



The CENTRE for EDUCATION
in MATHEMATICS and COMPUTING

*2011
Canadian
Computing
Competition
Results*



After an exhausting year of chairing the organizing of IOI 2010 (which was held at the University of Waterloo in August 2010), the 2011 CCC was designed to be a bit more accessible to students.

In terms of averages, certainly that seems to bear out: the junior average is 39.88 in 2011 compared to 28.14 in 2010, and the senior average is 32.93 in 2011 compared to 18.53 in 2010. And, there were more students going “deeper” into the problems (i.e., attempting J4 or J5 or S4 or S5).

Our goal is to set the contest at about this level in future years.

We continued the collaboration with Tsinghua University in Beijing and the University of Hong Kong to offer the contest to Beijing and Hong Kong high school students. These competitors are not listed here (since we are listing only the Canadian Competitors). More information (including results) can be found at: <http://ccc.cs.tsinghua.edu.cn/> and <http://www.cs.hku.hk/ccc2011/>. This year, the organizers from Tsinghua and HKU collaborated with UW to create a contest different than the Canadian CCC.

Below, a qualitative summary of both the Junior and Senior contest is presented.

I hope you found the contest this year interesting and educational, fun and intriguing. Thanks for being a part of it.

Troy Vasiga
Director of the Canadian Computing Competition
March 29, 2011

Junior Competitors

Students are listed in alphabetical order within each group.

Dans chaque group, les élèves sont nommés en ordre alphabétiques.

Name/Nom	School/École	Location/Endroit
Group 1: Scores from 66 to 75		
Chien	Alex	Thornlea S.S.
Chu	Eric	Moscrop S.S.
Duan	Tony	Pierre Elliott Trudeau H.S.
Go	Bernice	St. Clement's School
Gu	Bailey	Lisgar C.I.
Henderson	William	Lawrence Park C.I.
Jiang	Leon	Eric Hamber S.S.
Lin	Hubert	Sir John A. Macdonald S.S.
Li	Tony	The Woodlands School
Liu	Eric	St. George's School
Liu	Hsin Yen	William Lyon Mackenzie C.I.
Ma	Terence	Sir John A. Macdonald S.S.
Ngo	Tony	William Lyon Mackenzie C.I.
Oleary	Ryan	Nepean H.S.
Oliver	Michael	O'Neill C.V.I.
Qadri	Sameer	William Lyon Mackenzie C.I.
Ren	Shaun	The Woodlands School
Saravanamuttu	James	Dunbarton H.S.
Suarez	Nicolas	Cawthra Park S.S.
Terpstra	Adam	St. Thomas Aquinas S.S.
Verdugo Parede	Emilio	Resurrection C.S.S.
Wang	Cary	Eric Hamber S.S.
Wu	Shuhao	Lo-Ellen Park S.S.
Zhao	Jonathan	North Toronto C.I.
Zheng	Chengbin	North Toronto C.I.
Zinn	Charles	Waterloo C.I.
Zou	Tony	Bell H.S.
Group 2: Scores from 62 to 65		
Bahry	Matthew	Lawrence Park C.I.
Bannatyne	Eric	Sir Winston Churchill S.S.
Boccongelle	Patrick	Richview C.I.
Fear	Jake	Michael Power-St Joseph
Given	No Name	Ursula Franklin Academy
Gotesman	Ryan	William Lyon Mackenzie C.I.
Hameer	Aliyar	Academy for Gifted Children-PACE
Horigan	Caroline	Richview C.I.
Jiang	Andrew	The Woodlands School
Karthigesu	Kamilla	L'Amoreaux C.I.
Koo	Donald	The Country Day School
Li	Ryan	A.Y. Jackson S.S.
Liu	Ziwei	Old Scona Academic H.S.

