



The CENTRE for EDUCATION
in MATHEMATICS and COMPUTING

Faculty of Mathematics
University of Waterloo
Waterloo, Ontario, Canada N2L 3G1

2002 Canadian Computing Competition Results

Sponsors:



The Canadian Computing Competition saw a modest increase in participation this year over last year. We are indebted to the many teachers who provided the opportunity and assistance to their students to participate in the contest. I would particularly like to express my appreciation to the teachers involved in the grading of the competition. Without their participation it would not be possible to allow the Stage 1 competitors the variety of platforms and programming languages that we currently allow them to use in the competition.

Again this year, we have experienced unacceptable delays in returning information to schools about Stage 1 outcomes. We will be instituting more changes next year to correct this problem.

The first, and perhaps the most significant, change is in the registration cost, which will be lowered to \$5.00 per student. Along with this a medal will be provided to the top competitor in each division in each school, provided the competitor achieves a score higher than a cutoff score. The cutoff score will be determined by the scores on the competition.

Congratulations to all competitors for their participation in the competition.

Comments about the problems and their solutions will appear on the website in the near future.

Junior Competitors

Students are listed in alphabetical order within each group / Dans chaque groupe, les élèves sont nommés en ordre alphabétiques.

Name Nom	School École	Location Endroit
Group 1 - Scores from 74 to 75		
Robert	Biswas	Vincent Massey S.S.
Jeff	Chadder	Guelph C. & V.I.
Andrei	Cojocar	Archbishop Macdonald H.S.
Geoffrey	Fung	Dr. Norman Bethune C.I.
Glen	Martin	North Park C.I.
Aaron	Smith	Huron Heights S.S.
Dan	Swartzentruber	Forest Heights C.I.
Tony	Targonski	Metropolitan Prep. Academy
Yifei	Wang	Vincent Massey S.S.
Jasper	Yeh	Thornhill S.S.
Group 2 - Scores from 67 to 73		
Valerie	Cheung	Vincent Massey S.S.
Chad	Cogar	Crescentview School
Mihai	Cosma	Bell H.S.
Johnny	Gozde	Lord Beaverbrook H.S.
Marcel	Guzman	Moscrop Secondary School
Grigori	Inozemtsev	Sinclair S.S.
Pawel	Kosicki	Vincent Massey S.S.
Andrew	Lysyk	O'Neill C.V.I.
Geoff	Lywood	Archbishop Macdonald H.S.
Alex	Mccarthy	Markham D.H.S.
Erik	Miranda	Kincardine D.S.S.
Richard	Peng	Bloor C.I.
Peter	Qian	Loyalist C.&V.I.
Robert	Varga	Guelph C. & V.I.
Tom	Voros	White Oaks S.S.
Group 3 - Scores from 60 to 66		
Shachar	Avni	Sir Robert Borden H.S.
Simon	Couture	Polyvalente de Levis
Aidan	Findlater	Campbell C.I.
Yuli	Fiterman	Vaughan S.S.
Jeff	Goeders	Huron Heights S.S.
Jeremy	Green	Richview C.I.
Eugene	Greene	Vincent Massey S.S.
Weibo	Hao	Vincent Massey S.S.
Davin	Johnson	St. John's Kilmarnock School
Janos	Kramar	Univ. Of Toronto Schools
Gabriel	Lemieux	Polyvalente de Levis
C Silvia	Li	Riverdale C.I.
Yi	Liu	Lisgar C.I.
Nick	Meng	Lisgar C.I.
Yang	Niu	Western Canada H.S.
Andrew	Rosselet	Woburn Collegiate Institute
Aaron	Ruimy	Vincent Massey S.S.
Andor	Salga	York Mills C.I.
Michael	Sitwell	Sir Robert Borden H.S.
Vassili	Skarine	Northview Heights S.S.
Shawn	Tse	Dr. E. P. Scarlett H.S.
Soroush	Vosoughi	John F. Ross CVI
Jason	Weinstein	York Mills C.I.
Jason	Wilman	O'Neill C.V.I.
Chris	Yong Set	Dr. Norman Bethune C.I.
Group 4 - Scores from 55 to 59		
Jeremy	Aneja	Academy For Gifted Children
Catalina	Baetoni	Etobicoke C.I.
Boris	Chan	Dr. Norman Bethune C.I.
Jeannie	Chan	Hugh McRoberts S.S.

