

## Contest 1 results

For the full five hours of proceedings, team leaders, friends, trainers and parents all over the world could watch the live results from Contest 1 on the competition website. The online version showed how contestants' placings changed depending on their points scored. Contest 1 began at 9.00 am Moscow Time, and from 10.00 am students anywhere in the world could test their abilities by trying to solve the tasks from IOI 2016.

✓ Rank	First Name	Last Name	Team	1	2	3	Day 1	Global	✓ Rank	First Name	Last Name	Team	1	2	3	Day 1	Global
1	Zuofan	Wu		100	100	100	300	300	49	Nenad	Bauk		100	34	31	165	165
2	Ce	Jin		100	100	97	297	297	49	Marcel	Bezdrghin		100	34	31	165	165
2	Vladislav	Makeev		100	100	97	297	297	49	Sanzhar	Bidaibek		100	34	31	165	165
4	Mikhail	Putilin		100	100	71	271	271	49	Joakim	Blikstad		100	34	31	165	165
5	Takuya	Inoue		100	34	97	231	231	49	Phirasit	Charoenchitseriwong		100	34	31	165	165
5	Zhizhou	Ren		100	34	97	231	231	49	Clarence Xuan Da	Chew		100	34	31	165	165
7	Yikuan	Li		100	34	93	227	227	49	Andrea	Ciprietti		100	34	31	165	165
8	Ta-Jui	Ho		100	34	71	205	205	49	Rajat	De		100	34	31	165	165
8	Jaroslav	Kwiecień		100	34	71	205	205	49	Kefan	Dong		100	34	31	165	165
8	Encho	Mishinev		100	34	71	205	205	49	Alexandra	Drozдова		100	34	31	165	165
8	Nguyen	Pham Cao		100	34	71	205	205	49	Man Hou	Hong		100	34	31	165	165
8	Mateusz	Radecki		100	34	71	205	205	49	Liran	Markin		100	34	31	165	165
8	Hristo	Venev		100	34	71	205	205	49	M. Beshar	Massri		100	34	31	165	165
14	Ali	Behjati		100	64	38	202	202	49	Péter	Mernyei		100	34	31	165	165
14	Hyunsoo	Kim		100	64	38	202	202	49	Lucca	Morais de Arruda Siazdionis		100	34	31	165	165
14	Nurbakyt	Madibek		100	64	38	202	202	49	Wen Yuen	Pang		100	34	31	165	165
14	Jacob Por Loo	Teo		100	64	38	202	202	49	Artur	Petukhouski		100	34	31	165	165
18	Denis	Solonkov		100	64	31	195	195	49	Andrei	Popa		100	34	31	165	165
19	AmirMohamm	Dehghan		100	64	23	187	187	49	Seungwon	Shin		100	34	31	165	165
19	Malvika Raj	Joshi		100	64	23	187	187	49	Georgy	Skhirtladze		100	34	31	165	165
19	Jonathan	Khoo		100	64	23	187	187	49	Théophane	Vallaey		100	34	31	165	165
19	Arash	Mahmoudian Bidgoli		100	64	23	187	187	49	Jeffrey	Xiao		100	34	31	165	165
19	Declan	McDonnell		100	64	23	187	187	74	Tomer	Adar		100	34	23	157	157
19	Askhat	Sakhabiev		100	64	23	187	187	74	Mikhail	Anoprenko		100	34	23	157	157
25	Domagoj	Bradac		100	64	9	173	173	74	Filip	Bialas		100	34	23	157	157
26	Adrian	Beker		100	34	38	172	172	74	Hou Tin	Chau		100	34	23	157	157
26	Daniel	Chiu		100	34	38	172	172	74	Chuanye	Chen		100	34	23	157	157
26	Andrei-Costin	Constantinescu		100	34	38	172	172	74	Gabriel	Cojocaru		100	34	23	157	157
26	Richard	Gong		100	34	38	172	172	74	Nodir	Daminov		100	34	23	157	157
26	Fedar	Karabeinikau		100	34	38	172	172	74	Carl	Dybdahl		100	34	23	157	157
26	Jaehyun	Koo		100	34	38	172	172	74	Ahmed	ElBatanony		100	34	23	157	157
26	Aleksandar	Krastev		100	34	38	172	172	74	Márton	Erdős		100	34	23	157	157
26	Vladimir	Maksimovski		100	34	38	172	172	74	Carlos	Galeana Hernández		100	34	23	157	157
26	Jerry	Mao		100	34	38	172	172	74	Mahmoud	Hassan		100	34	23	157	157
26	Seyed Parsa	Mirtaheri		100	34	38	172	172	74	Hannes	Ihalainen		100	34	23	157	157
26	Mikhail	Natalevich		100	34	38	172	172	74	Stacia Edina	Johanna		100	34	23	157	157
26	Stanislav	Naumov		100	34	38	172	172	74	Azret	Kenzhaliev		100	34	23	157	157
26	Costin-Andrei	Oncescu		100	34	38	172	172	74	Florian	Leimgruber		100	34	23	157	157
26	Juliusz	Pham		100	34	38	172	172	74	Lawrence	Li		100	34	23	157	157
26	Minh	Phan Duc Nhat		100	34	38	172	172	74	Kalle	Luopajarvi		100	34	23	157	157
26	Grigoriy	Reznikov		100	34	38	172	172	74	Ilya	Medyanikov		100	34	23	157	157
26	Daniel Peter	Rutschmann		100	34	38	172	172	74	Zoltán Gábor	Molnár-Sáska		100	34	23	157	157
26	Mushegh	Shahinyan		100	34	38	172	172	74	Levon	Muradyan		100	34	23	157	157
26	Yuta	Takaya		100	34	38	172	172	74	Angelos	Pelecanos		100	34	23	157	157
26	Toomas	Tennisberg		100	41	31	172	172	74	Aleksejs	Popovs		100	34	23	157	157
26	Phat	Tran Tan		100	34	38	172	172	74	Ingus	Pretkalniņš		100	34	23	157	157
26	Václav	Volhejn		100	34	38	172	172	74	Dhruv	Rohatgi		100	34	23	157	157
26	Bo-Syu	Yu		100	34	38	172	172	74	Aristofanis	Rontogiannis		100	34	23	157	157
49	Nazarbek	Altybay		100	34	31	165	165	74	Samuel	Sládek		100	34	23	157	157
49	Rogério	Aristida Guimarães Junior		100	34	31	165	165	74	Yik Chun	Wong		100	34	23	157	157
49	Filippo Gianni	Baroni		100	34	31	165	165	74	Farbod	Yadegarian		100	34	23	157	157
									74	Hao-Cheng	Yang		100	34	23	157	157
									74	Zi Song	Yeoh		100	34	23	157	157
									74	Tsz Fung	Yu		100	34	23	157	157



