1 8	2	5.26156E+28	
	1 1 1 1 1 1 1 1 1 1 2 7	14	1.47324E+30	
	1 1 1 1 1 1 1 1 1 2 2 6	42	1.5469E+31	
	0 1 1 1 1 2 2 2 2 2 2 3	70	1.93362E+32	
	0 0 1 1 1 2 2 2 2 2 2 4	140	9.66812E+31	
	0 0 0 1 1 2 2 2 2 2 2 5	140	1.93362E+31	
	0 0 0 0 0 2 2 2 2 2 2 7	14	4.60386E+28	
	0 0 0 0 1 2 2 2 2 2 2 6	70	1.61135E+30	
	0 1 1 1 1 1 2 2 2 2 2 4	252	3.48052E+32	
	0 1 1 1 1 1 1 2 2 2 2 5	490	2.70707E+32	
	0 1 1 1 1 1 1 1 2 2 2 6	560	1.03127E+32	
	0 1 1 1 1 1 1 1 1 1 2 8	140	1.84155E+30	
	0 1 1 1 1 1 1 1 1 2 2 7	378	1.98887E+31	
	0 0 1 1 1 1 2 2 2 2 2 5	630	1.74026E+32	
	0 0 1 1 1 1 1 2 2 2 2 6	1470	1.35354E+32	
	0 0 1 1 1 1 1 1 2 2 2 7	1960	5.15633E+31	
	0 0 1 1 1 1 1 1 1 2 2 8	1512	9.94435E+30	
	0 0 0 0 0 1 2 2 2 2 2 8	252	2.07174E+29	
	0 0 0 0 1 1 2 2 2 2 2 7	630	4.14348E+30	
	0 0 0 1 1 1 2 2 2 2 2 6	840	3.86725E+31	
	0 0 0 1 1 1 1 2 2 2 2 7	2450	3.22271E+31	
	0 0 0 1 1 1 1 1 2 2 2 8	3920	1.28908E+31	
	0 0 0 0 1 1 1 2 2 2 2 8	2450	4.02838E+30	
14	1 1 1 1 1 1 1 1 1 1 4 4	1	4.00336E+28	2.91258E+32
	0 0 0 0 2 2 2 2 2 2 3 3	1	1.00084E+28	
	0 0 1 1 2 2 2 2 2 2 2 2	6	5.40454E+29	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 1 2 2 2 2 2 2 2 3	8	2.40202E+29	
	0 0 0 0 0 2 2 2 2 2 4 4	6	7.5063E+27	
	0 0 0 0 2 2 2 2 2 2 2 4	2	1.50126E+28	
	1 1 1 1 1 1 1 1 2 2 3 3	15	2.40202E+30	
	0 0 1 1 1 1 1 1 1 1 5 5	45	7.20605E+28	
	0 1 1 1 1 1 1 1 1 2 4 4	54	1.08091E+30	
	1 1 1 1 1 1 1 1 1 2 3 4	12	9.60807E+29	
	0 1 1 1 1 1 1 1 1 1 4 5	20	1.60134E+29	
	1 1 1 1 1 1 1 1 1 1 3 5	2	6.40538E+28	
	1 1 1 1 1 1 2 2 2 2 2 2	28	1.00885E+31	
	0 1 1 1 1 2 2 2 2 2 2 2	40	7.20605E+30	
	0 0 0 1 1 2 2 2 2 2 3 3	60	1.20101E+30	
	0 0 0 0 1 2 2 2 2 2 3 4	60	3.00252E+29	
	0 0 0 0 0 2 2 2 2 2 5 5	15	1.50126E+27	
	0 0 0 0 0 2 2 2 2 2 3 5	12	1.20101E+28	
	0 0 1 1 1 2 2 2 2 2 2 3	140	8.40706E+30	
	0 1 1 1 1 1 1 2 2 2 3 3	140	1.12094E+31	
	0 0 0 1 1 1 1 1 1 2 5 5	504	4.03539E+29	
	0 0 0 1 1 1 1 1 1 1 5 6	240	6.40538E+28	
	0 0 1 1 1 1 1 1 2 2 4 4	420	4.20353E+30	
	0 1 1 1 1 1 1 1 2 2 3 4	240	9.60807E+30	
	0 0 1 1 1 1 1 1 1 2 4 5	432	1.72945E+30	
	0 0 1 1 1 1 1 1 1 1 4 6	90	1.20101E+29	
	0 1 1 1 1 1 1 1 1 2 3 5	108	1.72945E+30	
	0 1 1 1 1 1 1 1 1 1 3 6	20	1.06756E+29	
	0 0 1 1 1 1 2 2 2 2 3 3	225	9.00756E+30	
	1 1 1 1 1 1 1 2 2 2 2 3	70	1.68141E+31	
	0 1 1 1 1 1 2 2 2 2 2 3	252	3.02654E+31	
	0 0 0 1 1 2 2 2 2 2 2 4	140	2.10176E+30	
	0 0 0 0 1 2 2 2 2 2 2 5	70	2.10176E+29	
	0 0 0 0 0 2 2 2 2 2 2 6	14	7.00588E+27	
	0 0 0 1 1 1 2 2 2 2 3 4	600	6.00504E+30	
	0 0 1 1 1 1 1 2 2 2 3 4	840	1.68141E+31	
	1 1 1 1 1 1 1 1 2 2 2 4	70	8.40706E+30	
	0 0 1 1 1 1 1 1 2 2 3 5	840	6.72565E+30	
	1 1 1 1 1 1 1 1 1 2 2 5	42	2.01769E+30	
	0 0 1 1 1 1 1 1 1 2 3 6	432	1.15297E+30	
	0 0 1 1 1 1 1 1 1 1 3 7	90	6.8629E+28	
	1 1 1 1 1 1 1 1 1 1 2 6	14	2.24188E+29	
	1 1 1 1 1 1 1 1 1 1 1 7	2	9.15054E+27	
	0 1 1 1 1 1 1 2 2 2 2 4	490	2.94247E+31	
	0 0 1 1 1 1 2 2 2 2 2 4	630	1.89159E+31	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 1 1 1 1 1 1 1 2 2 2 5	560	1.34513E+31	
	0 1 1 1 1 1 1 1 1 2 2 6	378	3.02654E+30	
	0 1 1 1 1 1 1 1 1 1 2 7	140	3.20269E+29	
	0 1 1 1 1 1 1 1 1 1 1 8	22	1.2582E+28	
	0 0 1 1 1 1 1 2 2 2 2 5	1470	1.76548E+31	
	0 0 1 1 1 1 1 1 2 2 2 6	1960	7.84659E+30	
	0 0 1 1 1 1 1 1 1 2 2 7	1512	1.72945E+30	
	0 0 1 1 1 1 1 1 1 1 2 8	630	1.80151E+29	
	0 0 0 1 1 1 2 2 2 2 2 5	840	5.04423E+30	
	0 0 0 1 1 1 1 2 2 2 4 4	700	3.50294E+30	
	0 0 0 1 1 1 1 1 2 2 4 5	1680	3.36282E+30	
	0 0 0 1 1 1 1 1 1 2 4 6	1008	6.72565E+29	
	0 0 0 1 1 1 1 1 1 1 4 7	240	4.57527E+28	
	0 0 0 1 1 1 1 2 2 2 3 5	1400	5.6047E+30	
	0 0 0 1 1 1 1 1 2 2 3 6	1680	2.24188E+30	
	0 0 0 1 1 1 1 1 1 2 3 7	1008	3.84323E+29	
	0 0 0 1 1 1 1 1 1 1 3 8	240	2.28763E+28	
	0 0 0 1 1 1 1 2 2 2 2 6	2450	4.90412E+30	
	0 0 0 1 1 1 1 1 2 2 2 7	3920	2.24188E+30	
	0 0 0 1 1 1 1 1 1 2 2 8	3528	5.04423E+29	
	0 0 0 0 1 1 2 2 2 2 4 4	225	5.62973E+29	
	0 0 0 0 0 1 2 2 2 2 4 5	180	9.00756E+28	
	0 0 0 0 0 0 2 2 2 2 4 6	30	2.5021E+27	
	0 0 0 0 1 1 2 2 2 2 3 5	450	9.00756E+29	
	0 0 0 0 0 1 2 2 2 2 3 6	180	6.00504E+28	
	0 0 0 0 0 0 2 2 2 2 3 7	30	1.42977E+27	
	0 0 0 0 1 1 2 2 2 2 2 6	630	6.30529E+29	
	0 0 0 0 0 1 2 2 2 2 2 7	252	3.60302E+28	
	0 0 0 0 0 0 2 2 2 2 2 8	42	7.5063E+26	
	0 0 0 0 1 1 1 1 1 1 6 6	210	9.34117E+27	
	0 0 0 0 1 1 1 1 2 2 5 5	1050	4.20353E+29	
	0 0 0 0 1 1 1 1 1 2 5 6	1512	2.01769E+29	
	0 0 0 0 1 1 1 1 1 1 5 7	420	1.60134E+28	
	0 0 0 0 1 1 1 2 2 2 4 5	1400	1.40118E+30	
	0 0 0 0 1 1 1 1 2 2 4 6	2100	7.00588E+29	
	0 0 0 0 1 1 1 1 1 2 4 7	1512	1.44121E+29	
	0 0 0 0 1 1 1 1 1 1 4 8	420	1.00084E+28	
	0 0 0 0 1 1 1 2 2 2 3 6	1400	9.34117E+29	
	0 0 0 0 1 1 1 1 2 2 3 7	2100	4.00336E+29	
	0 0 0 0 1 1 1 1 1 2 3 8	1512	7.20605E+28	
