



The CENTRE for EDUCATION
in MATHEMATICS and COMPUTING

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

2003 *Canadian Computing Competition Results*

Sponsors:



A discussion of approaches to the problems, along with sample solutions for some of them will appear on the CCC web-site before the end of May 2003.

The problems committee and the organizers would like to thank the students who participated, and especially the teachers who supervised, graded, and reported the scores for their students. Our policy has always been to allow as many students to participate as are interested, and to do this we need the flexibility of allowing a variety of platforms and programming languages, more than we could access here. Thus you, the teachers, are a very important part of the process.

We also thank those of you who returned our survey. These are being examined and we will use the input to try to improve the competition in the 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 71 to 75		
Baskin	Jacob	Univ. Of Toronto Schools
Jilkine	Konstantin	J.H. Bruns C.I.
Kramar	Janos	Univ. Of Toronto Schools
Ma	Rui	Vincent Massey S.S.
Plachta	Jacob	Woburn Collegiate Institute
Sennikov	Dmitri	Forest Hill C.I.
Wang	Frank	Vincent Massey S.S.
Woroshow	Eric	Dr. Norman Bethune C.I.
Group 2 – Scores from 60 to 69		
Bisson	Matthew	Holy Trinity C.H.S.
Boiko	Oleksiy	Forest Hill C.I.
Choong	Alexander	Woburn Collegiate Institute
Chun G	Claire	Victoria Park S.S.
Ellenzweig	Michael	Pickering H.S.
Fan	Eric	Markville S.S.
Grant	Elyot	Cameron Heights C.I.
Huang	Andy	Sir Robert Borden H.S.
Li	Silvia	Lisgar C.I.
Macdonald	Peter	O'neill C.V.I.
Marchwica	Paul	Vincent Massey S.S.
Markov	Anton	Lakeshore C.I.
Mclachlan	Kevin	Thornlea S.S.
Mok	Siu Pak	Markville S.S.
Murray	Bradley	Pickering H.S.
Nadeau	Phillip	All Saints Cath. S.S.
Pak	Brian	Vaughan S.S.
Poon	Canice	Markham D.H.S.
Premji	Imran	Markville S.S.
Rammo	Wael	Vincent Massey S.S.
Shahramian	Shayan	Forest Hill C.I.
Sun	John	Vincent Massey S.S.
Syed	Faraz	John Fraser S.S.
Young	Andrew	Huron Heights S.S.
Group 3 – Scores from 55 to 59		
Barnard	Joel	Beamsville D.S.S.
Cappon	Derek	Richmond Hill H.S.
Chan	Christina	Crofton House School
Cheng	Herman	Western Canada H.S.
Collins	Connor	St. David C.S.S.
Cracknell	James	Sir John Franklin School
Dick	Jonathon	United Mennonite Ed. Centre
Dittmer	Mark	Saunders S.S.
Fiori	Daniel	Sir Robert Borden H.S.
Hamre	Duncan	Sir John Franklin School
Heydon	Randy	Marshall McLuhan Cath. S.S.
Ho	Hobart	Milliken Mills H.S.
Huang	Carol	Woburn Collegiate Institute
Ip	Jeffrey	Dr. Norman Bethune C.I.
Logan	Bryan	Martingrove C.I.
Lui	Alvin	Milliken Mills H.S.
Mahood	Sean	Markville S.S.
Meingarten	Corey	Woburn Collegiate Institute
Ming	Aaron	Markville S.S.
Mistry	Jiten	Pickering H.S.

Canadian Student Honour Roll

Palmarès des élèves à l'échelle nationale

Mulder	David	St. John's-Ravenscourt School	Winnipeg, MB
Ng	Kevin	Brother Andre C.H.S.	Markham, ON
Papo	Aleks	Vincent Massey S.S.	Windsor, ON
Purvis	Michael	Leaside H.S.	East York, ON
Rabinovitch	Jason	Upper Canada College	Toronto, ON
Shan	Meng	Vincent Massey S.S.	Windsor, ON
Smith	Brandon	St. Ignatius Of Loyola H.S.	Oakville, ON
Sritharan	Thuwaragan	Woburn Collegiate Institute	Toronto, ON
Stannard	Matthew	Dr. Norman Bethune C.I.	Scarborough, ON
Sun	Andy	Vincent Massey S.S.	Windsor, ON
Vassilovski	Vladimir	Etobicoke C.I.	Etobicoke, ON
Wang	Laura	Vincent Massey S.S.	Windsor, ON
Wionzek	Thomas	Bluevale C.I.	Waterloo, ON
Wong	Elaine	Woburn Collegiate Institute	Toronto, ON
Wong	Kelvie	Hugh Mcroberts S.S.	Richmond, BC
Wu	Xiaodi	Univ. Of Toronto Schools	Toronto, ON
Xia	Yang	Vincent Massey S.S.	Windsor, ON
Yeremin	Igor	Northview Heights S.S.	North York, ON

