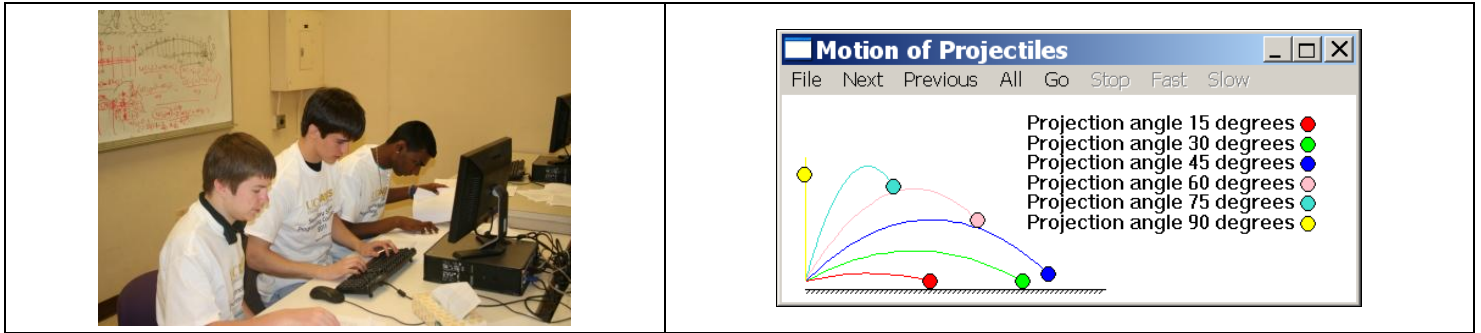**UCDAVIS**
C-STEM Center

Call for Participation
2012 Secondary School Math Programming Competition!

Early registration deadline: March 30, 2012
Final registration deadline: April 15, 2012
Date of Competition: April 28, 2012
Awards Ceremony: UCD C-STEM Day, May 5, 2012
http://c-stem.ucdavis.edu

Objectives

The UC Davis Secondary School Math Programming Competition provides students in secondary schools with the opportunity to apply their fundamental computer programming skills for applications in mathematics. Being the gatekeeper to STEM careers, mathematics is necessary for all secondary school students. This competition challenges students to apply their programming skills to solve math problems. Students will use structured programming in C, including basic programming concepts such as variables, math expressions and operators, selection statements, and loops for computer-aided math problem solving.

Competition Rules

- Team members are currently enrolled in Algebra I or Pre-Algebra at the time of the competition.
- They should have not completed Algebra I at the time of the competition.
- Team members can be from Elementary, Middle or High Schools.
- One computer installed with the C/C++ interpreter Ch (including on-line references for standard C functions) will be provided for each team. Use of other electronics during the competition, including other computers, calculators, cell phones, and other computing devices is not allowed.
- Each student may bring a set of notes and any C programming and math books of their choice. There will be no internet access during the competition. If a team is caught using the internet during the competition, the team will be disqualified.
- Once the competition has begun, the teams may speak to the Judges for clarification on problems, but should not talk to anyone else outside of their team.

Contact: Kevin Gucwa
Phone: (530) 752-1028
Email: kgucwa@ucdavis.edu

The UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM)

- The Competition will last three hours. Fifteen minutes will be given to orient themselves with the computer they will be using. The remaining time will be used to solve the math programming problems.
- Problems can be completed in any order. Points will only be awarded for fully completed problems. The program file should be named as follows:
     TeamName_problem_#.c (e.g. RiverCityHighSchool_Team1_problem_2.c)

Team Registration
- Each team can have 2 to 3 students
- Each school can have one team per category of the competition
- Teams must register before the deadline to assure that there are enough computers, lunch tickets, and other relevant materials available for all teams the day of the competition
- Teams that register before the early registration deadline must pay a registration fee of $60 per team
- Teams that register before the final registration deadline must pay a registration fee of $80 per team
- T-Shirts and Lunch Tickets for Tercero Dining Commons may be purchased separately for $15 a piece

Organizer
UC Davis K-14 Outreach Center for Computing and STEM Education (C-STEM)

Co-organizer
UC Davis Computing and Robotics Outreach Club
UC Davis Integration Engineering Laboratory

Contact:
For general inquiries, please contact:
   Kevin Gucwa, Director Assistant
   Phone: (530) 752-1028
   Email: kgucwa@ucdavis.edu
   UC Davis K-14 Outreach Center for Computing and STEM Education
   University of California, Davis
   One Shields Avenue
   Davis, CA 95616

Competition Coordinator:
   Uma Parakala, Email: ulparakala@ucdavis.edu