

通信競技大会練習問題 解答 第1回～第3回

第 1 回				第 2 回				第 3 回			
乗算	除算	見取算	暗算	乗算	除算	見取算	暗算	乗算	除算	見取算	暗算
1 9,225	16	1 3,315	132	1 7,320	92	1 3,439	145	1 9,672	43	1 2,570	106
2 37,720	102	2 679	116	2 10,998	405	2 3,468	97	2 38,897	594	2 2,834	36
3 65,286	67	3 1,006	122	3 52,026	36	3 1,348	80	3 14,193	78	3 1,579	166
4 34,830	290	4 4,226	27	4 31,535	952	4 1,355	11	4 51,072	802	4 4,009	27
5 30,699	41	5 3,358	21	5 13,688	78	5 3,029	33	5 21,879	93	5 1,637	59
6 47,652	517	6 3,056	126	6 19,933	107	6 3,230	112	6 30,330	905	6 3,784	123
7 41,472	39	7 4,423	69	7 15,904	39	7 1,924	76	7 3,864	16	7 3,167	53
8 9,021	459	8 740	143	8 62,790	960	8 3,305	123	8 22,176	862	8 3,951	84
9 59,540	74	9 1,355	10	9 47,880	85	9 3,011	9	9 18,900	94	9 1,083	146
10 39,034	362	10 3,869	107	10 6,768	641	10 782	119	10 13,149	507	10 905	60
11 307,775	420	11 23,541	131	11 143,808	190	11 27,442	91	11 548,064	120	11 28,222	164
12 445,380	765	12 13,553	69	12 156,256	736	12 24,219	32	12 110,600	806	12 29,068	142
13 169,312	801	13 22,757	161	13 855,301	405	13 17,623	90	13 511,204	497	13 19,811	60
14 64,152	198	14 24,735	121	14 532,224	548	14 9,475	158	14 18,560	685	14 16,642	15
15 275,877	657	15 18,374	48	15 59,200	912	15 22,413	59	15 355,718	732	15 17,942	113
16 483,488	635	16 19,500	254	16 107,632	758	16 25,847	338	16 305,613	306	16 27,008	223
17 263,268	240	17 20,002	70	17 710,056	512	17 19,938	163	17 715,260	184	17 28,172	232
18 207,142	819	18 12,356	249	18 270,039	396	18 14,831	116	18 555,564	250	18 15,671	55
19 91,211	476	19 22,385	77	19 39,182	204	19 15,513	282	19 247,608	415	19 13,510	297
20 526,620	380	20 21,847	316	20 236,880	160	20 25,070	188	20 65,190	892	20 25,756	201
21 2,522,484	2016	21 167,616	278	21 3,022,200	853	21 220,419	265	21 3,438,204	7,501	21 185,481	242
22 4,740,952	742	22 156,375	252	22 4,838,088	7,946	22 242,334	99	22 1,244,766	968	22 158,319	260
23 1,207,899	7,658	23 119,412	277	23 575,940	851	23 87,723	93	23 2,352,578	8,652	23 132,174	266
24 4,261,440	185	24 55,407	132	24 3,520,957	2,360	24 215,253	276	24 3,989,310	349	24 60,773	108
25 109,695	5,974	25 121,728	143	25 1,931,241	412	25 27,274	255	25 843,076	2,716	25 76,613	114
26 7,976,682	549	26 976,344	1,024	26 3,173,057	7,042	26 1,137,378	1,199	26 8,231,136	286	26 1,306,203	1,677
27 827,730	1,382	27 1,236,170	524	27 3,431,960	389	27 1,315,923	1,199	27 196,482	4,973	27 1,344,988	1,416
28 2,328,336	247	28 1,722,623	710	28 1,205,832	3,094	28 176,750	904	28 4,089,351	815	28 147,121	648
29 3,741,853	6,103	29 112,579	1,015	29 3,478,020	256	29 1,436,605	530	29 2,260,190	6,029	29 302,483	705
30 5,025,960	467	30 376,453	99	30 681,609	8,471	30 187,189	541	30 1,339,536	451	30 1,471,460	966
31 1,993,860	2,359	31 9,775,242	2,946	31 60,266,394	8,156	31 9,332,316	3,057	31 611,661,54	6,247	31 18,966,960	2,403
32 33,519,624	1,468	32 1,870,887	1,266	32 8,723,150	4,928	32 10,085,589	1,865	32 378,12,096	9,368	32 11,758,779	1,196
33 25,557,240	6,935	33 11,529,369	1,905	33 20,248,380	5,342	33 6,031,017	1,253	33 4,022,601	8,925	33 2,992,829	2,868
34 17,628,877	8,247	34 15,419,628	2,632	34 72,973,636	3,297	34 16,930,314	2,358	34 35,848,260	3,196	34 8,527,617	830
35 52,598,816	9,714	35 4,002,115	1,750	35 14,134,310	1,579	35 4,638,467	934	35 16,252,530	2,574	35 3,063,034	1,979
36 84,389,550	84,526	36 18,905,670	20,205	36 405,401,337	76,853	36 21,682,251	18,963	36 103,013,218	6,392	36 19,884,861	18,135
37 306,911,170	8,604	37 -8,409,867	4,863	37 202,974,664	9,134	37 5,077,152	11,743	37 443,639,520	98,274	37 28,436,346	7,099
38 720,787,200	45,730	38 25,461,495	23,139	38 289,933,980	83,790	38 27,862,272	7,420	38 459,323,568	4,981	38 20,451,087	16,695
39 373,122,608	7,251	39 6,107,826	18,153	39 105,571,127	5,127	39 25,413,102	14,976	39 247,481,295	63,105	39 -933,222	13,663
40 185,429,588	9,134	40 27,711,468	12,858	40 91,237,266	61,042	40 -817,840	12,807	40 99,683,310	5,680	40 2,942,498	22,698
41 3,551,294,508	30,768	41 104,218,362	30,936	41 2,795,501,160	10,275	41 173,412,614	37,711	41 3,603,727,166	20,159	41 114,258,603	36,255
