

South Pacific Programming Contest Regional Report 2021

On 11 December 2021, 15 teams of programmers from 2 countries, and 11 Universities competed in the South Pacific Programming Contest Regional Final.

These teams had qualified in the Divisionals contest held in October. The contest was held in a mixed format with many teams participating at Universities in a socially distanced setting, but other teams were competing online communicating over Zoom. All teams were using remote desktops, to ensure a fair contest. A problem set of 12 questions (A-L) had been carefully curated by the Judge Team.

The contest started quickly with the team Agents Smith from the University of Western Australia solving 4 problems (C,G,I,J) in the first 20 minutes, establishing a 3 problem lead over the rest of the competition. Then the traditional powerhouse of the University of New South Wales started to move with Celestial Interface being the first to solve A, B and D, Runtime Terror solving F and H first, and Optimal Brain Damage being the first to solve E. With an hour to go Celestial Interface had solved 9 problems Runtime Terror has solved 8 problems, with fightUsUNSW (University of Melbourne) an Optimal Brain Damage on 7, with Agents Smith, The Treble (University of Melbourne) Straight Outta Adelaide (University of Adelaide) and Thonking (University of Auckland) 1 problem further back. With two world finals places on the line, and only one team from each university eligible to progress, there was now two races: one to be the best UNSW team, and one to be the best of the rest.

The last hour saw frantic efforts from all teams: Celestial Interface managed to solve to H, Runtime Terror got the first solve of K, and fightUsUNSW tried in vain to get a solution to K. Straight Outta Adelaide solved A, and Agents Smith solved D in the last 15 minutes. Recapturing their earlier form, Agents Smith came with in one test case of solving L, the only unsolved problem, with 10 minutes to go. However, the bug eluded them and they finished with seven problems solved, tied with Straight Outta Adelaide, Optimal Brain Damage and fightUsUNSW. With the smallest time penalty fightUsUNSW came third and was second placed University, Runtime Terror came second with 9 solves, but beaten to the World Final by Celestial Interface with ten problems solved, and the victory in the South Pacific Programming Contest.

Celestial Interface's victory is even more impressive for the fact that the team has never met face to face and were competing from China, India and Sydney. Congratulations to the judge team (Max Ward, Darcy Best, Timothy Buzzeli and Eliot Courtney) who produced an excellent problem set with all teams solving at least three problems, no one completing set, and one problem L going unsolved by the barest of margins.































Congratulations to all competitors on their sportsman like conduct, good spirit, and very impressive problem solving skills. We also acknowledge the extraordinary effort of the judges and site coordinators in putting this contest together under difficult circumstances. We look forward to doing it all again next year; hopefully as a live face to face contest.

Tim French.

Regional Contest Director

South Pacific Programming Contest.

ICPC South Pacific Regional Final

RANK	TEAM	SCORE	A O	B O	C O	D O	E O	F O	G O	H O	I O	J O	K O	L O
1	  Celestial Interface The University of New South Wales	10 866	16 2 tries	76 2 tries	22 2 tries	147 1 try	114 1 try	90 1 try	31 1 try	247 1 try	37 1 try	26 1 try		
2	  Runtime Terror The University of New South Wales	9 879	89 3 tries		19 2 tries		68 2 tries	77 1 try	15 1 try	122 1 try	40 2 tries	22 1 try	267 4 tries	
3	  fightUsUNSW University of Melbourne	7 541	201 2 tries		28 1 try		86 1 try	77 1 try	16 1 try		43 1 try	30 3 tries	5 tries	
4	  Optimal Brain Damage The University of New South Wales	7 795	19 tries		20 1 try		62 1 try	177 3 tries	70 1 try	166 1 try	106 2 tries	114 2 tries		
5	  Agents Smith The University of Western Australia	7 801	3 tries		4 1 try	285 6 tries	100 2 tries	234 1 try	11 1 try		18 1 try	9 1 try		8 tries
6	  Straight Outta Adelaide The University of Adelaide	7 864	247 3 tries		16 1 try		88 1 try	160 1 try	26 1 try		142 3 tries	45 2 tries		
7	  TheTreble University of Melbourne	6 414	145 2 tries		21 1 try		4 tries	97 1 try	31 1 try		61 1 try	39 1 try		
8	  Thonking The University of Auckland	6 518	2 tries		33 1 try		187 1 try	131 1 try	41 1 try		96 1 try	30 1 try		
9	  we_are_here_too Macquarie University	5 504	95 2 tries		38 2 tries		2 tries	262 1 try	14 1 try	4 tries		55 1 try		
10	  One The University of Sydney	5 636			47 2 tries		4 tries	137 1 try	38 1 try	7 tries	280 2 tries	74 1 try		
11	  Chtholly Tree The Australian National University	4 395	3 tries		24 1 try		3 tries	225 4 tries	16 1 try		9 tries	50 2 tries		
12	  ThreeBreadClipCheese? The University of Sydney	4 518		2 tries	31 1 try		5 tries	289 1 try	42 1 try		2 tries	56 2 tries		
13	  CPG The University of Queensland	4 854			150 4 tries			253 2 tries	157 2 tries	9 tries		134 4 tries		
14	  Corg The University of Waikato	3 474	3 tries	1 try	108 6 tries			2 tries	96 1 try	1 try	6 tries	150 2 tries		
15	  Late Monash University	3 1065			296 7 tries		2 tries		1 try		199 7 tries	270 4 tries		
SUMMARY		87	0 42 0 16min	1 4 0 70min	15 18 0 4min	2 5 0 147min	8 21 0 62min	12 11 0 77min	14 2 0 11min	3 21 0 122min	10 13 0 18min	15 8 0 9min	1 8 0 267min	0 8 0 n/a

