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**icpc** International Collegiate  
 Programming Contest


















































## ICPC World Finals 2019

final standings

RANK	TEAM	SCORE	A O	B O	C O	D O	E O	F O	G O	H O	I O	J O	K O
1	Northern Eurasia <b>Moscow State University</b>	10 1531	42 1 try	142 1 try		56 1 try	40 2 tries	279 4 tries	114 1 try	92 2 tries	245 1 try	72 1 try	249 6 tries
2	North America <b>Massachusetts Institute of Technology</b>	9 1191	27 1 try	90 1 try		107 1 try	56 1 try	168 1 try	119 2 tries	63 2 tries	278 1 try		243 1 try
3	Asia Pacific <b>The University of Tokyo</b>	9 1386	40 1 try	204 2 tries		62 1 try	31 1 try	230 4 tries	128 3 tries	57 1 try		157 1 try	297 4 tries
4	Europe <b>University of Warsaw</b>	8 891	49 1 try	126 2 tries	11 tries	32 1 try	14 1 try		55 1 try	32 1 try		111 1 try	292 9 tries
5	<b>National Taiwan University</b>	8 1179	27 1 try	165 1 try		38 1 try	142 1 try		130 1 try	208 1 try	278 1 try	191 1 try	
6	<b>University of Wroclaw</b>	8 1200	29 1 try	277 4 tries		28 1 try	57 1 try		212 2 tries	91 2 tries	263 2 tries	103 2 tries	1 try
7	<b>Seoul National University</b>	7 783	74 1 try	103 1 try		31 2 tries	69 3 tries	3 tries	146 3 tries	82 1 try		118 4 tries	
8	Asia East <b>KimChaek University of Technology</b>	7 803	32 1 try	132 2 tries		78 2 tries	43 1 try		97 1 try	188 1 try		193 1 try	
9	Asia West <b>Sharif University of Technology</b>	7 923	23 1 try	170 2 tries		75 1 try	46 1 try	1 try	148 2 tries	133 1 try		288 1 try	
10	<b>Moscow Institute of Physics &amp; Technology</b>	7 954	47 1 try	155 1 try	1 try	140 1 try	78 2 tries		145 1 try	113 1 try		236 2 tries	
11	<b>National Research University Higher School of Economics</b>	7 990	50 1 try	199 3 tries		76 2 tries	51 2 tries		137 2 tries	104 1 try		273 1 try	
12	<b>The Chinese University of Hong Kong</b>	7 1057	90 1 try	239 4 tries		42 1 try	59 1 try	2 tries	217 2 tries	127 1 try		203 1 try	
13	<b>Peking University</b>	7 1106	34 1 try	245 1 try		119 2 tries	163 2 tries		143 1 try	114 1 try		228 2 tries	
14	<b>Fudan University</b>	7 1179	24 2 tries	284 6 tries		27 1 try	197 7 tries		152 1 try	131 1 try	1 try	124 1 try	
15	<b>Nanjing University</b>	7 1184	21 1 try	185 4 tries		86 2 tries	58 1 try		262 4 tries	159 5 tries		173 2 tries	
16	<b>University of Oxford</b>	7 1185	54 1 try	295 6 tries		30 1 try	85 2 tries		235 3 tries	178 1 try		148 1 try	
17	<b>St. Petersburg ITMO University</b>	7 1296	34 1 try	178 5 tries		105 1 try	160 4 tries		291 4 tries	63 2 tries		245 1 try	
18	<b>University of Cambridge</b>	7 1359	161 3 tries	139 1 try		81 1 try	153 1 try		202 4 tries	242 1 try		261 2 tries	
19	<b>Shanghai Jiao Tong University</b>	7 1427	47 1 try	298 12 tries		97 1 try	42 1 try		257 2 tries	166 3 tries		220 2 tries	
20	<b>Tsinghua University</b>	7 1634	235 5 tries	180 3 tries		95 1 try	150 5 tries		194 2 tries	178 1 try		282 6 tries	1 try
21	<b>Universitat Politècnica de Catalunya</b>	6 636	62 1 try	185 1 try		52 1 try	31 1 try		181 1 try	125 1 try			
22	<b>Belarusian State University</b>	6 773	86 1 try	219 3 tries		27 1 try	46 1 try		129 1 try	186 3 tries			