42 1,548,376,251	24,581	42 101,050,548	1,145	42 2,853,298,486	51,864	42 109,196,507	13,723	42 6,492,597,593	95,863	42 91,933,597	17,352
43 2,104,618,866	47,139	43 31,168,467	31,724	43 2,201,043,030	92,347	43 133,668,240	31,652	43 5,107,759,944	86,914	43 158,391,487	11,393
44 6,478,450,836	51,492	44 89,892,085	31,037	44 1,697,048,976	20,683	44 48,513,621	31,858	44 1,162,928,434	58,647	44 9,322,002	33,854
45 260,890,440	95,826	45 10,319,354	11,385	45 503,278,853	74,519	45 15,779,051	16,523	45 253,389,560	13,796	45 48,762,405	34,825
46 51,446,281,406	67,389	46 291,905,775	128,614	46 81,370,873,356	12,486	46 265,619,601	221,517	46 46,009,872,429	642,170	46 249,044,769	197,616
47 9,058,905,278	840,931	47 304,567,848	39,518	47 43,146,412,120	684,971	47 303,789,672	252,378	47 11,583,779,328	35,869	47 45,170,583	38,300
48 37,816,465,842	51,408	48 43,117,110	135,691	48 3,085,142,385	61,459	48 -14,289,642	91,197	48 28,220,347,960	274,603	48 -51,538,410	198,293
49 20,676,607,892	725,163	49 -81,048,114	80,432	49 35,461,481,008	129,367	49 53,264,653	72,770	49 85,355,758,840	50,782	49 210,368,169	174,146
50 61,349,545,530	43,812	50 250,320,618	125,480	50 72,503,576,761	83,175	50 224,758,998	162,474	50 8,003,469,344	491,376	50 265,237,137	121,631

通信競技大会練習問題 解答 第4回～第6回

第 4 回				第 5 回				第 6 回			
乗算	除算	見取算	暗算	乗算	除算	見取算	暗算	乗算	除算	見取算	暗算
1 53,440	61	1 3,011	95	1 66,723	34	1 3,145	93	1 17,484	62	1 3,770	81
2 6,448	175	2 3,090	144	2 9,048	125	2 1,177	181	2 5,160	730	2 3,354	25
3 23,858	14	3 3,173	131	3 47,888	71	3 2,495	76	3 53,118	89	3 3,441	39
4 72,760	205	4 2,322	12	4 24,492	863	4 3,271	20	4 61,575	978	4 901	151
5 21,708	76	5 566	10	5 17,034	18	5 3,193	3	5 11,387	32	5 1,307	185
6 26,767	628	6 3,393	187	6 11,850	704	6 3,898	162	6 13,668	420	6 3,863	74
7 33,969	59	7 1,414	101	7 5,950	79	7 1,955	141	7 43,516	95	7 3,508	129
8 68,160	385	8 3,503	54	8 14,274	145	8 2,547	39	8 30,291	362	8 2,114	80
9 14,665	26	9 3,452	8	9 49,952	28	9 1,838	142	9 66,690	67	9 3,493	17
10 7,791	802	10 1,786	94	10 30,044	650	10 3,490	55	10 6,265	495	10 1,308	21
11 229,117	746	11 22,633	105	11 387,099	849	11 23,367	84	11 353,054	264	11 24,933	53
12 595,424	193	12 15,284	25	12 191,360	635	12 15,325	164	12 419,198	975	12 27,607	17
13 112,750	285	13 21,068	64	13 39,864	217	13 24,954	44	13 547,766	183	13 30,460	81
14 96,188	927	14 14,453	139	14 387,504	590	14 17,100	183	14 18,625	320	14 17,141	135
15 297,540	314	15 23,480	122	15 793,625	603	15 27,806	29	15 168,300	507	15 14,749	154
16 290,372	104	16 24,431	334	16 339,040	956	16 32,229	290	16 210,896	695	16 25,405	217
17 56,097	258	17 24,611	241	17 157,680	824	17 23,331	92	17 449,860	817	17 17,038	150
18 169,332	673	18 18,571	342	18 456,141	317	18 31,021	247	18 13,625	342	18 15,793	72
19 263,835	380	19 13,661	94	19 208,936	803	19 16,114	176	19 156,009	209	19 10,917	291
20 166,680	492	20 23,772	80	20 97,206	260	20 11,482	272	20 119,168	420	20 22,544	286
21 4,898,432	183	21 183,609	278	21 1,824,592	5,427	21 216,297	323	21 4,884,026	439	21 154,062	223
22 1,774,231	5,670	22 199,125	319	22 3,363,030	683	22 73,502	44	22 1,706,166	7,685	22 145,638	277
23 1,450,116	1,094	23 60,594	216	23 2,805,628	8,734	23 55,782	321	23 657,488	5,723	23 139,203	241
24 700,755	825	24 192,798	109	24 5,157,426	519	24 146,997	182	24 2,954,840	382	24 55,055	82
25 6,239,040	349	25 101,415	37	25 946,960	4,862	25 155,232	253	25 4,580,650	501	25 67,880	77
26 6,155,790	9,285	26 1,616,523	1,854	26 7,614,308	573	26 1,283,500	1,507	26 1,123,938	1,207	26 1,216,585	1,000
27 1,799,526	670	27 1,364,002	1,053	27 482,300	1,849	27 379,366	1,424	27 5,943,555	634	27 322,665	204
28 638,747	2,196	28 1,859,790	300	28 4,182,486	753	28 1,192,539	810	28 3,695,220	9,518	28 1,128,925	565
29 5,927,040	843	29 538,134	277	29 1,264,200	4,908	29 543,468	703	29 878,224	459	29 1,159,909	1,464
30 1,338,324	4,719	30 247,309	546	30 2,260,500	726	30 1,358,291	347	30 1,342,464	8,763	30 493,708	1,253