	0 0 0 0 1 1 1 2 2 2 2 7	2450	7.00588E+29	
	0 0 0 0 1 1 1 1 2 2 2 8	4900	3.50294E+29	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 0 0 1 1 8 8	45	6.38291E+23	
	0 0 0 0 0 0 0 0 0 2 8 8	6	4.25527E+22	
	0 0 0 0 0 0 1 1 1 1 7 7	210	1.90636E+26	
	0 0 0 0 0 0 0 1 1 2 7 7	216	9.80415E+25	
	0 0 0 0 0 0 0 1 1 1 7 8	240	2.72337E+25	
	0 0 0 0 0 0 0 0 2 2 7 7	15	3.40422E+24	
	0 0 0 0 0 0 0 0 1 2 7 8	108	6.12759E+24	
	0 0 0 0 0 1 1 1 1 2 6 6	756	1.68141E+28	
	0 0 0 0 0 1 1 1 1 1 6 7	504	3.20269E+27	
	0 0 0 0 0 0 1 1 2 2 6 6	420	4.67059E+27	
	0 0 0 0 0 0 1 1 1 2 6 7	1008	3.20269E+27	
	0 0 0 0 0 0 1 1 1 1 6 8	420	3.33613E+26	
	0 0 0 0 0 0 0 2 2 2 6 6	20	1.11204E+26	
	0 0 0 0 0 0 0 1 2 2 6 7	240	3.81272E+26	
	0 0 0 0 0 0 0 1 1 2 6 8	432	1.71573E+26	
	0 0 0 0 0 0 0 0 2 2 6 8	30	5.95738E+24	
	0 0 0 0 0 1 1 2 2 2 5 5	420	8.40706E+28	
	0 0 0 0 0 1 1 1 2 2 5 6	1680	1.12094E+29	
	0 0 0 0 0 1 1 1 1 2 5 7	1512	2.88242E+28	
	0 0 0 0 0 1 1 1 1 1 5 8	504	2.40202E+27	
	0 0 0 0 0 0 1 2 2 2 5 6	280	9.34117E+27	
	0 0 0 0 0 0 1 1 2 2 5 7	840	8.00672E+27	
	0 0 0 0 0 0 1 1 1 2 5 8	1008	2.40202E+27	
	0 0 0 0 0 0 0 2 2 2 5 7	40	1.90636E+26	
	0 0 0 0 0 0 0 1 2 2 5 8	240	2.85954E+26	
	0 0 0 0 0 1 1 2 2 2 4 6	840	1.40118E+29	
	0 0 0 0 0 1 1 1 2 2 4 7	1680	8.00672E+28	
	0 0 0 0 0 1 1 1 1 2 4 8	1512	1.80151E+28	
	0 0 0 0 0 0 1 2 2 2 4 7	280	6.67227E+27	
	0 0 0 0 0 0 1 1 2 2 4 8	840	5.0042E+27	
	0 0 0 0 0 0 0 2 2 2 4 8	40	1.19148E+26	
	0 0 0 0 0 1 1 2 2 2 3 7	840	8.00672E+28	
	0 0 0 0 0 1 1 1 2 2 3 8	1680	4.00336E+28	
	0 0 0 0 0 0 1 2 2 2 3 8	280	3.33613E+27	
	0 0 0 0 0 1 1 2 2 2 2 8	1470	5.25441E+28	
15	0 0 0 1 2 2 2 2 2 2 2	4	7.66601E+27	1.90708E+31
	0 0 0 0 0 0 0 0 0 1 8 8	10	3.01792E+21	
	0 0 0 0 2 2 2 2 2 2 3	2	1.27767E+27	
	0 0 0 0 0 0 0 1 1 1 7 7	120	2.31777E+24	
	0 0 0 0 0 0 0 0 0 2 7 8	12	1.4486E+22	
	0 0 0 0 0 0 0 0 1 2 7 7	54	5.21497E+23	
	0 0 0 0 0 0 0 0 1 1 7 8	90	2.17291E+23	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 0 0 0 0 2 2 2 2 2 3 4	12	1.27767E+27	
	0 0 0 0 1 2 2 2 2 2 3 3	30	1.27767E+28	
	0 0 0 0 0 1 1 1 1 1 6 6	252	2.38498E+26	
	0 0 0 0 0 0 1 1 1 2 6 6	504	2.38498E+26	
	0 0 0 0 0 0 1 1 1 1 6 7	420	5.67853E+25	
	0 0 0 0 0 0 0 0 2 2 6 7	30	1.01402E+24	
	0 0 0 0 0 0 0 1 2 2 6 6	120	2.83926E+25	
	0 0 0 0 0 0 0 1 1 2 6 7	432	2.92038E+25	
	0 0 0 0 0 0 0 1 1 1 6 8	240	4.05609E+24	
	0 0 0 0 0 0 0 0 1 2 6 8	108	9.1262E+23	
	1 1 1 1 1 1 1 1 1 2 3 3	6	4.08854E+28	
	0 1 1 1 1 1 1 1 1 1 4 4	10	8.51779E+27	
	1 1 1 1 1 1 1 1 1 1 3 4	2	6.81423E+27	
	0 0 0 1 1 1 1 1 1 1 5 5	120	4.08854E+27	
	0 0 0 0 0 0 0 2 2 2 5 6	40	2.83926E+25	
	0 0 0 0 0 0 1 2 2 2 5 5	140	5.96245E+26	
	0 0 0 0 1 1 1 1 1 2 5 5	756	1.28789E+28	
	0 0 0 0 1 1 1 1 1 1 5 6	420	2.38498E+27	
	0 0 0 0 0 0 0 0 2 2 5 8	30	7.60517E+23	
	0 0 0 0 0 0 0 1 2 2 5 7	240	4.86731E+25	
	0 0 0 0 0 0 1 1 2 2 5 6	840	1.19249E+27	
	0 0 0 0 0 1 1 1 2 2 5 5	840	7.15494E+27	
	0 0 0 0 0 1 1 1 1 2 5 6	1512	4.29297E+27	
	0 0 0 0 0 1 1 1 1 1 5 7	504	4.08854E+26	
	0 0 0 0 0 0 0 1 1 2 5 8	432	2.19029E+25	
	0 0 0 0 0 0 1 1 1 2 5 7	1008	4.08854E+26	
	0 0 0 0 0 0 1 1 1 1 5 8	420	4.25889E+25	
	0 0 0 0 0 0 2 2 2 2 4 5	30	3.19417E+26	
	0 0 0 0 0 1 2 2 2 2 4 4	90	4.79126E+27	
	0 0 1 1 1 1 1 1 1 2 4 4	216	9.19921E+28	
	0 0 1 1 1 1 1 1 1 1 4 5	90	1.5332E+28	
	0 0 0 1 1 1 1 1 2 2 4 4	840	1.78874E+29	
	0 0 0 1 1 1 1 1 1 2 4 5	1008	8.58593E+28	
	0 0 0 1 1 1 1 1 1 1 4 6	240	6.81423E+27	
	0 0 0 0 0 0 0 2 2 2 4 7	40	2.02804E+25	
	0 0 0 0 0 0 1 2 2 2 4 6	280	9.93742E+26	
	0 0 0 0 0 1 1 2 2 2 4 5	840	1.78874E+28	
	0 0 0 0 1 1 1 2 2 2 4 4	700	7.45307E+28	
	0 0 0 0 1 1 1 1 2 2 4 5	2100	8.94368E+28	
	0 0 0 0 1 1 1 1 1 2 4 6	1512	2.14648E+28	
	0 0 0 0 1 1 1 1 1 1 4 7	420	1.70356E+27	
	0 0 0 0 0 0 0 1 2 2 4 8	240	3.04207E+25	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 0 0 0 0 0 1 1 2 2 4 7	840	8.51779E+26	
	0 0 0 0 0 1 1 1 2 2 4 6	1680	1.19249E+28	
	0 0 0 0 0 1 1 1 1 2 4 7	1512	3.0664E+27	
	0 0 0 0 0 1 1 1 1 1 4 8	504	2.55534E+26	
	0 0 0 0 0 0 1 1 1 2 4 8	1008	2.55534E+26	
	0 1 1 1 1 1 1 1 2 2 3 3	120	4.08854E+29	
	0 1 1 1 1 1 1 1 1 1 3 5	20	1.36285E+28	
	0 1 1 1 1 1 1 1 1 2 3 4	108	1.83984E+29	
	0 0 1 1 1 1 1 2 2 2 3 3	420	7.15494E+29	
	0 0 1 1 1 1 1 1 2 2 3 4	840	7.15494E+29	
	0 0 1 1 1 1 1 1 1 1 3 6	90	1.02213E+28	
	0 0 1 1 1 1 1 1 1 2 3 5	432	1.47187E+29	
	0 0 0 0 0 0 2 2 2 2 3 6	30	2.12945E+26	
	0 0 0 0 0 1 2 2 2 2 3 5	180	7.66601E+27	
	0 0 0 0 1 1 2 2 2 2 3 4	450	9.58251E+28	
	0 0 0 1 1 1 2 2 2 2 3 3	300	2.55534E+29	
	0 0 0 1 1 1 1 2 2 2 3 4	1400	5.96245E+29	
	0 0 0 1 1 1 1 1 2 2 3 5	1680	2.86198E+29	
	0 0 0 1 1 1 1 1 1 1 3 7	240	3.89385E+27	
	0 0 0 1 1 1 1 1 1 2 3 6	1008	5.72395E+28	
	0 0 0 0 0 0 0 2 2 2 3 8	40	1.01402E+25	
