

Технологично Училище "Електронни системи" към ТУ-СОФИЯ

Радослав Костадинов Борислав Русинов Кристина Пиронкова

Доклад за резултатите от контролна работа № 1

"ErrorBusters"

Октомври 2014

1. Purpose of the report

The aim of this report is to summarise the results from the first exam in Software Engineering Coursse in ELSYS. The results provided below are from classes class 11"A" and class 11"B".

2.Statistics

The amount of the submitted programs is 24 from 11a class and 10 from 11b class which equals to 34 submitted programs out of 58 students.

Unfortunately, only 5 were correct. The mistaken programs have different types of errors, but we can categorize them to:

- 1.Wrong File Name
- 2.Wrong Name of the '.csv' file
- 3. Wrong sorting
- 4. Mistyped keywords
- 5.Unnecessary printing
- **6.Wrong Whole Program**

3. Recommendations for fixing the errors

- It would be nice to emphasize to the students that the Automatic Program Checker needs exact names of files
- It would be nice if they were using key_words which they know
- It would be nice if students had prepared appropriate fixtures with which they can test their programs
- It would be nice if students have commented their tasks in the beginning of the file, because it is difficult to understand what are the errors if we do not know what problem students have to solve

Appendixes

A CLASS

1.Borislav Rusinov:

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_6fb3ad.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First_Last_digits.rb;
- 3. find all the students that have 10 letters in their first name;
- 4. Sort the result by Last Name DESC.
- 5. Produce a result in CSV format named result.csv:

```
FirstName1.LastName1
              FirstName2,LastName2
              FirstNameN,LastNameN
=end
a=ARGV[0]
require 'csv'
array=[]
Dir.glob("#{a}*.*") do |my_text_file|
       name = my_text_file.split("/").last.split(".").first.split("_")
       if name[1]!=nil && name[0].length==10
              array << name[0] + "," + name[1]
       end
end
array.sort!
array.reverse!
File.open("results.csv", "w") do |csv|
```

array.each do |arg| csv.puts(arg) end

end

Errors:

Wrong file name. Writing in "results.csv" instead of "result.csv". No checking for right format of files. Does not reverse, only sorting .

Solutions:

No need of "array.reverse!". It can be fixed by using hash. If hash was used it would be easier to sort and reverse the names of the files.

Ranking:

3/5

2. Veselin Dechev:

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_5f1c22.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First Last digits.rb;
- 3. find the students that are only in the first folder and not in the second. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by Last name;
- 5. Produce a result in CSV format named result.csv:

LastName1,FirstName1

LastName2,FirstName2

..

LastNameN, FirstNameN

=end

```
require 'csv'
result = Hash.new
Dir.glob(ARGV[0] + "*.rb").each do |first|
       name1 = first.split("/").last.capitalize
       first_name = name1.split("_").first.capitalize
       last_name = name1.split("_",2).last.split('_').first.capitalize
       Dir.glob(ARGV[1]+"*.rb").each do |second|
              name2 = second.split("/").last.capitalize
              if (name1 == name2)
                     result.compare_by_identity
                     result[first_name] = last_name
              end
end
end
CSV.open("result.csv", "w") do |csv|
       result.sort_by{|k, v| k}.each do |element|
              csv << element
              end
       end
                                             Errors:
       Wrong file name. Does not sort by last name. Pushes only the files that are in both folders.
                                           Solutions:
       if (name1 == name2)
                     result.compare by identity
                     result[first_name] = last_name
              end
       " He can change this with:
       if (name1 != name2)
                     result.compare_by_identity
                     result[first_name] = last_name
              end
              if !name2.include?(name1)
                     result[first_name]=last_name
              end
```

"->Here he pushes only the files from first folder

end

```
if (name1 == name2)
              result.compare_by_identity
              result[first name] = last name
end
" -> Here he must set last_name to key and first_name to value. After that he can easily sort the
hash by key.
CSV.open("result.csv", "w") do |csv|
result.sort_by{|k, v| k}.each do |element|
       csv << element
       end
end
"-> Here he can say "File.open("result.csv", "w") do |csv|
                             result.sort_by{|k, v|.k}.each do |element|
                                    csv.puts("#{element[1]},#{element[0]}")
                             end
                     end" which will print Last_Name,First_Name
```