31 38,580,140	5,271	31 10,434,825	3,168	31 4,716,846	1,657	31 6,407,379	3,131	31 20,715,240	5,946	31 4,520,286	2,312
32 21,258,614	3,926	32 14,983,920	549	32 59,920,960	3,172	32 4,729,358	3,015	32 25,447,798	2,804	32 3,407,130	1,600
33 8,151,552	2,407	33 2,786,372	807	33 34,312,128	7,805	33 4,900,160	738	33 7,883,760	9,453	33 14,307,534	2,816
34 26,385,120	4,769	34 16,413,822	2,313	34 65,668,718	2,489	34 16,668,828	2,430	34 83,092,516	7,318	34 10,281,492	694
35 41,177,916	1,038	35 6,382,032	2,347	35 15,855,663	6,031	35 12,966,714	255	35 13,266,972	1,267	35 3,796,074	3,393
36 518,740,068	50,164	36 18,591,624	13,860	36 292,660,786	5,973	36 26,726,787	17,964	36 518,269,767	63,892	36 22,896,414	20,808
37 235,714,928	3,806	37 3,554,765	11,465	37 144,322,965	67,019	37 31,148,766	3,249	37 180,093,726	5,478	37 20,713,824	15,966
38 42,214,935	34,928	38 19,417,077	21,672	38 94,046,040	2,758	38 -2400,001	15,822	38 369,785,955	53,189	38 21,853,152	5,044
39 366,851,140	6,251	39 20,658,663	26,271	39 302,181,800	90,482	39 4,402,601	3,847	39 128,342,440	7,520	39 -4,273,258	20,358
40 176,616,960	40,987	40 -2,951,311	11,434	40 243,178,029	1,709	40 14,791,356	17,514	40 94,241,106	34,017	40 10,126,458	13,156
41 1,894,670,084	57,192	41 108,501,626	32,244	41 2,168,470,480	92,013	41 150,063,231	28,504	41 1,825,771,702	67,354	41 166,031,551	32,251
42 391,656,650	98,253	42 89,458,217	22,976	42 1,955,532,385	78,539	42 29,384,716	8,092	42 4,250,116,332	91,708	42 177,067,222	14,983
43 1,762,150,944	24,501	43 46,851,576	37,267	43 4,146,595,648	26,458	43 148,740,405	32,775	43 1,098,552,195	20,841	43 116,792,707	8,806
44 5,566,553,899	50,368	44 128,678,246	28,373	44 2,929,329,590	91,702	44 18,731,584	32,912	44 5,005,002,210	56,029	44 8,732,832	28,902
45 1,617,181,696	23,670	45 26,634,368	9,335	45 974,970,004	54,891	45 150,069,423	7,248	45 919,525,376	37,286	45 15,193,815	32,156
46 51,320,885,580	34,708	46 210,384,936	211,182	46 11,544,301,940	106,934	46 263,818,296	128,990	46 44,747,718,417	49,025	46 231,706,710	217,095
47 8,769,929,295	142,657	47 -16,482,761	173,277	47 39,679,310,371	67,859	47 234,632,610	135,029	47 12,779,670,420	265,834	47 -83,243,878	93,219
48 15,578,339,799	69,743	48 51,630,428	90,194	48 28,296,561,912	715,302	48 263,312,235	79,166	48 27,443,027,810	39,125	48 56,284,185	251,152
49 15,075,887,288	873,951	49 219,299,220	181,269	49 18,382,541,634	92,175	49 -71,191,536	158,792	49 7,064,406,102	104,832	49 223,467,876	150,870
50 38,779,244,425	56,214	50 285,413,868	101,080	50 9,517,605,840	473,586	50 10,977,207	207,932	50 50,885,084,416	31,506	50 245,078,478	96,945

通信競技大会練習問題 解答 第7回～第9回

第 7 回				第 8 回				第 9 回			
乗算	除算	見取算	暗算	乗算	除算	見取算	暗算	乗算	除算	見取算	暗算
1 66,780	15	1 3,226	130	1 79,785	17	1 3,588	125	1 10,500	91	1 3,247	107
2 10,008	607	2 2,892	73	2 5,754	762	2 2,983	104	2 19,652	305	2 719	55
3 7,826	28	3 995	25	3 29,842	81	3 2,365	58	3 36,334	51	3 3,393	104
4 82,908	705	4 1,747	44	4 39,274	490	4 3,538	78	4 37,760	965	4 3,567	40
5 14,457	76	5 3,153	179	5 35,190	53	5 1,630	20	5 1,935	93	5 1,761	94
6 38,180	819	6 3,460	133	6 77,280	205	6 3,323	43	6 60,279	302	6 3,398	118
7 5,117	23	7 3,579	136	7 19,656	78	7 1,351	109	7 33,624	14	7 3,741	128
8 51,022	830	8 3,958	28	8 32,088	387	8 3,253	95	8 13,115	706	8 986	31
9 45,325	25	9 1,016	56	9 35,490	64	9 3,394	28	9 6,572	68	9 2,774	28
10 10,812	164	10 1,122	23	10 9,315	159	10 2,429	74	10 76,755	317	10 2,360	116
11 154,508	439	11 22,805	126	11 614,572	915	11 24,228	138	11 95,356	746	11 20,420	105
12 164,720	812	12 11,255	26	12 45,453	720	12 23,323	23	12 564,408	820	12 20,145	68
13 481,411	567	13 14,449	92	13 167,200	846	13 13,162	116	13 220,594	351	13 28,691	29
14 326,655	906	14 20,993	21	14 625,602	759	14 14,897	134	14 286,065	582	14 9,688	119
15 25,758	820	15 21,795	150	15 211,770	674	15 23,342	59	15 273,840	693	15 15,987	93
16 148,248	135	16 21,524	233	16 117,355	791	16 19,586	329	16 623,700	365	16 19,536	322