Canadian Student Honour Roll
Palmarès des élèves à l'échelle nationale

Name/Nom		School/École	Location/Endroit
Mclean	Kevin	Humberview S.S.	Bolton, ON
Melamed	Hartley	Yitzhak Rabin H.S.	Ottawa, ON
Mohammad	Jami Boy	William Lyon Mackenzie C.I.	North York, ON
Petrick	Taylor	Ridley College	St Catharines, ON
Prokoudine	Mark	The Country Day School	King City, ON
Silva Carlos	Jeffrey	Richview C.I.	Etobicoke, ON
Suo	Simon	Victoria Park C.I.	North York, ON
Thai	Kevin	Cawthra Park S.S.	Mississauga, ON
Thomson	Chris	East York C.I.	East York, ON
Veira	Neil	Richview C.I.	Etobicoke, ON
White	Patrick	Crescent School	North York, ON
Wilde	Jamie	O'Neill C.V.I.	Oshawa, ON
Woo	Joyce	Woburn C.I.	Scarborough, ON
Xu	Olga	Nepean H.S.	Ottawa, ON
Xu	Zhaoyue	Vincent Massey S.S.	Windsor, ON
Yang	Jack	A.Y. Jackson S.S.	North York, ON
Yeh	Owen	Earl Haig S.S.	North York, ON
Ye	Kai	A.Y. Jackson S.S.	North York, ON
Yu	Flora	Pierre Elliott Trudeau H.S.	Markham, ON
Zhang	Eileen	Vincent Massey S.S.	Windsor, ON
Group 3: Scores from 60 to 61			
Alway	Kaleb	St. Patrick's C.H.S.	Sarnia, ON
Ardanaz	Quincy	Bell H.S.	Nepean, ON
Bester	Wesley	Bluevale C.I.	Waterloo, ON
Burke	Louis	Trinity College School	Port Hope, ON
Butoi	Radu	Pickering H.S.	Ajax, ON
Cao	Fred	Victoria Park C.I.	North York, ON
Catheri Ne	Tam	Brother Andre C.H.S.	Markham, ON
Chang	Chen	Vincent Massey S.S.	Windsor, ON
Chan	Nathan	St. George's School	Vancouver, BC
Cheng	Calvin	St. George's School	Vancouver, BC
Chen	Michael	Vincent Massey S.S.	Windsor, ON
Choi	Brian	Archbishop Carney S.S.	Port Coquitlam, BC
Chung	Sukhwan	Richview C.I.	Etobicoke, ON
Clokic	Trevor	University of Toronto Schools	Toronto, ON
Crocker	Jamie	St. Thomas Aquinas S.S.	London, ON
Cui	Luang	Earl Haig S.S.	North York, ON
Dai	Kevin	Lisgar C.I.	Ottawa, ON
Dmitri	Gvozdev	Lisgar C.I.	Ottawa, ON
Freedman	Ryan	Crestwood Prep. College	North York, ON
Gao	Eddy	Lisgar C.I.	Ottawa, ON
Geertsema	Kenneth J	Bradford D.H.S.	Bradford, ON
Glozman	Ron	William Lyon Mackenzie C.I.	North York, ON
Homsi	Tristan	North Toronto C.I.	Toronto, ON
Huang	Qinran	Martingrove C.I.	Etobicoke, ON
Iwabuchi	Yuya	Delia School of Canada S.S.	Taikoo Shing,
Kovalcik	Michael	Richview C.I.	Etobicoke, ON
Lai	Victor	West Hill C.I.	Scarborough, ON

Canadian Student Honour Roll**Palmarès des élèves à l'échelle nationale**

Name/Nom		School/École	Location/Endroit
Lin	Charles	St. David C.S.S.	Waterloo, ON
Lin	Kevin	St. George's School	Vancouver, BC
Liu	Zelin	Victoria Park C.I.	North York, ON
Li	Yang	Concord College of Sino-Canada	Nashan District Shenzhen,
Magee	Nolan	Archbishop Carney S.S.	Port Coquitlam, BC
Malchiondo	Joel	Richmond Hill H.S.	Richmond Hill, ON
Maldague	Lucas	Cegep Ste. Foy	Quebec, QC
Mambakkam		Vincent Massey S.S.	Windsor, ON
Mastragostino	Robert	Bishop Tonnos C.S.S.	Ancaster, ON
Mendelovits	Raymond	North Toronto C.I.	Toronto, ON
Nicolle	Lewis	Point Grey S.S.	Vancouver, BC
Peng	Alan	Hugh McRoberts S.S.	Richmond, BC
Pollock	Sean	Markville S.S.	Markham, ON
Saxena	Kunal	Mount Douglas S.S.	Victoria, BC
Shin	Seungchul	Corpus Christi C.S.S.	Burlington, ON
Shi	Stevenl	Markville S.S.	Markham, ON
Swech	Ryan	Waterdown D.H.S.	Waterdown, ON
Syed	Ahmed	Galt C.I. & V.S.	Cambridge, ON
Tsai	Edward	Vincent Massey S.S.	Windsor, ON
Vuong	Edward	Dr. Norman Bethune C.I.	Scarborough, ON
Walker	Matthew	Notre Dame College School	Welland, ON
Wang	Alice	London Central S.S.	London, ON
Wang	Karen	Johnston Heights Jr. S.S.	Surrey, BC
Wang	Sirui	L'Amoreaux C.I.	Scarborough, ON
Wong	Jerm Y	William Lyon Mackenzie C.I.	North York, ON
Xu	Carlos	St. George's School	Vancouver, BC
Yang	Jayden	London Central S.S.	London, ON
Youngg	Jason	Langstaff S.S.	Richmond Hill, ON
Zha O	Bill	A.Y. Jackson S.S.	North York, ON
Zhou	Joseph	Vincent Massey S.S.	Windsor, ON
Zimmer	Kieran	Woburn C.I.	Scarborough, ON