Ranking:

1/5

3.Georgi Ivanov

Source code:

=begin

Develop a program named FirstName LastName ClassNumber 871529.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First_Last_digits.rb;
- 3. find all the students that have 5 letters in their second name;
- 4. Sort the result by First name DESC.
- 5. Produce a result in CSV format named result.csv:

```
FirstName1,LastName1
           FirstName2,LastName2
           FirstNameN,LastNameN
=end
require "csv"
arr = []
i = 0
Dir.glob(ARGV[0]+"*.rb") do |file|
     name = file.split('/').last.split('.').first.split('_')
     firstname = name[0]
     lastname = name[1]
     exercise = name[2]
     if firstname == " || lastname == " || exercise == "
     elsif name.length == 3
     if lastname.length == 5
           arr[i] = []
           arr[i][0] = name[0]
           arr[i][1] = name[1]
           i+=1
     end
     end
end
daiba = arr.sort_by{|asd| asd[0]}.reverse!
CSV.open("result.csv", "w") do |csv|
     daiba.each do |element|
           csv << element
```

end

end

Errors:

None.

Solutions:

There aren't any errors.

Ranking:

5/5

4.Denis Trenchev Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_b4c3f5.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First_Last_digits.rb;
- 3. find the students with 5 letters in the first name that are in both folders. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by Last name;
- 5. Produce a result in CSV format named result.csv:

LastName1,FirstName1 LastName2,FirstName2

. . .

```
LastNameN, FirstNameN
=end
require 'csv'
i = 0
arr1 = []
arr2 = []
arr3 = []
Dir.glob(ARGV[0]+"*.rb") do |first_folder|
       name = first_folder.split('.').last.split('.').first.split('_')
       if name.length == 3
               if name[1].to_s.length == 5
                      arr1[i] = []
                       arr[i][0] = name[0]
                       arr[i][1] = name[1]
                      i+=1
               end
       end
end
i = 0
Dir.glob(ARGV[1]+"*.rb") do |second_folder|
       name = second_folder.split('.').last.split('.').first.split('.')
       if name.length == 3
               if name[1].to_s.length == 5
                      arr1[i] = []
                       arr[i][0] = name_1[0]
                       arr[i][1] = name_1[1]
                      i+=1
               end
       end
end
i = 0
arr1.each do |compare1|
       arr2.each do |compare2|
               if compare2 == compare1
                       arr3[i] = compare1
                       i+=1
               end
```

```
end
end
sort = arr3.sort_by{|asd| asd[1]}
CSV.open("students.csv", "w") do |csv|
  sort.each do |element|
    csv << element
  end
end
                                      5.Dimitar Terziev
                                         Source code:
=begin
Develop a program named FirstName_LastName_ClassNumber_88db52.rb
1. you are given an argument for a folder with files;
1.1 if there are other arguments they should be discarded
2. file names in this folder are in the form First_Last_digits.rb;
3. find all the students that have 5 letters in their second name;
4. Sort the result by Last Name ASC.
5. Produce a result in CSV format named result.csv:
              FirstName1,LastName1
              FirstName2,LastName2
              FirstNameN,LastNameN
=end
require 'csv'
arr = []
Dir.glob("#{ARGV[0]}*.rb*"){|file|
      file_str = file.split('/').last
       if(file\_str=\sim /A[a-zA-Z]+\_[a-zA-Z]+\_]+\_[a-zA-Z]+\_]+
              arr.push("#{file_str.split('_')[1]} #{file_str.split('_').first}")
      end
```

CSV.open('result.csv','w'){|csv|

arr.uniq.sort.each{|el|

```
csv << "#{el.split(' ').last} #{el.split(' ').first}".split(' ')
}
```

There is a expression that is checking if there are only letters in the name of the file "file_str=~/\A[a-zA-Z]+_[a-zA-Z]+_\d+\.rb\z/" which is wrong.

Solution:

By deleting the expression"file_str= \sim /\A[a-zA-Z]+_[a-zA-Z]+_\d+\.rb\z/".