23	<b>Universitas Indonesia</b>	6 815	115 4 tries	223 6 tries		92 1 try	64 1 try	5 tries	128 1 try	33 1 try			
24	<b>KAIST</b>	6 869	40 2 tries	290 7 tries		66 1 try	23 2 tries	5 tries	162 4 tries	68 1 try			
25	<b>Technische Universität München</b>	6 946	38 1 try	260 4 tries		61 1 try	17 1 try		212 3 tries	198 4 tries		1 try	1 try
26	<b>Harvard University</b>	6 965	159 3 tries		4 tries	82 1 try	115 2 tries		232 2 tries	35 1 try		182 5 tries	
27	<b>National Chiao Tung University</b>	6 987	75 1 try	289 1 try		182 1 try	32 1 try		223 3 tries	146 1 try			
28	<b>The University of Texas at Austin</b>	6 989	81 2 tries	284 3 tries		138 1 try	42 1 try			105 1 try		239 3 tries	
29	<b>Zhongshan (Sun Yat-sen) University</b>	6 1017	39 1 try			66 1 try	154 4 tries		273 5 tries	80 1 try		205 4 tries	
30	<b>Stanford University</b>	6 1073	91 2 tries		3 tries	99 1 try	78 3 tries		196 1 try	253 4 tries		236 1 try	
31	<b>Saratov State University</b>	6 1092	94 1 try		8 tries	47 2 tries	219 2 tries		296 2 tries	175 1 try		181 2 tries	
32	<b>Zhejiang University</b>	6 1092	63 1 try	210 3 tries		101 1 try	128 1 try		298 6 tries	152 1 try			
33	<b>University of Tsukuba</b>	6 1099	119 1 try	298 5 tries		144 1 try	54 1 try		197 2 tries	127 4 tries			
34	<b>Ural Federal University</b>	6 1112	92 1 try	255 1 try		155 1 try	93 1 try		206 1 try	291 2 tries			
35	<b>Beihang University</b>	6 1150	76 1 try			84 1 try	164 2 tries		246 1 try	215 2 tries		285 3 tries	
36	<b>University of Zagreb</b>	6 1158	83 1 try	270 3 tries		104 1 try	55 1 try			132 2 tries		294 9 tries	
37	<b>Belarusian State University of Informatics and Radioelectronics</b>	6 1160	134 3 tries		1 try	83 1 try	159 2 tries		273 7 tries	28 1 try		283 2 tries	
38	<b>International IT University</b>	6 1168	92 2 tries	245 2 tries	1 try	205 1 try	157 2 tries		264 1 try	145 1 try		4 tries	
39	<b>Scuola Normale Superiore</b>	6 1196	112 1 try	299 3 tries		135 2 tries	53 1 try			237 2 tries		260 2 tries	
40	Africa and the Middle East <b>Syrian Virtual University</b>	6 1323	112 3 tries	288 4 tries		172 1 try	108 1 try		282 1 try	221 3 tries		1 try	
41	<b>University of Waterloo</b>	5 549	114 1 try	183 1 try	3 tries	87 1 try	37 1 try			128 1 try			2 tries

RANK	TEAM	SCORE	A ○	B ○	C ○	D ○	E ○	F ○	G ○	H ○	I ○	J ○	K ○
42	 University of Niš - Faculty of Sciences and Mathematics	5 607	76 1 try	194 3 tries		130 2 tries	44 1 try		2 tries	103 1 try		4 tries	
43	 ETH Zürich	5 677	84 1 try	1 try		44 1 try	21 1 try			153 3 tries		295 3 tries	
44	 <span>Latin America</span> Universidad Nacional de Córdoba - FaMAF	5 687	64 2 tries			197 2 tries	202 2 tries		62 1 try	102 1 try		17 tries	
45	 University of British Columbia	5 750	79 1 try	257 3 tries		165 1 try	81 1 try			128 1 try		9 tries	
46	 Kyoto University	5 755	44 1 try	5 tries		109 1 try	145 3 tries			170 1 try		247 1 try	
47	 University of Latvia	5 755	102 1 try			67 1 try	33 1 try		294 1 try	219 3 tries		1 try	
48	 Indian Institute of Technology - Madras	5 806	25 1 try			131 2 tries	99 1 try		287 4 tries	184 1 try			
49	 Indian Institute of Technology - Roorkee	5 828	51 1 try	2 tries		128 1 try	163 3 tries		197 1 try	249 1 try			