Group 4 – Scores from 50 to 54

Arlow	Sam	The Country Day School	King City, ON
Baetoni	Alexandra	Etobicoke C.I.	Etobicoke, ON
Brotherston	Daniel	Sir Frederick Banting S.S.	London, ON
Bruni	Carmen	Bishop Ryan School	Hamilton, ON
Chan	Gavin	Royal St. George's College	Toronto, ON
Charles	Kevin	Martingrove C.I.	Etobicoke, ON
Choy	Stephen	Upper Canada College	Toronto, ON
Chung	Yung Han	Etobicoke C.I.	Etobicoke, ON
Coutsos	Nikolaos	Vincent Massey S.S.	Windsor, ON
Crooks	David	Western Canada H.S.	Calgary, AB
Eng	Lawson	Riverdale C.I.	Toronto, ON
Hadi	Daniel	Pickering H.S.	Ajax, ON
Hamid	Faisal	John Fraser S.S.	Mississauga, ON
Haylock	Tom	Centre Wellington D.H.S.	Fergus, ON
Higgins	Mark	Ashbury College	Ottawa, ON
Huang	Kyle	Centennial C. & V.I.	Guelph, ON
Jamieson	Chris	St. Mary's C.S.S.	Hamilton, ON
Jitomirsky	Eugene	Forest Heights C.I.	Kitchener, ON
Kapp	Garrett	Stratford Central S.S.	Stratford, ON
Kelly	Ben	Centre Wellington D.H.S.	Fergus, ON
Konrad	James	Vincent Massey S.S.	Windsor, ON
Kung	Francis	Brother Andre C.H.S.	Markham, ON
Kwok	Wilson	Dr. Norman Bethune C.I.	Scarborough, ON
Lee	Vincent B	Vaughan S.S.	Thornhill, ON
Lerer	Adam	Univ. Of Toronto Schools	Toronto, ON
Leung	Leon	Markville S.S.	Markham, ON
Li	Belinda	Vincent Massey S.S.	Windsor, ON
Liu	Taotao	Vincent Massey S.S.	Windsor, ON
Lo	Evans	Markham D.H.S.	Markham, ON
Lynch	Sean	Marion M. Graham C.I.	Saskatoon, SK
Magder	Lucas	Martingrove C.I.	Etobicoke, ON
Matthews	Lukas	Cameron Heights C.I.	Kitchener, ON
Moody	Matthew	Western Canada H.S.	Calgary, AB
Mychailyshyn	Michael	St. Mary's C.S.S.	Hamilton, ON
Ouyang	Ruiping	Vincent Massey S.S.	Windsor, ON
Pang	Helen	Thornlea S.S.	Thornhill, ON
Prentice	Alex	Etobicoke C.I.	Etobicoke, ON
Rasmussen	Daniel	Western Canada H.S.	Calgary, AB
Shanmuganayaga	Dhaksa	Milliken Mills H.S.	Unionville, ON
Shyba	Allyn	Western Canada H.S.	Calgary, AB
Sono	Reiri	Crofton House School	Vancouver, BC
Sorensen	Erik	Etobicoke C.I.	Etobicoke, ON
Tarnow	Lee	Vaughan S.S.	Thornhill, ON

Thompson	Evan	St. John's-Ravenscourt School	Winnipeg, MB
Tse	Brian	Collingwood School	West Vancouver, BC
White	Shaun	Vincent Massey S.S.	Windsor, ON
Yang	Winnie	Milliken Mills H.S.	Unionville, ON
Yu	Joyce	Markville S.S.	Markham, ON
Zhang	Anne	Vincent Massey S.S.	Windsor, ON

