



ICPC FACT SHEET – 9 May 2017

The 41st Annual World Finals of the ACM International Collegiate Programming Contest (ICPC) Sponsored by IBM

Hosted by Excellence in Computer Programming
in Rapid City, South Dakota, USA, 20-25 May 2017

About the Contest – acmicpc.org, also icpc.baylor.edu

The ACM International Collegiate Programming Contest (ICPC) is the premiere global programming competition conducted by and for the world's universities. The competition operates under the auspices of ACM, is sponsored by IBM, and is headquartered at Baylor University. For nearly four decades, the ICPC has grown to be a game-changing global competitive educational program that has raised aspirations and performance of generations of the world's problem solvers in the computing sciences and engineering.

Teams of three students represent their universities in multiple levels of regional competition. Volunteer coaches prepare their teams with intense training and instruction in algorithms, programming, and teamwork strategy. Several ICPC universities and ICPC volunteers provide online judging systems to all free of charge. Top teams from regional competition advance to the final round. This year's regional competitions will advance 133 teams to the World Championship round - the 2017 ACM-ICPC World Finals sponsored by IBM and hosted by Excellence in Computer Programming – which will be conducted on 24 May, 2017 in Rapid City, South Dakota, USA.

The ICPC traces its roots to a competition held at Texas A&M in 1970 hosted by the Alpha Chapter of the UPE Computer Science Honor Society. The idea quickly gained popularity within the United States and Canada as an innovative initiative to raise the aspirations, performance, and opportunity of the top students in the emerging field of computer science.

The contest evolved into a multi-tier competition with the first Finals held at the ACM Computer Science Conference in 1977. Operating under the auspices of ACM and headquartered at Baylor University since 1989, the contest has expanded into a global network of universities hosting regional competitions that advance teams to the ACM-ICPC World Finals.

Since IBM became sponsor in 1997, ICPC participation has increased by more than 2000%. This year ICPC Regional participation included 46,381 of the finest students and faculty in computing disciplines from 2,948 universities in 103 countries on six continents. A record 50,145 students and 5,073 coaches competed in ICPC and ICPC-assisted competitions this year, setting new records in participation.

The contest fosters creativity, teamwork, and innovation in building new software programs, and enables students to test their ability to perform under pressure. Quite simply, it is the oldest, largest, and most prestigious programming contest in the world.

The annual event is comprised of several levels of competition:

- Local Contests – Universities choose teams or hold local contests to select one or more teams to represent them at the next level of competition. Selection takes place from a field of over 300,000 students in computing disciplines worldwide.
- Regional Contests (January to December 2016) – This year 46,381 contestants from 2,948 universities in 103 countries on six continents competed at over 530 sites to advance to the 2017 World Finals.
- World Finals (20-25 May, 2017, Rapid City, South Dakota, USA) – Hosted by Excellence in Computer Programming, one hundred and thirty-three World Finalist teams will compete for awards, prizes, and bragging rights. These teams represent the best of great universities on six continents - the cream of the crop.

Battle of the Brains

The contest pits teams of three university students against eight or more complex, real-world problems, with a grueling five-hour deadline. Huddled around a single computer, competitors race against the clock in a battle of logic, strategy, and mental endurance.

Teammates collaborate to rank the difficulty of the problems, deduce the requirements, design test beds, and build software systems that solve the problems under the intense scrutiny of expert judges. For a well-versed computer science student, some of the problems require precision only. Others require a knowledge and understanding of advanced algorithms. Still others are simply too hard to solve – except, of course, for the world’s brightest problem-solvers.

Judging is relentlessly strict. The students are given a problem statement – not a requirements document. They are given an example of test data, but they do not have access to the judges’ test data and acceptance criteria. Each incorrect solution submitted is assessed a time penalty. You don’t want to waste your customer’s time when you are dealing with the supreme court of computing. The team that solves the most problems in the fewest attempts in the least cumulative time is declared the winner.

