

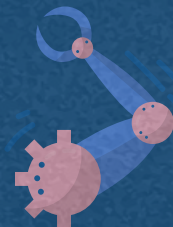
COMPUTER SCIENCE CLUB

Intro To CCC and DMOJ

Tony



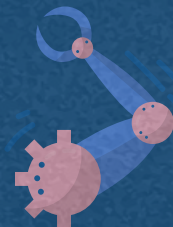
CCC





- Canadian Computing Competition
- Run by University of Waterloo
- Held in February, online
- We host it every year
 - Ask Mr. Seidel and Mr. Kowalczewski for questions about registration
- Two levels, Junior and Senior
 - 5 problems each
 - J5 ~= to S2
- Visit <https://cccgrader.com/> for more information

DMΘJ

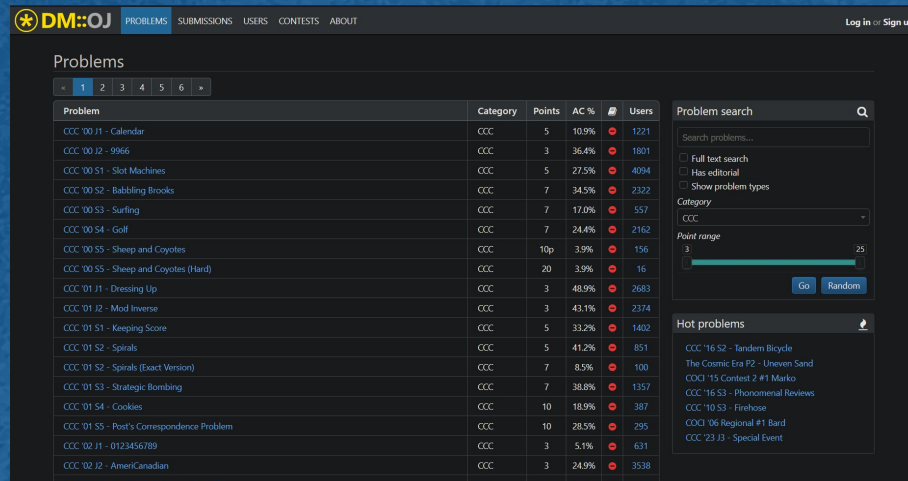


DMOJ

- DMOJ: Modern Online Judge. (yes, its actual name)
- Host lots of competitive programming questions
- Various competitions held by its users
- DMOJ.ca
- Supports various languages

DMOJ (a quick guide)

- Make an account
- Click on problems
- Filter to CCC
- Check out some of the problems!



The screenshot shows the DMOJ website interface. At the top, there's a navigation bar with links: PROBLEMS, SUBMISSIONS, USERS, CONTESTS, and ABOUT. The 'PROBLEMS' link is active. Below the navigation bar, the page title is 'Problems'. There's a pagination bar showing pages 1 through 6, with page 1 selected. The main content area displays a table of problems, all filtered to the 'CCC' category. The table has columns for Problem, Category, Points, AC %, and Users. To the right of the table, there's a 'Problem search' sidebar with a search bar and filters for 'Full text search', 'Has editorial', and 'Show problem types'. Below the search bar, there's a 'Category' dropdown set to 'CCC' and a 'Point range' slider set from 3 to 25. At the bottom of the sidebar, there's a 'Hot problems' section listing several problems with their titles and AC counts.

Problem	Category	Points	AC %	Users
CCC '00 J1 - Calendar	CCC	5	10.9%	1221
CCC '00 J2 - 9966	CCC	3	36.4%	1801
CCC '00 S1 - Slot Machines	CCC	5	27.5%	4094
CCC '00 S2 - Babbling Brooks	CCC	7	34.5%	2322
CCC '00 S3 - Surfing	CCC	7	17.0%	557
CCC '00 S4 - Golf	CCC	7	24.4%	2162
CCC '00 S5 - Sheep and Coyotes	CCC	10p	3.9%	156
CCC '00 S5 - Sheep and Coyotes (Hard)	CCC	20	3.9%	16
CCC '01 J1 - Dressing Up	CCC	3	48.9%	2683
CCC '01 J2 - Mod Inverse	CCC	3	43.1%	2374
CCC '01 S1 - Keeping Score	CCC	5	33.2%	1402
CCC '01 S2 - Spirals	CCC	5	41.2%	851
CCC '01 S2 - Spirals (Exact Version)	CCC	7	8.5%	100
CCC '01 S3 - Strategic Bombing	CCC	7	38.8%	1357
CCC '01 S4 - Cookies	CCC	10	18.9%	387
CCC '01 S5 - Post's Correspondence Problem	CCC	10	28.5%	295
CCC '02 J1 - 0123456789	CCC	3	5.1%	631
CCC '02 J2 - AmericanCanadian	CCC	3	24.9%	3538

DMΘJ (a quick guide)

- Has sample inputs and outputs
- General problem is described here
- Submit solution button
- Box to put code in
 - Can write program in here, but not recommended
- Various languages at the bottom
 - Double check that you can use them on the CCC!

DMΘJ Activity

- Beginners:
 - <https://dmoj.ca/problem/ccc23j1>
- Intermediate
 - <https://dmoj.ca/problem/ccc22j3>
- Advanced:
 - Any senior question of your choosing

More Questions

- Beginners:
 - <https://dmoj.ca/problem/ccc13s1>
- Intermediate
 - <https://dmoj.ca/problem/ccc19s1>
- Advanced:
 - Any senior question of your choosing

THANK
YOU!