Group 5 – Scores from 45 - 49

Alexander	Helen	J.H. Bruns C.I.	Winnipeg, MB
Bacinski	Ted	Upper Canada College	Toronto, ON
Balan	Bogdan	Applewood Heights S.S.	Mississauga, ON
Billo	Jake	St. David C.S.S.	Waterloo, ON
Bragg	Chris	Timiskaming D.S.S.	New Liskeard, ON
Briginshaw	Richard	Saunders S.S.	London, ON
Budniak	Aldona	St. Martin H.S.	Mississauga, ON
Campbell	Josh	Parkside H.S.	Dundas, ON
Canham	Eric	St. Michael's College School	Toronto, ON
Choi	Rita	Havergal College	Toronto, ON
Chow	Melissa	Dr. Norman Bethune C.I.	Scarborough, ON
Choy	Louis	Markham D.H.S.	Markham, ON
Conn Grant	Co Coran	Royal St. George's College	Toronto, ON
Crawford	Derek	Parkside H.S.	Dundas, ON
Dharia	Rachit	Woburn Collegiate Institute	Toronto, ON
Dohring	Kyle	Elmira D.S.S.	Elmira, ON
Fine	Eli	St. George's School	Vancouver, BC
Ford	Nicholas	Centennial C. & V.I.	Guelph, ON
Fotouhi	Arash	Forest Hill C.I.	Toronto, ON
Freiday	Andrew	Aurora High School	Aurora, ON
Gao	Sui	Centennial C. & V.I.	Guelph, ON
Gehmlich	Kyle	Royal West Academy	Montreal West, QC
Grainger	Morgan	Cameron Heights C.I.	Kitchener, ON
Gulamhusein	Rahil	Upper Canada College	Toronto, ON
Han	Changjoon	Albert College	Belleville, ON
Harsant	Jeffrey	Northview Heights S.S.	North York, ON
Jagasia	Sameer	Upper Canada College	Toronto, ON
Jennings	David	Bawating C.& V.S.	Sault Ste. Marie, ON
Kehoe	Jonathon	Brother Andre C.H.S.	Markham, ON
Kerns	Sarah	Galt C.I. & V.S.	Cambridge, ON
Keung	James	Brother Andre C.H.S.	Markham, ON
Khani	Botan	Bluevale C.I.	Waterloo, ON
Kim	Tim	Peoples Christian Academy	North York, ON
Kwan	Bonnie	Thornlea S.S.	Thornhill, ON
Kwok	Turbo	Thornlea S.S.	Thornhill, ON
Lalonde	Emilie	Centennial C. & V.I.	Guelph, ON
Lam	Terence	Markham D.H.S.	Markham, ON
Lapage	James	St. Paul's H.S.	Winnipeg, MB
Lee	Calvin	Upper Canada College	Toronto, ON
Leung	Leo	Unionville H.S.	Unionville, ON
Lim	Keane	Eric Hamber S.S.	Vancouver, BC
Lin	Scott	Moscrop Secondary School	Burnaby, BC
Mau	Ken	Applewood Heights S.S.	Mississauga, ON
Mcintyre	Graham	St. Ignatius Of Loyola H.S.	Oakville, ON
Mcintyre	Graham	St. Ignatius Of Loyola H.S.	Oakville, ON
Mcnamee	David	Lester B. Pearson C.H.S.	Gloucester, ON
Miranda	Savith	St. Joseph S.S.	Mississauga, ON
Morley	Chris	Crescent School	Willowdale, ON
Peacew	Robert	St. Matthew H.S.	Orleans, ON
Peberdy	John	Erin D.H.S.	Erin, ON
Pintar	Matthew	Philip Pocock C.S.S.	Mississauga, ON
Radford	Devon	Centennial C. & V.I.	Guelph, ON
Roth	Joel	O'neill C.V.I.	Oshawa, ON
Rouhani	Armon	St. Joseph S.S.	Mississauga, ON
Rutta N	Kyle	Cameron Heights C.I.	Kitchener, ON

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

Servos	Daniel	Beamsville D.S.S.	Beamsville, ON
Shahi Di	Shahnewaz	Downsview S.S.	Downsview, ON
Shum	Derrick	Dr. Norman Bethune C.I.	Scarborough, ON
Smith	Jordan	Albert College	Belleville, ON
Smith	Nicholas	Royal West Academy	Montreal West, QC
Strauss	Michael	Regina Mundi Cath. College	London, ON
Tai	Anita	Dr. Norman Bethune C.I.	Scarborough, ON
Tang	Matthew	Western Canada H.S.	Calgary, AB
Tang	Raymond	Richmond Hill H.S.	Richmond Hill, ON
Tso	Clarence	Upper Canada College	Toronto, ON
Vyskocil	Alex	Vincent Massey S.S.	Windsor, ON
Waldman	Lyle	Academy For Gifted Children	Richmond Hill, ON
Walper	Dustin	Sir Robert Borden H.S.	Nepean, ON
Wang	Linda	Vincent Massey S.S.	Windsor, ON
Wong	Freda	Crofton House School	Vancouver, BC
Yip	Cy	Milliken Mills H.S.	Unionville, ON
Yip	Jacky	Saunders S.S.	London, ON
Zayyani	Khashayar	Woburn Collegiate Institute	Toronto, ON
Zhang	Chenchen	Lisgar C.I.	Ottawa, ON

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
Invitees to Stage 2 of the 2003 Canadian Computing Competition		
Borac	Andrei	Home School
Chan	Aaron	J.N. Burnett S.S.
Courteaux	Chris	Wallaceburg D.S.S.
Dahl	Alex	Eden High School
Dent	Daniel	Vancouver College H.S.
Furmaniak	Ralph	A.B. Lucas S.S.
Henderson	Sean	Woburn Collegiate Institute
Lee	Hyon	Vincent Massey S.S.
Leong	Alex	Waterloo C.I.
Lywood	Geoff	Archbishop Macdonald H.S.
Milovanov	Paul	Lakeshore C.I.
Ostrovsky	Alex	Alexander Mackenzie H.S.
Parent	Simon	Kitchener-Waterloo C.I.&V.I.
Patel	Sanjay	Univ. Of Toronto Schools
Pickard	Alex	Sir Robert Borden H.S.
Safavi Naeini	Amir	Waterloo C.I.
Sanchez	Antonio	St. Matthew H.S.
Skarine	Vassili	Kitchener-Waterloo C.I.&V.I.
Smith	Aaron	Huron Heights S.S.
Weir	Mike	St. Peter C.H.S.
Yang	Nan	Birchmount Park C.I.
Zaharia	Matei	Jarvis C.I.
Zhao	Yin	Vincent Massey S.S.

