









































the 44<sup>th</sup> annual World Finals Moscow



















































# icpc International Collegiate Programming Contest

























































































ICPC World Finals Moscow

final standings

RANK	TEAM	SCORE	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	 Northern Eurasia Nizhny Novgorod State University	12 1714	172 1 try	123 2 tries	99 3 tries	28 2 tries	36 1 try	109 2 tries	76 1 try	287 2 tries	227 3 tries	60 1 try		36 tries	152 3 tries	
2	 Asia Pacific Seoul National University	11 1068	85 2 tries	143 2 tries	72 4 tries	17 1 try	31 1 try	31 2 tries	49 1 try		217 1 try	76 1 try	1 try		185 2 tries	
3	 St. Petersburg ITMO University	11 1174	70 3 tries	215 2 tries	59 2 tries	68 2 tries	37 1 try	116 1 try	66 1 try		187 1 try	102 1 try		11 tries	117 1 try	1 try
4	 Moscow Institute of Physics and Technology	11 1664	31 1 try	204 1 try	203 3 tries	110 1 try	48 1 try	214 3 tries	80 2 tries		262 1 try	99 1 try			184 2 tries	
5	 Europe University of Wroclaw	11 1772	122 1 try	193 4 tries	187 7 tries	60 2 tries	47 1 try	222 1 try	18 1 try		255 2 tries	86 2 tries			173 2 tries	
6	 University of Cambridge	11 1905	27 1 try	295 5 tries	221 3 tries	65 1 try	55 1 try	202 6 tries	124 1 try		251 1 try	173 2 tries			85 4 tries	
7	 Belarusian State University	11 1912	279 2 tries	245 1 try	158 5 tries	91 3 tries	30 1 try	149 1 try	41 1 try		274 3 tries	109 1 try			204 1 try	
8	 University of Bucharest	10 1077	153 1 try	200 3 tries	39 1 try	13 3 tries	33 1 try	74 1 try	45 1 try			240 3 tries			123 2 tries	
9	 North America Massachusetts Institute of Technology	10 1220	106 1 try		244 7 tries	83 4 tries	14 1 try	71 2 tries	25 1 try		272 1 try	26 1 try			94 4 tries	2 tries
10	 Kharkiv National University of Radio Electronics	10 1504	71 2 tries	237 1 try	142 2 tries	39 2 tries	21 1 try	293 1 try	91 3 tries			148 1 try			285 1 try	
11	 University of Illinois at Urbana-Champaign	10 1837	247 2 tries	280 1 try	50 1 try	72 1 try	77 1 try	271 3 tries	147 4 tries			133 1 try			208 4 tries	
12	 National Research University Higher School of Economics	9 1348	262 1 try		142 2 tries	54 1 try	50 1 try	61 1 try	176 5 tries			185 1 try			257 2 tries	
13	 St. Petersburg State University	9 1530	158 1 try	239 2 tries		17 10 tries	31 1 try		195 5 tries		295 5 tries	94 1 try			207 1 try	
14	 University of Warsaw	9 1653	191 2 tries		74 2 tries	39 1 try	30 1 try	286 7 tries	48 1 try			274 4 tries			268 2 tries	
15	 Utrecht - Leiden University	9 1747	197 1 try		269 6 tries	144 1 try	46 1 try	249 1 try	97 2 tries			119 1 try			297 3 tries	
16	 Harvard University	9 1756	182 2 tries		136 3 tries	128 1 try	22 1 try	243 1 try	35 1 try		7 tries	219 3 tries				296 16 tries
17	 University of Central Florida	8 1091	235 1 try	8 tries	147 3 tries	144 3 tries	27 1 try	159 2 tries	69 1 try			153 1 try				
