



The CENTRE for EDUCATION  
in MATHEMATICS and COMPUTING

*2007  
Canadian  
Computing  
Competition  
Results*



Another year of the CCC, and many new directions.

This year marked the first 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 third consecutive year of the successful collaboration with the University of Hong Kong to offer the contest to Hong Kong high school students. More information (including results) can be found at: <http://www.cs.hku.hk/ccc2007/>.

A detailed summary of problems (with solutions) will be posted on the CCC website by the end of mid-May 2007. Below, a qualitative summary of both the Junior and Senior contest is presented.

The Junior contest seemed to provide a reasonable distribution of scores, though there was some large clustering at 75 (perfect!) and 63. Certainly, J5 was the separator question (as intended), but the high scores this year were a pleasant surprise. There also seemed to be a reasonable progression in difficulty from J3 to J4 to J5, which made this a nice problem set.

On the Senior problems, the first problem was generally well done, but the difficulty level increased quickly from S1 to S2. The last question (S5) seemed very tough to competitors. There was also some non-linearity in the non-zero scores for S2 and S3. Overall, this was a very tough contest this 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  
April 2007

*Junior Competitors*

Students are listed in alphabetical order within each group.

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

<b>Name/Nom</b>	<b>School/École</b>	<b>Location/Endroit</b>
<b>Group 1: Scores from 75 to 75</b>		
Berzish	Murphy	St. John's-Ravenscourt School
Fung	Felix	Victoria Park S.S.
Gagnon	Daniel	Champlain Regional College
Howard	Devin	St. John's Kilmarnock School
Liu	Zhiqiang	Don Mills C.I.
Macdonald	Jordan	Dunbarton H.S.
Mack	David	Immaculata H.S.
Mehta	Kshitij	Woburn Collegiate Institute
Pauls	Leigh	Sir Winston Churchill S.S.
Rosen	Sanae	Eric Hamber S.S.
Steel	George	Aurora High School
Tupaz	Aaron	Father Michael Goetz S.S.
Wen	Vincent	A.Y. Jackson S.S.
Wong	Gabriel	St. George's School
Wong	Jamie	Lisgar C.I.
Yang	Zongyi	Markville S.S.
Yee	Alex	The Woodlands S.
Yu	Guang Wei	A.Y. Jackson S.S.
Zhang	Cyril	Zion Heights J.H.S.
Zhang	Edward	Lisgar C.I.
<b>Group 2: Scores from 70 to 74</b>		
Armitage	John	The Country Day School
Bi	Brian	Woburn Collegiate Institute
Gardner	Charlie	Moirs S.S.
Irwin	Robbie	Resurrection C.S.S.
Kloosterman	John	Unity Christian H.S.
Kwok	Devin	Sir Winston Churchill H.S.
Lemmond	Daniel	E.S. Georges-P. Vanier
Lindsay	Aaron	Sinclair S.S.
Liu	Nicholas	St. George's School
Lou	David	Victoria Park S.S.
Lue	Wenhao	Bayview Glen School
Ma	Derek	Agincourt C.I.
Morozov	Kirill	Gordon Graydon Memorial S.S.
Robertson	Sean	Ursula Franklin Academy
<b>Group 3: Scores from 64 to 69</b>		
Chow	Winston	Milliken Mills H.S.
Coulter	Travis	North Hastings H.S.
Cristea	Paul	William Lyon Mackenzie C.I.
Gao	Jack	Victoria Park S.S.
Grzadkowski	Michal	Centennial C. & V.I.

