



## Homework II, Algorithms II 2024

### Instructions for the Implementation Assignment

#### Instructions

1. Create an account on Codeforces ( <https://codeforces.com/> ). If you already have one you can use your existing account.
2. Join the group EPFL Algorithms II 2024-2025 (CS-450) here: <https://codeforces.com/group/3n0bzGpgms>
3. Once you have joined the group, you can see our contests here: <https://codeforces.com/group/3n0bzGpgms/contests>.
4. The contest `hw2_epfl_cs450_20242025` is the contest for Homework II. Enter the contest. This contest contains 2 problems: Problem A, named `cbfgweiuhui-pt-1`, and Problem B, named `cbfgweiuhui-pt-2`. The first one is worth 20 points, the second one is worth 15 points.
5. You can submit your solution to these problems using any language that is available on Codeforces (this includes C++, Python, Java and many others). However, note that each programming language has its advantages and disadvantages. If you coded your solution in Python and you are struggling with a `Time limit exceeded` verdict on Codeforces, try checking that your code is not performing any “hidden” computationally expensive operations, e.g. `if elem in my_list: ...` etc. If this does not resolve the issue, try selecting a PyPy compiler in the drop-down menu when submitting your code in the “Submit code” tab, e.g. select PyPy 3.10 (7.3.15, 64bit).
6. You can find the details about the format of the interaction in the problem statements on Codeforces.
7. Your code should be submitted by only one member of the team and must contain the full names and SCIPERs of all of your team’s members as a comment in the first few lines.
8. In the written report that you will upload to Moodle, you should mention the username of the person that submitted the code. This person should be the same for both Problem A and Problem B.
9. For both Problem A and Problem B: the solution that we will take into account is the last submission of this username that has the `Accepted` verdict on Codeforces.

#### Please Note the Following!

1. The objective is simply to get the `Accepted` verdict on Codeforces. It does not matter how many solutions you will submit or when you will get it, as long as it is before the deadline.

2. There are no extra hidden test cases. This means that if your solution is accepted on Codeforces, it will count as correct. In the unlikely event that we discover an error in our test cases, we will notify everyone by an announcement on Moodle.
3. For both Problem A and Problem B: if your code does not get the **Accepted** verdict on Codeforces, you will not get points for that problem.
4. For both Problem A and Problem B: if the code you have submitted does not contain the names and SCIPERs of your team's members, you will not get points for that problem.

If you run into any problems, you can ask on Ed or contact the TA Davide Mazzali.