18	 National Taiwan University	8 1106	131 3 tries		49 1 try	61 2 tries	36 1 try		174 13 tries			209 4 tries			182 2 tries	
19	 St. Petersburg Campus of Higher School of Economics	8 1328			187 3 tries	45 1 try	73 1 try	296 5 tries	223 1 try			188 3 tries			29 2 tries	
20	 Moscow State University	8 1330	254 1 try		181 4 tries	60 2 tries	37 1 try	228 1 try	221 3 tries			129 1 try			4 tries	
21	 University of Wisconsin - Madison	8 1370	292 1 try		252 2 tries	108 1 try	34 1 try		145 5 tries			188 2 tries			232 1 try	
22	 Latin America Universidad de Buenos Aires - FCEN	8 1372	288 1 try	4 tries	58 2 tries	210 2 tries	34 1 try		44 1 try			210 1 try			272 2 tries	
23	 Korea University	8 1426	197 2 tries		119 3 tries	52 1 try	52 1 try	241 2 tries	134 1 try				10 tries		244 4 tries	
24	 Faculty of Computer Science, Belgrade	7 770	133 1 try			39 9 tries	35 2 tries		82 1 try			61 1 try			289 3 tries	
25	 University of British Columbia	7 821	270 2 tries	6 tries	12 1 try	103 1 try	47 1 try	36 3 tries				97 13 tries				
26	 University of Latvia	7 1022			54 3 tries	90 2 tries	48 1 try		113 1 try		203 1 try		11 tries		250 2 tries	6 tries
27	 University of Aizu	7 1072	247 1 try			62 1 try	47 1 try		88 1 try			179 1 try			296 3 tries	
28	 Asia West Bangladesh University of Engineering and Technology	7 1157	175 1 try		78 2 tries	74 3 tries	54 2 tries		242 3 tries				3 tries		259 2 tries	
29	 Amirkabir University of Technology	7 1230			203 1 try	48 1 try	74 1 try	291 5 tries	126 1 try			216 3 tries			112 3 tries	
30	 Indraprastha Institute of Information Technology	7 1442	297 1 try		286 3 tries	68 2 tries	33 1 try		194 2 tries			206 6 tries				
31	 Ecole Polytechnique	7 1493	258 1 try		105 3 tries	191 5 tries	69 1 try		194 1 try			286 5 tries			5 tries	
32	 Universitas Indonesia	7 1546	280 5 tries		295 7 tries	138 1 try	37 1 try		156 1 try			205 1 try				
33	 University of Dhaka	6 772			48 1 try	76 1 try	123 2 tries		170 1 try			218 2 tries			4 tries	
34	 Yonsei University	6 818	172 1 try		121 1 try	70 2 tries	49 2 tries			1 try		170 1 try			1 try	
35	 Innopolis University	6 907	258 2 tries			94 10 tries	60 1 try		119 1 try		8 tries	166 4 tries			2 tries	
36	 Jagiellonian University in Krakow	6 935			105 1 try	31 1 try	50 1 try		290 7 tries			213 2 tries			3 tries	
37	 Indian Institute of Technology - Bombay	6 970	268 1 try		141 2 tries	45 2 tries	33 1 try		247 2 tries							
38	 Universidad Nacional de Córdoba - FaMAF	6 1020	205 1 try		98 2 tries	123 2 tries	56 3 tries			3 tries		285 4 tries				
39	 Saratov State University	6 1029	163 1 try		226 3 tries	85 1 try	28 1 try		193 6 tries							
40	 ETH Zürich	6 1055			76 1 try	196 1 try	66 1 try		229 1 try			284 2 tries				
41	Indian Institute of Technology - Delhi	6 1074			283 10 tries	83 3 tries	27 1 try		95 1 try			211 2 tries				