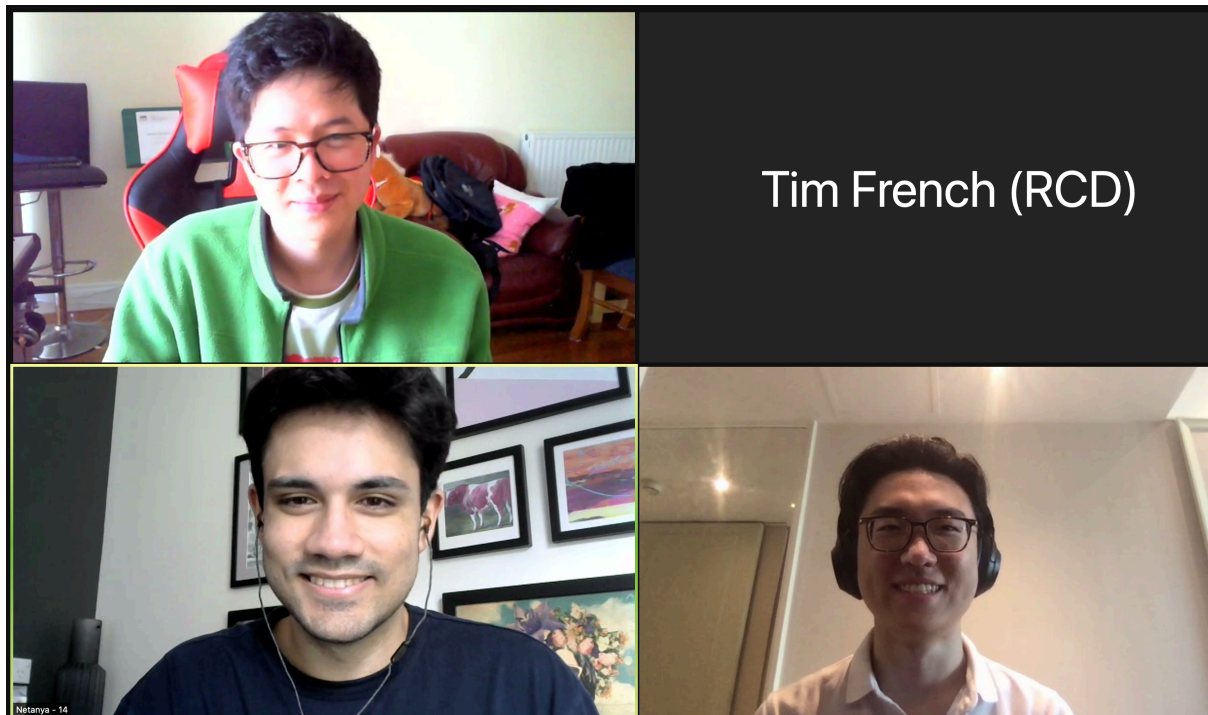
The final scoreboard.



Celestial Interface (UNSW), the contest winners.



Runtime Terror (UNSW, second place)



fightUsUNSW (University of Melbourne, third place)