17 630,372	502	17 27,190	259	17 324,870	583	17 21,963	5	17 310,680	972	17 23,736	297
18 457,011	980	18 16,006	307	18 82,144	462	18 18,350	299	18 362,934	148	18 15,329	174
19 229,220	849	19 18,185	104	19 421,344	820	19 20,098	230	19 182,554	580	19 19,863	60
20 48,195	418	20 9,688	4	20 289,522	104	20 12,428	49	20 97,342	704	20 12,478	329
21 4,840,808	2,906	21 162,945	238	21 7,464,788	2,816	21 175,662	290	21 971,132	346	21 142,695	226
22 806,925	827	22 51,576	274	22 1,676,010	537	22 175,464	277	22 3,151,800	8,512	22 234,648	102
23 5,303,760	7,469	23 61,502	71	23 3,026,056	5,023	23 63,504	92	23 1,570,019	7,429	23 194,535	258
24 1,668,330	143	24 145,800	239	24 1,573,822	749	24 140,085	298	24 2,463,360	618	24 46,616	77
25 6,415,128	5,681	25 208,854	116	25 333,298	8,401	25 80,482	22	25 3,657,192	197	25 54,574	284
26 4,138,384	501	26 1261,964	1,242	26 5,108,532	258	26 1,405,520	1,579	26 1,672,959	2,076	26 1319,616	1,908
27 2,531,100	3,279	27 75,322	1,335	27 1,729,872	7,194	27 1,146,141	1,526	27 4,656,946	854	27 302,208	1,217
28 968,836	143	28 1,597,729	744	28 1,333,800	352	28 1,317,527	246	28 392,150	7,948	28 1,951,978	417
29 2,172,171	8,625	29 232,864	1,350	29 755,402	2,985	29 164,313	194	29 1,108,992	573	29 402,670	270
30 1,704,766	864	30 871,189	62	30 1,728,720	736	30 504,916	1,414	30 2,994,849	6,235	30 1,350,253	706
31 34,888,392	8,379	31 18,938,232	2,412	31 20,870,752	9,520	31 14,166,360	2,101	31 5,093,676	7,923	31 15,126,462	3,346
32 56,123,223	6,125	32 5,801,593	677	32 30,854,286	4,718	32 10,986,723	964	32 37,485,954	4,351	32 4,050,304	350
33 6,126,970	1,954	33 3,646,941	2,553	33 8,555,118	3,146	33 5,680,461	3,174	33 57,349,020	9,402	33 3,064,564	2,133
34 40,116,984	4,592	34 13,240,530	2,590	34 34,405,100	6,387	34 13,252,914	1,003	34 40,035,555	5,178	34 10,889,811	1,054
35 15,772,372	3,286	35 9,803,394	449	35 67,436,802	1,975	35 6,181,918	3,036	35 16,224,222	3,046	35 14,451,696	3,412
36 76,474,319	8,905	36 25,540,875	19,305	36 67,072,482	83,429	36 18,689,157	17,505	36 355,953,395	21,893	36 23,532,939	18,981
37 289,621,557	29,014	37 27,619,947	18,027	37 625,708,190	6,374	37 4,666,828	9,396	37 191,035,584	4,180	37 20,274,822	5,156
38 131,524,482	5,420	38 -9,096,805	16,767	38 172,181,370	91,245	38 29,054,943	19,350	38 113,035,176	71,524	38 25,535,520	23,121
39 508,900,350	47,563	39 9,118,013	10,954	39 283,696,560	5,736	39 -5,460,457	9,034	39 873,040,610	4,198	39 -7,968,372	5,142
40 491,001,654	3,287	40 20,376,126	3,296	40 395,790,836	27,501	40 17,037,729	21,015	40 49,144,565	16,075	40 4,018,242	19,035
41 460,149,714	57,602	41 107,604,111	24,616	41 6,979,014,893	58,413	41 145,540,509	26,462	41 1,506,887,224	71,638	41 108,413,627	35,457
42 2,299,436,747	13,578	42 147,228,066	38,584	42 1,744,207,038	20,956	42 149,582,172	38,590	42 2,000,922,795	24,795	42 20,695,762	13,831
43 1,516,974,498	31,792	43 15,352,444	4,697	43 4,521,603,375	74,863	43 117,921,957	27,373	43 1,053,132,340	69,251	43 38,658,078	25,942
44 8,140,320,666	46,307	44 27,289,008	25,741	44 3,533,582,492	16,295	44 8,610,448	11,103	44 3,034,924,334	82,406	44 136,296,331	34,507
45 1,718,614,020	65,839	45 136,918,080	19,520	45 742,404,120	82,614	45 23,271,303	2,044	45 331,208,724	13,579	45 145,737,504	38,190
46 34,822,270,938	40,917	46 234,516,942	224,314	46 52,444,902,671	367,098	46 155,282,166	159,145	46 49,460,597,538	96,258	46 188,136,882	245,825
47 43,644,048,048	162,578	47 253,583,352	68,937	47 5,641,632,690	25,960	47 222,241,167	182,756	47 8,178,679,750	952,147	47 -43,918,710	159,592
48 17,256,493,612	45,103	48 247,350,807	111,549	48 37,245,674,806	794,605	48 16,715,259	51,977	48 21,124,547,361	89,431	48 256,428,666	204,587
49 44,850,550,850	679,281	49 -69,575,451	151,727	49 68,840,540,960	51,834	49 223,600,158	134,078	49 52,844,160,384	462,385	49 54,919,796	96,538
50 8,199,190,815	64,302	50 33,932,891	125,965	50 80,965,424,178	219,486	50 -38,641,110	177,528	50 50,430,547,473	13,762	50 263,406,555	132,073