Honourable Mention

Andrighetti	Laura	St. Francis Xavier S.S.	Mississauga, ON
Boos	Michael	Gloucester H.S.	Gloucester, ON
Dewhurst	Adrian	London South S.S.	London, ON
Dsouza	Nigel	St. Francis Xavier S.S.	Mississauga, ON
Elliott	Lloyd	Kingston C.V.I.	Kingston, ON
Ens	Michael	Saugeen D.S.S.	Port Elgin, ON
Fortin	Michael	Champlain Regional College	St. Lambert, QC
George	Wesley	Sir W. Laurier S.S.	London, ON
Kapasi	Mustafa	Richmond Hill H.S.	Richmond Hill, ON
Kloubkov	Serguei	Lakeshore C.I.	Etobicoke, ON
Lawson	Tyler	Northview Heights S.S.	North York, ON
Lin	Allan	Woburn Collegiate Institute	Toronto, ON
Lu	Yun	Victoria Park S.S.	North York, ON
Lung	Jonathan	Univ. Of Toronto Schools	Toronto, ON
Martin	Glen	North Park C.I.	Brantford, ON
Martonosi	Janos	John F. Ross CVI	Guelph, ON
Meng	Jie	Lisgar C.I.	Ottawa, ON
Muizelaar	Jeffrey	Courtice S.S.	Courtice, ON
Singh	Vishvajit	Markville S.S.	Markham, ON
Targonski	Tony	Crestwood Prep.College	Toronto, ON
Wilson	Adam	Lisgar C.I.	Ottawa, ON
Woghiren	Edwin	St. Mary's C.S.S.	Hamilton, ON
Yazdani	Sahab	Thornhill S.S.	Thornhill, ON
Yeh	Jasper	Thornhill S.S.	Thornhill, ON
Yim	Jennifer	Woburn Collegiate Institute	Toronto, ON
Yip	Vincent	Thornlea S.S.	Thornhill, ON
Zhang	David	Centennial C. & V.I.	Guelph, ON

Scores from 45 - 50

Bhatt	Mihir	Woburn Collegiate Institute	Toronto, ON
Bradley	Alexander	Vancouver College H.S.	Vancouver, BC
Burger	Andrew	Gordon Graydon Memorial S.S.	Mississauga, ON
Cacic	Branimir	St. Francis Xavier S.S.	Mississauga, ON
Chan	Jasper	The Woodlands S.	Mississauga, ON
Cheng	Ian	Forest Hill C.I.	Toronto, ON
Chuang	Michael	Moscrop Secondary School	Burnaby, BC
Cui	Ryan	Lord Elgin H.S.	Burlington, ON
Dason	Jeremy	Thornlea S.S.	Thornhill, ON
Doherty	Eamonn	Marshall McLuhan Cath. S.S.	Toronto, ON
Doucet	Aaron	O'neill C.V.I.	Oshawa, ON
Dresser	Daniel	Newmarket H.S.	Newmarket, ON
Fearnley	Nathan	Kirkland Lake C.I.&V.S.	Kirkland Lake, ON
Fikree	Mobeen	St. Francis Xavier S.S.	Mississauga, ON
Green	Jeremy	Richview C.I.	Etobicoke, ON
Hamstra	Michael	Holy Cross C.S.S.	Kingston, ON
Hazelton	Thomas	Markham D.H.S.	Markham, ON
Hennessy	Brendan	Ashbury College	Ottawa, ON
Hirjee	Hussein	Woburn Collegiate Institute	Toronto, ON
Huang	Joseph	Frontenac S.S.	Kingston, ON
Klaassen	Alan	Thornhill S.S.	Thornhill, ON
Ku	Alex	Woburn Collegiate Institute	Toronto, ON
Lozinsky	Arie	Northview Heights S.S.	North York, ON
Lu	Tyler	Forest Heights C.I.	Kitchener, ON
Mccarthy	Alex	Markham D.H.S.	Markham, ON
Miller	Daniel	Woburn Collegiate Institute	Toronto, ON
Ng	Andrew	Thornlea S.S.	Thornhill, ON
Ocallaghan	Robert	Bluevale C.I.	Waterloo, ON
Peng	Richard	Woburn Collegiate Institute	Toronto, ON
Peterson	Jay	Gloucester H.S.	Gloucester, ON
Riley	Reed	Richmond Hill H.S.	Richmond Hill, ON
Shen	Yizhe	John F. Ross Cvi	Guelph, ON
Taylor	Greg	St. David C.S.S.	Waterloo, ON
Tong	Hubert	Francis Libermann C.H.S.	Scarborough, ON
Tung	Frederick	St. Francis Xavier S.S.	Mississauga, ON
Voros	Tamas	White Oaks S.S.	Oakville, ON
Vosougi	Soroush	John F. Ross Cvi	Guelph, ON
Wales	Benji	Sarnia Northern C.I.&V.S.	Sarnia, ON
Wan	Alwin	Woburn Collegiate Institute	Toronto, ON
Wang	Danyao	Bloor C.I.	Toronto, ON
Wong	Wei Tang	Milliken Mills H.S.	Unionville, ON
Yu	Xiao	Kitchener-Waterloo C.I.&V.I.	Kitchener, ON
Zvorygin	Andrew	Northview Heights S.S.	North York, ON