Ranking:

4/5

6.Dimitar Nestorov

Source code:

```
#Develop a program named FirstName_LastName_ClassNumber_0d5526.rb

#1. you are given an argument for a folder with files;

#1.1 if there are other arguments they should be discarded

#2. file names in this folder are in the form First_Last_digits.rb;

#3. find all the students that have 10 letters in their first name;

#4. Sort the result by Last Name DESC.

#5. Produce a result in CSV format named result.csv:

#

# FirstName1,LastName1

# FirstName2,LastName2

# ...

# FirstNameN,LastNameN
```

```
require 'csv'
def is_numeric(o)
  true if Integer(o) rescue false
end
array = []
count = 0
Dir.glob(ARGV[0] + "*.rb") do |file|
       name = file.split("/").last.split(".").first.split("_")
       name[0] = name[0].to_s
       name[0] = name[0].capitalize
       name[1] = name[1].to_s
       name[1] = name[1].capitalize
       if name.size == 3 && is_numeric(name[2])
              if name[1].length == 10
                      array[count] = []
                      array[count][0] = name[0].to_s
                      array[count][1] = " #{name[1].to_s}"
                      count += 1
              end
       end
end
array = array.sort_by {|el| -el[1]}
CSV.open("result.csv", "w") do |csv|
              array.uniq.each do |e|
                      csv << e
              end
end
```

" #{name[1].to_s}"

"array = array.sort_by {|el| -el[1]}"

```
"CSV.open("result.csv", "w") do |csv|
                                   array.uniq.each do |e|
                                             csv << e
                                          end
                                       end
                                    Solution:
                  "#{name[1].to s}"->There mustn't be space
  "array = array.sort by {|el| -el[1]}"-> This " - " is not needed and the program
crashes because of it. He must say "...el[1]}.reverse" to reverse the by last name
                         "CSV.open("result.csv", "w") do |csv|
                                   array.uniq.each do |e|
                                             csv << e
                                          end
                                       end
    "->Here he does not prints correctly the files in "result.csv" (he prints them
                First Name, Last Name). He must change it with
                             "CSV.open("result.csv", "w") do |csv|
                              array.uniq.each do |e|
                                   csv<< [e[0],e[1]]
                                       end
                                       end
```

Ranking:

7.Ivelin Slavchev Source code:

=begin Develop a program named FirstName_LastName_ClassNumber_835552.rb

1. you are given two arguments for a folders with files;

- 1.1 if there are other arguments they should be discarded;
- 2. Find all the files from both folders that are not in the format FirsrName_LastName_digits.rb. If there are duplicates the file must be written only once. If two files are of the same length those files should be sorted in ASC order;
- 3. Calculate the length of their names (including extensions).;
- 4. Sort the result by lenth;
- 5. Produce a result in CSV format named result.csv:

```
File1,3
File2,4
...
FileN,3
```

ext2 = short2.split(".").last

```
FileN,3

=end

require 'csv'

result = Hash.new

Dir.glob(ARGV[0] + "*").each do |file1|

short1 = file1.split("/").last

ext1 = short1.split(".").last

names1 = short1.split(".").first

digit1 = file1.split("_").last

if (ext1 != "rb") or (digit1.to_i.to_s != digit1) or (short1.scan("_").count != 2)

result[short1] = short1.length

end

Dir.glob(ARGV[1] + "*").each do |file2|

short2 = file2.split("/").last
```

```
names2 = short2.split(".").first
digit2 = file2.split("_").last
if (ext2 != "rb") or (digit2.to_i.to_s != digit) or (short2.scan("_").count != 2)
result[short2] = short2.length
end
end
result.sort_by{|k, v| v}
CSV.open("result.csv", "w") do |csv|
result.each do |p|
csv << p
end
end
```

In the second Dir.glob there is a mistyped variable which is not existing - "(digit2.to_i.to_s != digit)"

Solution:

We should rename the variable in that condition- "(digit2.to_i.to_s != digit) " from "digit" to "digit2"

Ranking:

8.Ivo Valchev

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_6c8bd9.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First_Last_digits.rb;