通信競技大会練習問題 解答 第10回～第12回

第 10 回				第 11 回				第 12 回			
乗算	除算	見取算	暗算	乗算	除算	見取算	暗算	乗算	除算	見取算	暗算
1 2,665	47	1 2,997	119	1 21,775	27	1 3,544	133	1 6,591	32	1 3,568	81
2 22,260	431	2 3,404	27	2 12,141	163	2 3,516	43	2 12,672	894	2 998	70
3 27,812	62	3 1,389	125	3 17,184	25	3 3,260	25	3 16,131	23	3 1,007	32
4 68,640	798	4 2,850	47	4 34,944	360	4 2,335	152	4 11,977	105	4 3,463	65
5 12,166	73	5 1,171	124	5 7,020	79	5 588	159	5 79,576	19	5 2,942	71
6 31,044	205	6 2,746	67	6 20,175	906	6 4,014	105	6 45,308	760	6 3,330	75
7 25,027	89	7 1,072	111	7 18,928	68	7 4,112	20	7 41,340	38	7 851	38
8 9,060	650	8 3,347	67	8 71,540	759	8 731	65	8 9,060	405	8 3,549	112
9 19,783	81	9 1,477	100	9 52,056	16	9 3,012	26	9 22,329	21	9 2,556	106
10 37,766	571	10 3,769	51	10 8,148	485	10 1,053	122	10 48,576	390	10 577	49
11 464,873	831	11 23,406	98	11 336,870	571	11 21,441	180	11 56,544	647	11 18,414	125
12 298,080	475	12 15,181	119	12 197,750	260	12 12,116	88	12 260,224	235	12 14,679	54
13 634,302	627	13 28,497	21	13 310,351	498	13 27,546	32	13 578,544	159	13 26,769	117
14 66,585	540	14 20,917	11	14 79,236	649	14 19,380	106	14 193,815	360	14 19,022	100
15 271,652	209	15 18,470	116	15 385,268	856	15 15,766	19	15 746,360	803	15 13,303	67
16 218,556	397	16 24,696	342	16 98,112	342	16 22,198	273	16 205,356	792	16 22,278	243
17 501,840	214	17 19,435	255	17 386,435	865	17 12,265	257	17 540,155	305	17 14,211	49
18 143,355	865	18 14,848	67	18 544,558	179	18 15,581	118	18 190,944	140	18 27,830	138
19 96,096	640	19 20,551	161	19 376,299	604	19 22,186	106	19 95,939	274	19 29,264	221
20 735,318	503	20 16,581	290	20 153,510	930	20 21,113	249	20 197,050	639	20 16,794	245
21 2,419,268	1,638	21 221,238	289	21 1,334,880	357	21 142,299	211	21 8,764,698	2,463	21 185,076	258
22 881,145	724	22 164,025	104	22 4,654,517	9,018	22 69,983	131	22 4,273,540	985	22 20,505	223
23 4,136,456	2,571	23 214,191	52	23 1,275,738	2,943	23 162,981	296	23 2,392,996	7,058	23 245,457	93
24 1,370,540	895	24 101,075	213	24 2,977,992	809	24 174,474	229	24 6,808,430	271	24 21,5541	217
25 2,071,993	3,189	25 53,438	249	25 739,750	126	25 59,495	128	25 913,770	9,304	25 100,255	25
26 1,881,360	237	26 1,725,552	954	26 1,437,820	7,216	26 1,230,740	1,209	26 1,429,224	178	26 1,507,899	1,255
27 545,916	9,456	27 962,710	509	27 4,740,366	590	27 624,453	1,108	27 3,898,125	2,456	27 768,630	95
28 1,067,187	328	28 672,182	190	28 5,389,850	4,867	28 1,700,792	260	28 7,653,142	825	28 1,289,003	851
29 1,830,999	510	29 1,167,982	1,385	29 541,098	743	29 328,003	1,314	29 634,922	3,094	29 598,386	200
30 4,358,538	5,841	30 742,906	902	30 5,203,530	1,489	30 1,823,965	458	30 2,457,840	739	30 1,903,199	974
31 5,012,910	3,650	31 8,630,415	3,297	31 50,652,357	6,798	31 9,188,010	2,776	31 1,156,700	6,817	31 9,662,175	2,715
32 37,729,740	2,971	32 403,647	3,325	32 51,883,286	5,819	32 43,29,081	3,238	32 14,807,979	5,179	32 15,912,405	1,134
33 29,738,016	7,486	33 15,142,122	1,727	33 24,913,590	7,640	33 14,868,207	245	33 66,813,120	1,956	33 7,028,650	2,137
34 72,150,080	9,827	34 16,879,320	817	34 18,877,287	4,123	34 6,675,345	263	34 19,166,006	9,234	34 4,616,649	2,566
35 31,608,138	5,342	35 5,041,974	205	35 6,590,192	2,430	35 4,799,877	2,380	35 19,682,828	8,423	35 9,403,605	430
36 78,615,540	60,894	36 19,795,275	26,307	36 498,268,103	63,295	36 22,456,323	19,602	36 109,088,852	9,341	36 21,498,174	13,248
37 183,242,509	2,768	37 1,042,607	20,700	37 195,811,409	8,307	37 24,936,048	14,283	37 73,691,8791	63,018	37 22,035,537	21,366
38 345,917,472	83,645	38 18,748,602	9,099	38 696,141,620	14,728	38 1,163,071	15,831	38 32,137,460	7,869	38 23,449,014	12,145
39 177,437,366	61,50	39 27,119,556	15,075	39 51,835,982	3,194	39 19,690,146	9,536	39 20,295,735	85,472	39 6,713,929	17,991
40 114,939,932	79,031	40 -8,924,547	14,274	40 321,673,230	26,041	40 -12,899,589	7,076	40 125,432,391	1,963	40 -1,605,572	8,042
41 5,927,936,082	86,103	41 72,121,292	28,821	41 3,401,428,290	60,314	41 133,006,646	27,713	41 1,496,172,448	69,072	41 73,125,943	35,214
