

Programming Midterm Preview

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CSCI2100A Data Structures

Time & Venue

- Time: **April 8th**, Friday, 6:00 p.m. - 9:00 p.m.
- Venue: **SHB 924**
- Please arrive the venue **before 5:30 p.m.** We will have a **warming-up session** from 5:30 p.m. - 6:00 p.m.
- Every student is assigned to a seat with a paper of user account info.
- Can bring any printed materials

Environment

- The operation system will be Ubuntu Linux 12.04 LTS, with **GUI**
- And the computer configuration will have these basic editors:
 - Vi/VIM
 - Emacs
 - Gedit (with GUI)
 - Nano
- How to debug?
 - Compile your source code using gcc, check Tutorial notes 5
 - Or use gdb, check Tutorial notes 7

Submit Tool

- We will use a GUI base tool to help to submit your program — — [PC^2](#) (ACM-ICPC official tools)
- It is **simple** and **robust**.
- All things can be done by just several clicks.

login to PC^2

PC^2 Login

California State University, Sacramento
Programming Contest Control System



SACRAMENTO
STATE

Name

Password

Login Exit

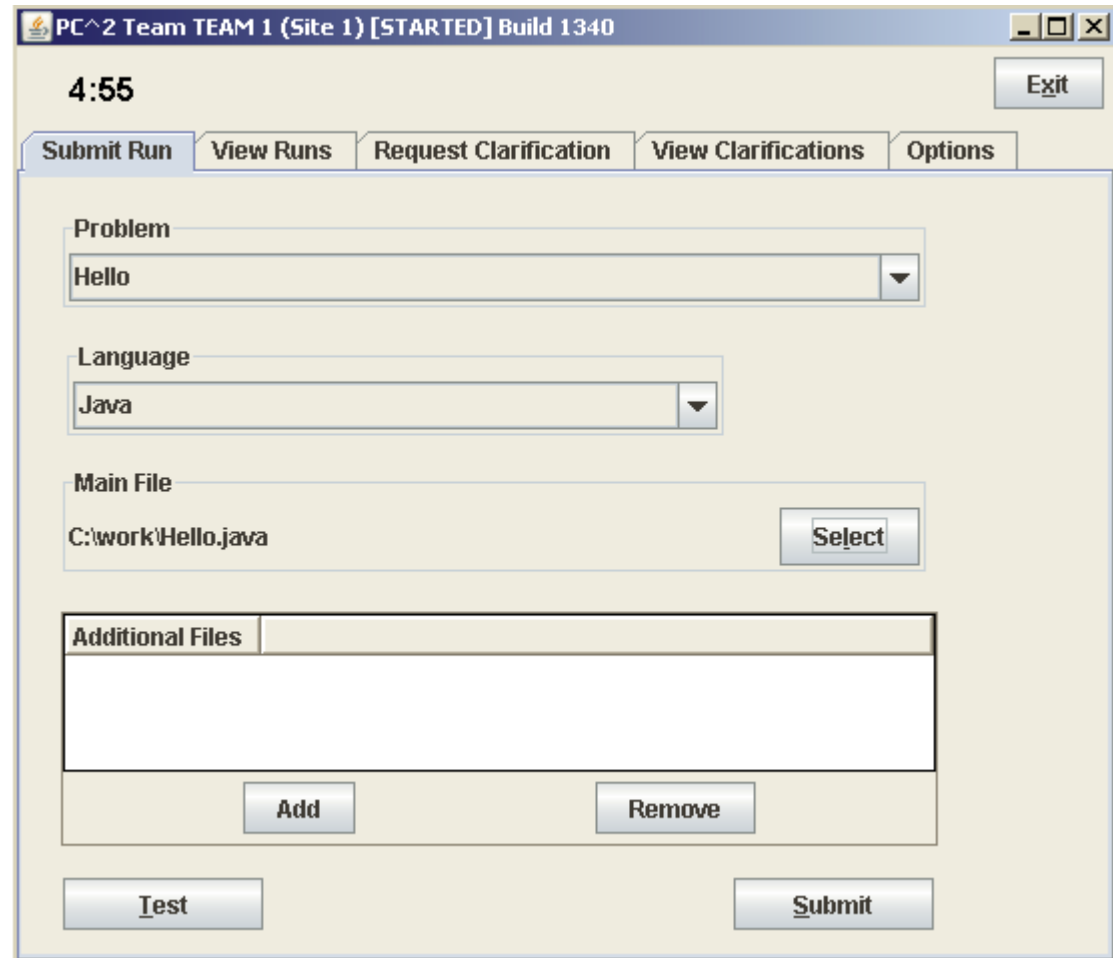
PC^2 version 9



acm International Collegiate Programming Contest IBM event sponsor

Submitting a Program to the Judges

- Clicking on the **SUBMIT RUN**
- Clicking in the **Problem** box will display a drop-down list of the contest problems
- Clicking in the **Language** box to choose Language (only C in our midterm)
- Click on the **Select** button, select your **source code** e.g. **A.c**, (only C in our midterm)