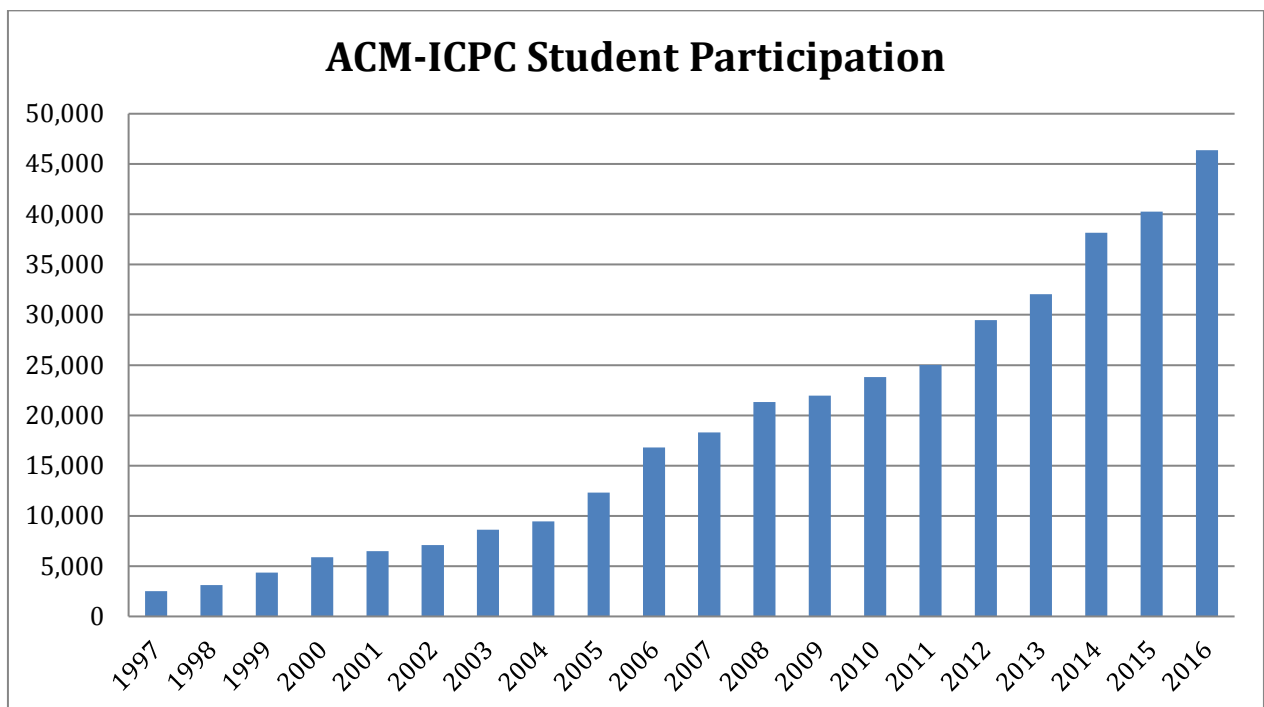
To learn more about the ICPC, please visit icpc.baylor.edu or acmicpc.org.

For full coverage of the World Finals including social media, photos, video, live coverage, and live scoreboard go to ICPCNews, icpcnews.com.

Visit the ICPC podcast series at battleofthebrains.podbean.com for insights from ICPC alumni and IBM executives.

Contest Growth

ACM, IBM, UPE, and Baylor University are thrilled that the contest continues to attract the best and brightest students from around the world. This year 46,381 contestants from 2,948 universities in 103 countries competed in regional competitions at over 530 sites worldwide. The ICPC student participation has increase by 20X in 20 years. For more information on previous contests, and last year’s final standings and problem sets, please see icpc.baylor.edu.



World Finals 2017 hosted in Rapid City – the final round following the 2016 Regionals

One hundred and thirty-three teams from regional contests servicing universities worldwide will advance to the World Finals to be held in Rapid City, South Dakota, USA, 20-25 May, 2017. The 2017 World Finals is hosted by Excellence in Computer Programming.