	0 0 0 0 0 0 1 2 2 2 3 7	280	5.67853E+26	
	0 0 0 0 0 1 1 2 2 2 3 6	840	1.19249E+28	
	0 0 0 0 1 1 1 2 2 2 3 5	1400	1.19249E+29	
	0 0 0 0 1 1 1 1 2 2 3 6	2100	5.96245E+28	
	0 0 0 0 1 1 1 1 1 1 3 8	420	8.51779E+26	
	0 0 0 0 1 1 1 1 1 2 3 7	1512	1.22656E+28	
	0 0 0 0 0 0 1 1 2 2 3 8	840	4.25889E+26	
	0 0 0 0 0 1 1 1 2 2 3 7	1680	6.81423E+27	
	0 0 0 0 0 1 1 1 1 2 3 8	1512	1.5332E+27	
	1 1 1 1 1 1 1 2 2 2 2 2	56	8.58593E+29	
	1 1 1 1 1 1 1 1 2 2 2 3	70	7.15494E+29	
	1 1 1 1 1 1 1 1 1 1 1 6	2	1.36285E+27	
	1 1 1 1 1 1 1 1 1 1 2 5	14	2.86198E+28	
	1 1 1 1 1 1 1 1 1 2 2 4	42	2.14648E+29	
	0 0 1 1 1 2 2 2 2 2 2 2	80	3.0664E+29	
	0 0 0 1 1 2 2 2 2 2 2 3	140	1.78874E+29	
	0 0 0 0 0 2 2 2 2 2 2 5	14	8.94368E+26	
	0 0 0 0 1 2 2 2 2 2 2 4	70	2.23592E+28	
	0 1 1 1 1 1 2 2 2 2 2 2	168	1.28789E+30	
	0 1 1 1 1 1 1 2 2 2 2 3	490	2.50423E+30	
	0 1 1 1 1 1 1 1 2 2 2 4	560	1.43099E+30	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 1 1 1 1 1 1 1 1 1 1 7	22	2.14162E+27	
	0 1 1 1 1 1 1 1 1 1 2 6	140	4.76996E+28	
	0 1 1 1 1 1 1 1 1 2 2 5	378	3.86367E+29	
	0 0 1 1 1 1 2 2 2 2 2 3	630	1.60986E+30	
	0 0 1 1 1 1 1 2 2 2 2 4	1470	1.87817E+30	
	0 0 1 1 1 1 1 1 2 2 2 5	1960	1.00169E+30	
	0 0 1 1 1 1 1 1 1 1 1 8	110	1.33851E+27	
	0 0 1 1 1 1 1 1 1 1 2 7	630	3.0664E+28	
	0 0 1 1 1 1 1 1 1 2 2 6	1512	2.57578E+29	
	0 0 0 0 0 0 2 2 2 2 2 7	42	1.27767E+26	
	0 0 0 0 0 1 2 2 2 2 2 6	252	5.36621E+27	
	0 0 0 0 1 1 2 2 2 2 2 5	630	8.04931E+28	
	0 0 0 1 1 1 2 2 2 2 2 4	840	5.36621E+29	
	0 0 0 1 1 1 1 2 2 2 2 5	2450	6.26057E+29	
	0 0 0 1 1 1 1 1 2 2 2 6	3920	3.33897E+29	
	0 0 0 1 1 1 1 1 1 1 2 8	1680	1.02213E+28	
	0 0 0 1 1 1 1 1 1 2 2 7	3528	8.58593E+28	
	0 0 0 0 0 0 1 2 2 2 2 8	490	3.72653E+26	
	0 0 0 0 0 1 1 2 2 2 2 7	1470	8.94368E+27	
	0 0 0 0 1 1 1 2 2 2 2 6	2450	1.04343E+29	
	0 0 0 0 1 1 1 1 2 2 2 7	4900	5.96245E+28	
	0 0 0 0 1 1 1 1 1 2 2 8	5292	1.60986E+28	
	0 0 0 0 0 1 1 1 2 2 2 8	3920	5.96245E+27	
16	1 1 1 1 1 1 1 1 1 1 3 3	1	2.83926E+26	1.09793E+30
	0 0 0 0 2 2 2 2 2 2 2 2	1	3.99271E+25	
	0 0 0 0 0 0 0 0 0 0 8 8	1	6.28734E+18	
	0 0 0 0 0 0 0 0 1 1 7 7	45	1.81075E+22	
	0 0 0 0 0 0 0 0 0 2 7 7	6	1.20717E+21	
	0 0 0 0 0 0 0 0 0 1 7 8	20	1.00597E+21	
	0 0 0 0 0 2 2 2 2 2 3 3	6	5.32362E+25	
	0 0 1 1 1 1 1 1 1 1 4 4	45	7.98543E+26	
	0 1 1 1 1 1 1 1 1 2 3 3	54	7.66601E+27	
	0 1 1 1 1 1 1 1 1 1 3 4	20	1.41963E+27	
	0 0 0 1 1 2 2 2 2 2 2 2	80	6.38834E+27	
	0 0 0 0 1 2 2 2 2 2 2 3	70	1.86327E+27	
	0 0 0 0 0 0 2 2 2 2 4 4	15	1.66363E+25	
	0 0 0 0 0 2 2 2 2 2 2 4	14	9.31633E+25	
	0 0 0 0 1 1 1 1 1 1 5 5	210	1.49061E+26	
	1 1 1 1 1 1 1 1 2 2 2 2	70	4.47184E+28	
	0 0 0 1 1 1 1 1 1 2 4 4	504	4.47184E+27	
	0 0 0 1 1 1 1 1 1 1 4 5	240	8.51779E+26	
	0 0 1 1 1 1 1 1 2 2 3 3	420	2.98123E+28	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	1 1 1 1 1 1 1 1 1 2 2 3	42	1.78874E+28	
	0 0 1 1 1 1 1 1 1 2 3 4	432	1.5332E+28	
	0 0 1 1 1 1 1 1 1 1 3 5	90	1.27767E+27	
	1 1 1 1 1 1 1 1 1 1 2 4	14	2.98123E+27	
	1 1 1 1 1 1 1 1 1 1 1 5	2	1.70356E+26	
	0 1 1 1 1 1 1 2 2 2 2 2	392	1.25211E+29	
	0 0 1 1 1 1 2 2 2 2 2 2	420	6.70776E+28	
	0 0 0 0 1 1 2 2 2 2 3 3	225	3.99271E+27	
	0 0 0 0 0 1 2 2 2 2 3 4	180	7.98543E+26	
	0 0 0 0 0 0 2 2 2 2 3 5	30	2.66181E+25	
	0 0 0 1 1 1 2 2 2 2 2 3	840	4.47184E+28	
	0 0 0 1 1 1 1 2 2 2 3 3	700	2.48436E+28	
	0 1 1 1 1 1 1 1 2 2 2 3	560	1.19249E+29	
	0 0 0 1 1 1 1 1 2 2 3 4	1680	2.98123E+28	
	0 0 0 1 1 1 1 1 1 2 3 5	1008	7.15494E+27	
	0 0 0 1 1 1 1 1 1 1 3 6	240	5.67853E+26	
	0 1 1 1 1 1 1 1 1 2 2 4	378	4.02466E+28	
	0 1 1 1 1 1 1 1 1 1 2 5	140	5.96245E+27	
	0 1 1 1 1 1 1 1 1 1 1 6	22	3.12319E+26	
	0 0 1 1 1 1 1 2 2 2 2 3	1470	1.56514E+29	
	0 0 1 1 1 1 1 1 2 2 2 4	1960	1.04343E+29	
	0 0 1 1 1 1 1 1 1 2 2 5	1512	3.21972E+28	
	0 0 1 1 1 1 1 1 1 1 2 6	630	4.47184E+27	
	0 0 1 1 1 1 1 1 1 1 1 7	110	2.23085E+26	
	0 0 0 1 1 1 1 2 2 2 2 4	2450	6.52143E+28	
	0 0 0 1 1 1 1 1 2 2 2 5	3920	4.17372E+28	
	0 0 0 1 1 1 1 1 1 2 2 6	3528	1.25211E+28	
	0 0 0 1 1 1 1 1 1 1 2 7	1680	1.70356E+27	
	0 0 0 1 1 1 1 1 1 1 1 8	330	8.36569E+25	
	0 0 0 0 1 1 2 2 2 2 2 4	630	8.3847E+27	
	0 0 0 0 0 1 2 2 2 2 2 5	252	6.70776E+26	
	0 0 0 0 0 0 2 2 2 2 2 6	42	1.86327E+25	
	0 0 0 0 1 1 1 1 2 2 4 4	1050	4.65817E+27	
	0 0 0 0 1 1 1 1 1 2 4 5	1512	2.6831E+27	
	0 0 0 0 1 1 1 1 1 1 4 6	420	2.48436E+26	
	0 0 0 0 1 1 1 2 2 2 3 4	1400	1.24218E+28	
	0 0 0 0 1 1 1 1 2 2 3 5	2100	7.45307E+27	
	0 0 0 0 1 1 1 1 1 2 3 6	1512	1.78874E+27	
	0 0 0 0 1 1 1 1 1 1 3 7	420	1.41963E+26	
	0 0 0 0 1 1 1 2 2 2 2 5	2450	1.30429E+28	
	0 0 0 0 1 1 1 1 2 2 2 6	4900	8.69524E+27	
	0 0 0 0 1 1 1 1 1 2 2 7	5292	2.6831E+27	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 1 1 1 1 1 1 2 8	2940	3.72653E+26	