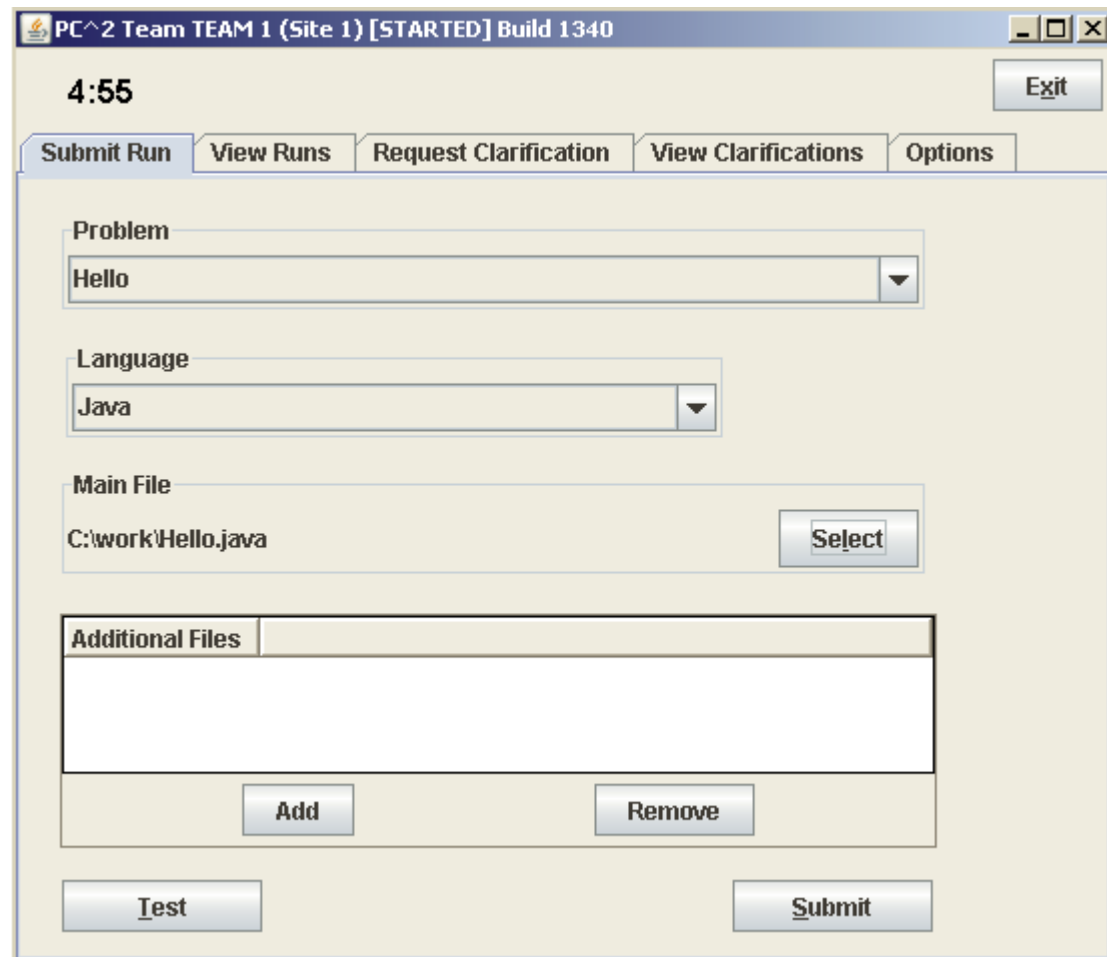
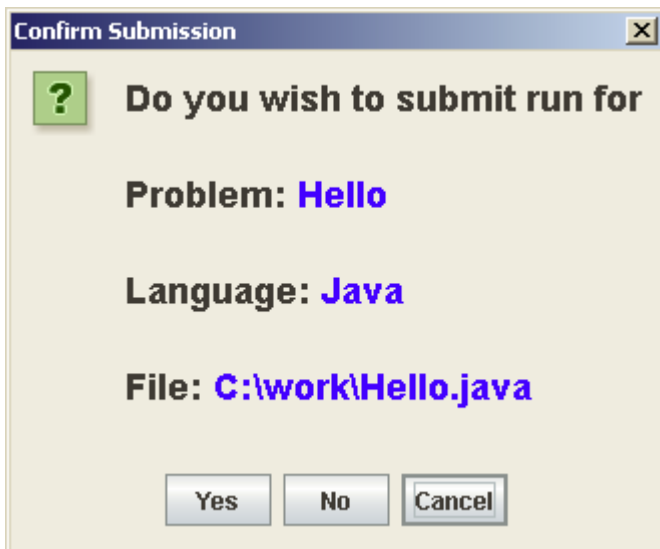
The screenshot shows a web-based submission interface. At the top, the window title is "PC^2 Team TEAM 1 (Site 1) [STARTED] Build 1340". The current time is 4:55. There is an "Exit" button in the top right corner. Below the title bar are five tabs: "Submit Run" (which is active), "View Runs", "Request Clarification", "View Clarifications", and "Options".