42 2,506,398,534	72,019	42 125,746,370	14,448	42 1,838,989,295	48,173	42 23,900,372	14,029	42 5,401,372,515	37,859	42 107,465,288	30,927
43 478,453,500	60,724	43 172,783,483	29,931	43 5,582,020,626	87,532	43 87,183,410	4,521	43 95,675,2500	68,971	43 152,175,194	17,245
44 7,499,426,388	49,385	44 9,009,675	28,950	44 1,861,581,345	49,205	44 125,632,131	26,752	44 1,741,216,386	10,423	44 14,185,683	9,085
45 1,651,958,388	51,862	45 18,528,541	22,408	45 920,355,126	92,716	45 26,647,989	27,214	45 2,587,775,579	45,106	45 24,908,424	38,112
46 4,884,602,112	62,394	46 204,367,032	175,911	46 15,336,962,229	40,983	46 224,282,997	21,6751	46 39,794,521,194	861,039	46 250,697,502	130,116
47 33,614,395,623	109,452	47 227,236,572	187,043	47 40,643,877,300	875,621	47 -4,883,487	93,916	47 32,328,943,640	96,570	47 41,677,021	46,008
48 31,069,598,075	40,523	48 -14,162,179	135,636	48 5,502,530,194	31,274	48 231,325,938	209,937	48 40,466,265,090	928,461	48 225,294,093	119,650
49 40,179,856,524	934,618	49 208,767,969	209,193	49 69,666,648,756	754,896	49 20,361,972	80,997	49 36,241,051,256	67,358	49 -60,073,335	183,451
50 28,270,142,080	18,762	50 96,401,517	103,897	50 37,086,668,055	93,204	50 250,489,863	248,010	50 3,801,068,334	452,716	50 186,590,790	145,101

通信競技大会練習問題 解答 第13回～第15回

第 13 回				第 14 回				第 15 回			
乗算	除算	見取算	暗算	乗算	除算	見取算	暗算	乗算	除算	見取算	暗算
1 20,544	72	1 3,383	160	1 39,916	47	1 3,142	50	1 25,788	430	1 3,390	151
2 3,220	198	2 895	43	2 20,160	170	2 2,312	15	2 7,440	79	2 2,554	94
3 27,495	61	3 3,388	29	3 19,143	82	3 2,878	94	3 24,050	785	3 969	43
4 47,190	352	4 1,707	138	4 20,880	610	4 1,275	34	4 46,560	34	4 1,632	101
5 32,481	67	5 3,292	112	5 5,993	87	5 3,446	85	5 58,719	691	5 3,307	29
6 77,330	905	6 2,974	78	6 62,376	495	6 3,569	92	6 12,802	49	6 3,462	123
7 51,121	43	7 3,486	47	7 23,851	54	7 3,700	53	7 42,908	506	7 2,903	16
8 20,292	271	8 2,150	93	8 3,525	614	8 1,395	173	8 51,852	13	8 2,044	112
9 3,468	89	9 3,374	36	9 39,284	42	9 3,327	167	9 14,168	150	9 3,561	100
10 26,784	769	10 1,043	148	10 10,824	293	10 963	4	10 9,024	47	10 1,875	18
11 710,325	174	11 23,406	116	11 286,688	913	11 21,677	61	11 288,684	791	11 21,827	117
12 275,310	623	12 17,145	10	12 587,761	205	12 13,094	87	12 123,510	405	12 33,112	152
13 242,284	598	13 17,738	165	13 55,083	740	13 22,643	131	13 311,808	237	13 14,180	114
14 154,707	280	14 26,988	61	14 110,088	864	14 20,670	51	14 97,734	540	14 14,583	17
15 85,696	401	15 12,425	108	15 152,750	372	15 26,762	146	15 735,130	816	15 30,205	80
16 203,604	378	16 22,375	297	16 392,652	183	16 28,376	234	16 107,456	469	16 28,072	225
17 103,635	691	17 18,261	293	17 407,550	452	17 17,567	139	17 414,018	538	17 14,331	143
18 96,078	524	18 14,060	4	18 38,688	796	18 28,778	212	18 540,580	127	18 33,852	255
19 641,174	860	19 25,869	158	19 192,465	420	19 13,245	252	19 167,751	803	19 10,619	232
20 176,000	705	20 21,385	268	20 121,223	904	20 19,988	50	20 49,840	250	20 22,738	133
21 3,547,888	739	21 126,477	256	21 5,235,080	2,695	21 138,447	306	21 5,343,975	521	21 112,860	242
22 1,535,841	4,682	22 208,188	102	22 2,893,871	718	22 251,577	147	22 923,643	4,093	22 60,877	295
23 3,645,396	5,976	23 53,976	63	23 980,474	7,852	23 158,518	244	23 3,489,024	8,275	23 235,152	252
24 2,635,360	459	24 224,289	191	24 5,130,576	243	24 170,559	211	24 8,743,580	902	24 118,251	13
25 469,000	815	25 76,350	293	25 2,015,486	6,389	25 45,430	57	25 4,239,619	184	25 186,732	120
26 294,588	6,857	26 1,339,889	1,725	26 2,694,210	193	26 726,061	1,246	26 2,550,618	2,087	26 952,966	1,195
27 2,870,988	409	27 1,250,718	1,125	27 3,900,248	5,706	27 836,645	504	27 5,600,322	904	27 497,524	102
28 3,212,040	7,395	28 1,087,933	699	28 1,206,458	985	28 385,595	645	28 487,968	6,293	28 1,407,127	1,112
29 3,275,195	531	29 436,874	340	29 1,673,595	3,067	29 1,276,143	1,160	29 2,326,830	715	29 154,996	1,106
30 1,946,672	4,126	30 746,789	744	30 364,060	284	30 387,037	527	30 4,830,150	8,641	30 1,223,179	332
