



The CENTRE for EDUCATION
in MATHEMATICS and COMPUTING

*2009
Canadian
Computing
Competition
Results*



This year marked the third year of the joint collaboration with Tsinghua University in Beijing to offer the contest to Beijing 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/>. It was also the fifth consecutive year of the successful collaboration with the University of Hong Kong to offer the contest to Hong Kong high school students. This year, the Hong Kong students wrote a different competition than the Canadian CCC: this contest was created collaboratively between HKU and UW. More information (including results) can be found at: <http://www.cs.hku.hk/ccc2009/>.

A detailed summary of problems (with solutions) will be posted on the CCC website by the end of mid-May 2009. Below, a qualitative summary of both the Junior and Senior contest is presented.

The Junior contest seemed to fairly reasonable in terms of difficulty, with most students getting the first three questions. J4 and/or J5 was a bit too difficult, or long, for most students.

On the Senior problems, it was difficult. Quite difficult, starting at about S2. We will try to less the damage next year.

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 30, 2009

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 65 to 75			
Daigle	Alexandre	Cegep Ste. Foy	Quebec, QC
Delanghe	Yuri	Harry Ainlay H.S.	Edmonton, AB
Jiang	Heinrich	Vincent Massey S.S.	Windsor, ON
Li	Yingxiang	Ancaster H.S.	Ancaster, ON
Lin	Rui	William Lyon Mackenzie C.I.	North York, ON
Siao	Vincent	St. George's School	Vancouver, BC
Simmonds	Joshua	The Country Day School	King City, ON
Wu	Aleck	A.Y. Jackson S.S.	North York, ON
Yin	Fan	Vincent Massey S.S.	Windsor, ON
Yu	Kevin	Don Mills C.I.	North York, ON
Zheng	Tiger Ziyu	Vincent Massey S.S.	Windsor, ON
Group 2: Scores from 60 to 64			
Choi	Jeffrey	St. George's School	Vancouver, BC
Gershunovsky	Michael	Stephen Lewis S.S.	Thornhill, ON
Gilhuly	Sean	St. David C.S.S.	Waterloo, ON
Ibanez	Daniel	Martingrove C.I.	Etobicoke, ON
Kleinschroth	Justin	Trinity College School	Port Hope, ON
Law	Dickson	Markham D.H.S.	Markham, ON
Mack	Richard	Immaculata Reg. H.S.	Kelowna, BC
Peng	Tianyi	St. Augustine S.S.	Brampton, ON
Shu	Calvin	Trinity College School	Port Hope, ON
Wang	Clinton	University of Toronto Schools	Toronto, ON
Wong	Andrew	University of Toronto Schools	Toronto, ON
Xia	Steven	Victoria Park C.I.	North York, ON
Yang	Annie	Vincent Massey S.S.	Windsor, ON
Zhao	Pei Jun	London Central S.S.	London, ON
Group 3: Scores from 55 to 59			
Bansal	Vinay Ak	Sir Robert Borden H.S.	Nepean, ON
Baxter	Thomas	Hillfield-Strathallan Coll. H.S.	Hamilton, ON
Benjamin	Colin	The Country Day School	King City, ON
Bohlooli	Ali	Young Mathematican Association	Tehran,
Cooper	Chris	Lisgar C.I.	Ottawa, ON
Curelea	Andrei	Vincent Massey S.S.	Windsor, ON
Ditommaso	Michael	St. Basil-The-Great-College School	North York, ON
Fernandez	Francival	St. Joan of Arc C.S.S	Mississauga, ON
Glenesk	Julian	Leaside H.S.	East York, ON
Gordiyenko	Taras	Ursula Franklin Academy	Toronto, ON
Guo	Robert	University of Toronto Schools	Toronto, ON
Hemmati	Soroosh	Young Mathematican Association	Tehran,
Hung	Victor	St. George's School	Vancouver, BC