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

<b>Name/Nom</b>		<b>School/École</b>	<b>Location/Endroit</b>
Hatton	Bryan	Cameron Heights C.I.	Kitchener, ON
Huang	Po Yu	St. George's School	Vancouver, BC
Lu	David	Riverdale C.I.	Toronto, ON
Puntillo	Justin	The Humberview School	Bolton, ON
Ren	Tony	A.Y. Jackson S.S.	North York, ON
Shen	Natalie	A.Y. Jackson S.S.	North York, ON
Tam	Greg	St. George's School	Vancouver, BC
Thobani	Imran	Sir Winston Churchill S.S.	Vancouver, BC
Venis	Adam	Univ. Of Toronto Schools	Toronto, ON
Wallace	Daniel	Dunbarton H.S.	Pickering, ON
Xu	Peter	Centennial C. & V.I.	Guelph, ON
<b>Group 4: Scores from 63 to 63</b>			
Asaad	Kirollos	Woburn Collegiate Institute	Toronto, ON
Athaide	Greg	Father Michael Mcgivney C.H.S.	Markham, ON
Belkova	Anna	St. Theresa Of Lisieux C.H.S.	Richmond Hill, ON
Brinke	Wout	Centre Dufferin D.H.S.	Shelburne, ON
Catingan	Carlo	Guelph C. & V.I.	Guelph, ON
Charpentier	Laurie	Univ. Of Toronto Schools	Toronto, ON
Cheng	John	A.Y. Jackson S.S.	North York, ON
Chiu	Gary	Milliken Mills H.S.	Unionville, ON
Choi	Jeffrey	St. George's School	Vancouver, BC
Cranston	Chris	Guelph C. & V.I.	Guelph, ON
Daly Grafstein	Matthew	St. George's School	Vancouver, BC
Dodge	Michael	Ashbury College	Ottawa, ON
Edwards	Matthew	The Country Day School	King City, ON
Faloon	Sean	O'Neill C.V.I.	Oshawa, ON
Guo	Benson	A.Y. Jackson S.S.	North York, ON
Jenkins	Ethan	Earl Of March S.S.	Kanata, ON
Kwok	Crystal	St. Clement's School	Toronto, ON
Li	Ke	The Woodlands S.	Mississauga, ON
Li	Ronald	Markham D.H.S.	Markham, ON
Lombardi	Natasha	The Country Day School	King City, ON
Mach	Anna	Riverdale C.I.	Toronto, ON
Mack	Richard	Immaculata H.S.	Kelowna, BC
Mcdona	Chris	Stamford C. & V.I.	Niagara Falls, ON
Mercier White	Kelly	Champlain Regional College	St. Lambert, QC
Mihajlovic	Igor	Vincent Massey S.S.	Windsor, ON
Moncrief	Benjamin	Eastdale C.V.I.	Oshawa, ON
Mullings Black	Julian	Eastdale C.V.I.	Oshawa, ON
Noland	Eric	Sir James Dunn C. & V.S.	Sault Ste. Marie, ON
Parsons	Chris	Hugh Mcroberts S.S.	Richmond, BC
Pugh	Robin	Dunbarton H.S.	Pickering, ON
Pulgarin	Julian	St. Ignatius Of Loyola H.S.	Oakville, ON
Raviraj	Vindhya	John Fraser S.S.	Mississauga, ON
To	Matthew	A.Y. Jackson S.S.	North York, ON
Vennor	Ryan	Eastdale C.V.I.	Oshawa, ON
Visneski	Brian	Thousand Islands S.S.	Brockville, ON
Watt	Elizabeth	St. Clement's School	Toronto, ON
Winter	Jonathan	Guelph C. & V.I.	Guelph, ON

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

<b>Name/Nom</b>		<b>School/École</b>	<b>Location/Endroit</b>
Yednoroz	Corey	Vincent Massey S.S.	Windsor, ON
Yu	Ming Jui	St. George's School	Vancouver, BC
Zeng	Yang	Vincent Massey S.S.	Windsor, ON
Zghal	Omar	Vincent Massey S.S.	Windsor, ON

*Senior Competitors*

Students are listed in alphabetical order within each group.

