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Proposers - individuals

Muhammad Afifurrahman, Institut Teknologi Bandung, Bandung, Indonesia	4764
George Apostolopoulos, Messolonghi, Greece	4767
Michel Bataille, Rouen, France	4751, 4761
Mihaela Berindeanu, Bucharest, Romania	4768, 4754
Boris Čolaković, Belgrade, Serbia	4759, 4770
Goran Conar, Varaždin, Croatia	4760
Didier Pinchon, Toulouse, France	4762
Luu Dong, Hanoi University of Education Hanoi, Vietnam	4753
J. Chris Fisher, University of Regina, SK, Canada	4757
Hoang Long Le, HSGS-HUS High School for Gifted Students, Hanoi, Vietnam	4766
Tien Lam Nguyen, Vietnam National University, Hanoi, Vietnam	4755, 4769
Daniel Sitaru, Drobeta Turnu Severin, Romania	4756
Sonebi Omar, Lycee Technique, Settat, Morocco	4765
George Stoica, Saint John, NB, Canada	4752
Florentin Vişescu, C. N. Mihai Eminescu, Bucureşti, Romania	4758
William Weakley, Purdue University, Fort Wayne, IN, USA	4763

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Tiago Alegria, Santa Maria da Feira, Portugal	4755
Miguel Amengual Covas, Cala Figuera, Mallorca, Spain	MA183
Florică Anastase, Alexandru Odobescu High School, Lehliu-Gară, Romania	OC595
George Apostolopoulos, Messolonghi, Greece	4767
Šefket Arslanagić, University of Sarajevo, Bosnia and Herzegovina	4770, MA177, MA179, MA180, MA183, MA184, MA185
Mohammad Bakkar, Tishreen University, Latakia, Syria	4755, 4768
Bahar Balalzade, Ahwaz, Iran	MA182, MA183, MA184, MA185
Roy Barbara, Lebanese University, Fanar, Lebanon	4754, 4755, 4763, OC588
Amit Kumar Basistha, Anundoram Borooah Academy, Pathsala, India	4755, 4756, OC591
Michel Bataille, Rouen, France	4751, 4752, 4754, 4755, 4756, 4757, 4758, 4761, 4762, 4764, 4766, 4767, 4768, OC593
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Scott Brown, Montgomery, AL, USA	MA177, MA179 , MA184
Ho Long Choi	MA183
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Goran Conar, Varaždin, Croatia	4756, 4760
Prithwjit De, Homi Bhabha Centre for Science Education, Mumbai, India	4754, 4755, 4764, 4769 , MA178, MA180, OC593
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Soham Dutta, Kolkata, India	MA176
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Antonio Garcia, France	4768
Oliver Geupel, Brühl, NRW, Germany	4755 , 4760 , 4761 , 4762, 4764, 4765, 4769, OC586, OC588 , OC591, OC592 , OC593, OC594, OC595
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Nuray Ismayilli, ADA University, Baku, Azerbaijan	OC593
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Corneliu Manescu-Avram, Ploiesti, Romania	MA177 , MA178, MA179, MA180, MA183, MA185, OC588, OC589, OC595
Arkan Manva, Mumbai, India	4764, 4769, OC587, OC590

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Byungjun Lee, Seoul, South Korea	4789
Aravind Mahadevan, Hong Kong	4790
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Hung Nguyen Viet, Hanoi University of Science, Vietnam	4776
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Amit Kumar Basistha, Anundoram Borooah Academy, Pathsala, India	4776, 4778, OC598, OC600
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Eugen Ionascu, Columbus State University, Columbus, GA, USA	4772, 4777, 4782
Walther Janous, Innsbruck, Austria	4772 , 4773, 4774, 4775 , 4776, 4777, 4781 , 4782, 4783 , 4784, 4786, 4787, 4788
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Parviz Khalili, Newport News, VA, USA	4774, 4784, 4786, 4787
Theo Koupelis, Broward College, FL, USA	4771 , 4772 , 4773, 4774, 4776, 4777, 4779, 4780, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, OC596, OC603 , OC605
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Vivek Mehra, Mumbai, India	4773, 4774, 4776, (2 solutions)
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Albert Natian, Los Angeles Valley College, Valley Glen, CA, USA	4788
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Toyesh Sharma, St. C.F Andrews School, Agra, India	4787
Vishak Srikanth, Stanford Online High School, Sunnyvale, CA, USA	MA191, MA193, MA195
Sen Stewart, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia	4787, 4788, 4790
George Stoica, Saint John, NB, Canada	4773
Vasile Teodorovici, Ottawa, ON, Canada	4784, MA195
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Hyunbin Yoo, South Korea	4776, S002, S003, S004
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Yunyong Zhang, Bridgewater, USA	4787 , 4788, 4790 (2 solutions)
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Mingshen Zong, Lillian Osborne High School, Edmonton, AB, Canada	MA190, MA195
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UCLan Cyprus Problem Solving Group, Pyla, Cyprus	4771, 4772 , 4773, 4774, 4776, 4777, 4778, 4779, 4781, 4782 , 4783 , 4784, 4785, 4786, 4787, 4788, 4790, OC596, OC597 , OC598 , OC599, OC600, OC601, OC602 , OC603, OC604

