Cody Competition Guide

This guide will give you an overview of how to run a Cody competition. Read through this entire document before you move on to other files in this folder.

Overview

A Cody competition is a multi-day event in which students compete to solve the most MATLAB problems in a problem group. The problems in these groups are chosen to engage students with various MATLAB experiences. Participants are ranked on a leaderboard based on the number of problems they solve correctly and the efficiency of their code.

Feel free to decide the duration. You can have the competition running for few hours, 3 days or even 2 weeks.

Promoting the Competition

The competition should be advertised to all students on your campus. As with all events, the key to having a successful turnout is to promote early and to as many students as possible. Promote to as many different groups on campus as possible. The following files are included in the folder to help you promote the competition.

- **3_Poster Sample.pptx** – A poster explaining the competition
- **4_Email Template.docx** – An email invite explaining the competition and how to participate
- **5_Reminder_Email Template.docx** – An email reminding student that the competition is going on and the current rankings
- **6_Social media flyer.pptx** – Smaller banner image intended to generate interest for the competition on social media
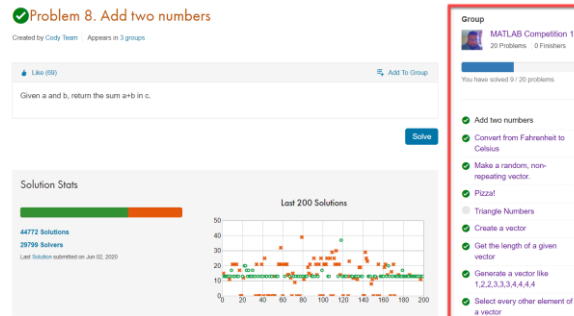
Organize Cody

- Announce the dates and duration of the event.
- Share the link of problem group from the Cody webpage
  - Few popular problem group links are given in the next section
  - Surely explore the Cody page for more problem groups
- To participate, the students simply use the link to the problem group and start solving problems.

Popular Problem Groups

Problem Group	Group ID
Introduction to MATLAB	78
CUP Challenge	7
Basics on Vectors	172
Cody Challenge	2
Basics - Rounding	174

Participants must solve the problems while in the problem group. If they leave the problem group and solve a problem, it will not count towards their problem group solution. When solving problems for the group, you will see them on the right of the page (picture below).

Timeline

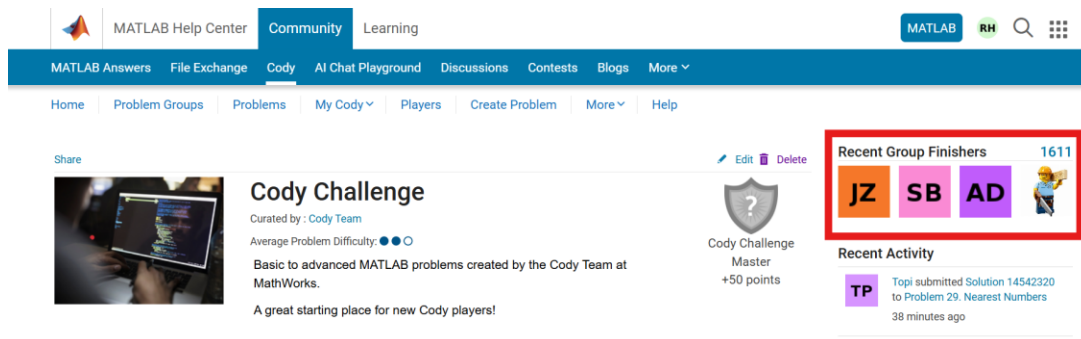| When	Description	Actions
4 weeks before	Start planning the logistics for the competition. Share the registration form	• Decide dates for competition
3 weeks before	Test the leaderboard code to ensure it's working for your university domain.	• Test setting up the leaderboard code • Solve a few problems and see how it appears on the leaderboard
2 weeks before	Begin advertising! To increase the number of participants, advertise early and advertise to everyone.	• Share the competition dates • Inform professors about this competition
1 week before	Set up leaderboard	• Use Setting up Cody Leaderboard.docx to set up the leaderboard
During	Share the leaderboard with your social media group every couple of days. Encourage people to keep participating	• Post Leaderboard frequently continue promoting competitions • Encourage students to keep solving problems
Last day of competition	Once the competition ends, no more entries will be considered. Use the leaderboard to decide winners.	• Announce the winners and thank everyone for participating
1 Week after	Set up time to give out prizes. It's suggested that you set up time slots on 2 different days.	• Hand out prizes

Leaderboard (Optional)

A guide on setting up the leaderboard can be found in the folder titled 'Setting up Cody Leaderboard' As an overview, the code for the leaderboard is set up to do 3 main things:

1. **Rank players based on the number of problems solved and then on solution size**. To avoid ties in participants who solve the same number of problems the total solution size across.
2. **Output a leaderboard file**. Your job will be to update the participants of the rankings. To keep the participants engaged and compete, post the leaderboard every few days.

Problems must also be solved within the timeline of the competition. While their account may show that they solved the problem, the leaderboard code only counts solutions submitted during the specified start and end date of the competition.

Prizes

1) If you are not using the leaderboard. You can see who has completed the problem group on the Recent Group Finishers tab, besides the problem group title. These group finishes are in chronological order. Feel free to give giveaways based on your judgement and number of group finishers.

2) If you want to use a MATLAB generated leaderboard, please refer to the 'Setting up Cody Leaderboard' folder in the toolkit

Feel free to connect with Roshan Hingnekar (rhingnek@mathworks.com) for any queries.