Group 4: Scores from 58 to 59

Arango	Juan	Corpus Christi C.S.S.	Burlington, ON
Bukharov	Sergey	Hugh McRoberts S.S.	Richmond, BC
Chen	Peter	Earl Haig S.S.	North York, ON
Czech	David	North Surrey S.S.	Surrey, BC
Dhaliwal	Kamaljot	North Park S.S.	Brampton, ON
Hall	Evan	O'Neill C.V.I.	Oshawa, ON
Haxhillari	Rej	Richview C.I.	Etobicoke, ON
Hu	Ting Han	Waterloo C.I.	Waterloo, ON
Ivanovic	Boris	Bayview Glen School	North York, ON
Jung	Kyng Jun	Concordia International School Shanghai	Pudong,
Klassen	Nicholas	London Central S.S.	London, ON
Kyle	Gao	Galt C.I. & V.S.	Cambridge, ON
Lau	Stella	St. Francis Xavier S.S.	Mississauga, ON
Li	Aaron	Markville S.S.	Markham, ON
Liang	Wenjun	Riverdale C.I.	Toronto, ON
Mehta	Dhruven	Middlefield C.I.	Markham, ON

Canadian Student Honour Roll**Palmarès des élèves à l'échelle nationale**

Name/Nom		School/École	Location/Endroit
Nguyen	Trong	Guelph C. & V.I.	Guelph, ON
Poulin	Marc	Markville S.S.	Markham, ON
Reitzel	Jonathan	Resurrection C.S.S.	Kitchener, ON
Stevens	Jed	Dr. J.M. Denison S.S.	Newmarket, ON
Wong	Anson	Markville S.S.	Markham, ON
Wu	Alex	Earl Haig S.S.	North York, ON
Wu	Gloria	Markham District H.S.	Markham, ON
Yang	Hanbo	Canadian Int'l School of Beijing	Beijing,
Yang	Peter	Bayview S.S.	Richmond Hill, ON
Ye	Steven	Michael Power-St Joseph	Etobicoke, ON
Ying	Leslie	University of Toronto Schools	Toronto, ON
Yuen	Anthony	Markville S.S.	Markham, ON
Zaghloul	Adam	Thornlea S.S.	Thornhill, ON
Zhang	Karl	Victoria Park C.I.	North York, ON

Senior Competitors

Students are listed in alphabetical order within each group.

Dans chaque group, les élèves sont nommés en ordre alphabétiques.