50	 Xi'an Jiaotong University	5 832	114 1 try	7 tries		172 1 try	141 2 tries		87 2 tries	258 2 tries			
51	 Hanoi University of Science and Technology	5 901	107 1 try			117 1 try	95 2 tries			263 3 tries		219 3 tries	
52	 Universidade Federal de Pernambuco	5 903	56 1 try			108 2 tries	235 1 try		267 4 tries	157 1 try		6 tries	
53	 Universidade do Porto	5 935	44 2 tries	267 5 tries		112 1 try	120 3 tries			212 3 tries			
54	 St. Petersburg State University	5 979	72 1 try	9 tries		142 1 try	189 4 tries		187 1 try	289 3 tries			
55	 École Normale Supérieure de Paris	5 990	283 1 try	44 2 tries	2 tries	118 2 tries	152 1 try		253 6 tries	1 try		2 tries	
56	 South China University of Technology	5 1072	49 1 try			172 1 try	227 4 tries		269 1 try	295 1 try			
57	 University of Brasília	5 1101	114 1 try			206 1 try	100 2 tries		188 7 tries	293 4 tries			
58	 Universidade de São Paulo - Campus de São Carlos	5 1134	55 1 try			173 4 tries	193 3 tries		284 4 tries	249 2 tries		1 try	
59	 Princeton University	5 1153	37 1 try			175 3 tries	210 4 tries		292 5 tries	259 1 try			
60	 East China Normal University	5 1190	67 2 tries			216 4 tries	109 2 tries		10 tries	229 4 tries		249 9 tries	
61	 Waseda University	5 1209	89 2 tries			194 4 tries	184 6 tries		285 1 try	257 2 tries		1 try	
62	 Carnegie Mellon University	4 416	89 2 tries	5 tries		96 1 try	37 2 tries			154 1 try			
63	 University of Tartu	4 474	81 2 tries	4 tries		91 1 try	52 3 tries		6 tries	170 2 tries			
64	 Northeastern University (China)	4 580	101 1 try			195 1 try	106 1 try		3 tries	178 1 try			
65	 University of Southern California	4 587	56 1 try	3 tries		163 2 tries	63 3 tries			4 tries		225 2 tries	
66	 Universidad de La Habana	4 619	36 1 try	7 tries		111 1 try	181 2 tries			271 1 try			
67	 Guangdong University of Technology	4 624	81 2 tries	249 3 tries		124 1 try	90 2 tries			3 tries			
68	 St. Petersburg Campus of Higher School of Economics	4 639	87 2 tries			55 1 try	101 4 tries		2 tries	296 2 tries			
69	 Universidad Nacional de Rosario	4 660	70 2 tries			128 1 try	160 3 tries			242 1 try			
70	 Beijing Normal University	4 686	106 2 tries			150 1 try	99 2 tries		2 tries	271 2 tries			
71	 National Technical University "Kharkiv Polytechnic Institute"	4 696	125 1 try	279 6 tries		77 1 try	95 2 tries					10 tries	
72	 American University of Beirut, Faculty of Arts and Science	4 708	56 1 try			117 2 tries	259 1 try			216 3 tries			
73	 Alexandru Ioan Cuza University of Iași	4 720	83 2 tries			147 5 tries	61 1 try			289 3 tries		2 tries	
74	 Kazakh-British Technical University	4 731	74 2 tries			157 2 tries	233 5 tries		10 tries	127 2 tries		2 tries	
75	 Instituto Tecnológico de Aeronautica	4 739	88 1 try	2 tries		162 3 tries	132 4 tries			217 3 tries			
76	 Amirkabir University of Technology	4 754	134 1 try			122 1 try	277 2 tries			201 1 try		1 try	
77	 Southeast University, China	4 762	192 2 tries	1 try		153 1 try	110 2 tries			267 1 try			
78	 National University of Singapore	4 833	209 9 tries			85 3 tries	55 2 tries			224 3 tries		5 tries	
79	 Universidad de Buenos Aires - FCEN	4 838	67 1 try			269 3 tries	84 2 tries			278 5 tries			