RANK	TEAM		SCORE	A	B	C	D	E	F	G	H	I	J	K	L	M	N
42		Technische Universität München	6 1140			293 4 tries	192 1 try	50 2 tries		144 1 try			288 1 try				
43		<div>Africa and the Middle East</div> Princess Sumaya University for Technology	6 1161			257 2 tries	55 2 tries	60 2 tries		146 1 try			232 2 tries				
44		Sharif University of Technology	6 1161			102 2 tries	9 tries	124 1 try		242 4 tries			236 1 try			296 2 tries	
45		Indian Institute of Technology - Kanpur	6 1354	201 3 tries		298 8 tries	127 2 tries	95 1 try		152 2 tries							
46		International Institute of Information Technology - Hyderabad	5 581			205 6 tries	43 1 try	101 1 try		64 1 try			11 tries			1 try	
47		Universidade de Brasília	5 597			96 1 try	44 1 try	120 1 try		28 2 tries			2 tries			1 try	
48		Indian Institute of Technology - Kharagpur	5 677			212 1 try	68 2 tries	53 1 try		159 2 tries			1 try			7 tries	
49		Kazan (Volga Region) Federal University	5 725				85 1 try	53 1 try		119 1 try			162 2 tries				
50		Free University of Tbilisi	5 809	8 tries		257 5 tries	96 2 tries	46 1 try		130 1 try			1 try				
51		Stanford University	5 905			274 6 tries	85 2 tries	41 1 try		142 1 try							
52		École Normale Supérieure de Paris	5 918	217 1 try			107 3 tries	18 2 tries		106 1 try							
53		University of Rochester	5 930			294 11 tries	27 1 try	40 2 tries		123 1 try			226 1 try				
54		Universidade Estadual de Campinas	5 950				94 1 try	51 1 try		196 4 tries			292 2 tries				
55		Universidade Federal de Minas Gerais	5 1017			286 6 tries	58 2 tries	26 1 try		241 8 tries							
56		Virginia Tech	5 1046			229 4 tries	198 2 tries	39 1 try			7 tries		293 1 try				
57		Perm State University	5 1106			245 1 try	103 4 tries	198 3 tries		285 2 tries							
58		Belarusian State University of Informatics and Radioelectronics	5 1187				194 7 tries	45 5 tries	2 tries	123 2 tries			297 6 tries				
59		Bilkent University	4 368				66 2 tries	36 1 try		62 1 try			144 3 tries				
60		Izhevsk State Technical University	4 461			1 try		47 3 tries	1 try	90 1 try			242 3 tries				
61		BITS-Pilani, Hyderabad Campus	4 466			3 tries		117 1 try	50 1 try	131 1 try							
62		Indian Institute of Technology - Roorkee	4 478	1 try		13 tries	87 1 try	66 1 try			2 tries		185 3 tries				
63		Damascus University	4 560			1 try	199 2 tries	89 2 tries	87 1 try		4 tries						
64		Universidade Federal de Pernambuco	4 574				124 2 tries	69 1 try	30 2 tries		8 tries		251 4 tries				
65		Arab Academy for Science and Technology - Alexandria	4 636			6 tries	190 4 tries	55 1 try		73 1 try			7 tries			5 tries	
66		International IT University	4 658				290 9 tries	70 2 tries	39 1 try	79 1 try							
67		Università Degli Studi di Milano	4 667					65 1 try	38 1 try		9 tries		237 6 tries				
68		Volgograd State Technical University	4 730			7 tries		172 2 tries	46 1 try	252 3 tries							
69		Universidad de La Habana	4 739			3 tries		117 1 try	54 1 try	286 1 try							
70		Ulsan National Institute of Science and Technology	4 814	290 3 tries			106 4 tries	66 3 tries		212 1 try						7 tries	
71		Netaji Subhash University Of Technology	4 823					197 2 tries	94 1 try	144 1 try							
72		Indian Institute of Technology - Guwahati	4 922					138 3 tries	67 1 try	167 1 try							
73		The University of Texas at Dallas	3 293			6 tries	50 1 try	77 1 try	10 tries	1 try	5 tries						
74		Universidad Nacional de Colombia - Bogotá	3 343			2 tries	124 2 tries	125 2 tries	54 1 try		7 tries						
75		Moscow Aviation Institute	3 438			8 tries		59 1 try	40 1 try	299 3 tries							
76		Dhirubhai Ambani Institute of Information and Communi	3 477					102 2 tries	124 2 tries								
77		Kyungpook National University	3 506	1 try		1 try	204 1 try	96 3 tries	2 tries				2 tries				
78		American University of Beirut	3 527					104 3 tries	54 1 try		5 tries						
79		Universidad de Oriente - Sede Antonio Maceo	3 543					159 1 try	90 1 try				2 tries				
80		University of Tehran	3 552		2 tries	3 tries	175 3 tries	169 2 tries	108 3 tries		10 tries						
81		University of Southern California	3 568					112 4 tries	23 1 try		17 tries						
82		Ain Shams University - Faculty of Computer and Information Sciences	3 608			2 tries		176 3 tries	74 1 try	298 2 tries							
83		Purdue University	3 609	292 4 tries		5 tries			99 1 try		2 tries						
84		Universidad Icesi	3 619					128 1 try	148 2 tries								
85		German University in Cairo	3 620					171 1 try	85 1 try	264 6 tries							
86		Universidad Nacional del Sur	3 630					233 1 try	127 1 try								
87		Sogang University	3 649	1 try		1 try	51 1 try	99 10 tries	6 tries				4 tries				
88		Indian Institute of Technology - Indore	3 859			3 tries		133 9 tries	78 1 try								
89		Universidad de Chile	2 114	17 tries		7 tries		81 1 try	33 1 try								
90		Yerevan State University	2 194				10 tries	98 3 tries	56 1 try		4 tries		1 try				
91		Indian Institute of Technology (ISM), Dhanbad	2 202					135 1 try	67 1 try								