- 3. find the students with 5 letters in the first name that are in both folders. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by Last name;
- 5. Produce a result in CSV format named result.csv:

```
LastName1, FirstName1
     LastName2, FirstName2
     LastNameN, FirstNameN
=end
hash fold1={}
hash fold2={}
Dir.glob("#{ARGV[0]}*.*") do |file|
           name = file.split("/").last.split(".").first.split("_")
           isNum = Integer(name[2]) rescue nil
           if name[0] and name[1] and name[0].length == 5 and !isNum!=nil
hash fold1.include?(name[0])
                 hash fold1["#{name[1]}"] = "#{name[0]}"
           end
end
Dir.glob("#{ARGV[1]}*.*") do |file|
           name = file.split("/").last.split(".").first.split("_")
           isNum = Integer(name[2]) rescue nil
           if name[0] and name[1] and name[0].length == 5 and !isNum!=nil
and!hash fold2.include?(name[0])
                 hash fold2["#{name[1]}"] = "#{name[0]}"
           end
end
File.open("result.csv", "w") do |csv|
     hash fold1.sort.map do |key, value|
```

"...and!hash_fold2.include?(name[0])

Prints nothing

Solution:

"and!hash_fold2.include?(name[0])
"-> There must be space betwen "and" and "!hash_fold2..."

Ranking:

3/5

9.Kalin Marinov

Source code:

```
#Develop a program named FirstName_LastName_ClassNumber_bce70c.rb
#
#1. you are given an argument for a folder with files;
#1.1 if there are other arguments they should be discarded
#2. file names in this folder are in the form First_Last_digits.rb;
#3. find all the students that have 5 letters in their second name;
#4. Sort the result by First name DESC.
#5. Produce a result in CSV format named result.csv:
#
# FirstName1,LastName1
```

#==begin

```
FirstName2,LastName2
#
           FirstNameN,LastNameN
#
#==end
require 'csv'
hash = Hash.new
Dir.glob("#{ ARGV[0] }/*") do |name|
     name = name.split("/").last
     short name = name.split(' ')[1]
     if short name.length == 5
           hash[name] = short name
     end
end
CSV.open("result.csv", "w") do |csv|
     hash = hash.sort by { |key, value| value }.reverse
     hash.each |key| do
           csv << key
     end
end
                                  Errors:
                Wrong name file.
                Does not split the files in right way.
                Wrong printing.
                                  Solution:
                File must be "Kalin_Marinov_12_bce70c.rb"
                For correctly splitting of file he must make variable last name
and then: "last_name=name.split('_')[1]" "short_name=name.split('_')[0]". After
```

#

that he must write "...hash[short_name] = last_name" to set key="short_name" and value="last_name"

"hash.each |key| do
csv << key
end
"-> Must be changed with "hash.each do |value|
csv << value
end
" -> This will print
"First_Name,Last_Name"

Ranking:

2/5

10.Kamena Dacheva

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_0af18f.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First_Last_digits.rb;
- 3. find all the students that have 5 letters in their second name;
- 4. Sort the result by First name DESC.
- 5. Produce a result in CSV format named result.csv:

FirstName1,LastName1 FirstName2,LastName2

. . .

FirstNameN, LastNameN =end student = Hash.new { |name, programs| name[programs] = []} directory = ARGV[0] require "csv" class String def is number? Float(self) != nil rescue false end end Dir.glob("#{directory}/*.*") do |my repository| name dir = my repository.split("/").last name = name_dir.split("_").first.capitalize sir_name = name_dir.split("_", 2).last.split("_").first.capitalize program = name_dir.split("_").last.split(".").first ex = name_dir.split("_").last.split(".").last if name_dir.include? "_" then counter = name_dir.count "_" end student["#{name}"] << sir name if ((counter == 2) && (sir name.length == 5) && (program.is number?) && (ex == "rb")) end CSV.open("result.csv", "w") do |csv| student.sort by{|k, v| v}.reverse.each do |f name, I name| csv << [f name,I name].flatten

end

end

"student.sort_by{|k, v| v}"

Solution:

Writing this "student.sort_by{|k, v| v}" she sortes by last name which is wrong. She must sort by first_name-> "student.sort_by{|k, v| k}"

Ranking:

4/5

11.Kristina Pironkova

Source code:

=begin

Develop a program named FirstName LastName ClassNumber 890ba0.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First_Last_digits.rb;
- 3. find all the students that have 10 letters in their first name;
- 4. Sort the result by Last Name DESC.
- 5. Produce a result in CSV format named result.csv:

FirstName1,LastName1 FirstName2,LastName2

. . .