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

<b>Name/Nom</b>	<b>School/École</b>	<b>Location/Endroit</b>
<b>Invitees to Stage 2 of the 2007 Canadian Computing Competition</b>		
Ben David	Shalev	Waterloo C.I.
Braverman	Boris	Sir Winston Churchill H.S.
Charlesworth	Ian	Frontenac S.S.
Chartier	Mathieu	Univ. Of Winnipeg C.
Dewar	Jeffrey	Sir Winston Churchill H.S.
Diez	Patrick	Marianopolis College
Gist	Chris	Richmond Hill H.S.
Guruganesh	Guru	Woburn Collegiate Institute
Huynh	Kent	Univ. Of Toronto Schools
Kong	Andy	Vincent Massey S.S.
Lopyrev	Konstantin	Richmond Hill H.S.
Mo	Jeffrey	Sir Winston Churchill H.S.
Moore	Andrew	Champlain Regional College
Ngan	Ricky	Thornhill S.S.
Pasalic	Mirza	Earl Of March S.S.
Plachta	Jacob	Woburn Collegiate Institute
Tsai	George	St. George's School
Wang	Hanson	Woburn Collegiate Institute
Zhang	Stephen	Jarvis C.I.
<b>Honourable Mention</b>		
Banks	Jeremy	Riverdale C.I.
Chen	William	Sir Winston Churchill H.S.
Du	Chenfei	William Lyon Mackenzie C.I.
Fu	Helen	Victoria Park S.S.
Fu	William	A.Y. Jackson S.S.
Hughson	Alex	Port Perry H.S.
Ing	Colman	Woburn Collegiate Institute
Jiang	Jiayang	A.Y. Jackson S.S.
Komer	Brent	St. Thomas Aquinas S.S.
Lam	Aidan	Richmond Hill H.S.
Lam	Daniel	Univ. Of Toronto Schools
Ng	Keith	St. Francis Xavier Secondary
Papineau	Devin	Sir Winston Churchill S.S.
Segel Brown	Asher	Earl Of March S.S.
Sentjens	Nathan	St. Thomas Aquinas S.S.
Sritharan	Duluxan	Woburn Collegiate Institute
Van Spronsen	Loren	Credo Christian H.S.
Wang	Wei	Waterloo C.I.
Woo	Roger	Woburn Collegiate Institute
Wu	Chris	Richmond Hill H.S.
Wu	Steven	Westmount S.S.
Yang	Steven	Gloucester H.S.

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

<b>Name/Nom</b>		<b>School/École</b>	<b>Location/Endroit</b>
Yao	Vick	Vincent Massey S.S.	Windsor, ON
<b>Group 3: Scores from 48 to 53</b>			
Ballo	Botond	Father Bressani C.H.S.	Woodbridge, ON
Butler	Paul	Queen Elizabeth H.S.	Halifax, NS
Da Silva	Shane	Heart Lake S.S.	Brampton, ON
Dunham	Andrew	Westmount S.S.	Hamilton, ON
Francis	William	Sir Frederick Banting S.S.	London, ON
Goldenberg	Evan	Comm. Hebrew Academy Of Toront	Toronto, ON
Grant	Aaron	The Woodlands S.	Mississauga, ON
Henshall	Dane	St. George's School	Vancouver, BC
Lan	Bruce	The Woodlands S.	Mississauga, ON
Leung	Francesca	Richmond Hill H.S.	Richmond Hill, ON
Liu	Yu	Western Canada H.S.	Calgary, AB
Ma	Swift	A.Y. Jackson S.S.	North York, ON
Majdzadeh	Ali	Port Moody S.S.S.	Port Moody, BC
Mann	Cameron	Argyll Distance Education Centre	Edmonton, AB
Merritt	Nicholas	Sir John Franklin School	Yellowknife, NT
Nica	Mihai	Waterloo C.I.	Waterloo, ON
Panju	Maysum	Richmond Hill H.S.	Richmond Hill, ON
Punjani	Ali	Marc Garneau C.I.	Don Mills, ON
Safonov	Dmitry	Crestwood PREP.COLLEGE	Toronto, ON
Scott	Michael	Aurora High School	Aurora, ON
Sean	Yamana	Vincent Massey S.S.	Windsor, ON
Wan	Ao	A.Y. Jackson S.S.	North York, ON
Wang	Ivan	Vincent Massey S.S.	Windsor, ON
Weir	Ross	The Woodlands S.	Mississauga, ON
Wen	Weinan Ptr	Vincent Massey S.S.	Windsor, ON
Wibowo	Agustinus	A.Y. Jackson S.S.	North York, ON
Wilde	Graeme	Port Perry H.S.	Port Perry, ON
Zhang	Lisa	William Lyon Mackenzie C.I.	Toronto, ON
Zou	Chen	Don Mills C.I.	Don Mills, ON
<b>Group 4: Scores from 43 to 47</b>			
Anderson	Matthew	Frontenac S.S.	Kingston, ON
Byrnes	Taylor	Ursula Franklin Academy	Toronto, ON
Chang	Michael	Thornlea S.S.	Thornhill, ON
Chau	William	William Lyon Mackenzie C.I.	Toronto, ON
Choi	Jonathan	St. George's School	Vancouver, BC
De Simone	Davide	St. Thomas Of Villanova	King City, ON
Devet	Brian	St. Christopher S.S.	Sarnia, ON
Fairey	Trevor	St. George's School	Vancouver, BC
Guo	Jia	O'Neill C.V.I.	Oshawa, ON
Hayes	Patrick	John F. Ross C.V.I.	Guelph, ON
Hu	Xuan	The Woodlands S.	Mississauga, ON
Huang	Chen	Woburn Collegiate Institute	Toronto, ON
Jia	Eric	Univ. Of Toronto Schools	Toronto, ON
Johanson	Ethan	Johnston Heights J.S.S.	Surrey, BC
Khatri	Mayur	William Lyon Mackenzie C.I.	Toronto, ON
Kim	Jeeyoung	Resurrection C.S.S.	Kitchener, ON