Xiao Bei	Chen	Jarvis C.I.	Toronto, ON
Eric	Cheung	Markham D.H.S.	Markham, ON
Theresa	Chion	Markham D.H.S.	Markham, ON
Puneet	Chopra	Centennial C. & V.I.	Guelph, ON
Jeremy	Giles	A.N. Myer S.S.	Niagara Falls, ON
Sarah	Haider	Havergal College	Toronto, ON
Andrew	Haji	Sir Frederick Banting S.S.	London, ON
Kevin	Leung	Vaughan S.S.	Thornhill, ON
Charles	Li	Western Canada H.S.	Calgary, AB
Jacob	Lifshits	Vincent Massey S.S.	Windsor, ON
Brett	Link	Dr. E. P. Scarlett H.S.	Calgary, AB
Kostya	Lytvyn	Vaughan S.S.	Thornhill, ON
Rui	Ma	Vincent Massey S.S.	Windsor, ON
Gregory	Mccalla	Etobicoke C.I.	Etobicoke, ON
Sandeep	Mistry	Sir Robert Borden H.S.	Nepean, ON
Andrew	Ng	Thornlea S.S.	Thornhill, ON
Danny	Osullivan	Ridley College	St. Catharines, ON
Tricia	Pang	Crofton House School	Vancouver, BC
Jane	Panteleev	Nepean H.S.	Ottawa, ON
Victor	Ragusila	Danforth Coll. & Tech. Inst.	Toronto, ON
Steven	Ratuszniak	Campbell C.I.	Regina, SK
Yin	Ren	Vincent Massey S.S.	Windsor, ON
Chris	Seepe	Vaughan S.S.	Thornhill, ON
Dan	Sirbu	Lisgar C.I.	Ottawa, ON
Ricky	Tai	Dr. Norman Bethune C.I.	Scarborough, ON
Anthony	Tan	Eric Hamber S.S.	Vancouver, BC
Peter	Tong	Dr. Norman Bethune C.I.	Scarborough, ON
Kelvie	Wong	Hugh McRoberts S.S.	Richmond, BC
John	Zhang	St. Mary's High School	Calgary, AB

Senior Competitors

Students are listed in alphabetical order within each group / Dans chaque groupe, les élèves sont nommés en ordre alphabétiques.

Name Nom	School École	Location Endroit
Gold Medallists		
Cory	Fletcher	Colonel By S.S.
Marcin	Mika	Father Michael Goetz S.S.
Sujeevan	Rajayogam	Woburn Collegiate Institute
Jason	Thean	Woburn Collegiate Institute
Matei	Zaharia	Jarvis C.I.
Xin	Zhang	Woburn Collegiate Institute
Silver Medallists		
Bruce	Fontaine	London Central S.S.
Sean	Henderson	Woburn Collegiate Institute
Brian	Keng	Vaughan S.S.
Sahab	Yazdani	Thornhill S.S.
Anthony	Xu	Woburn Collegiate Institute
Bronze Medallists		
Wissam	Bishara	Vincent Massey S.S.
Gerard	Escalante	Moscrop Secondary School
Michael	Fortin	Champlain Regional College
Yaron	Friedman	Thornlea S.S.
Steven	Kuo	Richview C.I.
Gary	Lambing	Vincent Massey S.S.
Yun	Lu	Victoria Park S.S.
James	Martens	Danforth Coll. & Tech. Inst.
Antonio	Sanchez	St. Matthew H.S.
Ilmin	Suh	George S. Henry Academy
Henry	Truong	Grand River C.I.
Yin	Zhao	Vincent Massey S.S.

