

ASIA-PACIFIC INFORMATICS OLYMPIAD 2015

CALL FOR TASKS GUIDES

GENERAL DESCRIPTION

The Asia-Pacific Informatics Olympiad (APIO) is an online competition for the Asian and Western Pacific region. APIO 2015 will be held on 9th May 2015. APIO 2015 will be hosted by Indonesia (i.e. Indonesian Olympiad in Informatics, abbreviated as OKI in Indonesian).

IMPORTANT DATES

- Call for tasks period: 22nd March (Sun) - 18th April (Sat)
- Draft tasks-set distribution: 25th April (Sat)
- Tasks-set voting deadline: 30th April (Thu)
- Final tasks-set distribution: 2nd May (Sat)
- Tasks-set translation deadline: 7th May (Thu)
- Competition day: 9th May (Sat)

COMPETITION TASKS

APIO tasks are basically the same as tasks in International Olympiad in Informatics (IOI), which are typically focused on the design of efficient and correct algorithms. Input and output are to be kept as simple as possible. The submission of novel task types not yet seen in any recent programming contests is encouraged. The guidelines of task preparations of IOI should be considered, with no restriction. The documents about submission of IOI tasks, which can be used as a reference to create the tasks, can be found at IOI website (i.e. www.ioinformatics.org).

To ensure a fair and interesting competition for all, tasks should satisfy the following conditions:

- The tasks should not have been seen by any potential APIO 2015 contestants.
- The tasks should not have been used in any similar competition.
- The tasks should be solvable by APIO competitors during an APIO contest round.
- The task descriptions should be unambiguous and easy to understand.
- The tasks should be culturally neutral.
- The tasks should be innovative.

WHAT TO SUBMIT

A task submission should be contained in one zip file up to 6 MB in size and submitted as described below.

- **Statement of the task in English.** The description should be written in English. The description should include any intended time and/or memory limits. The document should be submitted in LaTeX, PDF or MS Word format.
- **Description of the desired solution to the task.** At least one sample solution should be included, in either C, C++ or Pascal. It is highly desirable to include a short document that:
 - outlines how a correct solution works, and
 - discusses other possible solutions that students might think of but should not score full marks (e.g. solutions that are intuitive but incorrect, or solutions that are too slow).
- **Suggestions for grading,** test data or ideas for generating test data, the motivation behind the task, and any comments related to the task are also welcome. Test data should consist of a set of input files and a set of corresponding solution files. Individual test cases should be weighted equally. Test data should come with a text file describing how the data was constructed and/or what each case is designed to test (e.g., "cases #3 and #4 are balanced trees of maximal size, which gives a worst case scenario for the dynamic programming algorithm"; "cases #5 and #6 contain sparse graphs, so that students with poor edge selection routines can still score some points").
- **Extra information,** especially coded solutions and grading suggestions, is highly appreciated.

HOW TO SUBMIT

Email to apio2015@toki.or.id as follows:

- Subject: **[Task Submission] <your-name>**
- Body: Background information on the task author(s): affiliation, country, and a description of the author's role in the APIO or national olympiad, including training duties, over the period from APIO 2014 to APIO 2015.
- Attachment: The zipped task submission.

NOTES

Please note that all materials submitted become the property of the APIO community, and that by submitting, the author is assigning the copyright and all rights to the submitted materials to the APIO community.

While the authors of submitted tasks can be involved in other competition and training, it is important that the authors take all necessary precautions to safeguard the confidentiality of the submitted tasks.

TASKS SELECTION PROCESS

For tasks that are not selected, the copyright and all rights to them are considered transferred back to the authors, so that they can be used elsewhere.

All properly submitted tasks will be shortlisted. The shortlisted tasks will be distributed to all leaders of delegations. Hence a submitted task, even if it is not selected for APIO 2015, will be seen by all leaders. Leaders of delegations may provide suggestions and collectively decide the tasks to be used in APIO 2015.

During the preparation of the APIO 2015, it is possible that a task is dropped from further consideration, but later the decision is reverted and that task is selected for the competition. Hence, all submitted tasks, whether dropped or not, must be kept secret until the end of competition.

Authors of submitted tasks will be recognized during APIO 2015 by listing their name, affiliation, and country (unless they specifically decline this).

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Scientific Committee

Asia-Pacific Informatics Olympiad 2015

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