	0 0 0 0 0 0 1 1 1 1 6 6	210	4.14059E+24	
	0 0 0 0 0 0 0 1 1 2 6 6	216	2.12945E+24	
	0 0 0 0 0 0 0 1 1 1 6 7	240	6.76015E+23	
	0 0 0 0 0 0 0 0 2 2 6 6	15	7.39391E+22	
	0 0 0 0 0 0 0 0 1 2 6 7	108	1.52103E+23	
	0 0 0 0 0 0 0 0 1 1 6 8	90	3.16882E+22	
	0 0 0 0 0 0 0 0 0 2 6 8	12	2.11255E+21	
	0 0 0 0 0 1 1 1 1 2 5 5	756	2.6831E+26	
	0 0 0 0 0 1 1 1 1 1 5 6	504	5.96245E+25	
	0 0 0 0 0 0 1 1 2 2 5 5	420	7.45307E+25	
	0 0 0 0 0 0 1 1 1 2 5 6	1008	5.96245E+25	
	0 0 0 0 0 0 1 1 1 1 5 7	420	7.09816E+24	
	0 0 0 0 0 0 0 2 2 2 5 5	20	1.77454E+24	
	0 0 0 0 0 0 0 1 2 2 5 6	240	7.09816E+24	
	0 0 0 0 0 0 0 1 1 2 5 7	432	3.65048E+24	
	0 0 0 0 0 0 0 1 1 1 5 8	240	5.07011E+23	
	0 0 0 0 0 0 0 0 2 2 5 7	30	1.26753E+23	
	0 0 0 0 0 0 0 0 1 2 5 8	108	1.14078E+23	
	0 0 0 0 0 1 1 2 2 2 4 4	420	9.31633E+26	
	0 0 0 0 0 1 1 1 2 2 4 5	1680	1.49061E+27	
	0 0 0 0 0 1 1 1 1 2 4 6	1512	4.47184E+26	
	0 0 0 0 0 1 1 1 1 1 4 7	504	4.25889E+25	
	0 0 0 0 0 0 1 2 2 2 4 5	280	1.24218E+26	
	0 0 0 0 0 0 1 1 2 2 4 6	840	1.24218E+26	
	0 0 0 0 0 0 1 1 1 2 4 7	1008	4.25889E+25	
	0 0 0 0 0 0 1 1 1 1 4 8	420	4.43635E+24	
	0 0 0 0 0 0 0 2 2 2 4 6	40	2.95757E+24	
	0 0 0 0 0 0 0 1 2 2 4 7	240	5.07011E+24	
	0 0 0 0 0 0 0 1 1 2 4 8	432	2.28155E+24	
	0 0 0 0 0 0 0 0 2 2 4 8	30	7.92205E+22	
	0 0 0 0 0 1 1 2 2 2 3 5	840	1.49061E+27	
	0 0 0 0 0 1 1 1 2 2 3 6	1680	9.93742E+26	
	0 0 0 0 0 1 1 1 1 2 3 7	1512	2.55534E+26	
	0 0 0 0 0 1 1 1 1 1 3 8	504	2.12945E+25	
	0 0 0 0 0 0 1 2 2 2 3 6	280	8.28118E+25	
	0 0 0 0 0 0 1 1 2 2 3 7	840	7.09816E+25	
	0 0 0 0 0 0 1 1 1 2 3 8	1008	2.12945E+25	
	0 0 0 0 0 0 0 2 2 2 3 7	40	1.69004E+24	
	0 0 0 0 0 0 0 1 2 2 3 8	240	2.53506E+24	
	0 0 0 0 0 1 1 2 2 2 2 6	1470	1.30429E+27	
	0 0 0 0 0 0 1 2 2 2 2 7	490	6.21089E+25	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 0 2 2 2 2 8	70	1.10909E+24	
	0 0 0 0 0 1 1 1 2 2 2 7	3920	9.93742E+26	
	0 0 0 0 0 1 1 1 1 2 2 8	5292	3.35388E+26	
	0 0 0 0 0 0 1 1 2 2 2 8	1960	6.21089E+25	
17	0 0 0 0 0 0 0 0 0 1 7 7	10	8.21204E+19	5.536E+28
	0 0 0 0 0 0 0 0 0 0 7 8	2	2.05301E+18	
	0 0 0 0 0 0 0 1 1 1 6 6	120	4.82868E+22	
	0 0 0 0 0 0 0 0 0 2 6 7	12	3.44906E+20	
	0 0 0 0 0 0 0 0 1 2 6 6	54	1.08645E+22	
	0 0 0 0 0 0 0 0 1 1 6 7	90	5.17358E+21	
	0 0 0 0 0 0 0 0 0 1 6 8	20	1.43711E+20	
	0 0 0 0 0 2 2 2 2 2 2 3	14	7.60517E+24	
	0 0 0 0 1 2 2 2 2 2 2 2	40	6.51872E+25	
	0 0 0 0 0 1 1 1 1 1 5 5	252	3.65048E+24	
	0 0 0 0 0 0 1 1 1 2 5 5	504	3.65048E+24	
	0 0 0 0 0 0 1 1 1 1 5 6	420	1.01402E+24	
	0 0 0 0 0 0 0 0 2 2 5 6	30	1.81075E+22	
	0 0 0 0 0 0 0 1 2 2 5 5	120	4.34581E+23	
	0 0 0 0 0 0 0 1 1 2 5 6	432	5.21497E+23	
	0 0 0 0 0 0 0 1 1 1 5 7	240	8.27773E+22	
	0 0 0 0 0 0 0 0 0 2 5 8	12	2.58679E+20	
	0 0 0 0 0 0 0 0 1 2 5 7	108	1.86249E+22	
	0 0 0 0 0 0 0 0 1 1 5 8	90	3.88019E+21	
	0 1 1 1 1 1 1 1 1 1 3 3	10	5.79441E+25	
	0 0 0 1 1 1 1 1 1 1 4 4	120	4.34581E+25	
	0 0 0 0 0 0 0 2 2 2 4 5	40	3.62151E+23	
	0 0 0 0 0 0 1 2 2 2 4 4	140	6.33764E+24	
	0 0 0 0 1 1 1 1 1 2 4 4	756	1.36893E+26	
	0 0 0 0 1 1 1 1 1 1 4 5	420	3.04207E+25	
	0 0 0 0 0 0 0 0 2 2 4 7	30	1.2934E+22	
	0 0 0 0 0 0 0 1 2 2 4 6	240	7.24302E+23	
	0 0 0 0 0 0 1 1 2 2 4 5	840	1.52103E+25	
	0 0 0 0 0 1 1 1 2 2 4 4	840	7.60517E+25	
	0 0 0 0 0 1 1 1 1 2 4 5	1512	5.47572E+25	
	0 0 0 0 0 1 1 1 1 1 4 6	504	6.08413E+24	
	0 0 0 0 0 0 0 0 1 2 4 8	108	1.16406E+22	
	0 0 0 0 0 0 0 1 1 2 4 7	432	3.72498E+23	
	0 0 0 0 0 0 1 1 1 2 4 6	1008	6.08413E+24	
	0 0 0 0 0 0 1 1 1 1 4 7	420	7.24302E+23	
	0 0 0 0 0 0 0 1 1 1 4 8	240	5.17358E+22	
	0 0 0 0 0 0 2 2 2 2 3 4	30	2.71613E+24	
	0 0 0 0 0 1 2 2 2 2 3 3	90	3.25936E+25	

n	sorted unique pattern	# hits	$O(\text{StateSpace}_n)$ only the unique pattern	$O(\text{StateSpace}_n)$
	0 0 1 1 1 1 1 1 1 2 3 3	216	6.25797E+26	
	0 0 1 1 1 1 1 1 1 1 3 4	90	1.30374E+26	
	0 0 0 1 1 1 1 1 2 2 3 3	840	1.21683E+27	
	0 0 0 1 1 1 1 1 1 2 3 4	1008	7.30096E+26	
	0 0 0 1 1 1 1 1 1 1 3 5	240	6.9533E+25	
	0 0 0 0 0 0 2 2 2 3 6	40	2.41434E+23	
	0 0 0 0 0 0 1 2 2 2 3 5	280	1.01402E+25	
	0 0 0 0 0 1 1 2 2 2 3 4	840	1.52103E+26	
	0 0 0 0 1 1 1 2 2 2 3 3	700	5.07011E+26	
	0 0 0 0 1 1 1 1 2 2 3 4	2100	7.60517E+26	
	0 0 0 0 1 1 1 1 1 2 3 5	1512	2.19029E+26	
	0 0 0 0 1 1 1 1 1 1 3 6	420	2.02804E+25	
	0 0 0 0 0 0 0 2 2 3 8	30	6.46698E+21	
	0 0 0 0 0 0 0 1 2 2 3 7	240	4.13887E+23	
	0 0 0 0 0 0 1 1 2 2 3 6	840	1.01402E+25	
	0 0 0 0 0 1 1 1 2 2 3 5	1680	1.21683E+26	
	0 0 0 0 0 1 1 1 1 2 3 6	1512	3.65048E+25	
	0 0 0 0 0 1 1 1 1 1 3 7	504	3.47665E+24	
	0 0 0 0 0 0 0 1 1 2 3 8	432	1.86249E+23	
	0 0 0 0 0 0 1 1 1 2 3 7	1008	3.47665E+24	
	0 0 0 0 0 0 1 1 1 1 3 8	420	3.62151E+23	
	1 1 1 1 1 1 1 1 1 2 2 2	56	1.46019E+27	
	1 1 1 1 1 1 1 1 1 1 1 4	2	1.73832E+25	