Scores from 35 - 44

Allison	John	London Central S.S.	London, ON
Bauer	Adrian	Richmond Hill H.S.	Richmond Hill, ON
Bender	Mike	Waterloo C.I.	Waterloo, ON
Boryczka	Szymon	St. Francis Xavier S.S.	Mississauga, ON
Campbell	Galen	Richmond Hill H.S.	Richmond Hill, ON
Chan	Boris	Dr. Norman Bethune C.I.	Scarborough, ON
Chang	Daly	Erindale S.S.	Mississauga, ON
Chapeau	Mike	Elmira D.S.S.	Elmira, ON
Chen	Xiaobei	Jarvis C.I.	Toronto, ON
Chen	Xida	Stephen Leacock C.I.	Scarborough, ON
Cogar	Chad	Arthur Meighen H.S.	Portage La Prairie, MB
Cosman	Steve	Sarnia Northern C.I.&V.S.	Sarnia, ON
Dang	Brian	Vincent Massey S.S.	Windsor, ON
De Silva	Nadish	The Woodlands S.	Mississauga, ON
Dick	Charles	Etobicoke C.I.	Etobicoke, ON
Donohue	Aran	Gloucester H.S.	Gloucester, ON
Dos Remedios	Aaron	Catholic Central H.S.	London, ON

Canadian Student Honour Roll

Palmarès des élèves à l'échelle nationale

Dramnitzke	Adam	Wallaceburg D.S.S.	Wallaceburg, ON
Dziewa	Krzysztof	St. Jean De Brebeuf	Hamilton, ON
Esmores	Jun Carlo	Holy Trinity C.H.S.	Kanata, ON
Folland	Eric	Bluevale C.I.	Waterloo, ON
Fung	Geoffrey	Dr. Norman Bethune C.I.	Scarborough, ON
Greene	Eugene	Vincent Massey S.S.	Windsor, ON
Han	Tianyi	Woburn Collegiate Institute	Toronto, ON
Hill	Adam	All Saints Cath. S.S.	Whitby, ON
Hu	Kaixiang	Forest Hill C.I.	Toronto, ON
Jennison	Timothy	Guelph C. & V.I.	Guelph, ON
Karimov	Genghis	Newtonbrook S.S.	North York, ON
Kashigar	Aidin	Sir Frederick Banting S.S.	London, ON
Kemp	John	Glendale H.S.	Tillsonburg, ON
Khan	Saad	Woburn Collegiate Institute	Toronto, ON
Lee Chan	Jeffrey	Dr. Norman Bethune C.I.	Scarborough, ON
Lei	Jun	Vaughan S.S.	Thornhill, ON
Li	Mark	Richmond Hill H.S.	Richmond Hill, ON
Li	Robin	St. Patrick S.S.	Toronto, ON
Li	Yichun	Victoria Park S.S.	North York, ON
Li	Zhuoran	E.L. Crossley S.S.	Fonthill, ON
Marantz	Daniel	Thornhill S.S.	Thornhill, ON
Mccor Ic	Peter	Lawrence Park C.I.	Toronto, ON
Miranda	Erik	Kincardine D.S.S.	Kincardine, ON
Mordatch	Igor	Father John Redmond H.S.	Etobicoke, ON
Nasmith	Mike	Markham D.H.S.	Markham, ON
Ng	Alan	Markham D.H.S.	Markham, ON
Ngo	Andrew	Univ. Of Toronto Schools	Toronto, ON
Odorcic	Denis	Philip Pocock C.S.S.	Mississauga, ON
Orban	Gerald	Markham D.H.S.	Markham, ON
Oskirko	Pat	St. Thomas Aquinas S.S.	London, ON
Park	Brian	Martingrove C.I.	Etobicoke, ON
Park	Chansik	William Lyon Mackenzie C.I.	Toronto, ON
Peters	Mark	Eden High School	St. Catharines, ON
Pisanov	Vlad	Etobicoke C.I.	Etobicoke, ON
Potter	David	St. Ignatius Of Loyola H.S.	Oakville, ON
Primeau	Andrew	Saunders S.S.	London, ON
Raichyk	Adam	Forest Hill C.I.	Toronto, ON
Ruttkay	ONDrej	Iona C.S.S.	Mississauga, ON
Shams	Areeb	Streetsville S.S.	Mississauga, ON
Sjostrom	Chris	St. Ignatius Of Loyola H.S.	Oakville, ON
Steele	Kirk	Port Perry H.S.	Port Perry, ON
Sterling	Adam	Forest Hill C.I.	Toronto, ON
Swartzentruber	Dan	Forest Heights C.I.	Kitchener, ON
Sweeney	Tom	St. Jean De Brebeuf	Hamilton, ON
Tang	Aaron	Erindale S.S.	Mississauga, ON
Timmer	Paul	Kitchener-Waterloo C.I.&V.I.	Kitchener, ON
Tiraborrelli	Michael	St. Thomas Aquinas S.S.	Oakville, ON
Toombs	Greg	St. Anne's C.S.S.	Clinton, ON
Tulk	Rory	Holy Cross C.S.S.	Kingston, ON
Vanbiesbrouck	Bryan	Grimsby S.S.	Grimsby, ON
Wang	Yifei	Vincent Massey S.S.	Windsor, ON
Williams	Robert	Newmarket H.S.	Newmarket, ON
Williamson	Michael	Aurora High School	Aurora, ON
Xie	Kelvin	Vincent Massey S.S.	Windsor, ON
Yip	Eric	Markham D.H.S.	Markham, ON
Zadorozny	Richard	Ashbury College	Ottawa, ON
Zhou	Zhongying	Vincent Massey S.S.	Windsor, ON