Recent medal winners in order of finish are:

- 2016 Gold St. Petersburg State University (Russia)
Shanghai Jiao Tong University (China)
Harvard University (USA)
Moscow Institute of Physics & Technology (Russia)
- Silver University of Warsaw (Poland)
Massachusetts Institute of Technology (USA)
St. Petersburg National Research University ITMO (Russia)
Ural Federal University (Russia)
- Bronze University of Wroclaw (Poland)
Nizhny Novgorod State University (Russia)
Lviv National University (Ukraine)
Fudan University (China)
University of Waterloo (Canada)
- 2015 Gold St. Petersburg National Research University ITMO (Russia)
Moscow State University (Russia)
The University of Tokyo (Japan)
Tsinghua University (China)
- 2014 Gold St. Petersburg State University (Russia)
Moscow State University (Russia)
Peking University (China)
National Taiwan University (Taiwan)
- 2013 Gold St. Petersburg National Research University ITMO (Russia)
Shanghai Jiao Tong University (China)
The University of Tokyo (Japan)
National Taiwan University (Taiwan)
- 2012 Gold St. Petersburg National Research University ITMO (Russia)
University of Warsaw (Poland)
Moscow Institute of Physics & Technology (Russia)
Shanghai Jiao Tong University (China)
- 2011 Gold Zhejiang University (China)
University of Michigan at Ann Arbor (USA)
Tsinghua University (China)
St. Petersburg State University (Russia)

About ACM

ACM, the Association for Computing Machinery, with more than 100,000 members, is the world's largest educational and scientific computing society, uniting computing educators, researchers, professionals, and students to inspire dialogue, share resources, and address the field's challenges. ACM strengthens the computing profession's collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking. For more information, see acm.org.

About IBM

IBM is a globally integrated technology and consulting company. With operations in more than 170 countries, IBM attracts and retains some of the world's most talented people to help solve problems and provide an edge for businesses, governments, and non-profits. Innovation is at the core of IBM's strategy. The company develops and sells software and systems hardware and a broad range of infrastructure, focusing on growth initiatives such as cognitive computing, cloud computing, big data and analytics, mobile, social business, and security. For more information, visit ibm.com.

About Excellence in Computer Programming (ECP)

The ECP champions a culture of excellence by integrating the capabilities of the host partners of South Dakota. Host partners who are the leaders of industry and government are providing the personnel and financial resources for the 2017 World Finals. Rapid City is the home of the South Dakota School of Mines and Technology (SDSMT), the engineering and science research university of South Dakota. SDSMT is a research partner of the 8000-foot-deep Sanford Underground Research Facility (SURF), the world's newest laboratory for the study of neutrinos and dark matter which is located in Lead, South Dakota. ECP is a non-profit corporation dedicated to providing an environment in which people of all ages and ability levels can develop their coding expertise through individualized study, extracurricular activities, and participation in competitive programming.

IBM's Commitment

IBM's sponsorship commitment to the ACM International Collegiate Programming Contest is part of a company-wide effort to advance the next generation of technology leaders and problem solvers who have combined skills of computing science and business management. For more information, visit ibm.com/university.

Baylor University's Commitment

Baylor University has been the home of the ICPC since the late 1980s, where it has been managed under the direction of Executive Director and Professor, Dr. William B. Poucher, with global enterprise technology development headed by Dr. Jeff Donahoo, Deputy Executive Director. The ICPC contributes to Baylor's global mission to encourage the next generation to develop and apply their problem-solving talents to the challenges that face the world today and the world to come. Chartered by the Republic of Texas, Baylor is the oldest institution of higher learning in the State of Texas. You may find more about Baylor at baylor.edu.