	1 1 1 1 1 1 1 1 1 1 2 3	14	2.43365E+26	
	0 1 1 1 1 1 1 1 2 2 2 2	560	7.30096E+27	
	0 1 1 1 1 1 1 1 1 1 1 5	22	3.82431E+25	
	0 1 1 1 1 1 1 1 1 1 1 2 4	140	6.08413E+26	
	0 1 1 1 1 1 1 1 1 2 2 3	378	3.28543E+27	
	0 0 1 1 1 1 1 2 2 2 2 2	1176	7.66601E+27	
	0 0 1 1 1 1 1 1 2 2 2 3	1960	8.51779E+27	
	0 0 1 1 1 1 1 1 1 1 1 6	110	3.18693E+25	
	0 0 1 1 1 1 1 1 1 1 2 5	630	5.47572E+26	
	0 0 1 1 1 1 1 1 1 2 2 4	1512	3.28543E+27	
	0 0 0 0 0 2 2 2 2 2 5	42	2.28155E+24	
	0 0 0 0 0 1 2 2 2 2 2 4	252	6.84465E+25	
	0 0 0 0 1 1 2 2 2 2 2 3	630	6.84465E+26	
	0 0 0 1 1 1 2 2 2 2 2 2	560	1.82524E+27	
	0 0 0 1 1 1 1 2 2 2 2 3	2450	5.32362E+27	
	0 0 0 1 1 1 1 1 2 2 2 4	3920	4.25889E+27	
	0 0 0 1 1 1 1 1 1 1 1 7	330	1.36583E+25	
	0 0 0 1 1 1 1 1 1 1 2 6	1680	2.43365E+26	
	0 0 0 1 1 1 1 1 1 2 2 5	3528	1.5332E+27	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 0 2 2 2 2 7	70	1.81075E+23	
	0 0 0 0 0 0 1 2 2 2 2 6	490	8.8727E+24	
	0 0 0 0 0 1 1 2 2 2 2 5	1470	1.59709E+26	
	0 0 0 0 1 1 1 2 2 2 2 4	2450	1.3309E+27	
	0 0 0 0 1 1 1 1 2 2 2 5	4900	1.06472E+27	
	0 0 0 0 1 1 1 1 1 1 1 8	660	3.41457E+24	
	0 0 0 0 1 1 1 1 1 1 2 7	2940	6.08413E+25	
	0 0 0 0 1 1 1 1 1 2 2 6	5292	3.833E+26	
	0 0 0 0 0 0 0 1 2 2 2 8	560	3.62151E+23	
	0 0 0 0 0 0 1 1 2 2 2 7	1960	1.01402E+25	
	0 0 0 0 0 1 1 1 2 2 2 6	3920	1.41963E+26	
	0 0 0 0 0 1 1 1 1 1 2 8	3528	9.1262E+24	
	0 0 0 0 0 1 1 1 1 2 2 7	5292	5.47572E+25	
	0 0 0 0 0 0 1 1 1 2 2 8	3528	4.5631E+24	
18	0 0 0 0 0 0 0 0 0 0 7 7	1	1.64241E+17	2.43527E+27
	0 0 0 0 0 0 0 0 1 1 6 6	45	3.62151E+20	
	0 0 0 0 0 0 0 0 0 2 6 6	6	2.41434E+19	
	0 0 0 0 0 0 0 0 0 1 6 7	20	2.29937E+19	
	0 0 0 0 0 0 0 0 0 0 6 8	2	2.87421E+17	
	0 0 0 0 0 2 2 2 2 2 2 2	8	2.60749E+23	
	0 0 1 1 1 1 1 1 1 1 3 3	45	5.21497E+24	
	1 1 1 1 1 1 1 1 1 1 2 2	28	2.92038E+25	
	1 1 1 1 1 1 1 1 1 1 1 3	2	1.39066E+24	
	0 0 0 0 0 0 1 1 1 1 5 5	210	6.08413E+22	
	0 0 0 0 0 0 0 1 1 2 5 5	216	3.12898E+22	
	0 0 0 0 0 0 0 1 1 1 5 6	240	1.15888E+22	
	0 0 0 0 0 0 0 0 2 2 5 5	15	1.08645E+21	
	0 0 0 0 0 0 0 0 1 2 5 6	108	2.60749E+21	
	0 0 0 0 0 0 0 0 1 1 5 7	90	6.2083E+20	
	0 0 0 0 0 0 0 0 0 2 5 7	12	4.13887E+19	
	0 0 0 0 0 0 0 0 0 1 5 8	20	1.72453E+19	
	0 0 0 0 0 0 2 2 2 2 3 3	15	1.08645E+23	
	0 0 0 0 1 1 1 1 1 1 4 4	210	1.52103E+24	
	0 0 0 1 1 1 1 1 1 2 3 3	504	2.92038E+25	
	0 0 0 1 1 1 1 1 1 1 3 4	240	6.9533E+24	
	0 1 1 1 1 1 1 1 1 2 2 2	504	2.62835E+26	
	0 1 1 1 1 1 1 1 1 1 2 3	140	4.86731E+25	
	0 1 1 1 1 1 1 1 1 1 1 4	22	3.82431E+24	
	0 0 0 0 1 1 2 2 2 2 2 2	420	2.73786E+25	
	0 0 0 0 0 1 2 2 2 2 2 3	252	5.47572E+24	
	0 0 0 0 0 0 2 2 2 2 2 4	42	2.28155E+23	
	0 0 0 0 1 1 1 1 2 2 3 3	1050	3.04207E+25	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 1 1 1 1 1 2 3 4	1512	2.19029E+25	
	0 0 0 0 1 1 1 1 1 1 3 5	420	2.43365E+24	
	0 0 1 1 1 1 1 1 2 2 2 2	1960	5.11067E+26	
	0 0 1 1 1 1 1 1 1 2 2 3	1512	2.62835E+26	
	0 0 1 1 1 1 1 1 1 1 2 4	630	5.47572E+25	
	0 0 1 1 1 1 1 1 1 1 1 5	110	3.82431E+24	
	0 0 0 1 1 1 1 2 2 2 2 2	1960	2.55534E+26	
	0 0 0 1 1 1 1 1 2 2 2 3	3920	3.40712E+26	
	0 0 0 1 1 1 1 1 1 2 2 4	3528	1.5332E+26	
	0 0 0 1 1 1 1 1 1 1 2 5	1680	2.92038E+25	
	0 0 0 1 1 1 1 1 1 1 1 6	330	1.91216E+24	
	0 0 0 0 1 1 1 2 2 2 2 3	2450	1.06472E+26	
	0 0 0 0 1 1 1 1 2 2 2 4	4900	1.06472E+26	
	0 0 0 0 1 1 1 1 1 2 2 5	5292	4.59961E+25	
	0 0 0 0 1 1 1 1 1 1 2 6	2940	8.51779E+24	
	0 0 0 0 1 1 1 1 1 1 1 7	660	5.4633E+23	
	0 0 0 0 0 1 1 1 1 2 4 4	756	2.73786E+24	
	0 0 0 0 0 1 1 1 1 1 4 5	504	7.30096E+23	
	0 0 0 0 0 0 1 1 2 2 4 4	420	7.60517E+23	
	0 0 0 0 0 0 1 1 1 2 4 5	1008	7.30096E+23	
	0 0 0 0 0 0 1 1 1 1 4 6	420	1.01402E+23	
	0 0 0 0 0 0 0 2 2 2 4 4	20	1.81075E+22	
	0 0 0 0 0 0 0 1 2 2 4 5	240	8.69162E+22	
	0 0 0 0 0 0 0 1 1 2 4 6	432	5.21497E+22	
	0 0 0 0 0 0 0 1 1 1 4 7	240	8.27773E+21	
	0 0 0 0 0 0 0 0 2 2 4 6	30	1.81075E+21	
	0 0 0 0 0 0 0 0 1 2 4 7	108	1.86249E+21	
	0 0 0 0 0 0 0 0 1 1 4 8	90	3.88019E+20	
	0 0 0 0 0 0 0 0 0 2 4 8	12	2.58679E+19	
	0 0 0 0 0 1 1 2 2 2 3 3	420	6.08413E+24	
	0 0 0 0 0 1 1 1 2 2 3 4	1680	1.21683E+25	
	0 0 0 0 0 1 1 1 1 2 3 5	1512	4.38058E+24	
	0 0 0 0 0 1 1 1 1 1 3 6	504	4.86731E+23	
	0 0 0 0 0 0 1 2 2 2 3 4	280	1.01402E+24	
	0 0 0 0 0 0 1 1 2 2 3 5	840	1.21683E+24	
	0 0 0 0 0 0 1 1 1 2 3 6	1008	4.86731E+23	
	0 0 0 0 0 0 1 1 1 1 3 7	420	5.79441E+22	
	0 0 0 0 0 0 0 2 2 2 3 5	40	2.89721E+22	
	0 0 0 0 0 0 0 1 2 2 3 6	240	5.79441E+22	
	0 0 0 0 0 0 0 1 1 2 3 7	432	2.97998E+22	
	0 0 0 0 0 0 0 1 1 1 3 8	240	4.13887E+21	
	0 0 0 0 0 0 0 0 2 2 3 7	30	1.03472E+21	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 0 0 1 2 3 8	108	9.31245E+20	
	0 0 0 0 0 1 1 2 2 2 2 4	1470	1.59709E+25	
	0 0 0 0 0 0 1 2 2 2 2 5	490	1.06472E+24	
	0 0 0 0 0 0 0 2 2 2 2 6	70	2.53506E+22	