Name/Nom	School/École	Location/Endroit
Invitees to Stage 2 of the 2011 Canadian Computing Competition		
Charley Roy	Dominic Dawson College	Montreal, QC
Chiu	Pang Chieh St. George's School	Vancouver, BC
Choi	David St. George's School	Vancouver, BC
Deng	Calvin Cary Academy	Cary, NC
Eisenstat	Sam Academy for Gifted Children-PACE	Richmond Hill, ON
Hui	Daniel Woburn C.I.	Scarborough, ON
Janitsch	Billy Earl Haig S.S.	North York, ON
Li	Justin Sir Robert Borden H.S.	Nepean, ON
Lu	Sean Xiaon Vincent Massey S.S.	Windsor, ON
Matelis	Mantas Bayview S.S.	Richmond Hill, ON
Netterfield	Joshua Michael Power-St Joseph	Etobicoke, ON
Song	Geoffry Lisgar C.I.	Ottawa, ON
Sun	Zhewei Vincent Massey S.S.	Windsor, ON
Vaartjes	Aaron Gordon Graydon Memorial S.S.	Mississauga, ON
Yang	Allen Cary Academy	Cary, NC
Yeo	Kevin William Lyon Mackenzie C.I.	North York, ON
Yu	Darin L'Amoreaux C.I.	Scarborough, ON
Yu	Kevin Don Mills C.I.	North York, ON
Yun	David Richview C.I.	Etobicoke, ON
Zeng	Gary Don Mills C.I.	North York, ON
Zeng	Joe Don Mills C.I.	North York, ON
Zhang	Cyril Don Mills C.I.	North York, ON
Honourable Mention		
Angold	Zachary Sir John A. Macdonald S.S.	Waterloo, ON
Bedi	Kevin Dunbarton H.S.	Pickering, ON
Bedley	Jade Richmond Hill H.S.	Richmond Hill, ON
Boyd	Eric John McCrae S.S.	Nepean, ON
Brooks	Quentin Centennial C. & V.I.	Guelph, ON
Cai	Longyou Woburn C.I.	Scarborough, ON
Friedman	Tal Thornhill S.S.	Thornhill, ON
Jiang	Heinrich Vincent Massey S.S.	Windsor, ON
Khan	Sufyan Earl Haig S.S.	North York, ON
Kuhrt	Megan The Woodlands School	Mississauga, ON
Liu	Victor Dr. Norman Bethune C.I.	Scarborough, ON
Luo	Kevin Eric Hamber S.S.	Vancouver, BC
Luq	Lawrence Dr. Norman Bethune C.I.	Scarborough, ON
Nikbin	Amin St. Andrew's College	Aurora, ON
Potechnykh	Dmitri Thornhill S.S.	Thornhill, ON
Qiu	Bryan Richmond Hill H.S.	Richmond Hill, ON
Ryoo	Yeon Hak Thornlea S.S.	Thornhill, ON
Shaan	Saravannan Woburn C.I.	Scarborough, ON

Canadian Student Honour Roll**Palmarès des élèves à l'échelle nationale**

Name/Nom		School/École	Location/Endroit
Smith	Scott	Waterloo Oxford D.S.S.	New Hamburg, ON
Tai	Wei	Victoria Park C.I.	North York, ON
Wang	Ray	A.Y. Jackson S.S.	North York, ON
Wei	Yuanhao	Earl of March S.S.	Kanata, ON
Wilton	Shane	Sir John A. Macdonald S.S.	Waterloo, ON
Wirth	Jacob	Sir Robert Borden H.S.	Nepean, ON
Wong	Annette	William Lyon Mackenzie C.I.	North York, ON
Ye	Richard	Bell H.S.	Nepean, ON
Young	Billy	Vincent Massey S.S.	Windsor, ON
Yu	Andrew	Northern S.S.	Toronto, ON
Group 3: Scores from 55 to 57			
Baxter	Thomas	Hillfield-Strathallan Coll. H.S.	Hamilton, ON
Borissov	Anton	Waterloo C.I.	Waterloo, ON
Burgoyne	Danny	Sardis S.S.S.	Chilliwack, BC
Buterin	Vitalik	The Abelard School	Toronto, ON
Chen	Gregory	Thornhill S.S.	Thornhill, ON
Colautti	James	Father Michael Goetz S.S.	Mississauga, ON
Fallahi	Farzad	West Vancouver S.S.	West Vancouver, BC
Foppa	Benjamin	Markham District H.S.	Markham, ON
Gilhuly	Sean	St. David C.S.S.	Waterloo, ON
Graydon	Billy	Martingrove C.I.	Etobicoke, ON
Jung	Stephen	Marc Garneau C.I.	North York, ON
Langen	Mark	Strathcona H.S.	Edmonton, AB
Langille	James	Richmond Hill H.S.	Richmond Hill, ON
Li	Peihong	Unionville H.S.	Markham, ON
Patterson	Andrew	Glebe Collegiate Institute	Ottawa, ON
Yin	Fan	Vincent Massey S.S.	Windsor, ON
Young	Michael	Richmond Hill H.S.	Richmond Hill, ON
Young	Sandro	Lisgar C.I.	Ottawa, ON
Zhen	Marko	SA TEC @ W.A. Porter C.I.	Scarborough, ON
Group 4: Scores from 54 to 54			
Ameri	Shahriar	Futureskills H.S.	North York, ON
Barnett	Steven	North Toronto C.I.	Toronto, ON
Berrevoets	Neil	SA TEC @ W.A. Porter C.I.	Scarborough, ON
Choi	Wonjohn	St. Francis Xavier S.S.	Mississauga, ON
Dai	Richard	Dr. J.M. Denison S.S.	Newmarket, ON
Fong	Curtis	Eric Hamber S.S.	Vancouver, BC
Habib	Moeed	Forest Heights C.I.	Kitchener, ON
Jervis	Nathan	Westmount S.S.	Hamilton, ON
Koppel	Leonid	Bell H.S.	Nepean, ON
Lee	Ming	Johnston Heights Jr. S.S.	Surrey, BC
Liu	Jerry	Waterloo C.I.	Waterloo, ON
Liu	Shawn	Vincent Massey S.S.	Windsor, ON
Mcconomy	Steven	Sir John A. Macdonald S.S.	Waterloo, ON
Mckittrice	Daniel	Richmond Hill H.S.	Richmond Hill, ON
Nicholas	De On	Harry Ainlay H.S.	Edmonton, AB
Prsiazny	Michael	E.L. Crossley S.S.	Fonthill, ON