Upsilon Pi Epsilon's Commitment

The Upsilon Pi Epsilon International Computer Science Honor Society recognizes the best students of computer science and engineering in the world. Since its earliest participation, the UPE has provided support and scholarships to the World Finals teams. The UPE boasts the longest continuous relationship to the ICPC, dating back to 1970 with the first event held at Texas A&M by members of the Alpha Chapter of the UPE. For more information about other UPE activities, its chapters, and its membership click on: upe.acm.org.

2017 World Finalists – 133 teams

Africa and the Middle East

Al-Baath University http://www.albaath-univ.edu.sy Team name: NoNameFoundException	Arab Academy for Science and Technology (Alexandria) http://www.aast.edu Team name: DebugMyHair
Cairo University - Faculty of Computers and Information http://www.fci.cu.edu.eg Team name: s2++; Returns	Damascus University http://www.damascusuniversity.edu.sy Team name: Y!
Faculty of Computer and Information Sciences, Ain Shams University http://cis.shams.edu.eg Team name: TsukeenamiElRashidy	Faculty of Engineering (at Shoubra), Benha University http://www.febu.edu.eg Team name: The Unlooked-for
German University in Cairo http://met.guc.edu.eg Team name: balabizoo	The American University in Cairo http://www.cs.aucegypt.edu Team name: BitsPlease
Tishreen University http://www.tishreen.edu.sy Team name: NCD#1	University of Cape Town http://www.uct.ac.za Team name: If Cats Programmed Computers

Asia

Bangladesh University of Engineering and Technology http://www.buet.ac.bd Team name: BUET Rayo	Beihang University http://ev.buaa.edu.cn Team name: TDL
Beijing Institute of Technology http://www.bit.edu.cn Team name: BIT_Crocodile	Beijing Normal University http://www.bnu.edu.cn Team name: SaltyFish
Beijing University of Posts and Telecommunications http://www.bupt.edu.cn Team name: BUPT_Caicai_Musketeers	Bina Nusantara University http://www.binus.ac.id Team name: gungnir
Chennai Mathematical Institute http://www.cmi.ac.in Team name: thirdfloor	Chulalongkorn University http://www.chula.ac.th Team name: CPCU Debuggers
Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar http://www.daiict.ac.in Team name: FruitSalad	Fudan University http://www.fudan.edu.cn Team name: Wood Cube
Fuzhou University http://www.fzu.edu.cn Team name: _____	Hangzhou Dianzi University http://www.hdu.edu.cn Team name: HDU-SupportOrNot
Indian Institute of Technology - Bombay http://www.iitb.ac.in Team name: Rocket	Indian Institute of Technology - Indore http://www.iiti.ac.in Team name: Survivor
Indian Institute of Technology - Kanpur http://www.iitk.ac.in Team name: FacelessMen	International Institute of Information Technology - Bangalore http://www.iiitb.ac.in Team name: How you doing
International Institute of Information Technology - Hyderabad http://www.iiit.ac.in Team name: mobius_treap	Jahangirnagar University http://www.juniv.edu Team name: JU_Circavex
KAIST http://www.kaist.ac.kr Team name: hYEAHyea	Keio University http://www.keio.ac.jp Team name: Running
National Institute of Technology, Karnataka http://www.nitk.ac.in Team name: code_phoenix	National Taiwan University http://www.ntu.edu.tw Team name: AcThPaUNpPuAmCmBkCfEsFmMdNoLr
National University of Singapore	Northeastern University (China)