31 38,616,270	6,143	31 11,107,089	2,684	31 13,447,364	7,653	31 10,744,380	2,558	31 24,148,944	2,783	31 11,367,801	2,702
32 56,259,712	2,831	32 183,741	2,806	32 33,771,266	9,021	32 12,098,214	2,448	32 1,856,184	1,495	32 16,167,159	2,205
33 8,336,440	5,204	33 15,739,686	736	33 73,746,675	4,395	33 6,160,381	852	33 13,033,260	6,947	33 5,773,236	1,413
34 1,649,3256	7,589	34 8,783,847	117	34 5,249,472	2,018	34 4,640,836	2,335	34 24,558,716	4,859	34 5,537,840	1,993
35 46,917,468	1,607	35 5,813,417	2,224	35 4,198,050	3,769	35 11,250,729	269	35 78,988,210	5,326	35 11,938,941	476
36 90,445,932	42,570	36 24,282,198	15,003	36 78,635,304	5,196	36 18,562,689	16,380	36 593,114,566	97,832	36 28,183,743	12,402
37 840,661,164	8,619	37 23,260,851	7,237	37 181,492,272	46,013	37 23,110,371	3,249	37 104,182,642	4,057	37 29,315,592	19,350
38 702,821,175	89,146	38 3,475,460	6,300	38 171,047,205	7,642	38 4,318,945	5,295	38 373,841,760	93,580	38 25,404,822	19,125
39 487,053,540	5,807	39 -9,175,169	15,354	39 849,152,010	30,728	39 21,797,712	14,166	39 69,172,934	6,341	39 9,945,405	11,488
40 236,048,327	76,391	40 31,978,161	12,411	40 703,775,113	8,179	40 -5,800,401	13,671	40 209,637,582	45,206	40 -5,271,797	4,139
41 672,018,270	62,714	41 193,222,493	36,489	41 2,625,438,408	26,934	41 103,334,482	33,473	41 1,774,467,970	80,152	41 104,981,251	37,858
42 2,071,577,364	91,235	42 32,868,064	13,803	42 1,806,599,392	67,509	42 133,617,718	40,190	42 2,146,207,228	21,846	42 60,818,191	31,003
43 1,675,353,237	24,391	43 166,455,944	38,374	43 1,440,784,077	50,431	43 9,718,144	13,523	43 3,059,649,801	42,951	43 153,461,722	36,154
44 8,455,188,792	38,654	44 15,162,694	13,099	44 6,817,688,150	21,084	44 105,125,956	31,288	44 6,195,646,872	75,683	44 28,841,7632	18,821
45 1,056,804,928	86,507	45 119,407,436	28,703	45 335,326,940	90,513	45 31,716,188	12,181	45 696,153,520	98,437	45 163,909,032	11,560
46 20,361,518,270	58,461	46 262,052,586	189,078	46 50,118,984,774	984,132	46 281,148,570	223,784	46 75,305,193,538	13,942	46 272,312,901	184,159
47 34,355,980,188	892,354	47 232,366,689	73,135	47 16,647,877,595	60,324	47 254,672,793	159,819	47 37,759,947,096	726,439	47 -6,911,188	164,927
48 2,660,642,985	36,970	48 -110,264,111	149,650	48 21,497,204,693	574,190	48 50,500,362	45,046	48 26,027,592,405	45,321	48 52,064,150	87,946
49 41,710,032,078	369,518	49 29,436,270	168,027	49 7,122,436,700	82,953	49 220,133,745	108,365	49 8,238,892,667	871,650	49 272,500,236	72,559
50 18,693,550,990	40,723	50 217,263,204	78,397	50 37,504,126,088	647,209	50 -30,113,194	150,123	50 28,576,035,250	89,163	50 282,054,879	152,204

通信競技大会練習問題 解答 第16回～第18回

第 16 回				第 17 回				第 18 回			
乗算	除算	見取算	暗算	乗算	除算	見取算	暗算	乗算	除算	見取算	暗算
1 23,316	42	1 3,621	93	1 27,216	93	1 4,154	136	1 47,579	51	1 3,198	106
2 47,047	850	2 4,026	120	2 8,512	405	2 2,756	14	2 35,510	790	2 1,089	68
3 52,399	68	3 1,383	56	3 16,432	34	3 3,275	67	3 6,510	31	3 3,666	52
4 49,920	739	4 3,113	24	4 37,524	605	4 1,276	117	4 45,844	105	4 2,772	157
5 5,145	32	5 1,340	153	5 34,194	24	5 2,100	48	5 11,476	14	5 1,877	46
6 40,774	410	6 2,958	122	6 12,354	812	6 4,363	183	6 19,152	492	6 3,734	167
7 22,400	84	7 3,408	44	7 13,630	13	7 948	84	7 50,634	69	7 1,029	58
8 11,092	605	8 353	183	8 4,608	347	8 2,931	110	8 9,916	637	8 1,416	145
9 9,792	13	9 3,615	158	9 23,287	72	9 3,407	65	9 30,672	94	9 3,725	7
10 34,484	728	10 596	23	10 30,240	531	10 496	17	10 26,663	308	10 3,480	20
11 118,528	452	11 21,819	97	11 537,832	368	11 26,882	114	11 39,182	245	11 24,727	70
12 159,296	317	12 26,323	128	12 79,356	540	12 14,539	50	12 193,620	379	12 13,565	47
13 790,587	689	13 11,919	31	13 522,245	971	13 23,313	18	13 496,824	813	13 22,525	47
14 515,822	805	14 28,654	192	14 250,217	784	14 18,681	26	14 520,323	508	14 14,701	159
15 87,040	920	15 21,446	21	15 111,680	256	15 25,556	155	15 174,078	620	15 24,308	111
16 50,184	798	16 25,199	247	16 184,898	694	16 24,447	211	16 138,570	385	16 23,100	217