Canadian Student Honour Roll**Palmarès des élèves à l'échelle nationale**

Name/Nom		School/École	Location/Endroit
Wang	Clinton	University of Toronto Schools	Toronto, ON
Wang	Jesse	Victoria Park C.I.	North York, ON
Xu	Tiantong	Sir John A. Macdonald C.I.	Scarborough, ON
Ying	Ted	The Woodlands School	Mississauga, ON

Problem Averages**Moyenne par problèmes**

Problem	All Contestants	Non-Zero Scores	Problem	All Contestants	Non-Zero Scores
Junior 1	12.70	13.38	Senior 1	12.41	13.50
Junior 2	11.40	13.20	Senior 2	12.02	14.43
Junior 3	9.99	13.09	Senior 3	3.95	9.3
Junior 4	4.71	10.12	Senior 4	4.37	10.45
Junior 5	0.75	5.1	Senior 5	0.98	4.04

The averages denoted as “All Contestants” in the above table indicate all students in the division. The averages denoted as “Non-Zero” scores in the above table include only students in the division who received a non-zero score on the problem. There were 659 Senior contestants and 1011 Junior contestants.

Student Rankings**Classement des élèves**

<i>Junior Competitors</i>						<i>Senior Competitors</i>					
Score/ Note	Rank/ Position	Score/ Note	Rank/ Position	Score/ Note	Rank/ Position	Score/ Note	Rank/ Position	Score/ Note	Rank/ Position	Score/ Note	Rank/ Position
75	1	51	281	31	713	72	1	51	97	30	358
73	9	50	308	30	716	71	4	50	116	29	455
71	11	49	319	29	755	69	5	49	117	28	456
70	12	48	343	28	758	68	6	48	121	27	460
69	13	47	374	27	763	67	7	47	142	26	502
67	14	46	393	26	781	66	8	46	144	25	503
66	15	45	402	25	789	65	12	45	152	24	505
65	28	44	489	24	793	64	18	44	185	23	523
63	29	43	502	23	810	63	20	43	190	21	525
62	54	42	511	22	817	62	23	42	196	20	533
61	61	41	578	21	822	61	27	41	229	19	534
60	68	40	591	20	834	60	29	40	232	18	535
59	119	39	604	19	841	59	38	39	238	17	547
58	132	38	645	18	842	58	43	37	273	15	549
57	149	37	653	16	861	57	51	36	279	12	574
56	177	36	659	15	868	56	65	35	308	10	594
55	204	35	682	14	904	55	66	34	312		
54	220	34	683	13	905	54	70	33	316		
53	242	33	688	12	909	53	90	32	350		
52	266	32	708	11	921	52	93	31	353		

2011 Canadian Computing Competition Committee

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Graeme Kemkes
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Prof. Vlado Keselj
School of Computer Science
Dalhousie University, Halifax, NS

Andy Kong
Undergraduate Student
University of Waterloo

Prof. Ondřej Lhoták
School of Computer Science
University of Waterloo

Abel Molina
Graduate Student
University of Waterloo

Prof. J. Ian Munro
Cheriton School of Computer Science
University of Waterloo

Abel Nieto-Rodriguez
Undergraduate Student
University of Waterloo

Ron Ouwerkerk
St. George’s School
Vancouver, BC

Troy Vasiga (Director)
Cheriton School of Computer Science
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