

Goal

Your task is to implement an executable program, which will read two csv files, join them using a specified column and then write the result to the standard output. Users should be able to specify the join type (inner, left or right).

Implementation should not rely on external libraries for joining the files.

The program should be executed with a command: `join file_path file_path column_name join_type`

Assumptions

1. Input files conform to the [rfc4180](#) ([mirror](#))
2. Header is always present
3. Rows may appear in any order
4. Each input file can be much bigger than there is available memory on the machine

Delivery

Please, create a new public github repository. Work on your solution on a `dev` branch. When the solution is ready, open a pull request against the main branch of the repository and send us a link. This will allow us to go through a code review phase. We will be able to communicate faster and ask questions about the solution if needed. Also, you will receive a part of the feedback sooner.

Review

We will focus on three aspects of the source code:

- correctness
- quality (i.e code and documentation)
- what was tested and what was not

Hints

1. Implement and argue for the default join type (if none specified)
2. Handle invalid parameters
3. Not testing something is also OK as long as the decision can be defended
4. Document the solution and important decisions you have made