http://www.nus.edu.sg Team name: TeamTam	http://www.neu.edu.cn Team name: Three Retired Doge
Peking University http://www.pku.edu.cn Team name: Red Queen	Seoul National University http://www.snu.ac.kr Team name: ACGTeam
Shahid Beheshti University http://en.sbu.ac.ir Team name: Dog Nine	Shanghai Jiao Tong University http://www.sjtu.edu.cn Team name: New Meta
Shanghai University http://www.shu.edu.cn Team name: Wand Maker	Sharif University of Technology http://www.sharif.edu Team name: CrockPot
South China University of Technology http://www.scut.edu.cn Team name: doubility	The Chinese University of Hong Kong http://www.cse.cuhk.edu.hk Team name: The Descendant of Siuwah
The University of Tokyo http://www.u-tokyo.ac.jp Team name: Cxiv-Dxiv	Tokyo Institute of Technology http://www.titech.ac.jp Team name: po
Tsinghua University http://www.tsinghua.edu.cn Team name: Deep Dark Fantasy	Universitas Indonesia http://www.ui.ac.id Team name: Awrakin
University of Aizu http://www.u-aizu.ac.jp Team name: 575.cpp	University of Dhaka http://www.du.ac.bd Team name: DU_Censored
University of Electronic Science and Technology of China http://www.uestc.edu.cn Team name: UESTC_Life_and_Lemons	University of Engineering and Technology - VNU http://e.uet.vnu.edu.vn Team name: LINUX
University of Management and Technology http://umt.edu.pk Team name: The Stars	University of Tehran http://www.fos.ut.ac.ir Team name: NeshesTeam
University of the Philippines - Diliman http://upd.edu.ph Team name: Quiwarriors	Wuhan University http://www.whu.edu.cn Team name: pied piper
Zhejiang University http://www.zju.edu.cn Team name: Siunaus	

Europe

Belarusian State University of Informatics and Radioelectronics http://www.bsuir.by Team name: Belarusian SUIR #2	École Normale Supérieure de Paris http://www.ens.fr Team name: ENS Ulm
ETH Zürich http://www.ethz.ch Team name: rETHink again	Jagiellonian University in Krakow http://www.uj.edu.pl Team name: Jagiellonian
KTH - Royal Institute of Technology http://www.kth.se Team name: Omogen Heap	Lviv National University http://franko.lviv.ua Team name: LNU AlgoTesters
Moscow Institute of Physics & Technology http://www.mipt.ru Team name: Moscow IPT: Jinotega	Moscow State University http://msu.ru Team name: Moscow SU: Last Hope
National Research University Higher School of Economics http://www.hse.ru Team name: NRU HSE: Random Shuffle	Novosibirsk State University http://www.nsu.ru Team name: Novosibirsk SU
Perm State University http://www.psu.ru Team name: Perm SU: Indigenous	Petrozavodsk State University http://www.petsu.ru Team name: Petrozavodsk SU 1

POLITEHNICA University of Bucharest http://www.pub.ro Team name: TeamName	Samara National Research University http://en.ssau.ru Team name: Haters
Saratov State University http://sgu.ru Team name: Saratov State University 2	St. Petersburg Academic University http://www.spbau.ru Team name: SPb AU 3: Bandity
St. Petersburg ITMO University http://en.ifmo.ru Team name: SPb ITMO University 1	St. Petersburg State University http://eng.spbu.ru Team name: SPb SU Base
Taras Shevchenko National University of Kyiv http://www.univ.kiev.ua Team name: The Alphas	TOBB University of Economics and Technology http://www.etu.edu.tr Team name: LogicError
Tomsk Polytechnic University http://www.tpu.ru Team name: Tomsk PU 1	University of Bucharest http://www.unibuc.ro Team name: Echipa Lacheta
University of Helsinki http://www.helsinki.fi Team name: Game of Nolife	University of Latvia http://www.lu.lv Team name: LU 1
University of Oxford http://www.ox.ac.uk Team name: Catz CS Society	University of Warsaw http://www.uw.edu.pl Team name: Warsaw Eagles
University of Wroclaw http://www.uni.wroc.pl Team name: UWrl	University of Zagreb http://www.unizg.hr Team name: Zagreb
Ural Federal University http://www.ustu.ru Team name: Ural FU: Charmander	Uzhgorod National University http://www.uzhnu.edu.ua Team name: UzhNU_MagicalPony
Vilnius University http://www.vu.lt Team name: VU #1	Yerevan State University http://www.y-su.am Team name: Yerevan SU 1

