

ТЕХНОЛОГИЧНО УЧИЛИЩЕ „ЕЛЕКТРОННИ СИСТЕМИ“
КЪМ ТЕХНИЧЕСКИ УНИВЕРСИТЕТ – СОФИЯ

Предмет:

Технология на програмирането

ПРОТОКОЛ №: 1

ТЕМА:

“Learn from your mistakes!”

Yu'lon <The Jade Serpent>

Изготвили: *Team “Lazy Slobs”*

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Review of the following program:

Borislav_Stratev_2_a65be5.rb

Command used in the tests:

```
ruby Borislav_Stratev_2_a65be5.rb ../fixtures/1st ../fixtures/2nd ../fixtures/3rd
```

This allows the reviewer to test the program's ability to work with 3rd argument.

Fixture notes:

First name is always with a capital letter!

Last name is always with a capital letter!

There is no file name starting with a number or digit!

There is no more than two underscores in any file.

If fixture notes are not kept this way, program may not work properly.

Review results:

Upside:

Handles 2 arguments, discards next.

Doesn't throw errors.

Creates a .csv file

Downside:

Created resultS.csv , not result.csv

Result.csv didn't match expected_results.csv

ResultS.csv also didn't match expected_results.csv

Upon first look at code:

Handles file names correctly.

Compares file from 1st dir to every file in 2nd dir.

Sorts via ASKII

CRITICAL PROBLEM: results should be in format: LastName , FirstName

Not : LastName + digits , FirstName + digits

First fixes made:

Changed resultS.csv to result.csv

```
Changed code :   if(file_name_1 != file_name_2)
                  file_name = file_name_1
                  digit = file_name.split(/_/).last.split(/\./).first.to_s
                  first_name = file_name.split(/_/).first.to_s
                  full_first_name = first_name + digit
                  full_first_name = full_first_name.to_s
                  tmp = file_name.split("#{first_name}_")
                  full_last_name = tmp.last.split(/_/).first.to_s + digit
                  full_last_name = full_last_name.to_s
                  h[full_last_name] = full_first_name
                end
```

```
To:      if(file_name_1 != file_name_2)
          file_name = file_name_1
          first_name = file_name.split(/_/).first.to_s
          file_name = file_name.split(/_/)
          last_name = file_name[1]
          last_name = last_name.split(/_/).first.to_s
          h[last_name] = first_name
        end
```

This code fixes the **Critical** problem (misunderstanding the task). But this IF will not solve problem 3:

- Find the students that are only in the first folder and not in the second. A student is in both folders if there is a file with the same First and Last Name. Digits might be different

Problems, regarding the task and code:

Using Hash key is not recommended since there are people with same last names. If used it will result in overwriting similar key values.

```
h[last_name] = first_name
```

Possible solutions:

Array of arrays

Hash key with value - array

After a long and painful forum digging session, a solution was not realized. Maybe look into that again, hmm?

Scores and final thoughts:

After a heavy workday, file `Borislav_Stratev_hotfix.rb` was created.

Score Table:

- 1 point if program throws no errors
- 1 point if the task is correctly understood
- 1 point if it works in a basic scenario (basic fixture)
- 1 point if it works on all scenarios (complex fixture)
- 1 point if done under 30 minutes

Judging by this table, Mr. Stratev scored 2 points.

Our expertly trained monkeys scored 3 points, taking a whole day to finish and failing to work with a complex fixture.

Hours invested in this project: 6 hours from Vasil Kolev and 5 hours from Dimitar Andreev