

New Zealand Programming Contest 2023

CONTEST STATISTICS

TEAMS

There were 76 teams who made at least 1 submission.

School	Tertiary Junior	Tertiary Int	Tertiary Open	Open
49	1	7	10	9

As usual there were more school teams than any other category, but this year they outnumbered all the other categories combined.

PROBLEMS

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
School	Solved	41	42	17	14	23	25	13	5	5	1	2	3	0	0	0	0
	Errors	18	43	48	101	61	74	4	30	70	10	19	6	3	52	2	7
	Attempts	59	85	65	115	84	99	17	35	75	11	21	9	3	52	2	7
Tertiary Junior	Solved	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Errors	0	1	1	4	2	1	0	15	2	0	0	0	0	0	0	0
	Attempts	1	2	2	5	3	2	1	16	2	0	0	0	0	0	0	0
Tertiary Int	Solved	7	7	4	2	2	5	2	3	3	1	1	1	0	0	0	0
	Errors	5	4	6	12	3	17	2	3	11	0	1	1	1	1	0	0
	Attempts	12	11	10	14	5	22	4	6	14	1	2	2	1	1	0	0
Tertiary Open	Solved	10	9	5	4	9	9	8	8	4	3	3	3	1	3	0	0
	Errors	0	4	9	15	6	16	4	19	18	9	9	2	2	17	3	0
	Attempts	10	13	14	19	15	25	12	27	22	12	12	5	3	20	3	0
Open	Solved	8	7	3	4	6	5	2	4	3	2	1	1	0	0	0	0
	Errors	5	3	0	9	7	4	0	9	14	0	4	4	5	15	0	2
	Attempts	13	10	3	13	13	9	2	13	17	2	5	5	5	15	0	2
TOTAL	Solved	67	66	30	25	41	45	26	21	15	7	7	8	1	3	0	0
	Errors	28	55	64	141	79	112	10	76	115	19	33	13	11	85	5	9
	Attempts	95	121	94	166	120	157	36	97	130	26	40	21	12	88	5	9
% Solved		71%	55%	32%	15%	34%	29%	72%	22%	12%	27%	18%	38%	8%	3%	0%	0%

As expected, problems A and B were the easiest to solve, the only 2 problems to have more correct submissions than incorrect. D seemed to be harder than expected with more wrong answers than any other problem.

None of the 30 point problems had more correct answers than any of the 3 or 10 pointers, and only 4 correctly solved a 100 point problem. N attracted 88 attempts, but only 3 were correct.

LANGUAGES

The 1314 submissions used 5 different languages, with Python 3 being the most popular by a long way.

Python 3	C++	Java	C#	C
1066	140	67	40	1

RESULTS

The most frequent result was WRONG_ANSWER as usual, with CORRECT quite a way behind.

CORRECT	WRONG ANSWER	TIME LIMIT	RUN ERROR	NO OUTPUT	COMPILER ERROR
402	667	51	158	15	21

CLARIFICATIONS

The error in the spec for Problem K was sent to all teams as a clarification at the start. An error in the checker for Problem I was fixed in the second hour – DOMjudge was being upset by trailing spaces.

There were 27 clarification requests which were not shared with all teams. Most just wanted to confirm what was said in the problem descriptions, but there were quite a few which basically said “my code gives the right answer so why is it marked wrong”. Some were quite emphatic that their code was correct, claiming to have tested “all possible cases”! This was despite a section of the Welcome Video demonstrating why this can happen.