Honourable Mention

Michael	Boos	Gloucester H.S.	Gloucester, ON
Keith	Chung	Western Canada H.S.	Calgary, AB
James	Deboer	F.E. Madill S.S.	Wingham, ON
Matthew	Eagar	London Central S.S.	London, ON
Emir	Hasanbegovic	Richview C.I.	Etobicoke, ON
Mark	Ilton	St. Thomas Aquinas S.S.	London, ON
Hansel	Ip	Oakville Trafalgar H.S.	Oakville, ON
Lambo	Jayapalan	Woburn Collegiate Institute	Toronto, ON
Derek	Jones	Earl Of March S.S.	Kanata, ON
Andrew	Lauritzen	Banting Memorial H.S.	Alliston, ON
Duat	Le	Western Tech. Comm. School	Toronto, ON
Alex	Pickard	Sir Robert Borden H.S.	Nepean, ON
Reed	Riley	Richmond Hill H.S.	Richmond Hill, ON
Feng	Tian	Vincent Massey S.S.	Windsor, ON
Henry	Wong	St. Francis Xavier S.S.	Mississauga, ON
Michael	Wong	Woburn Collegiate Institute	Toronto, ON
Richard	Zadorozny	Ashbury College	Ottawa, ON

Scores from 46 to 52

Nadeem	Abji	Victoria Park S.S.	North York, ON
John	Allison	London Central S.S.	London, ON
Andrew	Baker	Unionville H.S.	Unionville, ON
Saulroft	Bancroft	Thornhill S.S.	Thornhill, ON
Bela	Bauer	Ridley College	St. Catharines, ON
Peter	Cardwell	Lakeshore Catholic High School	Port Colborne, ON
Jasper	Chan	The Woodlands S.	Mississauga, ON
Daly	Chang	Erindale S.S.	Mississauga, ON
Ian	Cheng	Forest Hill C.I.	Toronto, ON
Johnathon	Christie	Cardinal Carter S.S.	Leamington, ON
Luke	Cyca	Swift Current Comp. H.S.	Swift Current, SK
Jean F	Dostaler	E.S.C. Marie-Rivier	Kingston, ON
Elan	Dubrofsky	Sir Robert Borden H.S.	Nepean, ON
Bryan	Eyler	Beaver Brae S.S.	Kenora, ON
Chris	Francis	Moira S.S.	Belleville, ON
Nir	Friedman	Thornhill S.S.	Thornhill, ON
Greg	Haynes	Forest Heights C.I.	Kitchener, ON
Hans	Hesse	Kenner C.V.I.	Peterborough, ON
Mateusz	Inglot	St. Mary's High School	Kitchener, ON
Chris	Johnson	Saunders S.S.	London, ON
Alexei	Karpenko	Waterloo C.I.	Waterloo, ON
Alan	Kenned Y	West Hill S.S.	Owen Sound, ON
Alan	Klaassen	Thornhill S.S.	Thornhill, ON
Dmitry	Kolosov	Newtonbrook S.S.	North York, ON
John	Kooistra	Chippewa S.S.	North Bay, ON
Robert	Kosztyla	Resurrection C.S.S.	Kitchener, ON
Talent	Lam	Markville S.S.	Markham, ON
Bertram	Leung	St. Joseph S.S.	Mississauga, ON
Jason	Lloyd Price	Western Canada H.S.	Calgary, AB
Tyler	Lu	Forest Heights C.I.	Kitchener, ON
Jake	Machina	Vincent Massey S.S.	Windsor, ON
Ryan	Morris	St. Thomas Aquinas S.S.	London, ON
Adam	Nace	Huron Park S.S.	Woodstock, ON
Alan	Ng	Markham D.H.S.	Markham, ON
Zenon	Parker	Banting Memorial H.S.	Alliston, ON
Sanjay	Patel	Univ. Of Toronto Schools	Toronto, ON
Zhao	Ray	Vincent Massey S.S.	Windsor, ON
James	Schofield	St. Matthew H.S.	Orleans, ON
Jesse	Schwartzentrub	Waterloo Oxford D.S.S.	Baden, ON
Cezary	Swieton	Waterloo C.I.	Waterloo, ON
Simon	Tam	St. Michael's College School	Toronto, ON
Russell	Webb	Campbell C.I.	Regina, SK
Jonathan	West	Thornlea S.S.	Thornhill, ON
Kevin	Xu	Waterloo C.I.	Waterloo, ON
Nan	Yang	Birchmount Park C.I.	Scarborough, ON
Cameron	Zwarich	M.M. Robinson H.S.	Burlington, ON