# One down, one to go

We heard from some of the participants about how they found Contest 1 of IOI 2016.

**Israel:** We liked the first question best – we all did well on it. Basically, you were given a number sequence and had to find the interval value between them.

**Canadian team leader Troy Vasiga:** Training for the Olympiad was very tough, but worth it. Our team are ready



to solve any problem. It's a shame we'll have a different team next year. What issues have I had in my work? We had some trouble yesterday translating the text, but fortunately everything was resolved.

**Romania:** The first task was quite easy but the second two were hard, which is why right now we're in a stressful situation: many contestants are on the same number of points in the table after the first round. When I read the third task I thought "Ouch!" - if I managed to cope with the first task, then for the third I had absolutely no idea. For the second one you needed a moment of brilliance to help you. I don't think anyone got 300 points today!





# 10 years of the IOI Conference

IOI 2016 falls on a significant date, as it marks the 10th anniversary of the IOI Conference. In 2007 the IOI society made the decision to hold a conference for team leaders and deputy team leaders of IOI participating countries. The conference was created as a platform for sharing different countries' experiences in developing gifted schoolchildren in the field of IT and holding national olympiads in informatics. The journal *Olympiads in Informatics* also came about as a result of the conference, and contains articles on olympiad informatics, methods of teaching IT in schools and innovative models of IT education.