FirstNameN,LastNameN

=end

```
require 'csv'
results=Hash.new
Directory = ARGV[0]
Dir.glob("#{Directory}/*.rb") do |file name|
     first name = file name.split("/").last.split(" ").first.capitalize
     last_name=file_name.split("/").last.split("_",2).last.split("_").first.capitalize
            if first_name.length == 10
                  results["#{last_name}"] ="#{first_name}"
            end
end
CSV.open("results.csv", "w") do |csv|
     results.sort.each do |first,last|
     csv << [last,first]
      end
end
```

Writing into "results.csv" instead of "result.csv" Sorting in ASC instead of DESC

Ranking:

4/5

12.Lubomir Yankov

Source code:

```
require 'csv'
def is_numeric(o)
  true if Integer(o) rescue false
end
array = []
count = 0
Dir.glob(ARGV[0] + "*").each do |file|
     ch_count = 0
     file_name = file.split("/").last.split("")
     file_name.each do |ch|
           if is_numeric(ch)
                 ch_count += 1
           end
     end
     if ch count == 9
           len = file_name.length
           array[count] = []
           array[count][0] = file name
           array[count][1] = len/2.round
           count += 1
     end
```

end
array = array.sort_by {|el| el[0]}
CSV.open("results.csv", "w") do |csv|
array.each do |element|
csv << element
end

end

Errors:

Writing into "results.csv" instead of "result.csv".

There is no variable that stores the full name and when he splits it to characters he passes that splitted variable to the CSV file.

Solution:

Make a variable that stores the full name and when writing into the array he should use it instead the splitted one.

Ranking:

4/5

13.Marian Belchev

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_ad26e0.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First Last digits.rb;
- 3. find the students that are only in the second folder and not in the first. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by First name;
- 5. Produce a result in CSV format named result.csv:

```
LastName1, FirstName1
     LastName2, FirstName2
      LastNameN, FirstNameN
=end
require 'csv'
hash1 = Hash.new
hash2 = Hash.new
Dir.glob("#{ARGV[0]}* * *.rb") do |file1|
      Dir.glob("#{ARGV[1]}*_*_*.rb") do |file2|
                              = file1.split("/").last.split(" ").first
            firstName1
            lastName1 = file1.split("/").last.split(" ", 2).last.split(" ").first
            number1 = file1.split("_").last.split(".").first
                              = file2.split("/").last.split(" ").first
            firstName2
            lastName2 = file2.split("/").last.split("_", 2).last.split("_").first
            number2 = file2.split("_").last.split(".").first
```

```
hash1[firstName1] = lastName1 + "." + number1
           hash2[firstName2] = lastName2 + "." + number2
     end
end
CSV.open("results.csv", "w") do |csv|
     hash2.sort.each do |key, value|
           if !hash1.has key?(key) && !hash1.has value?(value.split(".").first) &&
!hash1.has_value?(value.split(".").last.to_i)
                      csv << [key,value.gsub('.',"")]
           end
           if hash1.has_key?(key) && !hash1.has_value?(value.split(".").first) &&
!hash1.has value?(value.split(".").last.to i)
                 csv << [key,value.gsub('.',"")]
           end
     end
end
                      Errors:
                       Not readable code!
                       Solution:
                       Not readable code!
                      Ranking:
```