Scores from 41 to 45

Wajahat	Ali Aziz	Winston Churchill C.I.	Scarborough, ON
Jonathan	Aneja	Academy For Gifted Children	Richmond Hill, ON
David	Bartley	Sherwood S.S.	Hamilton, ON
Omid	Bashir	Cedarbrae C.I.	Scarborough, ON
Michael	Berg	Swift Current Comp. H.S.	Swift Current, SK
Erik	Bohl	Bluevale C.I.	Waterloo, ON
Andrei	Borac	Home School	Picton, ON
Alexander	Bradley	Vancouver College H.S.	Vancouver, BC
Alex	Casamassima	King City S.S.	King City, ON
Shane	Cermele	St. Mary C.S.S.	Pickering, ON
Victor	Ching	Dr. Norman Bethune C.I.	Scarborough, ON
Brian	Choi	Markville S.S.	Markham, ON
Carl	Clements	Cedarbrae C.I.	Scarborough, ON
Seneca	Cunningham	Pickering H.S.	Ajax, ON
Nadish	De Silva	The Woodlands S.	Mississauga, ON
Eamonn	Doherty	Marshall McLuhan Cath. S.S.	Toronto, ON
Lloyd	Elliott	Kingston C.V.I.	Kingston, ON
	Esaagoolian	Thornlea S.S.	Thornhill, ON
Andrew	Fiori	Sir Robert Borden H.S.	Nepean, ON
David	Fung	Middlefield C.I.	Markham, ON
Lester	Gloria	St. Joseph S.S.	Mississauga, ON
Daniil	Golod	Northview Heights S.S.	North York, ON
Alex	Gumz	Waterloo Oxford D.S.S.	Baden, ON
Ian	Halliday	Milliken Mills H.S.	Unionville, ON
Michael	Hamstra	Holy Cross C.S.S.	Kingston, ON
Jeff	Hau	The Woodlands S.	Mississauga, ON
Guanglin	He	Kingston C.V.I.	Kingston, ON
Anson	Hidajat	St. Joseph S.S.	Mississauga, ON
Brian	Hogg	M.M. Robinson H.S.	Burlington, ON
Ryan	Holm	St. Ignatius H.S.	Thunder Bay, ON
Lorna	Huiskamp	Centennial C. & V.I.	Guelph, ON
Paul	Istoan	Waterloo C.I.	Waterloo, ON
Saeed	Jahed	Clarkson S.S.	Mississauga, ON
Timothy	Jennison	Guelph C. & V.I.	Guelph, ON
Jingping	Ji	Lisgar C.I.	Ottawa, ON
Aaron	Kemp	Waterford D.H.S.	Waterford, ON
Ben	Komalo	The Woodlands S.	Mississauga, ON
Zhentao	Li	Marianopolis College	Montreal, QC
Jeff	Lindquist	Markham D.H.S.	Markham, ON
Peter	Lloyd	Woburn Collegiate Institute	Toronto, ON
David	Marcks	Thornhill S.S.	Thornhill, ON
Lloyd	Markle	Sir Frederick Banting S.S.	London, ON
Vlad	Mnih	Father John Redmond H.S.	Etobicoke, ON
Ali	Navrozally	Markville S.S.	Markham, ON
Eddy	Omalley	St. Thomas Aquinas S.S.	London, ON
Jason	Ouellette	Bishop Ryan School	Hamilton, ON
Dan	Pajek	St. Jean de Brebeuf	Hamilton, ON
Henry J	Pan	East York C.I.	Toronto, ON
Jason	Peasgood	River East C.I.	Winnipeg MB
Antonio	Rodriguez	St. David C.S.S.	Waterloo, ON
Peter	Ross	East Northumberland S.S.	Brighton, ON
Stephen	Scovil	Glendale H.S.	Tillsonburg, ON
Harnik	Shukla	Woburn Collegiate Institute	Toronto, ON
Ravi	Singh	Gordon Graydon Memorial S.S.	Mississauga, ON
Arjuna	Sivasithambare	Woburn Collegiate Institute	Toronto, ON
William	Somers	Gloucester H.S.	Gloucester, ON
Jonathan	Sufrin	Lawrence Park C.I.	Toronto, ON
Simon	Tam	The Woodlands S.	Mississauga, ON
Greg	Taylor	St. David C.S.S.	Waterloo, ON
Rory	Tulk	Holy Cross C.S.S.	Kingston, ON
Paul	Walker	F.E. Madill S.S.	Wingham, ON
Tianjiao	Wang	Winston Churchill C.I.	Scarborough, ON
Scott	Weir	Catholic Central H.S.	London, ON
David	Wong	Woburn Collegiate Institute	Toronto, ON
Weitang	Wong	Milliken Mills H.S.	Unionville, ON
Qian	Wu	Marianopolis College	Montreal, QC
Colin	Young	Lorne Park S.S.	Mississauga, ON
Anton	Zolotkov	Clarkson S.S.	Mississauga, ON