RANK	TEAM	SCORE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
92	 University of Utah	2 205	6 tries				40	1 try								145	2 tries
93	 Indian Institute of Technology - Varanasi	2 208	100				68	2 tries									
94	 Alexandria University - Faculty of Engineering	2 232	12 tries				50	122	1 try								
95	 Institute of Computing - Federal University of Amazonas	2 234	56				158	4 tries									
96	 Tishreen University	2 278	115				123	1 try									
97	 Universidade de São Paulo	2 284	4 tries	12 tries		3 tries	42	202							1 try		
98	 Instituto de Informática - UFG	2 291	111				140	3 tries									
99	 Syrian Virtual University	2 299	37				202	4 tries									
100	 National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)	2 350	2 tries		5 tries		79	5 tries									
101	 American University - Central Asia	2 366					44	222	6 tries								
102	 Universidade Federal do Ceará - Campus Quixadá	2 377	222				75	1 try									
103	 Indian Institute of Technology - Patna	2 377	3 tries				75	12 tries	2 tries	1 try							
104	 Universidad de Guanajuato - DCNE	2 413	3 tries		4 tries	122										1 try	
105	 The University of Jordan	2 465	6 tries				105	3 tries									
106	 Universidade de São Paulo - Campus de São Carlos	2 526	242				144	2 tries									
107	 Universidad Simón Bolívar	1 98					78	2 tries									
108	 Universidad Panamericana Campus Bonaterra	1 99					99	1 try									
109	 Al-Baath University	1 102	5 tries				82	2 tries									
110	 Cairo University - Faculty of Computers and Artificial Intelligence	1 120					120	1 try									
111	 Duke University	1 134	8 tries		5 tries	114										2 tries	
112	 Institut National des Sciences Appliquées et de Technologie	1 190	2 tries				190	1 try									
113	 Higher Institute for Applied Sciences and Technology	1 210					190	2 tries							1 try		
114	 Universidad de Costa Rica	1 235					215	2 tries									
115	 Avicenna University	0 0															
	 NU-FAST Karachi	0 0															
	 The University of Asia Pacific	0 0															
SUMMARY		573	 38  68  0  27min	 11  42  0  123min	 57  283  0  12min	 94  160  0  13min	 114  45  0  14min	 21  66  0  31min	 69  194  0  18min	 1  45  0  287min	 10  29  0  187min	 50  113  0  26min	 0  1  0  n/a	 0  47  0  n/a	 27  77  0  29min	 1  24  0  296min	 0  0  0  0

Cell colours	Awards
Solved first	Gold Award
Solved	Silver Award
Tried, incorrect	Bronze Award
Tried, pending	
Untried	