

## **NATIONAL WINTER COMPETITION IN INFORMATICS (NWCI)**

**Area:** Informatics

### **Style of the Competition:**

- A. Algorithmic style programming tasks like the tasks of the International Olympiad in Informatics. Tasks typically used in STI are focused on designing and programming efficient and correct algorithms.
- B. Individual competition
- C. Financial conditions: some charge is applied (8-10 leva for a competitor)
- D. The competition has a time limit for solving the tasks (3 to 5 hours depending of the age of contestants).
- E. Style of competition: Presence needed (attendance of the participants at an appointed time and place). Each contestant is using individual computer. Solutions are submitted for evaluation through web-based grading system.
- F. Method of evaluation: evaluation of the submitted source codes is made by the grading system, immediately after the end of the competition, with unknown to the contestant set of tests.
- G. NWCI is organized by the Ministry of Education and Science and the host city representatives (Ruse, Pleven, Varna, Burgas, Dobrich) with the scientific support of the Union of Bulgarian Mathematicians. The chair and the members of the Jury are proposed by the Union of Bulgarian Mathematicians and are approved by the Minister of Education and Science. The competition problems are prepared by the Jury.
- H. The host city constitutes an Organizing committee which consists of 4-5 persons.
- I. Way of announcement of the competition: NWCI is included in the annual schedule of the Ministry of Education and Science and is announced by the structures of the Ministry.
- J. All the competition materials: problems, results, authors' and contestants' solutions are published on the Bulgarian Internet portal for competitive programming [infoman.musala.com](http://infoman.musala.com).
- K. For the last 3 years there were the following competition groups: A – 12<sup>th</sup> grade, B – 10<sup>th</sup> and 11<sup>th</sup> grade, C – 8<sup>th</sup> and 9<sup>th</sup> grade, D – 6<sup>th</sup> and 7<sup>th</sup> grade and E – 4<sup>th</sup> and 5<sup>th</sup> grade.
- L. Types of awards: certificates. Some material prizes are provided by sponsors.
- M. WCI is a part of the National Winter Competition in Mathematics, Informatics and Mathematical Linguistics.

**Target Group:** open for everyone Bulgarian school students.

**Age of Participants:** From 11 to 19 years.

**School level of Participants:** Primary and Secondary schools.

**Number of Participants and the number of editions of the competition in the Last 3 Years:** Each year one edition. The total number of competitors is about 150-200.

**History of Competition:** History of the competition is a part of the history of the Winter Competitions in Mathematics, started in 1982 from prof. D. Dochev in Russe. Since 1983 in the competition is included a tournament in programming for secondary school students. Since 1986 the contest is with two age groups: 6<sup>th</sup>-7<sup>th</sup> and 8<sup>th</sup>-11<sup>th</sup> grades, since 1999 – three: 5<sup>th</sup>-7<sup>th</sup>, 8<sup>th</sup>-9<sup>th</sup> and 10<sup>th</sup>-11<sup>th</sup> grades, since 2002 – four: 4<sup>th</sup>-6<sup>th</sup>, 7<sup>th</sup>-8<sup>th</sup>, 9<sup>th</sup>-10<sup>th</sup> and 11<sup>th</sup>-12<sup>th</sup> grades and since 2005 – in five age groups: 4<sup>th</sup>-5<sup>th</sup>, 6<sup>th</sup>-7<sup>th</sup>, 8<sup>th</sup>-9<sup>th</sup>, 10<sup>th</sup>-11<sup>th</sup> grades and 12<sup>th</sup> grade. Since 1989, for senior age group, and since 1996, for all other age groups, only teams of students could participate in the competition. Since 2002 the competition is individual again for all age groups.

**Financial Basis of the competition:** The competition is supported financially by the Ministry of Education, the Union of Bulgarian Mathematicians and sponsors.

**Contact Address of the Organizers, E-mail, Web page(s):**

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**Problems given:** tasks, tests and author's solutions for last 6 years, as well as the solutions of all contestants for last 4 years are published on the site [infoman.musala.com](http://infoman.musala.com).

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