Latin America

Facultad de Ciencias-Universidad Nacional Autónoma de México http://www.fcencias.unam.mx Team name: PU++	Instituto Tecnológico Autónomo de México http://www.itam.mx Team name: Los Románticos
Pontificia Universidad Católica del Perú - FCI http://www.pucp.edu.pe Team name: O(1) O(n) O(u(n))	Universidad Autónoma de Nuevo Leon http://www.uanl.mx Team name: Los A'S
Universidad de Buenos Aires - FCEN http://exactas.uba.ar Team name: PUMMAS	Universidad de Chile http://www.dcc.uchile.cl Team name: El equipo de Paulsen
Universidad de La Habana http://www.uh.cu Team name: UH++	Universidad de Pinar del Río http://www.upr.edu.cu Team name: sUrPRise
Universidade Estadual de Campinas http://www.ic.unicamp.br Team name: Veni Vidi Codi	Universidade Federal da Bahia http://www.ufba.br Team name: Robério e Seu Teclado
Universidade Federal de Campina Grande http://www.ufcg.edu.br Team name: !xor&!	Universidade Federal de Itajubá - Campus Itajubá http://www.unifei.edu.br Team name: Epic Sax Guys
Universidade Federal de Pernambuco http://www.cin.ufpe.br Team name: 0xE	Universidade Federal do Rio Grande do Norte http://www.ufrn.br Team name: Ginga com Tapioca

Universidad Mayor de San Simon - Sistemas http://www.umss.edu.bo Team name: team.getAnotherName()	Universidad Nacional de Colombia - Bogotá http://www.unal.edu.co Team name: UNBounded
Universidad Nacional de Córdoba - FaMAF http://www.famaf.unc.edu.ar Team name: Gracias Demetrio	Universidad Nacional de Rosario http://www.unr.edu.ar Team name: You've gone incognito :\$
Universidad Simón Bolívar http://www.usb.ve Team name: O(-1)	

North America

Cedarville University http://www.cedarville.edu Team name: Cedarville Blue	Cornell University http://www.cornell.edu Team name: Cornell 1
Iowa State University http://www.iastate.edu Team name: Team.getName()	Massachusetts Institute of Technology http://web.mit.edu Team name: MIT ONE
Mount Allison University http://www.mta.ca Team name: MTA Team Alpha	Northwestern University http://northwestern.edu Team name: WildWildCats
Princeton University http://www.princeton.edu Team name: Princeton	South Dakota School of Mines and Technology http://www.sdsmt.edu Team name: SDSMT Hardrockers
The University of South Dakota http://www.usd.edu Team name: Roadrunners	The University of Texas at Austin http://www.utexas.edu Team name: UT White
University of Alberta http://www.ualberta.ca Team name: Alberta Gold	University of British Columbia http://www.ubc.ca Team name: UBC*
University of California at Berkeley http://www.berkeley.edu Team name: Berkeley Blue	University of California Irvine http://www.uci.edu Team name: filter
University of California Los Angeles http://www.ucla.edu Team name: Bruins	University of Central Florida http://www.ucf.edu Team name: UCF Knights
University of Illinois at Urbana-Champaign http://illinois.edu Team name: Time Limit Exceeded	University of Maryland http://www.cs.umd.edu Team name: UMDblack
University of Michigan at Ann Arbor http://www.umich.edu Team name: Victors	University of Pennsylvania http://www.upenn.edu Team name: UPENN RED
University of Rochester http://www.rochester.edu Team name: YellowJackets	University of Waterloo http://www.uwaterloo.ca Team name: Waterloo Royal Blue
University of Wisconsin - Madison http://www.wisc.edu Team name: Chang	Virginia Tech http://www.cs.vt.edu Team name: PriorityQueues for President
Washington University in St. Louis http://www.wustl.edu Team name: Indigo	

South Pacific

Monash University http://www.monash.edu.au Team name: BuildAFirewall	University of New South Wales http://www.cse.unsw.edu.au Team name: AbishforesT
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