	0 0 0 0 0 1 1 1 2 2 2 5	3920	1.70356E+25	
	0 0 0 0 0 1 1 1 1 2 2 6	5292	7.66601E+24	
	0 0 0 0 0 1 1 1 1 1 2 7	3528	1.46019E+24	
	0 0 0 0 0 1 1 1 1 1 1 8	924	9.56078E+22	
	0 0 0 0 0 0 1 1 2 2 2 6	1960	1.41963E+24	
	0 0 0 0 0 0 1 1 1 2 2 7	3528	7.30096E+23	
	0 0 0 0 0 0 1 1 1 1 2 8	2940	1.52103E+23	
	0 0 0 0 0 0 0 1 2 2 2 7	560	5.79441E+22	
	0 0 0 0 0 0 0 1 1 2 2 8	1512	3.91123E+22	
	0 0 0 0 0 0 0 0 2 2 2 8	70	9.05377E+20	
19	0 0 0 0 0 0 0 0 0 1 6 6	10	1.578E+18	9.30991E+25
	0 0 0 0 0 0 0 0 0 0 6 7	2	4.50857E+16	
	0 0 0 0 0 0 0 1 1 1 5 5	120	6.81696E+20	
	0 0 0 0 0 0 0 0 0 2 5 6	12	5.6808E+18	
	0 0 0 0 0 0 0 0 1 2 5 5	54	1.53382E+20	
	0 0 0 0 0 0 0 0 1 1 5 6	90	8.5212E+19	
	0 0 0 0 0 0 0 0 0 0 5 8	2	3.38143E+16	
	0 0 0 0 0 0 0 0 0 1 5 7	20	2.70514E+18	
	0 0 0 0 0 1 1 1 1 1 4 4	252	3.5789E+22	
	0 0 0 0 0 0 1 1 1 2 4 4	504	3.5789E+22	
	0 0 0 0 0 0 1 1 1 1 4 5	420	1.19297E+22	
	0 0 0 0 0 0 0 0 2 2 4 5	30	2.1303E+20	
	0 0 0 0 0 0 0 1 2 2 4 4	120	4.2606E+21	
	0 0 0 0 0 0 0 1 1 2 4 5	432	6.13526E+21	
	0 0 0 0 0 0 0 1 1 1 4 6	240	1.13616E+21	
	0 0 0 0 0 0 0 0 0 2 4 7	12	4.05771E+18	
	0 0 0 0 0 0 0 0 1 2 4 6	108	2.55636E+20	
	0 0 0 0 0 0 0 0 1 1 4 7	90	6.08657E+19	
	0 0 0 0 0 0 0 0 0 1 4 8	20	1.69071E+18	
	1 1 1 1 1 1 1 1 1 1 1 2	8	3.27214E+23	
	0 0 0 1 1 1 1 1 1 1 3 3	120	2.72678E+23	
	0 0 0 0 0 0 0 2 2 2 3 4	40	2.8404E+21	
	0 0 0 0 0 0 1 2 2 2 3 3	140	3.97656E+22	
	0 0 0 0 1 1 1 1 1 2 3 3	756	8.58937E+23	
	0 0 0 0 1 1 1 1 1 1 3 4	420	2.38594E+23	
	0 0 0 0 0 0 0 0 2 2 3 6	30	1.4202E+20	
	0 0 0 0 0 0 0 1 2 2 3 5	240	6.81696E+21	
	0 0 0 0 0 0 1 1 2 2 3 4	840	1.19297E+23	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 1 1 1 2 2 3 3	840	4.77187E+23	
	0 0 0 0 0 1 1 1 1 2 3 4	1512	4.29468E+23	
	0 0 0 0 0 1 1 1 1 1 3 5	504	5.72624E+22	
	0 0 0 0 0 0 0 0 0 2 3 8	12	2.02886E+18	
	0 0 0 0 0 0 0 0 1 2 3 7	108	1.46078E+20	
	0 0 0 0 0 0 0 1 1 2 3 6	432	4.09017E+21	
	0 0 0 0 0 0 1 1 1 2 3 5	1008	5.72624E+22	
	0 0 0 0 0 0 1 1 1 1 3 6	420	7.95312E+21	
	0 0 0 0 0 0 0 0 1 1 3 8	90	3.04328E+19	
	0 0 0 0 0 0 0 1 1 1 3 7	240	6.49234E+20	
	0 1 1 1 1 1 1 1 1 1 1 3	22	2.99946E+23	
	0 1 1 1 1 1 1 1 1 1 2 2	280	5.72624E+24	
	0 0 0 0 0 0 2 2 2 2 2 3	42	1.78945E+22	
	0 0 0 0 0 1 2 2 2 2 2 2	168	2.14734E+23	
	0 0 1 1 1 1 1 1 1 2 2 2	2016	2.06145E+25	
	0 0 1 1 1 1 1 1 1 1 1 4	110	3.74933E+23	
	0 0 1 1 1 1 1 1 1 1 2 3	630	4.29468E+24	
	0 0 0 1 1 1 1 1 2 2 2 2	3920	2.00419E+25	
	0 0 0 1 1 1 1 1 1 2 2 3	3528	1.20251E+25	
	0 0 0 1 1 1 1 1 1 1 1 5	330	2.2496E+23	
	0 0 0 1 1 1 1 1 1 1 2 4	1680	2.86312E+24	
	0 0 0 0 0 0 0 2 2 2 2 5	70	2.98242E+21	
	0 0 0 0 0 0 1 2 2 2 2 4	490	1.04385E+23	
	0 0 0 0 0 1 1 2 2 2 2 3	1470	1.25262E+24	
	0 0 0 0 1 1 1 2 2 2 2 2	1960	5.01046E+24	
	0 0 0 0 1 1 1 1 2 2 2 3	4900	8.35077E+24	
	0 0 0 0 1 1 1 1 1 2 2 4	5292	4.50942E+24	
	0 0 0 0 1 1 1 1 1 1 1 6	660	7.49865E+22	
	0 0 0 0 1 1 1 1 1 1 2 5	2940	1.00209E+24	
	0 0 0 0 0 0 0 0 2 2 2 7	70	1.4202E+20	
	0 0 0 0 0 0 0 1 2 2 2 6	560	7.95312E+21	
	0 0 0 0 0 0 1 1 2 2 2 5	1960	1.67015E+23	
	0 0 0 0 0 1 1 1 2 2 2 4	3920	1.67015E+24	
	0 0 0 0 0 1 1 1 1 2 2 5	5292	9.01884E+23	
	0 0 0 0 0 1 1 1 1 1 1 7	924	1.49973E+22	
	0 0 0 0 0 1 1 1 1 1 2 6	3528	2.00419E+23	
	0 0 0 0 0 0 0 0 1 2 2 8	378	1.91727E+20	
	0 0 0 0 0 0 0 1 1 2 2 7	1512	6.13526E+21	
	0 0 0 0 0 0 1 1 1 2 2 6	3528	1.00209E+23	
	0 0 0 0 0 0 1 1 1 1 1 8	924	1.87466E+21	
	0 0 0 0 0 0 1 1 1 1 2 7	2940	2.38594E+22	
	0 0 0 0 0 0 0 1 1 1 2 8	1680	1.70424E+21	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
20	1 1 1 1 1 1 1 1 1 1 1 1	1	1.57314E+21	3.08072E+24
	0 0 0 0 0 0 0 0 0 0 6 6	1	3.03461E+15	
	0 0 0 0 0 0 0 0 1 1 5 5	45	4.91608E+18	
	0 0 0 0 0 0 0 0 0 2 5 5	6	3.27738E+17	
	0 0 0 0 0 0 0 0 0 1 5 6	20	3.64154E+17	
	0 0 0 0 0 0 0 0 0 0 5 7	2	5.2022E+15	
	0 1 1 1 1 1 1 1 1 1 1 2	88	6.92183E+22	
	0 0 0 0 0 0 1 1 1 1 4 4	210	5.73542E+20	
	0 0 0 0 0 0 0 1 1 2 4 4	216	2.94965E+20	
	0 0 0 0 0 0 0 1 1 1 4 5	240	1.31095E+20	
	0 0 0 0 0 0 0 0 2 2 4 4	15	1.02418E+19	
	0 0 0 0 0 0 0 0 1 2 4 5	108	2.94965E+19	
	0 0 0 0 0 0 0 0 1 1 4 6	90	8.19346E+18	
	0 0 0 0 0 0 0 0 0 2 4 6	12	5.46231E+17	
	0 0 0 0 0 0 0 0 0 1 4 7	20	2.6011E+17	
	0 0 0 0 0 0 0 0 0 0 4 8	2	3.25137E+15	
	0 0 0 0 0 0 2 2 2 2 2 2	28	6.88251E+20	
	0 0 0 0 1 1 1 1 1 1 3 3	210	9.17667E+21	
	0 0 1 1 1 1 1 1 1 1 2 2	1260	4.9554E+23	
	0 0 1 1 1 1 1 1 1 1 1 3	110	2.8841E+22	
	0 0 0 0 0 1 1 1 1 2 3 3	756	1.6518E+22	
	0 0 0 0 0 1 1 1 1 1 3 4	504	5.506E+21	
	0 0 0 0 0 0 1 1 2 2 3 3	420	4.58834E+21	
	0 0 0 0 0 0 1 1 1 2 3 4	1008	5.506E+21	
	0 0 0 0 0 0 1 1 1 1 3 5	420	9.17667E+20	
	0 0 0 0 0 0 0 2 2 2 3 3	20	1.09246E+20	
	0 0 0 0 0 0 0 1 2 2 3 4	240	6.55477E+20	