14. Momchil Angelov

=begin

Develop a program named FirstName LastName ClassNumber d8aa65.rb

- 1. you are given two arguments for a folders with files;
- 1.1 If there are other arguments they should be discarded;
- 2. Find all the files from both folders that are not in the format FirsrName_LastName_digits.rb. If there are duplicates the file must be written only once.
- 2.1 If two files are of the same length those files should be sorted in ASC order;
- 3. Calculate the length of their names (including extensions).;
- 4. Sort the result by lenth;
- 5. Produce a result in CSV format named result.csv:

```
File1,3
                 File2,4
                 FileN,3
=end
require 'csv'
arr1=Array.new
arr2=Array.new
arr3=Array.new
a = ARGV[0]
b = ARGV[1]
i=0
Dir.glob(a + "/*.rb") do |my text file1|
     short= my text file1.split('/').last
     length1 = short.length
     shorter= short.split('.').first.split('_')
     first name=shorter[0]
     last name=shorter[1]
     digits=shorter[2].to i
```

```
if !first_name || !last_name || digits=0
            next
     else
            arr1 << ["#{short}" "#{length1}"]
     end
end
Dir.glob(b + "/*.rb") do |my text file2|
     short2= my text file2.split('/').last
     length2 = short2.length
     shorter2= short.split('.').first.split('_')
     first_name2=shorter2[0]
     last name2=shorter2[1]
     digits2=shorter2[2].to i
     if !first_name2 || !last_name2 || digits2=0
            next
     else
            arr2 << ["#{short2}","#{length2}"]
      end
end
     arr3 = arr1 & arr2
     arr3 = arr3.sort_by {|el|
            el[1]
     }
```

```
CSV.open("result.csv", "w") do |csv|
```

```
arr3.each do |element|
csv << element
end
```

end

Errors:

15.Moreti Georgiev Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_b7f153.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First_Last_digits.rb;
- 3. find all the students that have 10 letters in their second name;
- 4. Sort the result by Last Name ASC.
- 5. Produce a result in CSV format named result.csv:

FirstName1,LastName1

```
FirstName2,LastName2
...
FirstNameN,LastNameN
=end
require 'csv'
student = Hash.new
Dir.glob("#{ARGV[0]}*_*_*.rb") do |file|
firstName = file.split("/").last.split("_").first
lastName = file.split("/").last.split("_", 2).last.split("_").first
digit = file.split("/").last.split("_").last.split(".").first
```

Writing files in result.csv with quotes.

Solutions:

4/5

16.Nikola Marinov

Source code:

=begin

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. Find all the files from both folders that have exactly 7 digits from 0 to 9 in their names excluding extension. If there are duplicates the file must be written only once.;
- 3. Calculate the length of their names (including extensions) divided by 2 rounded to the smalles number;
- 4. Sort the result by File name;
- 5. Produce a result in CSV format named result.csv:

```
File2,4
                  FileN,3
=end
requre 'csv'
def is numeric(o)
true if Integer(o) rescue false
end
array=[]
count=0
Dir.glob(ARGV[0] + "/**/*.*").each do |file|
full name=file.split("/").last
name = file.split("/").last.split(".").first_split("_")
if name.lenght != 3 && !is_numeric(name[2])
array(count) = []
array(count) [0]=full_name
array(count)[1]= full name.to s.lenght
count += 1
end
end
Dir.glob(ARGV[0] + "/**/*.*").each do |file|
full name=file.split("/").last
name = file.split("/").last.split(".").first_split("_")
if name.lenght != 3 && !is numeric(name[2])
```

```
array(count) = []
array(count) [0]=full_name
array(count)[1]= full_name.to_s.lenght
count += 1
end
end
array = array.sort_by{|el| el|0|}

CSV.open("task.csv",w) do |csv|
array=uniq.each do |element|
csv << element
end
end
```

Wrong using of array type many times. A lot mistyped keywords. There is no check whether there are 7 digits in the name of the file.

Solutions:

The amount of corrections is big.

Ranking:

1/5

17.Petko Bozhinov

Source code:

Develop a program named FirstName_LastName_ClassNumber_954dc6.rb

1. you are given two arguments for a folders with files;

```
# 1.1 if there are other arguments they should be discarded;
# 2. file names in this folders are in the form First Last digits.rb;
# 3. find the students with 5 letters in the first name that are in both folders. A
student is in both folders if it there is a file with the same First and Last Name.
Digits might be different;
# 4. Sort the result by Last name;
# 5. Produce a result in CSV format named result.csv:
      LastName1, FirstName1
#
#
      LastName2.FirstName2
#
#
      LastNameN,FirstNameN
require 'csv'
class String
 def numeric?
  Float(self) != nil rescue false
 end
end
output = Array.new
i = 0
Dir.glob(ARGV[0] + "/*") do |file|
      file = file.split('/').last.split('.').first.split('_')
      Dir.glob(ARGV[1] + "/*") do |file2|
            file2 = file2.split('/').last.split('.').first.split(' ')
            if "#{file[0]} #{file[1]}" == "#{file2[0]} #{file2[1]}"
                  if file[2].numeric?
                        if file[0].to_s.length == 5
                               output[i] = Array.new
                               output[i][0] = file[0]
                               output[i][1] = file[1]
```

Wrong sorting, pushing in hash.