Scores from 29 to 34

Adams	Fraser	Hillfield-Strathallan College	Hamilton, ON
Adler	Sascha	Ashbury College	Ottawa, ON
Aggarwal	Sahil	E.L. Crossley S.S.	Fonthill, ON
Allison	Ashley	Thornlea S.S.	Thornhill, ON

Canadian Student Honour Roll

Palmarès des élèves à l'échelle nationale

Amanci	Adrian	Glenforest S.S.	Mississauga, ON
Amar	Adam	The Woodlands S.	Mississauga, ON
Aneja	Jeremy	Academy For Gifted Children	Richmond Hill, ON
Arnold	Chris	South Huron D.S.S.	Exeter, ON
Arnold	Kenneth	Strathroy D.C.I.	Strathroy, ON
Arnold	Matthew	Western Canada H.S.	Calgary, AB
Barnes	Billy	Gordon Graydon Memorial S.S.	Mississauga, ON
Bastani	Pou Y	Carson Graham S.S.	North Vancouver, BC
Bauer	Paul	Bluevale C.I.	Waterloo, ON
Benivolski	Stanislav	Northview Heights S.S.	North York, ON
Berckmans	Ryan	Sir Winston Churchill S.S.	St. Catharines, ON
Best	Joel	St. Christopher S.S.	Sarnia, ON
Biswas	Robert	Vincent Massey S.S.	Windsor, ON
Bratkouski	Nick	Newtonbrook S.S.	North York, ON
Broschell	Scott	Huron Heights S.S.	Newmarket, ON
Bruton	Chris	Queen Elizabeth H.S.	Calgary, AB
Bryden	Alain	Ashbury College	Ottawa, ON
Byckalo	Kyle	Bishop Ryan School	Hamilton, ON
Canis	Andrew	Gordon Graydon Memorial S.S.	Mississauga, ON
Chadder	Jeff	Guelph C. & V.I.	Guelph, ON
Chan	Anthony	Dr. Norman Bethune C.I.	Scarborough, ON
Cheng	Janice	St. Francis Xavier S.S.	Mississauga, ON
Chernysh	Dmytro	Father John Redmond H.S.	Etobicoke, ON
Cheung	Alex	Richmond Hill H.S.	Richmond Hill, ON
Cheung	Eric	Markham D.H.S.	Markham, ON
Cheung	Patrick	Streetsville S.S.	Mississauga, ON
Cheung	Valerie	Vincent Massey S.S.	Windsor, ON
Chow	Chi Kai	Dr. Norman Bethune C.I.	Scarborough, ON
Clarke	Ben	Waterloo Oxford D.S.S.	Baden, ON
Cojocar	Andrei	Archbishop Macdonald H.S.	Edmonton, AB
Connolly	David	Oakville Trafalgar H.S.	Oakville, ON
Couturelevesqu	Guillaume	Merivale H.S.	Ottawa, ON
Dacquay	Eric	St. Paul's H.S.	Winnipeg, MB
Debruy	Marc	St. Thomas Aquinas S.S.	London, ON
Deng	Tony	Milliken Mills H.S.	Unionville, ON
Enciu	Linda	Victoria Park S.S.	North York, ON
English	Elliot	Sir Winston Churchill S.S.	Vancouver, BC
Fabicki	Adam	Philip Pocock C.S.S.	Mississauga, ON
Fan	Eric	Richmond Hill H.S.	Richmond Hill, ON
Field	Kevin	North Park C.I.	Brantford, ON
Fraser	John	River East C.I.	Winnipeg, MB
Freeman	John	Kitchener-Waterloo C.I.&V.I.	Kitchener, ON
Gammie	Drew	Markham D.H.S.	Markham, ON
Gilbertschacht	Cliel	William Lyon Mackenzie C.I.	Toronto, ON
Ginn	Tim	Port Perry H.S.	Port Perry, ON
Goeders	Jeff	Huron Heights S.S.	Newmarket, ON
Goertzen	Mark	River East C.I.	Winnipeg, MB
Guzman	Marcel	Moscrop Secondary School	Burnaby, BC
Halina	Patrick	Western Tech. Comm. School	Toronto, ON
Hare	Art	Thomas A. Stewart S.S.	Peterborough, ON
Hart	Eric	Thornhill S.S.	Thornhill, ON
Hart	Phillip	Saunders S.S.	London, ON
Haugli	Chris	Lisgar C.I.	Ottawa, ON
Hillis	David	Bluevale C.I.	Waterloo, ON
Huang	Jeffry	Markville S.S.	Markham, ON
Hutchinson	Mark	Paris D.H.S.	Paris, ON
Ivrii	Oleg	Don Mills C.I.	Don Mills, ON
Jaffer	Tahir	Thornlea S.S.	Thornhill, ON
Jethani	Amit	William Lyon Mackenzie C.I.	Toronto, ON
Jones	Phil	St. David C.S.S.	Waterloo, ON
Kaldor	Alex	Thornhill S.S.	Thornhill, ON
Kazakov	Victor	Erindale S.S.	Mississauga, ON
Kess	Martin	Vincent Massey S.S.	Windsor, ON