It could be said that over these 10 years the conference and journal have formed a scientific and pedagogical IOI society, one which actively develops unique methodological experience in the field of school and olympiad informatics and which is open to all countries. On the website [www.ioinformatics.org](http://www.ioinformatics.org) there is an electronic archive of journal articles presented at IOI Conferences for all 10 years.

There are two editions of the journal at IOI 2016 – a tenth-anniversary edition and a special edition detailing Russia's experience of school

informatics. The special edition was initiated and edited by Marina Tsvetkova (Moscow, Academy for Improved Qualifications, [www.apkpro.ru](http://www.apkpro.ru)), who is also team leader of the Russian team. Much work is done in Russia to improve the quality of IT teaching in schools, but unfortunately abroad we know little about the work of Russian academics and Russian teaching methods for informatics. The IOI Conference, which features team leaders from the 86 countries participating in the International Olympiad, is an excellent opportunity to learn first-hand how Russia is training its future specialists in IT. Russia's experience is also valuable as the Russian team is consistently one of the top performers at the International Olympiad in Informatics.



*Valentina Dagiene, Head of the IOI Conference, editor-in-chief of the journal *Olympiads in Informatics*, professor at Vilnius University (Lithuania)*







## IOI 2016 Contest 1 complete

On 14 August, around 9.00 am, the murmur of voices and careful shuffling of papers filled the competition hall. A few moments later and you could have heard a pin drop. Volunteer invigilators fanned out throughout the hall, so cheating was out of the question. 310 contestants from all over the world together under one roof. Above them soared the flags of 86 countries, all linked together into one in a symbol of unity and cohesion.

## Tradition

# The staples of Russian cuisine

No picture of Russia can be complete without experiencing some of its cuisine. Our culinary cheat-sheet will help you make sense of the most traditional dishes:

**Bliny** - round flour pancakes made from a batter. Bliny can be enjoyed with or without a filling, but the best are with red caviar.



**Schi** - a soup made with fresh or boiled cabbage in either meat, fish or mushroom stock or water. Potato, onion and carrot are added, and it is served with smetana.



**Smetana** - a dairy product made of sour cream.



**Okroshka** - a cold soup (usually with kvass) with meat, egg, herbs, cucumber, potato and radishes.



**Kulebyaka** - a closed, usually oval-shaped pie with meat, fish, rice, cabbage or mushrooms.



**Varenie** - a dessert made from boiling fruits or berries with sugar to make a preserve. Varenie is boiled in such a way that the ingredients retain their shape.



**Kvass** - a slightly bitter drink made from rye bread and water.

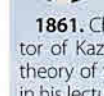
## Some useful phrases

ENGLISH	RUSSIAN	TATAR	ENGLISH	RUSSIAN	TATAR
WEATHER	погода [pogoda]	һава торышы [hava torıjı]	HEAT	тепло [teplo]	жылы [zılı]
RAIN	дождь [dozhd']	яңгыр [jəngır]	HOT	жарко [zharko]	кызу [kızu]
WIND	ветер [veter]	жил [zil]	COLD	холодно [holodno]	салкын [salkın]
SUN	солнце [solntse]	кояш [kojaʃ]	SNOW	снег [sneg]	кар [kar]
CLOUD	облако [oblako]	болыт [bolıt]	FROST	мороз [moroʒ]	суык [suık]
			STREET	улица [ulitsa]	урам [uram]

## Kazan University: our greatest discoveries



**1856.** Astronomer **Marian Kowalski** (1821-1884) proves that stars make up a single system without a single massive body in the centre determining their movement. He developed a more accurate model of Neptune's orbit and catalogued over 4200 stars.



**1861.** Chemist **Alexander Butlerov** (1828-1886), rector of Kazan University from 1860-1863, sets forth his theory of the chemical structure of organic substances in his lecture "On the chemical structure of substances".



**1869.** Chemist **Vladimir Markovnikov** (1837-1904) develops Butlerov's theory, discovering patterns of mutual influence between atoms in organic compounds. Earlier, in 1865, he discovered the isomerism of fatty acids.

## WEATHER FORECAST

15 August, Monday

Day ☀️ +34 C / 93.2 F Night 🌙 +25 C / 77 F