	0 0 0 0 0 0 0 1 1 2 3 5	432	4.71943E+20	
	0 0 0 0 0 0 0 1 1 1 3 6	240	8.73969E+19	
	0 0 0 0 0 0 0 0 2 2 3 5	30	1.63869E+19	
	0 0 0 0 0 0 0 0 1 2 3 6	108	1.96643E+19	
	0 0 0 0 0 0 0 0 1 1 3 7	90	4.68198E+18	
	0 0 0 0 0 0 0 0 0 2 3 7	12	3.12132E+17	
	0 0 0 0 0 0 0 0 0 1 3 8	20	1.30055E+17	
0 0 0 1 1 1 1 1 1 2 2 2	4704	9.25009E+23		
0 0 0 1 1 1 1 1 1 1 2 3	1680	2.2024E+23		
0 0 0 1 1 1 1 1 1 1 1 4	330	2.16307E+22		
0 0 0 0 1 1 1 1 2 2 2 2	4900	4.81775E+23		
0 0 0 0 1 1 1 1 1 2 2 3	5292	3.46878E+23		
0 0 0 0 1 1 1 1 1 1 2 4	2940	9.63551E+22		
0 0 0 0 1 1 1 1 1 1 1 5	660	8.65229E+21		
0 0 0 0 0 1 1 2 2 2 2 2	1176	5.7813E+22		

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 1 2 2 2 2 3	490	8.02959E+21	
	0 0 0 0 0 0 0 2 2 2 2 4	70	2.86771E+20	
	0 0 0 0 0 1 1 1 2 2 2 3	3920	1.28473E+23	
	0 0 0 0 0 1 1 1 1 2 2 4	5292	8.67196E+22	
	0 0 0 0 0 1 1 1 1 1 2 5	3528	2.31252E+22	
	0 0 0 0 0 1 1 1 1 1 1 6	924	2.01887E+21	
	0 0 0 0 0 0 1 1 2 2 2 4	1960	1.60592E+22	
	0 0 0 0 0 0 1 1 1 2 2 5	3528	1.15626E+22	
	0 0 0 0 0 0 1 1 1 1 2 6	2940	3.21184E+21	
	0 0 0 0 0 0 1 1 1 1 1 7	924	2.8841E+20	
	0 0 0 0 0 0 0 1 2 2 2 5	560	9.17667E+20	
	0 0 0 0 0 0 0 1 1 2 2 6	1512	8.25901E+20	
	0 0 0 0 0 0 0 1 1 1 2 7	1680	2.62191E+20	
	0 0 0 0 0 0 0 1 1 1 1 8	660	2.57509E+19	
	0 0 0 0 0 0 0 0 2 2 2 6	70	1.91181E+19	
	0 0 0 0 0 0 0 0 1 2 2 7	378	2.94965E+19	
	0 0 0 0 0 0 0 0 1 1 2 8	630	1.22902E+19	
	0 0 0 0 0 0 0 0 0 2 2 8	42	4.09673E+17	
21	0 0 0 0 0 0 0 0 0 1 5 5	10	2.06125E+16	8.78575E+22
	0 0 0 0 0 0 0 0 0 0 5 6	2	6.87083E+14	
	0 0 0 0 0 0 0 1 1 1 4 4	120	6.18374E+18	
	0 0 0 0 0 0 0 0 0 2 4 5	12	6.18374E+16	
	0 0 0 0 0 0 0 0 1 2 4 4	54	1.39134E+18	
	0 0 0 0 0 0 0 0 1 1 4 5	90	9.27561E+17	
	0 0 0 0 0 0 0 0 0 0 4 7	2	4.90773E+14	
	0 0 0 0 0 0 0 0 0 1 4 6	20	3.43541E+16	
	0 0 0 0 0 1 1 1 1 1 3 3	252	2.07774E+20	
	0 0 0 0 0 0 1 1 1 2 3 3	504	2.07774E+20	
	0 0 0 0 0 0 1 1 1 1 3 4	420	8.65724E+19	
	0 0 0 0 0 0 0 0 2 2 3 4	30	1.54594E+18	
	0 0 0 0 0 0 0 1 2 2 3 3	120	2.4735E+19	
	0 0 0 0 0 0 0 1 1 2 3 4	432	4.45229E+19	
	0 0 0 0 0 0 0 1 1 1 3 5	240	9.89399E+18	
	0 0 0 0 0 0 0 0 0 2 3 6	12	4.1225E+16	
	0 0 0 0 0 0 0 0 1 2 3 5	108	2.22615E+18	
	0 0 0 0 0 0 0 0 1 1 3 6	90	6.18374E+17	
	0 0 0 0 0 0 0 0 0 0 3 8	2	2.45387E+14	
	0 0 0 0 0 0 0 0 0 1 3 7	20	1.96309E+16	
	0 1 1 1 1 1 1 1 1 1 1 1	12	3.56184E+20	
	0 0 1 1 1 1 1 1 1 1 1 2	440	6.53003E+21	
	0 0 0 1 1 1 1 1 1 1 1 3	330	1.63251E+21	
	0 0 0 1 1 1 1 1 1 1 2 2	3360	2.49328E+22	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 0 2 2 2 2 3	70	2.16431E+19	
	0 0 0 0 0 0 1 2 2 2 2 2	392	3.63604E+20	
	0 0 0 0 1 1 1 1 1 2 2 2	7056	2.61795E+22	
	0 0 0 0 1 1 1 1 1 1 1 4	660	8.16254E+20	
	0 0 0 0 1 1 1 1 1 1 2 3	2940	7.27208E+21	
	0 0 0 0 0 0 0 0 2 2 2 5	70	2.16431E+18	
	0 0 0 0 0 0 0 1 2 2 2 4	560	8.65724E+19	
	0 0 0 0 0 0 1 1 2 2 2 3	1960	1.21201E+21	
	0 0 0 0 0 1 1 1 2 2 2 2	3920	7.27208E+21	
	0 0 0 0 0 1 1 1 1 2 2 3	5292	6.54487E+21	
	0 0 0 0 0 1 1 1 1 1 1 5	924	2.28551E+20	
	0 0 0 0 0 1 1 1 1 1 2 4	3528	2.18162E+21	
	0 0 0 0 0 0 0 0 0 2 2 7	42	6.18374E+16	
	0 0 0 0 0 0 0 0 1 2 2 6	378	3.89576E+18	
	0 0 0 0 0 0 0 1 1 2 2 5	1512	9.34982E+19	
	0 0 0 0 0 0 1 1 1 2 2 4	3528	1.09081E+21	
	0 0 0 0 0 0 1 1 1 1 1 6	924	3.80919E+19	
	0 0 0 0 0 0 1 1 1 1 2 5	2940	3.63604E+20	
	0 0 0 0 0 0 0 0 1 1 1 8	330	2.42933E+17	
	0 0 0 0 0 0 0 0 0 1 2 8	140	5.15312E+16	
	0 0 0 0 0 0 0 1 1 1 1 7	660	3.88692E+18	
	0 0 0 0 0 0 0 0 1 1 2 7	630	1.85512E+18	
	0 0 0 0 0 0 0 1 1 1 2 6	1680	3.4629E+19	
22	0 0 0 0 0 0 0 0 0 0 5 5	1	3.81713E+13	2.1486E+21
	0 0 0 0 0 0 0 0 0 1 1 4 4	45	4.29427E+16	
	0 0 0 0 0 0 0 0 0 2 4 4	6	2.86284E+15	
	0 0 0 0 0 0 0 0 0 1 4 5	20	3.81713E+15	
	0 0 0 0 0 0 0 0 0 0 4 6	2	6.36188E+13	
	0 0 1 1 1 1 1 1 1 1 1 1	66	3.6278E+19	
	0 0 0 0 0 0 1 1 1 1 3 3	210	3.20639E+18	
	0 0 0 0 0 0 0 1 1 2 3 3	216	1.649E+18	
	0 0 0 0 0 0 0 1 1 1 3 4	240	9.1611E+17	
	0 0 0 0 0 0 0 0 2 2 3 3	15	5.72569E+16	
	0 0 0 0 0 0 0 0 1 2 3 4	108	2.06125E+17	
	0 0 0 0 0 0 0 0 1 1 3 5	90	6.87083E+16	
	0 0 0 0 0 0 0 0 0 2 3 5	12	4.58055E+15	
	0 0 0 0 0 0 0 0 0 1 3 6	20	2.54475E+15	
	0 0 0 0 0 0 0 0 0 0 3 7	2	3.63536E+13	
	0 0 0 1 1 1 1 1 1 1 1 2	1320	3.6278E+20	
	0 0 0 0 0 0 0 2 2 2 2 2	56	9.61916E+17	
	0 0 0 0 1 1 1 1 1 1 2 2	5880	8.08009E+20	
	0 0 0 0 1 1 1 1 1 1 1 3	660	6.04633E+19	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 1 1 1 1 2 2 2	7056	4.84805E+20	
	0 0 0 0 0 1 1 1 1 1 2 3	3528	1.61602E+20	
	0 0 0 0 0 1 1 1 1 1 1 4	924	2.11621E+19	
	0 0 0 0 0 0 1 1 2 2 2 2	1960	6.73341E+19	
	0 0 0 0 0 0 1 1 1 2 2 3	3528	8.08009E+19	
	0 0 0 0 0 0 1 1 1 1 2 4	2940	3.3667E+19	
	0 0 0 0 0 0 1 1 1 1 1 5	924	4.23243E+18	
	0 0 0 0 0 0 0 1 2 2 2 3	560	6.41277E+18	