Canadian Student Honour Roll

Palmarès des élèves à l'échelle nationale

Kieltyka	Peter	Mayfield S.S.	Brampton, ON
King	Adam	The Woodlands S.	Mississauga, ON
Kirby	Paul	Western Canada H.S.	Calgary, AB
Ko	Anita	Brother Andre C.H.S.	Markham, ON
Ko	Ben	Unionville H.S.	Unionville, ON
Ko	Willie	Markville S.S.	Markham, ON
Kochermin	Artur	Gloucester H.S.	Gloucester, ON
Kogan	Roman	Vaughan S.S.	Thornhill, ON
Kohler	Johan	St. Matthew H.S.	Orleans, ON
Kong	Edward	Riverdale C.I.	Toronto, ON
Kroeker	Erik	E.L. Crossley S.S.	Fonthill, ON
Kuchnio	Peter	St. Ignatius Of Loyola H.S.	Oakville, ON
Kunasagara N	Geetha	Brampton Centennial S.S.	Brampton, ON
Lall	Tristan	Woburn Collegiate Institute	Toronto, ON
Lao	Hoi Ieng	Milliken Mills H.S.	Unionville, ON
Larose	Kyle	Acton D.H.S.	Acton, ON
Lawrence	Matt	A.B. Lucas S.S.	London, ON
Leroux	James	St. Mary's C.S.S.	Hamilton, ON
Li	Clifton	Thornlea S.S.	Thornhill, ON
Li	Zhi	Victoria Park S.S.	North York, ON
Liu	Yi	Lisgar C.I.	Ottawa, ON
Ljubuncic	Bojan	Forest Heights C.I.	Kitchener, ON
Luckham	Julie	St. David C.S.S.	Waterloo, ON
Lunau	Andrew	Pine Ridge S.S.	Pickering, ON
Macneil	Cameron	St. Matthew H.S.	Orleans, ON
Markin	Mikhail	Waterloo C.I.	Waterloo, ON
Markowski	Jan	Sir Frederick Banting S.S.	London, ON
Mascarenhas	Jeff	Marshall McLuhan Cath. S.S.	Toronto, ON
Masse	Jeff	South Huron D.S.S.	Exeter, ON
Matan	Daniel	Cardinal Newman C.S.S.	Stoney Creek, ON
Mcbirnie	George	Cedarbrae C.I.	Scarborough, ON
Mccalla	Gregory	Etobicoke C.I.	Etobicoke, ON
Mccombe	Ian	St. Thomas Aquinas S.S.	Oakville, ON
Mckellar	Dann	St. David C.S.S.	Waterloo, ON
Mcmullin	Greg	St. Thomas Aquinas S.S.	Brampton, ON
Melanson	Michael	Waterloo C.I.	Waterloo, ON
Mistry	Sandeep	Sir Robert Borden H.S.	Nepean, ON
Modir Shanechi	Amirali	Don Mills C.I.	Don Mills, ON
Mohammed	Husni	Cedarbrae C.I.	Scarborough, ON
Monkman	Eric	Oakville Trafalgar H.S.	Oakville, ON
Montano	Michael	Hillfield-Strathallan College	Hamilton, ON
Moure	Troy	Pigeon Lake Reg. H.S.	Falun, AB
Ng	Arnold	Unionville H.S.	Unionville, ON
Nolan	Kennedy	Hillfield-Strathallan College	Hamilton, ON
Owen	Natalie	St. Francis Xavier S.S.	Mississauga, ON
Pajek	Daniel	St. Jean De Brebeuf	Hamilton, ON
Pang	Tricia	Crofton House School	Vancouver, BC
Parker	Zenon	Banting Memorial H.S.	Alliston, ON
Patterson	Josh	Forest Heights C.I.	Kitchener, ON
Patterson	Mark	Crescent School	Willowdale, ON
Plask On	Tom	North Park C.I.	Brantford, ON
Purohit	ABhishek	Hillfield-Strathallan College	Hamilton, ON
Putz	Bill	West Hill S.S.	Owen Sound, ON
Raiha	Davin	Marshall McLuhan Cath. S.S.	Toronto, ON
Richter	Robert	Ancaster H.S.	Ancaster, ON
Rizwan	Wasay	Cedarbrae C.I.	Scarborough, ON
Rodionov	Alexandr	Don Mills C.I.	Don Mills, ON
Roper	David	St. George's School	Vancouver, BC
Rosselet	Andrew	Woburn Collegiate Institute	Toronto, ON
Rowan	James	Streetsville S.S.	Mississauga, ON
Rustgi	Vipul	Woburn Collegiate Institute	Toronto, ON
Sanders	Joe	Iona C.S.S.	Mississauga, ON
Scherkus	Andrew	Oakville Trafalgar H.S.	Oakville, ON