17 402,555	354	17 11,176	213	17 265,166	235	17 19,437	59	17 453,620	692	17 19,037	66
18 232,183	261	18 14,264	108	18 68,272	913	18 24,512	232	18 180,642	714	18 27,728	272
19 403,176	102	19 24,050	50	19 364,980	840	19 12,090	44	19 24,381	940	19 12,865	318
20 215,940	820	20 23,379	281	20 126,420	207	20 112,11	259	20 299,088	208	20 24,613	16
21 437,844	7,943	21 123,147	218	21 1,971,528	8,903	21 212,283	243	21 829,920	714	21 232,848	291
22 4,489,534	158	22 126,298	231	22 1,833,528	165	22 93,551	251	22 4,167,680	7,608	22 21,5433	227
23 3,878,394	9,876	23 216,180	243	23 6,461,875	4,687	23 170,532	59	23 1,653,012	5,082	23 223,110	96
24 8,344,180	562	24 118,788	100	24 858,690	842	24 73,953	13	24 4,551,606	853	24 72,833	213
25 2,455,434	3,401	25 131,877	106	25 3,166,692	1,429	25 114,957	319	25 933,386	495	25 46,334	58
26 1,334,928	493	26 1278,745	1,011	26 1,363,098	213	26 698,188	1,862	26 3,422,976	5,209	26 893,122	1,323
27 8,141,452	1,627	27 415,829	1,282	27 619,428	5,679	27 1,071,116	1,100	27 2,488,290	674	27 29,546	1,544
28 2,822,845	514	28 933,785	4	28 6,466,260	517	28 989,579	648	28 785,781	3,068	28 1,686,765	380
29 949,494	7,802	29 190,231	1,672	29 4,994,964	6,928	29 547,610	1,038	29 3,712,256	731	29 350,562	256
30 5,214,240	258	30 978,414	488	30 4,292,322	184	30 219,604	582	30 7,550,664	4,526	30 1,313,555	545
31 47,297,875	4,175	31 151,26,678	2,293	31 6,798,702	3,204	31 13,040,685	2,480	31 21,819,676	3,591	31 17,697,699	2,850
32 77,039,556	8,652	32 16,533,693	1,268	32 9,496,010	9,832	32 9,128,079	1,145	32 2,380,554	9,164	32 26,787	1,066
33 12,524,610	1,783	33 3,012,368	2,802	33 38,844,018	2,476	33 16,203,456	2,746	33 51,119,820	2,678	33 710,344	3,285
34 39,585,744	3,927	34 9,137,475	2,023	34 64,566,060	6,745	34 3,480,167	1,634	34 32,141,494	6,847	34 13,419,342	2,001
35 2,733,402	1,406	35 6,433,662	1,090	35 20,020,050	8,691	35 4,425,083	2,278	35 58,613,775	5,432	35 6,753,366	3,541
36 405,296,760	2,170	36 15,853,077	25,533	36 825,353,760	73,052	36 24,903,801	18,144	36 524,797,819	37,089	36 22,503,915	15,111
37 326,653,192	13,658	37 2,639,074	13,812	37 218,358,422	4,205	37 24,152,850	19,278	37 319,396,660	4,892	37 27,598,212	5,787
38 317,021,754	7,306	38 32,849,307	12,864	38 39,108,217	62,391	38 27,060,507	11,207	38 54,658,968	97,621	38 22,205,700	15,426
39 86,523,224	59,047	39 -2,191,451	19,053	39 504,291,606	3,814	39 -6,887,395	6,498	39 601,234,732	3,856	39 9,770,796	16,578
40 572,635,547	7,419	40 21,813,660	22,887	40 152,465,040	46,197	40 4,721,544	9,495	40 609,151,242	42,561	40 -7,536,884	5,255
41 1,624,725,976	91,523	41 87,036,751	36,133	41 6,906,265,900	70,231	41 121,436,201	27,455	41 5,961,502,664	54,679	41 164,007,110	32,504
42 1,473,653,825	50,617	42 132,703,018	35,483	42 1,672,457,404	19,853	42 15,631,951	23,222	42 969,661,818	68,952	42 23,317,193	14,652
43 4,166,318,796	73,458	43 1,762,374	29,557	43 595,954,044	67,218	43 14,947,400	13,198	43 4,288,018,040	71,823	43 80,351,309	33,868
44 3,259,079,832	64,832	44 142,731,046	15,545	44 5,612,950,088	35,496	44 155,863,861	33,673	44 3,506,955,410	86,351	44 18,503,036	9,640
45 732,150,240	12,749	45 56,056,363	18,090	45 1,147,676,985	98,543	45 132,243,909	27,946	45 1,072,927,325	25,047	45 82,902,122	28,038
46 23,775,333,652	379,286	46 215,991,405	183,463	46 23,625,503,766	126,458	46 196,823,646	206,766	46 44,976,418,536	82,491	46 170,164,638	127,306
47 4,437,359,576	36,825	47 267,229,197	126,547	47 9,227,088,731	62,913	47 224,952,516	70,191	47 74,589,325,476	567,840	47 6,905,236	178,255
48 83,036,784,683	517,493	48 87,430,040	148,508	48 69,057,139,004	918,320	48 -13,910,506	152,263	48 50,765,353,008	14,907	48 209,008,836	50,848
49 28,221,274,550	23,650	49 159,661,368	47,508	49 17,262,637,778	57,839	49 35,663,296	175,630	49 28,881,654,804	926,584	49 240,694,398	262,881
50 19,710,036,074	194,582	50 -16,068,446	128,345	50 28,887,190,620	324,790	50 246,217,257	61,862	50 8,639,792,630	30,152	50 -91,685,457	136,653