Problem Averages

Moyenne par problèmes

Problem	Junior (all)	Junior (non-zero)	Senior (all)	Senior (non-zero)
J1	13.2	13.9	----	----
J2	9.4	11.2	----	----
S1J3	5.1	9.3	8.1	11.2
S2J4	10.1	11.9	12.2	12.9
S3J5	1.4	5.7	4.3	11.0
S4	----	----	1.9	5.6
S5	----	----	0.7	5.8

The averages denoted (all) in the above table include all students in the division.

The averages denoted (non-zero) in the above table include only students in the division who achieved a non-zero score on the problem.

There were 890 Senior Division competitors and 558 Junior Division Competitors.

Student Rankings

Classement des élèves

Junior Competitors

Senior Competitors

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	47	139	23	438	72	1	43	127	21	461
74	9	46	147	22	444	66	2	42	131	20	484
73	11	45	153	21	448	64	5	41	143	19	499
72	14	44	178	20	462	63	6	40	155	18	519
70	20	43	187	19	468	62	7	39	160	17	539
69	22	42	197	18	475	60	9	38	170	16	562
67	24	41	220	17	486	59	13	37	173	15	576
66	26	40	228	16	491	58	14	36	181	14	668
65	27	39	236	15	495	57	16	35	189	13	677
62	28	38	262	14	520	56	23	34	193	12	685
61	29	37	272	13	522	55	26	33	204	11	737
60	31	36	282	12	523	54	27	32	224	10	746
59	51	35	298	11	525	53	38	31	233	9	749
58	52	34	304	10	527	52	41	30	240	8	791
57	58	33	313	9	535	51	45	29	329	7	805
56	71	32	334	7	541	50	57	28	342	6	809
55	76	31	340	6	542	49	66	27	352	5	825
54	84	30	349	3	544	48	72	26	387	4	830
53	96	29	374	2	545	47	81	25	396	3	835
52	99	28	381	0	547	46	85	24	408	2	850
51	112	27	386			45	87	23	434	1	852
50	126	26	402			44	125	22	441	0	853
49	132	25	409								
48	135	24	418								

2002 Canadian Computing Competition Committee

Rich Clausi
Elmira District Secondary School

Donny Cheung
University of Waterloo

Gordon Chiu
University of Waterloo

Gord Cormack (Chair)
Computer Science Department
University of Waterloo

Barry Ferguson
Office of the Dean - Math
University of Waterloo

Sandy Graham
Office of the Dean - Math
University of Waterloo

Graeme Kemkes
University of Waterloo

Ian Munro
Computer Science Department
University of Waterloo

Roy Parteno
St. Joseph Secodary School
Mississauga

Troy Vasiga
Computer Science Department
University of Waterloo