80	 Bangladesh University of Engineering and Technology	4 857	71 1 try			150 3 tries	276 2 tries			280 2 tries			
81	 Faculty of Computer and Information Sciences, Ain Shams University	4 880	80 1 try			183 3 tries	5 tries		288 3 tries	209 3 tries		1 try	
82	 International Black Sea University	4 949	45 1 try			232 4 tries	203 4 tries		289 4 tries				
83	 Columbia University	4 1063	181 3 tries			271 2 tries	266 1 try	6 tries		225 4 tries			
84	 University of Illinois at Urbana-Champaign	4 1201	248 6 tries			161 1 try	237 5 tries			295 5 tries		2 tries	
85	 Indian Institute of Technology - Bombay	3 273	70 2 tries			107 1 try	76 1 try		2 tries	4 tries			
86	 Harbin Institute of Technology	3 302	65 1 try	1 try		123 2 tries	94 1 try			1 try		1 try	
87	 The University of Auckland	3 373	80 1 try	3 tries		162 1 try			111 2 tries			5 tries	
88	 Indian Institute of Technology - Kanpur	3 381	90 1 try			142 4 tries	69 2 tries			5 tries			

RANK	TEAM	SCORE	A ○	B ○	C ○	D ○	E ○	F ○	G ○	H ○	I ○	J ○	K ○
89	 Leiden University	3 455	154 4 tries			183 1 try	58 1 try			1 try			
90	 Nanjing University of Science and Technology	3 469	95 2 tries	6 tries		147 1 try	187 2 tries						
91	 The University of New South Wales	3 478	188 2 tries	7 tries		106 2 tries	2 tries			144 1 try	6 tries		
92	 Universidade Federal de Campina Grande	3 478	75 2 tries			162 1 try	201 2 tries		2 tries	1 try			
93	 Instituto Militar de Engenharia	3 479	139 2 tries			169 1 try	151 1 try						
94	 University of Chicago	3 489	54 1 try			206 3 tries	169 2 tries			6 tries			
95	 Chennai Mathematical Institute	3 490	123 2 tries			84 1 try	183 5 tries					5 tries	
96	 Universidad Nacional de Ingeniería - FC	3 520	116 3 tries			220 4 tries	84 1 try					2 tries	
97	 German University in Cairo	3 533	117 2 tries			227 2 tries	129 2 tries					1 try	
98	 Cairo University - Faculty of Computers and Information	3 594	107 3 tries	1 try		115 1 try	272 4 tries					1 try	
99	 University of Engineering and Technology - VNU	3 615	60 1 try			153 1 try	262 8 tries		5 tries				
100	 University of Cape Town	3 631	159 4 tries			264 2 tries	128 1 try		2 tries	1 try			
101	 Duke University	3 654	169 2 tries				195 1 try			270 1 try		1 try	
102	 Northern (Arctic) Federal University	3 660	148 6 tries				267 3 tries		65 3 tries			1 try	
103	 South Dakota School of Mines and Technology	3 678	120 2 tries			186 1 try	272 5 tries		4 tries				
104	 Faculty of Engineering, Cairo University	3 703	99 5 tries			193 1 try	251 5 tries						
105	 Sofia University	3 709	202 5 tries			206 1 try	221 1 try						
106	 Universidad Nacional de Colombia - Bogotá	3 831	214 5 tries			246 1 try	271 2 tries						
107	 Bina Nusantara University	3 844	239 6 tries			230 5 tries	175 2 tries					8 tries	
108	 IIIT-Delhi	2 177	46 1 try			131 1 try	2 tries						
109	 Damascus University - Y!	2 238	61 1 try			157 2 tries	7 tries					1 try	
110	 Indian Institute of Technology - Patna	2 272	92 2 tries			160 1 try	5 tries						
111	 Escuela Superior De Computo Instituto Politecnico Nacional	2 300	88 1 try			212 1 try	7 tries			1 try			
112	 Faculty of Engineering- Mansoura University	2 304	49 2 tries			195 3 tries	7 tries						