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Goran Conar, Varaždin, Croatia	4797
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Ovidiu Furdui, Technical University of Cluj-Napoca, Romania	4799
Abhishek Jha, Indraprastha Institute of Information Technology, New Delhi, India	4794
Corneliu Manescu-Avram, Ploiesti, Romania	4793
Arkan Manva, Mumbai, India	4802
Hung Nguyen Viet, Hanoi University of Science, Vietnam	4803
Daniel Sitaru, Drobeta Turnu Severin, Romania	4809, 4810
George Stoica, Saint John, NB, Canada	4791, 4808
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Antonio Garcia, France	4797
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Xinyao Lee, Chongqing, China	OC606, OC610
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Corneliu Manescu-Avram, Ploiesti, Romania	4795, 4797, MA199, MA200, MA201, MA203, MA204, OC606, OC608, OC611, OC615
Arkan Manva, Mumbai, India	4802
Miranda Marcilio, Univasf, Teresina, Piaui, Brazil	MA201, MA204
Liam Mauck, California State Polytechnic University, Pomona, CA, USA	4797 4722
Vivek Mehra, Mumbai, India	4792, 4797 (4 solutions), 4801, 4803, 4808, 4810 (2 solutions), OC606, OC608 (3 solutions), OC612
Georges Melki, Baabdat, Lebanon	4797 (2 solutions), OC612
Madhav R. Modak, formerly of Sir Parashurambhau College, Pune, India	4792
Raz Naot, Eshchar, Israel	OC606, OC607
Daksh Pandey, Army Public School, Jaipur, India	MA202
Tejash Patel, Patan, India	MA204
Paolo Perfetti, Dipartimento di Matematica, Università degli studi di Tor Vergata Roma, Rome, Italy	4797, 4799, 4805, 4810 , OC608
Ángel Plaza, University of Las Palmas de Gran Canaria, Spain	4797

C.R. Pranesachar, Indian Institute of Science, Bangalore, India	4792, 4795, 4797, 4798, 4799, 4800, 4804, 4806, 4808 , OC606, OC608, OC610, OC611, OC615
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Henry Ricardo, Tappan, NY, USA	4797, 4799, MA198, MA199, MA204
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Vishwesh Shrimali, India	4797, MA197 , MA199, MA200, MA201, MA202, MA203, MA204, MA205, OC606, OC607
Pankaj Sinha, India	MA199,
Daniel Sitaru, Drobeta Turnu Severin, Romania	4809, 4810
Trey Smith, Angelo State University, San Angelo, TX, USA	4794, 4797
Muralidharan Somasundaram, Coimbatore, India	4797, OC607
Sean M. Stewart, Bomaderry, Australia	4799
George Stoica, Saint John, NB, Canada	4808
Sabir Suleymanli, Azerbaijan Diplomatic Academy, Baku, Azerbaijan	4803
Vasile Teodorovici, Ottawa, ON, Canada	4806, OC606, OC607, OC615
Daniel Văcaru, National Economical College Maria Teiuleanu, Pitești, Romania	4797, MA201, OC606
Matteo Vitali, Polytechnic of Milan, Bergamo, Italy	MA204
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UCLan Cyprus Problem Solving Group, Pyla, Cyprus	4792, 4793 , 4794 , 4795, 4797, 4799, 4800 , 4801 , 4802 , 4804, 4805, 4806, 4808, 4810 , OC606 , OC607 , OC608 , OC609 , OC610 , OC611, OC612, OC614, OC615

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Mihaela Berindeanu, Bucharest, Romania	4814
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Goran Conar, Varaždin, Croatia	4817, 4830
Friday Michael, Toronto, Canada	4823
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Aravind Mahadevan, Hong Kong	4815
Corneliu Manescu-Avram, Ploiesti, Romania	4821
Anton Mosunov, University of Waterloo, Canada	4822
Hung Nguyen Viet, Hanoi University of Science, Vietnam	4811
Mihai Prunescu, University of Bucharest, Romania	4813
George-Florin Șerban, D.P. Perpessicius National Pedagogical College, Brăila, Romania	4824
Daniel Sitaru, Drobeta Turnu Severin, Romania	4819

