

IATI'2020 Shumen (Online Competition) E-Proctoring Minimal Rules

(03.11.2020)

Introduction

Due to COVID-19, IATI'2020, will be conducted as an online competition. To ensure the integrity of the competition results, the Host organizing committee hopes that every team could assist in enforcing the rules of the competition in the best possible way.

By default, team leaders are assumed to enforce these minimal rules for their team during the execution of IATI'2020. Deviation from the requirements will be ground for immediate disqualification.

Brief Description of the Contest Rules

- Contestants are expected to access the Online Judge system for IATI'2020 via a computer with Internet access.
- Task solutions should be written in C/C++
- Reference materials (written, printed, or digital forms) are not allowed.
- Exceptions may be made for physical (printed) dictionaries.
- During the contest, contestants should not (directly or indirectly) access any online resources.
- During the contest, there should not be any communication with another individual(s) unless permitted by the appointed proctor.
- There will be no online scoreboard during the contest, neither for the contestants nor the leaders and proctors. -Results will be posted after each contest day.
- Any suspicions of cheating will be investigated accordingly.

Proctors

- The team leader is expected to be responsible for enforcing the Online IATI'2020 Contest Rules for her/his team. Every contestant is expected to be *physically* invigilated/proctored by the team leader or an adjunct appointed by the team leader.
- The team leader/adjunct *must not have any conflict of interest* with the performance of the participant. For example: parent/sibling of a contestant, (main) coach of contestant(s).
- Proctors must also be registered in the IATI Registration System.
- There must be at least two proctors per contest site to enforce the contest rules.
- Contest site must not be left un-proctored at any time during the contest, e.g., if the proctor has to go to the toilet.

Contest Sites

- Each team can establish either a single (preferred) or multiple 'contest-sites' each with one or more contestants participating. There is no restriction on the location of the site as long as all the rules are adhered to. Here are some examples of possible candidates for contest-sites:
 1. Computer Laboratory in local universities/schools
 2. Meeting room within a corporate office
 3. Leader's or participant's place of residence (only in case if isolation is enforced due to COVID-19)
 4. Conference room in a hotel

- Every contest site should have the following setup:
 1. Computers with Internet connectivity. One is required for each participant. *Spares are highly recommended.* Details on the hardware and software specifications of the computer can be found in the later section.
 2. Sufficient equipment and connectivity for the *onsite proctor* to engage in a video call (preferred) or at least web messaging with the host organizing team throughout the contest *for emergency cases.*
 3. IMPORTANT. The technical staff of contest site must be able to **restrict Internet access** to only one address, which will be told. The grading system through which the competition will be provided, will not work if there is unrestricted internet access. Appropriate instructions will be sent to ensure this.

- For the avoidance of doubt, the below features of a typical IATI are allowed, but not required (optional):
 1. Participants can bring snacks, food and/or mascot.
 2. Printing services must be available (sheets printed are to be checked by the proctor before given to the contestants).
 3. File backup system to migrate contestant's work during a machine failure.
 4. Network and power redundancy systems.
 5. External keyboard and mouse.

The Recorded Videos

Every contest site should have the ability to record and store video footage of the contest site, showing the physical movements of each participant. It is each team leader responsibility to store the video materials of the competition for a period at least 30 days after the end of the competition. Video material should be provided in case of contestation.

Each contestant computer should have the ability of screen recording (e.g. with recommended software OBS (Open Broadcaster Software))

- Minimum requirements:
 - ☑ Must be able to see all of the faces (including the presence of at least one proctor at all times)
 - ☑ Screen recording should have enough quality to verify that participant is not violating any rules: full display, at least 5 frames/second, at least 640x360 output resolution, no audio
 - ☑ Videos must be able to be used to determine the following:
 - Are contestants at their computers?
 - Are there any proctors in the room at all times?

Computer Specifications

Recommended hardware specifications:

1. At least 8 GB RAM
 2. At least 64 GB of free usable storage space
 3. Intel CPU with at least 2 cores/4 threads
 4. Network connectivity (WiFi or Ethernet)
 5. Only a single screen is allowed per participant
 - a. e.g., Participants cannot use multiple external monitors
 - b. e.g., Participants cannot use both a laptop screen and an external monitor
- Important: Hardware/network/electrical failures are the responsibility of the team, and will not be grounds for extra time. Please provide spares for redundancy.*

Notes

- ☒ *There is no restriction on Operating Systems and IDEs. It is recommended to install what the participants are familiar with.*
- ☒ *(As of today) There is no Operating System image provided by IATI'2020 HTC.*
- ☒ *It is strongly discouraged to use the participant's personal computers for the competition unless absolutely necessary*

Recommended software:

IDEs: CodeBlocks, Dev-C++

Compilers: GCC 10.1 or MingW (for Windows)

Browser - Latest version of Edge, Safari, Firefox or Google Chrome

Application that can open PDF files (e.g., Adobe Acrobat)

Application that can open text files (e.g., Notepad)