The main content area contains the following fields and controls:

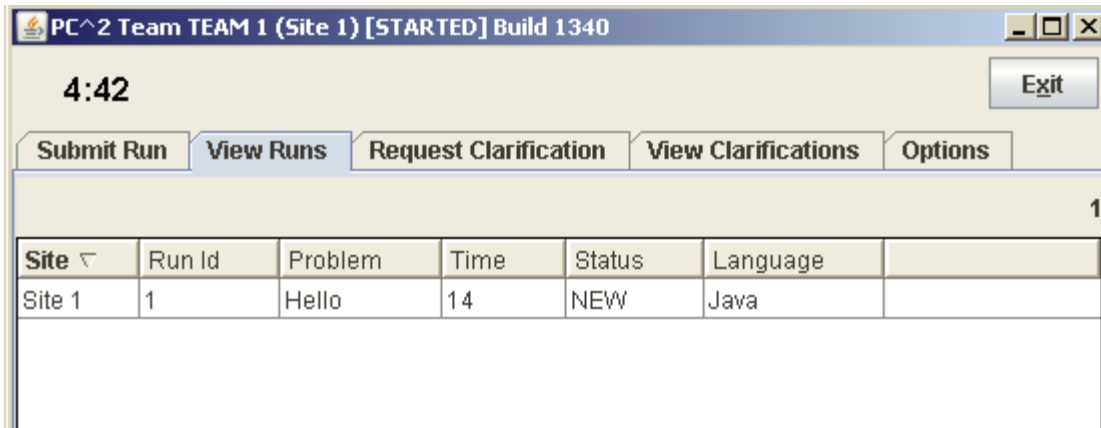
- Problem:** A text box containing "Hello" with a dropdown arrow on the right.
- Language:** A text box containing "Java" with a dropdown arrow on the right.
- Main File:** A text box containing "C:\work\Hello.java" and a "Select" button to the right.
- Additional Files:** A table with one header cell "Additional Files" and one empty body cell.
- Below the "Additional Files" table are two buttons: "Add" and "Remove".
- At the bottom of the interface are two buttons: "Test" and "Submit".

Test Runs

- Click the **Test** button
- This will make a “**TEST RUN**”, meaning it will compile and execute your program *on your machine*.
- Once you are satisfied with the results of your Test Run, click the **Submit** button.



Run Results



PC^2 Team TEAM 1 (Site 1) [STARTED] Build 1340

4:42 Exit

Submit Run View Runs Request Clarification View Clarifications Options

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Site ▾	Run Id	Problem	Time	Status	Language	
Site 1	1	Hello	14	NEW	Java	



Run Judgement Received

 Judge's Response

Problem: Hello

Language: Java

Run Id: 20

Judge's Response: Yes

OK

Details of Penalty

- Penalty = **no. of minutes passed** + **no. of wrong submissions** x 20

Example:

- If you have 3 **incorrect submissions** for Q.2, and you get a **correct submission** at 6:32 p.m.
- Penalty for Q2 = **32** + **3** x 20
- Grade for each question depends on penalty
- If you don't have any correct submission, you will get 0 for that question

Thanks & Good Luck!