

DAILY NEWS

news from the 24th International Olympiad in Informatics



You Tube



PHOTO by CRISTINA SALI

calendar

Wednesday 26

H	CONTESTANTS	LEADERS	VISITORS
06:00 - 07:00	Breakfast	Breakfast	
07:00 - 08:00		Meeting Time Transfer to Milano	
08:00 - 09:00			
09:00 - 10:00			
10:00 - 11:00	Gardaland	Young Talents Conference	
11:00 - 12:00			
12:00 - 13:00	Lunch	Lunch	
13:00 - 14:00	Gardaland	Tour of Milan	
14:00 - 15:00			
15:00 - 16:00			
16:00 - 17:00			
17:00 - 18:00	Transfer to Sirmione	Transfer to Sirmione	
18:00 - 19:00	Free Time		
19:00 - 20:00	Dinner	Dinner	Dinner
20:00 - 21:00			
21:00 - 22:00	Quarantine	Meeting	Free Time
22:00 - 23:00			
23:00 - 00:00			

The actual competition has started at last!

Yesterday morning at 9:20 all the 321 participants sat at their desks and the games began.

The contest consisted of three different tasks called "Pebbling odometer", "Parachute rings" and "Crayfish scrivener". The participants had only five hours to complete the assignment and many found it harder than last year's contest.

da - lombardy

1	Jonny	HO
2	Gennady	Korotkevich
3	Karol	Farbis
4	Yuzhou	Gu
5	Mitchell	Lee
6	Yuqing	Ai



They're off

Welcome to the 24th International Informatics Steeplechase, and these magnificent horses are now under starter's orders after a false start and a 30 minute delay... and they're off... a strong start from the favourite who soon finishes the first two laps, but wait, some of the other horses are making a powerful comeback, and they're going into the home strait neck and neck, and as they cross the finishing line, it's a photo finish. "Ladies and Gentlemen, what a race!"



PHOTO by CRISTINA SALI

Curiosity

Contestant



IOI 2012 challenges young computer programmers from all over the world with different cultures and personal stories coming together in this large family.

Aminu Folawiyo¹, who turned 13 just a couple of days ago, is the youngest student this year. He's taking part in the Nigerian team.

According to IOI 2012, students mustn't be older than 20 years of age so it's the last IOI for German **Tilmann Bihuer**² the oldest contestant.

In yesterday's newsletter Roberto Grossi, one of the creators of the

contest management system, said the low number of girls taking part in the games is mainly due to a natural aptitude boys have for computer science. There are 5 girls officially enrolled in the games: **Amira** from Libya, **Bristy** from Bangladesh, **Carolina** from Argentina, **Giada** from Italy, **Shantal** from Trinidad and Tobago as well as some female reserves and translators. The big family of IOI this year includes two participants who have more in common than a mere love for computers and technology: Serbian twins ³ and **Boris**⁴ **Gubric**.

Meanwhile, the visitors..

Yesterday, while the teams were occupied in the first day of the competition, the visitors were able to relax with a day out in Brescia. The city, considered the second industrial centre in Lombardy, also has a rich artistic heritage. The tourists, accompanied by a guide, visited the S. Giulia museum and the remains of Roman Brescia, and then wandered round the picturesque streets of the historic centre, passing through the most famous squares in the city. After a highly cultural morning, the

visitors lunched at the Mantegna Hotel and Catering School, where the students laid on a rich banquet, from casoncelli to chicken filled with a special stuffing, from polenta to an ice cream cake, the guests were able to taste many Italian delicacies. In the afternoon a stop in the Freccia Rossa Shopping Centre was a must, giving the visitors a taste of shopping 'made in Italy'.



PHOTO by CLAUDIO FOCO

happy birthday



26 September
Francisco Machado (Portugal)

byte



Plautus

Not by age but by capacity
is wisdom acquired.
(Titus Maccius Plautus c.
254-184 BC)

snack

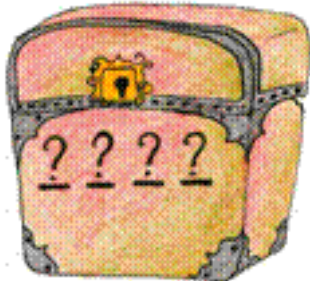


Tiramisù

lady finger biscuits
coffee
mascarpone cheese
eggs
sugar
cocoa powder
Marsala wine

The word tiramisù means **pick me up** in Italian. Lady finger biscuits are dipped in coffee then covered with a creamy mascarpone egg mixture. The biscuits and cream are arranged in layers then topped with a dusting of cocoa powder. Marsala wine is a fortified wine from Sicily traditionally added to the cream for a stronger taste.

games BY
THE MATEMATICA SENZA FRONTIERE
ITALIAN TEAM



Mysterious number

1

Marcel Tupin wants to rob a bank. He knows he will have only a short time to find the combination of the safe before the police arrive. An accomplice has given him this information:

The combination is a 4-figure number

The product of the numbers at either end is 15

The sum of the central numbers is 7

All the numbers are different

Identify all the combinations which could open the safe.

2 Password

Maria is worried. She has been invited to a party tonight by a new classmate who has sent his address by e-mail but she can't remember the password of her e-mail account.

She can only remember that it is a number between 1000 and 2 billion which is both the square of an integer and the cube of an integer and also the fifth power of an integer. In desperation Maria tries hundreds of numbers without success. In the end she decides to ask her friend Sofia who is a maths enthusiast. Sofia listens to her story, thinks for a moment and then exclaims: "There's only one number that satisfies all these conditions! The number is...."

What is the forgotten number?



Game solution issue 3

On donkeyback

There are two solutions:

Solution 1

Fari	carries the	1 kg, 5 kg, 9 kg sacks
Nio	carries the	2 kg, 6 kg, 7 kg sacks
Tonda	carries the	3 kg, 4 kg, 8 kg sacks

Solution 2

Fari	carries the	1 kg, 6 kg, 8 kg sacks
Nio	carries the	2 kg, 4 kg, 9 kg sacks
Tonda	carries the	3 kg, 5 kg, 7 kg sacks

Second Hand shop

Setting x as the total number of objects gives:

$$(x-42) + (x-32) + (x-47) + (x-44) = x$$

$$\text{Thus } 3x = 165, \text{ therefore } x = 55.$$

The number of coins is:

$$55 - 42 = 13; \text{ similarly there are 23 jars, 8 pill boxes and 11 necklaces}$$

IOI 2012 on the web

- Website - www.ioi2012.org
- Newsletter - www.ioi2012.org/newsletter
- Facebook - www.facebook.com/ioi2012Italy
- Youtube - www.youtube.com/user/ioi2012media
- Twitter - <https://twitter.com/IOI2012>; official hashtag: #ioi2012

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Aleksejs Popovs @popoffka

After Day1, 2 contestants from Latvia are above the bronze cutoff, and 2 more (incl. me) are just below it. Everything's up to Day2 #ioi2012

Espandi



Aleksejs Popovs @popoffka

Time management issues. Again. When will I learn that spending 3 hours on a task that's "kinda interesting" is a _very_ bad idea? #ioi2012

Espandi



Blah @BlahAccountBlah

Good luck Egyptian team and have fun :) @IOI2012 from an old competitor ;)

Retwittato da IOI 2012

Espandi



Claudia Valarino @Hey_Claudia

good luck Venezuelan team! @IOI2012 (Specially my brother! ;)) Enjoy!!

Retwittato da IOI 2012

Espandi