

Advanced Algorithms Homework 1

Instructions for the Implementation Problem

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Please follow these steps carefully:

1. If you don't have one, make an account on <http://codeforces.com> (You will need to verify your email, and you can use your personal email address if you prefer.)
2. (Optional). If multiple people in your group want to make submissions on the assignment, then you may either share one account (not elegant, and who gets to keep the account once the homework is done?), or form a team. To do the latter:
 - (a) Every person in your group should make an account.
 - (b) Go to <http://codeforces.com/teams>
 - (c) Here, one person should make a new team, and invite the other members. The other members should accept the invitation.
3. Go to <http://codeforces.com/group/0hPBaBCZvW>
4. Click "Join" on lower right, then go back to "Contests".
5. Click on the red "Register" button for the contest named "Advanced Algorithms Homework 2".
6. Select either "as individual participant" or "as a team member", depending on whether you made a team (see 2 above), and "Register".
7. Click "Enter".
8. You should see three problems named A, B, and C. Problem A (not graded) is a warmup problem to practice submitting programs. Problem B (*graded*) is on Karger's min-cut algorithm, and it corresponds to Problem 4 of Homework 2. Problem C (not graded) is on using Tutte matrix to decide the existence of perfect matchings, and it corresponds to Problem 5 of Homework 2.

Note the following:

- The objective is to get the Accepted verdict on the online judge.
- It does not matter how many unsuccessful submissions you make, or when you get your Accepted verdict, as long as it is before the deadline.
- Once you get Accepted on the online judge, your solution will stay Accepted forever and you can move onto other problems - you will get full score for this problem. In the unlikely event that we discover issues with our tests and need to rejudge some solutions, we will make an email announcement.
- If you do not get the Accepted verdict, you will not get any points for this problem.
- You may use any programming language supported by CodeForces.
- We will not grade your code (its elegance, what algorithm you used, ...).
- The warmup problem does not count for your grade.
- In your homework PDF, under the corresponding (sub)problem number, please just put the CodeForces handle (or team name) under which you have the Accepted verdict. Also put your names in a comment at the top of your code.

- We may run an automated plagiarism detector on your code. Please try not to submit the same or very similar solutions from multiple accounts (unless you use the team feature).