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

Name/Nom		School/École	Location/Endroit
Levelton	Scott	St. George's School	Vancouver, BC
Liu	Alison	Nepean H.S.	Ottawa, ON
Liu	Victor	Dr. Norman Bethune C.I.	Scarborough, ON
Lustgarten	Lior	William Lyon Mackenzie C.I.	North York, ON
Song	Geoffrey	Lisgar C.I.	Ottawa, ON
Wise	Zachary	The Country Day School	King City, ON
Xu	Scott	Agincourt C.I.	Scarborough, ON
Young	Billy	Vincent Massey S.S.	Windsor, ON
Zhang	Yipei	Agincourt C.I.	Scarborough, ON
Group 4: Scores from 51 to 54			
Berryhill		Bluevale C.I.	Waterloo, ON
Boneng	Joanna	Centennial C. & V.I.	Guelph, ON
Chuang	Henry	St. George's School	Vancouver, BC
Filippov	Serghei	Richview C.I.	Etobicoke, ON
Gershoig	Ariel	Sir Robert Borden H.S.	Nepean, ON
Harding	James	Centennial C. & V.I.	Guelph, ON
Huang	Lisa	Erindale S.S.	Mississauga, ON
Johnson	Adrien	Richmond Hill H.S.	Richmond Hill, ON
Kavanagh	Ryan	E.S.C. Marie-Rivier	Kingston, ON
Kiil	Ranek	Harry Ainlay H.S.	Edmonton, AB
Li	Erica	Vincent Massey S.S.	Windsor, ON
Liu	Evan	St. George's School	Vancouver, BC
Marcucci	Michael	Loyola C.S.S.	Mississauga, ON
Mccallum	Keegan	Richview C.I.	Etobicoke, ON
Qin	Haotian	Woburn C.I.	Scarborough, ON
Sikes	Kalev	A.Y. Jackson S.S.	North York, ON
Sutton	Andrew	Holy Trinity School	Richmond Hill, ON
Woo	Joyce	Woburn C.I.	Scarborough, ON
Yan	Eric	Riverdale C.I.	Toronto, ON
Yin	Bo	Erindale S.S.	Mississauga, ON
Yoon	Juil	The Yorkland School	North York, ON
Yuan	Samuel	Markham D.H.S.	Markham, ON
Zhang	Shaohua	Agincourt C.I.	Scarborough, 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 2009 Canadian Computing Competition		
Andre	Tyson	Richmond Hill H.S.
Ban	Frank	Vincent Massey S.S.
Bi	Brian	Woburn C.I.
Chang	Michael	Thornlea S.S.
Cheng	Robin	Pinetree S.S.
Dhaliwal	Amarvir	Woburn C.I.
Hu	David	Western Tech. Comm. School
Li	Tong Shu	Woburn C.I.
Liu	Zhiqiang	Don Mills C.I.
Majdzadeh	Ali	Port Moody Sr. S.S.
Plachta	Jacob	Woburn C.I.
Schneider	Jonathan	University of Toronto Schools
Shen	Andrew	Thornhill S.S.
Szymanski	Thomas	Vincent Massey S.S.
Tahrif Bappi	Golam	Waterloo C.I.
Wang	Hanson	Woburn C.I.
Wang	Zheng	The Woodlands School
Wen	Weinan Peter	Vincent Massey S.S.
Wong	Jamie	Lisgar C.I.
Zhang	Cyril	Don Mills C.I.
Honourable Mention		
Alman	Joshua	University of Toronto Schools
Bhuiyan	Shaon	Vincent Massey S.S.
Dobrin	Anton	Northern S.S.
Drouillard	Chris	Belle River D.H.S.
Du	Eddie	Richmond Hill H.S.
Duong	Adrian	William Lyon Mackenzie C.I.
Duyck	James	Vincent Massey S.S.
Fung	Felix	Victoria Park C.I.
Fung	Henry	The Woodlands School
Galperin	Daniel	Waterloo C.I.
Khan	Samin	Vincent Massey S.S.
Lee	Edward	Vincent Massey S.S.
Li	Ke	The Woodlands School
Macfie	Andrew	Sir Robert Borden H.S.
Park	Daniel	University of Toronto Schools
Pauls	Leigh	Sir Winston Churchill S.S.
Qiao	Aurick	Vincent Massey S.S.
Steel	George	Aurora H.S.
Sun	Matthew	Woburn C.I.
Xu	Peter	Don Mills C.I.