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Šefket Arslanagić, University of Sarajevo, Bosnia and Herzegovina	MA208
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Roy Barbara, Lebanese University, Fanar, Lebanon	4811, 4813, 4820, 4821, 4824, 4827, OC619, OC621, OC625
Michel Bataille, Rouen, France	4811, 4812 , 4814 , 4815, 4817, 4818, 4819 , 4820, 4822 , 4823, 4825, 4826, 4827, 4828 , 4829, 4830 , OC619 , OC620
Brian D. Beasley, Presbyterian College, Clinton, SC, USA	4811, 4824
Mihaela Berindeanu, Bucharest, Romania	4814
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Brian Bradie, Christopher Newport University, VA, USA	4817, 4825 , 4826, 4828, MA207, MA208, MA215, OC621
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Darío Fernández-Pello Lois, Asturias, Spain	OC621
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Oliver Geupel, Brühl, NRW, Germany	4811, 4812 , 4816, 4817, 4819 , 4820, 4823, 4830, OC616, OC618 , OC623, OC624
G. C. Greubel, Newport News, VA, USA	4811, 4825 , 4826, MA208
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Ivan Hadinata, Senior High School 1 Jember, Jember, Indonesia	4811, 4813, 4814 , 4817 , 4818 , 4819 , 4820, 4825, 4826, 4827, 4828, MA207, MA208, MA210 , MA213, MA214 , MA215, OC616 , OC619, OC620, OC621
Richard Hess, Rancho Palos Verdes, CA, USA	4811, 4813, 4820, 4825, MA206 , MA207, MA208, MA209 , MA210, MA212, MA213, MA215
Hung Nguyen Viet, Hanoi University of Science, Vietnam	4811
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Walther Janous, Innsbruck, Austria	4811, 4812, 4813, 4814, 4815, 4817, 4818, 4820, 4821, 4825 , 4826, 4828, 4829, 4830

Bing Jian, San Jose, CA, USA	MA215
Shounak Kar, The Scottish Church Collegiate School, Kolkata, India	4814, OC619
Rahima Karimova, ADA University, Baku, Azerbaijan	4825
Parviz Khalili, Newport News, VA, USA	4814, 4818, 4820
Theo Koupelis, Broward College, FL, USA	4811, 4812, 4813, 4814 , 4815, 4816, 4817, 4818, 4819 , 4820, 4822 , 4823, 4824, 4826, 4827, 4828, 4829, 4830 , OC616, OC617, OC619, OC620 , OC621, OC623, OC625
Kee-Wai Lau, Hong Kong, China	4814, 4817, 4826, 4827
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Todorov Lyubomir, Stara Zagora	4812
Aravind Mahadevan, Hong Kong	4814, 4815, 4820, MA206, MA207, MA208, MA213 , OC616, OC620, OC621
Corneliu Manescu-Avram, Ploiesti, Romania	4821, MA215 , OC621
Liam Mauck, California State Polytechnic University, Pomona, CA, USA	4815
Vivek Mehra, Mumbai, India	4813, 4812 , 4815 (2 solutions), 4817, OC621, OC625,
Georges Melki, Baabdat, Lebanon	4811, 4813, 4815, 4827
Madhav R. Modak, formerly of Sir Parashurambhau College, Pune, India	4814, 4820
Anton Mosunov, University of Waterloo, Canada	4822
Yahya Nasri, Madariss Maria Témara, Morocco	MA215, OC621

Ayomide Olumide-Attah, Lagos, Nigeria	OC621
Sonebi Omar, Lycee Technique, Settat, Morocco	4811, OC619
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C.R. Pranesachar, Indian Institute of Science, Bangalore, India	4811 , 4812, 4813, 4814 , 4815, 4817, 4818, 4820 , 4823, 4824, 4825 , 4826, 4827, 4828, 4829, OC616, OC618, OC619, OC620, OC621
Mihai Prunescu, University of Bucharest, Romania	4813
Cao Minh Quang, Nguyen Binh Khiem High School, Vietnam	4815, 4817, 4827
Muralidhar Rao, The Learning Center Pre University College, Mangalore, India (student)	OC620
Peiró i Estruch Ricard, València, Spain	MA215
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Pablo Sáez, IES Núñez de Arce, Valladolid, Spain	OC621
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Cristóbal Sánchez-Rubio, I.B. Penyagolosa, Castellón, Spain	4814
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Daniel Sitaru, Drobeta Turnu Severin, Romania	4819
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Vasile Teodorovici, Ottawa, ON, Canada	OC620
Daniel Văcaru, National Economical College Maria Teiuleanu, Pitești, Romania	4812 , 4815, 4817, MA207, MA208, MA210 , MA211 , MA215, OC621