	0 0 0 0 0 0 0 1 1 2 2 4	1512	8.65724E+18	
	0 0 0 0 0 0 0 1 1 1 2 5	1680	3.84766E+18	
	0 0 0 0 0 0 0 1 1 1 1 6	660	5.03861E+17	
	0 0 0 0 0 0 0 0 2 2 2 4	70	2.00399E+17	
	0 0 0 0 0 0 0 0 1 2 2 5	378	4.32862E+17	
	0 0 0 0 0 0 0 0 1 1 2 6	630	2.40479E+17	
	0 0 0 0 0 0 0 0 1 1 1 7	330	3.599E+16	
	0 0 0 0 0 0 0 0 0 2 2 6	42	8.01596E+15	
	0 0 0 0 0 0 0 0 0 1 2 7	140	7.63425E+15	
	0 0 0 0 0 0 0 0 0 1 1 8	110	1.49958E+15	
	0 0 0 0 0 0 0 0 0 0 2 8	14	9.54281E+13	
23	0 0 0 0 0 0 0 0 0 1 4 4	10	1.73506E+14	4.47876E+19
	0 0 0 0 0 0 0 0 0 0 4 5	2	6.94023E+12	
	0 0 0 0 0 0 0 1 1 1 3 3	120	3.33131E+16	
	0 0 0 0 0 0 0 0 0 2 3 4	12	4.16414E+14	
	0 0 0 0 0 0 0 0 1 2 3 3	54	7.49545E+15	
	0 0 0 0 0 0 0 0 1 1 3 4	90	6.2462E+15	
	0 0 0 0 0 0 0 0 0 0 3 6	2	4.62682E+12	
	0 0 0 0 0 0 0 0 0 1 3 5	20	2.77609E+14	
	0 0 0 1 1 1 1 1 1 1 1 1	220	2.19866E+18	
	0 0 0 0 1 1 1 1 1 1 1 2	2640	1.3192E+19	
	0 0 0 0 0 0 0 0 2 2 2 3	70	1.45745E+16	
	0 0 0 0 0 0 0 1 2 2 2 2	560	3.49787E+17	
	0 0 0 0 0 1 1 1 1 1 2 2	7056	1.76293E+19	
	0 0 0 0 0 1 1 1 1 1 1 3	924	1.53906E+18	
	0 0 0 0 0 0 0 0 0 2 2 5	42	8.74469E+14	
	0 0 0 0 0 0 0 0 1 2 2 4	378	3.93511E+16	
	0 0 0 0 0 0 0 1 1 2 2 3	1512	6.29617E+17	
	0 0 0 0 0 0 1 1 1 2 2 2	4704	5.87643E+18	
	0 0 0 0 0 0 1 1 1 1 2 3	2940	2.44851E+18	
	0 0 0 0 0 0 1 1 1 1 1 4	924	3.84766E+17	
	0 0 0 0 0 0 0 0 0 0 2 7	14	1.38805E+13	
	0 0 0 0 0 0 0 0 0 0 1 2 6	140	9.71632E+14	
	0 0 0 0 0 0 0 0 0 1 1 2 5	630	2.62341E+16	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
	0 0 0 0 0 0 0 1 1 1 2 4	1680	3.49787E+17	
	0 0 0 0 0 0 0 1 1 1 1 5	660	5.49666E+16	
	0 0 0 0 0 0 0 0 0 0 1 8	22	5.45304E+12	
	0 0 0 0 0 0 0 0 0 1 1 7	110	2.18121E+14	
	0 0 0 0 0 0 0 0 1 1 1 6	330	4.58055E+15	
24	0 0 0 0 0 0 0 0 0 0 4 4	1	3.09832E+11	7.89728E+17
	0 0 0 0 0 0 0 0 1 1 3 3	45	2.23079E+14	
	0 0 0 0 0 0 0 0 0 2 3 3	6	1.48719E+13	
	0 0 0 0 0 0 0 0 0 1 3 4	20	2.47865E+13	
	0 0 0 0 0 0 0 0 0 0 3 5	2	4.95731E+11	
	0 0 0 0 1 1 1 1 1 1 1 1	495	8.83392E+16	
	0 0 0 0 0 1 1 1 1 1 1 2	3696	3.298E+17	
	0 0 0 0 0 0 1 1 1 1 2 2	5880	2.62341E+17	
	0 0 0 0 0 0 1 1 1 1 1 3	924	2.74833E+16	
	0 0 0 0 0 0 0 1 1 2 2 2	2016	4.49727E+16	
	0 0 0 0 0 0 0 1 1 1 2 3	1680	2.49848E+16	
	0 0 0 0 0 0 0 1 1 1 1 4	660	4.90773E+15	
	0 0 0 0 0 0 0 0 2 2 2 2	70	7.80776E+14	
	0 0 0 0 0 0 0 0 1 2 2 3	378	2.81079E+15	
	0 0 0 0 0 0 0 0 1 1 2 4	630	2.34233E+15	
	0 0 0 0 0 0 0 0 1 1 1 5	330	4.90773E+14	
	0 0 0 0 0 0 0 0 0 2 2 4	42	7.80776E+13	
	0 0 0 0 0 0 0 0 0 1 2 5	140	1.04103E+14	
	0 0 0 0 0 0 0 0 0 1 1 6	110	2.72652E+13	
	0 0 0 0 0 0 0 0 0 0 2 6	14	1.73506E+12	
	0 0 0 0 0 0 0 0 0 0 1 7	22	7.79005E+11	
	0 0 0 0 0 0 0 0 0 0 0 8	2	8852330736	
25	0 0 0 0 0 0 0 0 0 1 3 3	10	8.69703E+11	1.16634E+16
	0 0 0 0 0 0 0 0 0 0 3 4	2	43485133440	
	0 0 0 0 0 1 1 1 1 1 1 1	792	2.4797E+15	
	0 0 0 0 0 0 0 0 0 2 2 3	42	5.47913E+12	
	0 0 0 0 0 0 0 0 1 2 2 2	504	1.97249E+14	
	0 0 0 0 0 0 1 1 1 1 1 2	3696	5.78596E+15	
	0 0 0 0 0 0 0 0 0 0 2 5	14	1.82638E+11	
	0 0 0 0 0 0 0 0 0 1 2 4	140	9.13188E+12	
	0 0 0 0 0 0 0 0 1 1 2 3	630	1.64374E+14	
	0 0 0 0 0 0 0 1 1 1 2 2	3360	2.62998E+15	
	0 0 0 0 0 0 0 1 1 1 1 3	660	3.44402E+14	
	0 0 0 0 0 0 0 0 0 0 0 7	2	1242432384	
	0 0 0 0 0 0 0 0 0 0 1 6	22	95667293568	
	0 0 0 0 0 0 0 0 0 1 1 5	110	2.87002E+12	
	0 0 0 0 0 0 0 0 1 1 1 4	330	4.30503E+13	

n	sorted unique pattern	# hits	$O(StateSpace_n)$ only the unique pattern	$O(StateSpace_n)$
26	0 0 0 0 0 0 0 0 0 0 3 3	1	1499487360	1.4239E+14
	0 0 0 0 0 0 1 1 1 1 1 1	924	4.98789E+13	
	0 0 0 0 0 0 0 1 1 1 1 2	2640	7.12556E+13	
	0 0 0 0 0 0 0 0 1 1 2 2	1260	1.70042E+13	
	0 0 0 0 0 0 0 0 1 1 1 3	330	2.96898E+12	
	0 0 0 0 0 0 0 0 0 2 2 2	56	3.77871E+11	
	0 0 0 0 0 0 0 0 0 1 2 3	140	6.29785E+11	
	0 0 0 0 0 0 0 0 0 1 1 4	110	2.47415E+11	
	0 0 0 0 0 0 0 0 0 0 2 4	14	15744617280	
	0 0 0 0 0 0 0 0 0 0 1 5	22	9896616576	
	0 0 0 0 0 0 0 0 0 0 0 6	2	149948736	
27	0 0 0 0 0 0 0 1 1 1 1 1	792	7.24634E+11	1.41124E+12
	0 0 0 0 0 0 0 0 1 1 1 2	1320	6.03861E+11	
	0 0 0 0 0 0 0 0 0 0 2 3	14	1067431680	
	0 0 0 0 0 0 0 0 0 1 2 2	280	64045900800	
	0 0 0 0 0 0 0 0 0 1 1 3	110	16773926400	
	0 0 0 0 0 0 0 0 0 0 0 5	2	15249024	
	0 0 0 0 0 0 0 0 0 0 1 4	22	838696320	
28	0 0 0 0 0 0 0 0 1 1 1 1	495	7548266880	11066979168
	0 0 0 0 0 0 0 0 0 1 1 2	440	3354785280	
	0 0 0 0 0 0 0 0 0 0 2 2	28	106743168	
	0 0 0 0 0 0 0 0 0 0 1 3	22	55913088	
	0 0 0 0 0 0 0 0 0 0 0 4	2	1270752	
29	0 0 0 0 0 0 0 0 0 1 1 1	220	54996480	66079104
	0 0 0 0 0 0 0 0 0 0 0 3	2	83328	
	0 0 0 0 0 0 0 0 0 0 1 2	88	10999296	
30	0 0 0 0 0 0 0 0 0 0 1 1	66	266112	282240
	0 0 0 0 0 0 0 0 0 0 0 2	8	16128	
31	0 0 0 0 0 0 0 0 0 0 0 1	12	768	768
32	0 0 0 0 0 0 0 0 0 0 0 0	1	1	1