113	 Drexel University	2 319	82 2 tries			197 2 tries	1 try			2 tries			
114	 Universidad Tecnológica Nacional - Facultad Regional Santa Fe	2 328	56 1 try			272 1 try	9 tries						
115	 Lebanese American University	2 352	102 3 tries			210 1 try	3 tries						
116	 The University of Western Australia	2 358	2 tries			153 2 tries	125 4 tries						
117	 University of Central Florida	2 360	267 2 tries			73 1 try	3 tries	1 try				6 tries	
118	 Al-Baath University	2 376	122 1 try			254 1 try	5 tries			1 try			
119	 Colorado School of Mines	2 403	138 3 tries			225 1 try	2 tries						
120	 Universidad de Oriente - Sede Antonio Maceo	2 420	200 3 tries			180 1 try	1 try					6 tries	
121	 Shahjalal University of Science and Technology	2 438	155 2 tries			223 3 tries	2 tries			1 try			
122	 Moscow Aviation Institute	2 439	128 7 tries			191 1 try	16 tries						
123	 Instituto Tecnológico Autónomo de México	2 440	160 2 tries			260 1 try	4 tries		2 tries				
124	 Universidad de los Andes, Colombia	2 463	5 tries			246 3 tries	137 3 tries						
125	 ITESM Campus Monterrey	2 472	156 3 tries			276 1 try				2 tries			
126	 Higher Institute for Applied Sciences and Technology	2 474				258 1 try	196 2 tries						
127	 Aleppo University	2 487	202 1 try				285 1 try						
128	 University of Wisconsin - Madison	2 503	249 2 tries			214 2 tries	4 tries						
129	 Indian Institute of Technology - Kharagpur	2 505	101 4 tries			264 5 tries	7 tries						
130	 Instituto Tecnológico Superior del Sur de Guanajuato	2 657	252 3 tries				285 5 tries						
131	 Damascus University - Daddy's Home	1 144	124 2 tries			5 tries	1 try		4 tries				
132	 University of Nebraska - Lincoln	1 311	3 tries			291 2 tries	3 tries						
133	 The American University in Cairo	1 421					2 tries				261 9 tries		
134	 Shahid Beheshti University	0 0				2 tries	2 tries						
	 Tecnológico de Costa Rica	0 0	1 try						1 try				

RANK	TEAM	SCORE	A ○	B ○	C ○	D ○	E ○	F ○	G ○	H ○	I ○	J ○	K ○
	SUMMARY	585	<div><div></div>128</div> <div><div></div>127</div> <div><div></div>0</div> <div><div></div>21min</div>	<div><div></div>41</div> <div><div></div>170</div> <div><div></div>0</div> <div><div></div>44min</div>	<div><div></div>0</div> <div><div></div>18</div> <div><div></div>0</div> <div><div></div>n/a</div>	<div><div></div>127</div> <div><div></div>82</div> <div><div></div>0</div> <div><div></div>27min</div>	<div><div></div>109</div> <div><div></div>232</div> <div><div></div>0</div> <div><div></div>14min</div>	<div><div></div>3</div> <div><div></div>29</div> <div><div></div>0</div> <div><div></div></div>	<div><div></div>54</div> <div><div></div>152</div> <div><div></div>0</div> <div><div></div>55min</div>	<div><div></div>81</div> <div><div></div>106</div> <div><div></div>0</div> <div><div></div>28min</div>	<div><div></div>5</div> <div><div></div>16</div> <div><div></div>0</div> <div><div></div></div>	<div><div></div>33</div> <div><div></div>157</div> <div><div></div>0</div> <div><div></div>72min</div>	<div><div></div>4</div> <div><div></div>21</div> <div><div></div>0</div> <div><div></div></div>

Cell colours
Solved first
Solved
Tried, incorrect
Tried, pending
Untried