Lienhard Wimmer, Nta, Isny, Germany	4814, 4817, 4818, 4829
Alex Yang, Dr. Margaret-Ann Armour School, Edmonton, AB, Canada	MA207 (3 solutions)
Konstantine Zelator, University of Pittsburgh, Pittsburgh, PA, USA	MA207, MA208
Yunyong Zhang, Bridgewater, USA	4822, 4825 , 4826
Mingshen Zong, Lillian Osborne High School, Edmonton, AB, Canada	MA208
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NUM Problem Solving Group, Ulaanbaatar, Mongolia	4826, 4827, 4830
Eagle Problem Solvers, Georgia Southern University, Statesboro, GA, USA	4811, 4812, 4813 , 4817, 4820, 4824
Giotas Orfeas-Dimitrios, Papafragkas Ioannis, Skias Antonios-Michail, 1st Model High School of Chalkida, Chalkida, Greece	MA206
Raymond Mortini, Université de Lorraine, Metz, France Rudolf Rupp, Nurnberg, Germany	4811, 4816 , 4817, 4819, 4822, 4825 , 4826, 4828, 4830
Missouri State University Problem Solving Group, Springfield, MO, USA	4822, 4825 , 4826, 4828, OC620
π rates of change, Newark Academy, Livingston, NJ, USA	MA211, MA212
UCLan Cyprus Problem Solving Group,	

Pyla, Cyprus

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4821, **4822**, **4823**, **4824**, **4825**, 4826, 4827, 4828,
4829, 4830, OC616, **OC617**, **OC618**, OC619,
OC620, OC621, OC623, **OC624**

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Ivan Hadinata, Senior High School 1 Jember, Jember, Indonesia	4882, 4896
Aravind Mahadevan, Hong Kong	4886, 4899
Dong Luu, Hanoi University of Education Hanoi, Vietnam	4892
Pericles Papadopoulos, Athens, Greece	4885
Daniel Sitaru, Drobeta Turnu Severin, Romania	4900
Hung Nguyen Viet, Hanoi University of Science, Vietnam	4887
Arsalan Wares, Valdosta State University, Valdosta, USA	4888

Proposers - collaborations

Ovidiu Furduliu and Alina Sintamarian, Technical University of Cluj-Napoca, Romania	4889, 4894
Shawn Godin, Ottawa, Canada, J. Chris Fisher, Cleveland Heights, USA	4895

Solvers - individuals

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Zahra Abdulova, Azerbaijan	OC635
Devis Alvarado, Tegucigalpa, Honduras	4836, 4838, 4841, 4844
George Apostolopoulos, Messolonghi, Greece	4837
Mohammad Bakkar, Tishreen University, Latakia, Syria	4836, 4838
Mihika Bansal, Sega Math Academy, Belmont, California	MA216 (2 solutions)
Roy Barbara, Lebanese University, Fanar, Lebanon	4831 , 4837, 4847, OC626, OC627 , OC628, OC630, OC634, OC634
Michel Bataille, Rouen, France	4831 , 4832 , 4833, 4834 , 4835, 4836 , 4838, 4841, 4842 , 4846, 4849, OC631, OC632 , OC633, OC634, OC635
Brian D. Beasley, Presbyterian College, Clinton, SC, USA	4838, 4847, 4849
Mihaela Berindeanu, Bucharest, Romania	4833, 4842
Soham Bhadra, Patha Bhavan, Kolkata, India	4833, 4835, MA216 , OC626, OC630,
Paul Bracken, Edinburg, TX, USA	4838
Brian Bradie, Christopher Newport University, VA, USA	4832 , 4838, MA216 , MA219 , MA220
Benjamin Braiman University of Wisconsin - Madison, Madison, WI, USA	4836
Vasile Cirtoaje, University of Ploiesti, Ploiesti, Romania	4843
Goran Conar, Varaždin, Croatia	4831
Srijan Dasgupta, Jadavpur University, Kolkata, India	OC626, OC628
Prithwijiit De, Homi Bhabha Centre for Science Education, Mumbai, India	4833, 4838, 4841, 4842, 4846, OC635
Daniel Sitaru, Drobeta Turnu Severin, Romania	4838, 4849
Swastika Dey, Indian Statistical Institute, Kolkata, India	4838, OC626