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

Schierholtz	Tyler	Kitchener-Waterloo C.I.&V.I.	Kitchener, ON
Schonberger	Andrei	Victoria Park S.S.	North York, ON
Shih	Richard	Richmond Hill H.S.	Richmond Hill, ON
Simmons	Stephanie	Grand River C.I.	Kitchener, ON
Siniakov	Alexei	Northview Heights S.S.	North York, ON
Smith	Steven	Bishop Ryan School	Hamilton, ON
Solecki	Ian	Owen Sound C.V.I.	Owen Sound, ON
Soltani	Nima	Waterloo C.I.	Waterloo, ON
Stark Ey	Tessa	Oakville Trafalgar H.S.	Oakville, ON
Subryan	Trevor	Brother Andre C.H.S.	Markham, ON
Suffling	Dave	Kitchener-Waterloo C.I.&V.I.	Kitchener, ON
Sufrin	Jonathan	Lawrence Park C.I.	Toronto, ON
Sun	Dennis	Erindale S.S.	Mississauga, ON
Tan	Anthony	Eric Hamber S.S.	Vancouver, BC
Taylor	Dan	Southwood S.S.	Cambridge, ON
Taylor	Michael	Hillfield-Strathallan College	Hamilton, ON
Telfer	Adam	Bluevale C.I.	Waterloo, ON
Tertulaa	Danielle	Cardinal Newman C.S.S.	Stoney Creek, ON
Tham	Matthew	Milliken Mills H.S.	Unionville, ON
Tong	Kuo Bao	Richview C.I.	Etobicoke, ON
Toth	Andrew	Richview C.I.	Etobicoke, ON
Tran	Eric	Aurora High School	Aurora, ON
Tribou	Michael	Courtice S.S.	Courtice, ON
Vafiades	Nick	Catholic Central H.S.	London, ON
Vallier	Tommy	Kingston C.V.I.	Kingston, ON
Wagner	Andrew	Grand River C.I.	Kitchener, ON
Wolfe	Jo	Thornhill S.S.	Thornhill, ON
Wu	Margaret	Havergal College	Toronto, ON
Yong Set	Chris	Dr. Norman Bethune C.I.	Scarborough, ON
Zaman	Adeel	Saugeen D.S.S.	Port Elgin, ON
Zenger	Geoffrey	Burnaby South S.S.	Burnaby, BC
Zhang	Baosen	Waterloo C.I.	Waterloo, ON

Problem Averages

Moyenne par problèmes

Problem	Junior (all)	Junior (non-zero)	Senior (all)	Senior (non-zero)
J1	12.6	13.7	----	----
J2	9.0	11.3	----	----
J3S1	12.1	13.8	13.3	14.0
J4S2	3.1	8.6	5.9	9.7
J5S3	0.5	7.5	0.7	2.3
S4	----	----	2.2	5.4
S5	----	----	0.7	6.8

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 1251 Senior Division competitors and 642 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	49	120	26	463	75	1	45	87	22	562
74	4	48	125	25	467	72	3	44	94	21	585
72	6	47	129	24	474	70	5	43	107	20	625
71	7	46	135	23	481	69	7	42	116	19	656
69	9	45	147	22	485	66	8	41	122	18	679
68	12	44	194	21	489	65	11	40	128	17	698
66	15	43	206	20	493	64	12	39	133	16	730
65	16	42	215	19	500	63	13	38	138	15	750
64	19	41	243	18	502	61	14	37	146	14	971
63	21	40	263	17	512	60	15	36	156	13	1044
62	22	39	268	16	516	58	17	35	158	12	1097
61	23	38	295	15	522	57	19	34	168	11	1118
60	24	37	307	14	540	56	24	33	185	10	1128
59	33	36	314	13	549	55	29	32	201		
58	37	35	338	12	555	54	32	31	227		
57	41	34	349	11	565	53	36	30	249		
56	50	33	359	10	567	52	40	29	283		
55	57	32	370			51	46	28	330		
54	71	31	374			50	51	27	357		
53	80	30	379			49	62	26	406		
52	92	29	420			48	65	25	447		
51	97	28	437			47	72	24	500		
50	109	27	445			46	81	23	535		

2003 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

Derek Kisman
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