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

<b>Name/Nom</b>		<b>School/École</b>	<b>Location/Endroit</b>
Leung	Wien	Richmond Hill H.S.	Richmond Hill, ON
Lewchuk	Stephen	Westmount S.S.	Hamilton, ON
Liu	Chang	Sir John A. Macdonald C.I.	Agincourt, ON
Lum	Eric	Thornlea S.S.	Thornhill, ON
Precious	Matthew	Victoria Park S.S.	North York, ON
Schneider	Jonathan	Univ. Of Toronto Schools	Toronto, ON
Schrauwen	Erik	Colonel By S.S.	Gloucester, ON
Servos	James	Waterloo Oxford D.S.S.	Baden, ON
Sharp	Graham	A.N. Myer S.S.	Niagara Falls, ON
Su	Cong	Marianopolis College	Montreal, QC
Teng	David	Woburn Collegiate Institute	Toronto, ON
Tughan	Michael	Toronto Dist. Christian H.S.	Woodbridge, ON
Weekes	George	Univ. Of Toronto Schools	Toronto, ON
Williams King	David	Homeschool	Calgary, AB
Wiratunga	Sheran	Forest Heights C.I.	Kitchener, ON
Xu	Simon	Victoria Park S.S.	North York, ON
Zhang	Derek	Sir John A. Macdonald C.I.	Agincourt, ON



**Problem Averages****Moyenne par problèmes**

Problem	All Contestants	Non-Zero Scores	Problem	All Contestants	Non-Zero Scores
Junior 1	12.68	13.85	Senior 1	11.98	13.53
Junior 2	12.68	13.61	Senior 2	5.93	8.87
Junior 3	9.58	12.83	Senior 3	3.35	10.41
Junior 4	6.13	11.08	Senior 4	2.43	7.38
Junior 5	1.45	6.14	Senior 5	0.46	3.68

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 701 Senior contestants and 822 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	52	270	31	603	75	1	46	83	25	278
74	21	51	281	30	613	72	4	45	84	24	288
73	23	50	303	29	654	71	5	44	99	23	324
72	24	49	309	28	660	69	6	43	104	22	326
71	32	48	316	27	683	68	7	42	106	21	335
70	34	47	348	26	701	66	8	41	113	20	391
69	35	46	352	25	709	63	10	40	119	19	396
66	41	45	367	24	718	61	15	39	125	18	408
65	48	44	424	23	725	60	16	38	128	17	455
64	49	43	433	22	733	58	18	37	137	16	457
63	51	42	449	21	737	57	21	36	143	15	468
62	92	41	488	20	743	56	27	35	155	13	559
61	95	40	499	19	746	55	30	34	163	11	574
60	101	39	514	18	752	54	34	33	170	10	582
59	170	38	536	17	757	53	44	32	194		
58	177	37	539	16	758	52	45	31	202		
57	192	36	551	15	760	51	48	30	206		
56	229	35	572	14	778	50	56	29	242		
55	233	34	584	13	781	49	65	28	244		
54	241	33	587	12	786	48	66	27	255		
53	260	32	596	11	794	47	73	26	274		

**2007 Canadian Computing Competition Committee**

Rich Clausi Elmira District Secondary School Elmira, Ontario	Prof. Tony Cox School of Computer Science Dalhousie University, Halifax, NS	Prof. Ondřej Lhoták School of Computer Science University of Waterloo
Donny Cheung Graduate Student University of Waterloo	Sandy Graham Office of the Dean – Math University of Waterloo	Prof. Ian Munro School of Computer Science University of Waterloo
Gordon Chiu Altera Corporation Toronto, ON	Graeme Kemkes Graduate Student University of Waterloo	Ron Ouwerkerk St. George’s School Vancouver, BC
Prof. Gord Cormack School of Computer Science University of Waterloo	Prof. Vlado Keselj School of Computer Science Dalhousie University, Halifax, NS	Troy Vasiga (Director) School of Computer Science University of Waterloo