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Xavier Duran Jordà,	MA222
Ming-Can Fan, Huizhou University, China	4833 , 4837, 4838
Giuseppe Fera, Vicenza, Italy	OC632
Rishon Fernandes, Centre for Advanced Learning, Mangalore, India	MA216, MA217 , MA219 , MA220 , OC627, OC628, OC631
Michael Friday, Toronto, Canada	4834
Antonio Garcia, France	4848, OC635
Oliver Geupel, Brühl, NRW, Germany	4833, 4837 , 4842, OC628, OC633 , OC635, S7, S8
Marie-Nicole Gras, Le Bourg d'Oisans, France	4831 , 4832 , 4833, 4834 , 4835, 4837, 4841, 4842, 4845, 4846, 4849
Ivan Hadinata, Senior High School 1 Jember, Jember, Indonesia	4845, 4846, 4847
Richard Hess, Rancho Palos Verdes, CA, USA	MA216, MA217, MA218 , MA219 , MA220, MA221, MA222, MA223, OC626, OC627, OC628, OC629
Vitthal Ingle, India	4841, MA224
Walther Janous, Innsbruck, Austria	4831 , 4832 , 4833, 4835, 4836, 4837, 4838, 4841, 4842, 4844, 4845, 4846, 4847
Bing Jiang, San Jose, CA, USA	4837, 4841, 4842, 4846, 4847, 4849, OC631, OC632, OC633, OC634, OC635, MA220 (3 so- lutions)
Catherine Jian, San Jose, CA, USA	MA217, MA224 , MA225
Shounak Kar, The Scottish Church Collegiate School, Kolkata, India	4838

Parviz Khalili, Newport News, VA, USA	4841, 4842
Theo Koupelis, Broward College, FL, USA	4833, 4834, 4835, 4836 , 4837, 4838, 4839, 4840 , 4841, 4842, 4844, 4845, 4846, 4847, 4848 , 4849, OC631 , OC632, OC633, OC634 , OC635
Chayan Kr Mandal, Malda, India	MA221, MA224
Bogdan Lataianu, Canada	4848
Kee-Wai Lau, Hong Kong, China	4838, 4839, 4841, 4846, 4848, 4849
Byungjun Lee, Seoul, South Korea	4839
Isabella Li, Thornton Jr. High School, Fremont, CA, USA	4849, MA216, MA219
Jingxiang Luo, Access Academy, Calgary, Canada	4836
Connor MacMahon, Michigan State University, USA	OC635
Aravind Mahadevan, Hong Kong	4834, 4835, 4838, 4841, 4846, 4849, MA216 , MA217, MA219 , MA220, MA221, MA222, MA223, OC628, OC632
Shreya Mahendran, Monte Vista Middle School, Tracy, California	MA216, MA217
Corneliu Manescu-Avram, Ploiesti, Romania	4841, MA216 , MA219 , MA221, MA223, MA224 , OC631, OC632
Vivek Mehra, Mumbai, India	4834 (3 solutions), 4835, 4837 (3 solutions), 4841, 4842, 4843, 4846 (2 solutions), 4847, 4848 (3 solu- tions), 4850, OC628, OC632 (3 solutions), OC634, OC635 (2 solutions)
Ayomide Olumide-Attah, Lagos	4831
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Tejash Patel, Patan, India	MA216, MA219 , MA223, MA224
Lauren Patrao, Centre for Advanced Learning, Mangalore, India	MA216, MA217, MA218 , MA219 , MA220
Chau Phan Ng?c, , Ho Chi Minh University of Science, Viet Nam	4840
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Peiró i Estruch Ricard, València, Spain	MA219 , MA220
Henry Ricardo, Tappan, NY, USA	4835, 4838, MA219 , MA223 , OC635
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Riddhiman Sengupta	4846
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Daniel Văcaru, National Economical College Maria Teiuleanu, Pitești, Romania	4841, MA216, MA219 , MA222 , MA223, OC635
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Konstantine Zelator, University of Pittsburgh, Pittsburgh, PA, USA	MA219 , MA220, MA224 , OC634
Amy Zhai, Dr. Margaret-Ann Armour School, Edmonton, Canada	MA219
Yunyong Zhang, Bridgewater, USA	4836, 4838
Titu Zvonaru, Comănești, Romania	OC635
Maria Pia Zotti Pisa, Italy	MA216

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Raymond Mortini, Université de Lorraine, Metz, France Rudolf Rupp, Nurnberg, Germany	4835 , 4836, 4844, 4850
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