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

Name/Nom		School/École	Location/Endroit
Yu	Harry	Don Mills C.I.	North York, ON
Zeng	Joe	Don Mills C.I.	North York, ON
Zhang	Edward	Lisgar C.I.	Ottawa, ON
Group 3: Scores from 31 to 38			
Bedley	Alex	Richmond Hill H.S.	Richmond Hill, ON
Charpentier	Laurie	University of Toronto Schools	Toronto, ON
Davies		Markham D.H.S.	Markham, ON
Doan	Andy	Woburn C.I.	Scarborough, ON
Fang	Kevin	Victoria Park C.I.	North York, ON
Gao	Jack	Victoria Park C.I.	North York, ON
Grandfield	Charles	University of Toronto Schools	Toronto, ON
Guo	Daniel	Don Mills C.I.	North York, ON
Ianus	Alex	Don Mills C.I.	North York, ON
Jensen	Brook	Thornhill S.S.	Thornhill, ON
Kwon	Soon Hyung	Westminster S.S.	London, ON
Lee	Robert	Thornlea S.S.	Thornhill, ON
Makarov	Serguei	The Abelard School	Toronto, ON
Martin	Alexander	Don Mills C.I.	North York, ON
Ng	Garry	Victoria Park C.I.	North York, ON
Rosu	Cristina	University of Toronto Schools	Toronto, ON
Shen	Tong	Unionville H.S.	Markham, ON
Stan	Alexandru	Cardinal Newman C.S.S.	Stoney Creek, ON
Tang	Ceen Ming	Unionville H.S.	Markham, ON
Tsai	Yi Ting	Vincent Massey S.S.	Windsor, ON
Walton	Brandon	O'Neill C.V.I.	Oshawa, ON
Xi	Xiao	Waterloo C.I.	Waterloo, ON
Xia	Tian	The Woodlands School	Mississauga, ON
Zelebaba	Dusan	Vincent Massey S.S.	Windsor, ON
Zghal	Omar	Vincent Massey S.S.	Windsor, ON
Group 4: Scores from 28 to 30			
Burden	Robert	Unionville H.S.	Markham, ON
Cai	Qianli	Unionville H.S.	Markham, ON
Chen	Michael	Vincent Massey S.S.	Windsor, ON
Davydov	Dan	Richmond Hill H.S.	Richmond Hill, ON
Dixon	Tyler	Eastview S.S.	Barrie, ON
Dumitrescu	Eduard	College Notre-Dame du Sacr-Coeur	Montreal, QC
Javaid	Usama	Vincent Massey S.S.	Windsor, ON
Jayakumar	Amlesh	Waterloo C.I.	Waterloo, ON
Koff	Jonathan	Northern S.S.	Toronto, ON
Lei	Terence	Lisgar C.I.	Ottawa, ON
Leung	Samuel	A.Y. Jackson S.S.	North York, ON
Lindsay	Aaron	Sinclair S.S.	Whitby, ON
Lu	Kevan	Richmond Hill H.S.	Richmond Hill, ON
Lue	Wenhao	Bayview Glen School	North York, ON
Mustafa	Harun	Woburn C.I.	Scarborough, ON
Nadeau	Philippe	College Notre-Dame du Sacr-Coeur	Montreal, QC
Rasmussen	Andrew	Edmonds Woodway H.S.	Edmonds, WA

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Name/Nom		School/École	Location/Endroit
Roman	Jeremy	Sir John A. Macdonald S.S.	Waterloo, ON
Rosen	Yohei	Eric Hamber S.S.	Vancouver, BC
Shaan	Saravannan	Woburn C.I.	Scarborough, ON
Sheng	Chao Qun	Unionville H.S.	Markham, ON
Snider	Cory	Academy for Gifted Children-PACE	Richmond Hill, ON
Tam	Gregory	St. George's School	Vancouver, BC
Venis	Adam	University of Toronto Schools	Toronto, ON
Vul	Andrey	Thornlea S.S.	Thornhill, ON
Wong	Chris	Unionville H.S.	Markham, ON
Wong	Kelvin	Unionville H.S.	Markham, ON
Woods	David	Eric Hamber S.S.	Vancouver, BC
Zung	Jonathan	University of Toronto Schools	Toronto, ON

Problem Averages**Moyenne par problèmes**

Problem	All Contestants	Non-Zero Scores	Problem	All Contestants	Non-Zero Scores
Junior 1	13.14	14.71	Senior 1	9.06	10.56
Junior 2	4.75	10.32	Senior 2	2.43	6.27
Junior 3	9.17	11.58	Senior 3	2.26	7.75
Junior 4	1.91	9.77	Senior 4	0.55	7.56
Junior 5	0.42	6.78	Senior 5	0.51	5.26

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 653 Senior contestants and 836 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	50	71	30	325	75	1	41	35	21	141
73	3	49	79	29	402	67	3	40	36	20	153
72	4	48	81	28	406	66	4	39	38	19	164
68	8	47	92	27	417	65	7	38	44	18	168
66	9	46	98	26	528	64	8	37	45	17	196
65	10	45	102	25	532	62	9	36	48	16	207
64	12	44	147	24	545	61	10	35	50	15	213
63	13	43	149	23	639	60	12	34	51	14	303
62	14	42	155	22	641	57	13	33	54	13	308
61	16	41	192	21	650	53	14	32	59	12	320
60	19	40	194	20	668	52	15	31	64	11	380
58	26	39	201	19	670	50	16	30	69	10	385
57	32	38	221	18	674	49	18	29	85		
56	38	37	226	17	687	48	21	28	94		
55	42	36	238	16	689	47	24	27	98		
54	48	35	260	15	691	46	25	26	106		
53	55	34	269	13	764	45	27	25	112		
52	59	33	273	12	770	43	30	24	115		
51	66	32	312	11	784	42	34	23	123		

2009 Canadian Computing Competition Committee

Rich Clausi Elmira District Secondary School Elmira, Ontario	Prof. Gordon Cormack Cheriton School of Computer Science University of Waterloo	Sandy Graham Office of the Dean – Math University of Waterloo
Graeme Kemkes Graduate Student University of California, San Diego	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	Prof. J. Ian Munro Cheriton School of Computer Science University of Waterloo	Ron Ouwerkerk St. George’s School Vancouver, BC
David Pritchard Graduate Student University of Waterloo		Troy Vasiga (Director) Cheriton School of Computer Science University of Waterloo