Solutions:

```
"...&& file2[0].to_s.length==5"
"...output[i][0] = file[1]
output[i][1] = file[0]
"
"
...element[0]}
```

Ranking:

4/5

18.Radoslav Kostadinov

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_772118.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First_Last_digits.rb;
- 3. find the students that are only in the second folder and not in the first. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by First name;
- 5. Produce a result in CSV format named result.csv:

```
LastName1,FirstName1
LastName2,FirstName2
...
LastNameN,FirstNameN
```

=end

```
require 'csv'
file1 = Hash.new
file2 = Hash.new
path1 = ARGV[0]
path2 = ARGV[1]
```

```
Dir.glob("#{path1}*.rb") do |my_text_file|
    s = my_text_file.split(/\//).last.capitalize
    first_name = my_text_file.split("/").last.split("_").first
    last_name = my_text_file.split("/").last.split("_",2).last.split("_").first
```

```
if s.count(' ') == 2 and !((first name == "" || first name == " ") ||
(last name == "" || last name == " "))
                       file1[first name] = last name
                  end
end
Dir.glob("#{path2}*.rb") do |my text file|
           s = my text file.split(/\//).last.capitalize
           first_name = my_text_file.split("/").last.split("_").first
           last_name = my_text_file.split("/").last.split("_",2).last.split("_").first
           if s.count(' ') == 2 and !((first name == "" || first name == " ") ||
(last_name == "" || last_name == " "))
                       file2[first name] = last name
                  end
end
CSV.open("result.csv", "w") do |csv|
     file1.sort.each do |first_name, last_name|
           file2.sort.each do |first_name1, last_name1|
            if first name1 == first name and last name1 == last name
                  begin
                  end
                  else
                       csv << [last name1, first name1]
                  end
            end
      end
      end
```

Wrong checking if the file is only in the second folder.

Solution:

"

file2.delete_if{|x| file1.include?(x)}
CSV.open("result.csv", "w") do |csv|
file2.sort.each do |push|
csv << push
end
end"

Ranking:

3/5

19. Simeon Shopkin

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_56a835.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. Find all the files from both folders that are not in the format FirsrName_LastName_digit.rb. If there are duplicates the file must be written only once. If two files are of the same length those files should be sorted in ASC order;
- 3. Calculate the length of their names (including extensions).;
- 4. Sort the result by length;
- 5. Produce a result in CSV format named result.csv:

```
File1,3
                       File2,4
                       FileN,3
=end
require 'csv'
arr = Array.new
        Dir.glob(ARGV[0]+"/*.rb") do |first_files|
               Dir.glob(ARGV[1]+"/*.rb") do |second_files|
                       first_files = first_files.split("/").last.split(".").first.split("_")
                       if first_files.size != 3
                               if first_files != second_files
                                               print_count = first_files.split("/").last.split(".").first
                                               p = print_count.size.to_s
                       print = first_files[0].capitalize+"_"+first_files[1].capitalize+"_"+first_files[2]+","+p
                                               arr.push(print)
                               end
                       end
               end
       end
       CSV.open("result.csv","w") do |csv|
               arr.sort.each do |element|
                       csv << [element]
               end
       end
```

Too many errors. Second_file not splitted.Not needed if-construction...

Solutions:

There is no quick solution to that program.

Ranking:

2/5

20.Stanimir Bogdanov Source code:

```
Develop a program named FirstName LastName ClassNumber ca514d.rb
1. you are given an argument for a folder with files;
1.1 if there are other arguments they should be discarded
2. file names in this folder are in the form First_Last_digits.rb;
3. find all the students that have 10 letters in their first name;
4. Sort the result by Last Name DESC.
5. Produce a result in CSV format named result.csv:
  FirstName1,LastName1
  FirstName2,LastName2
  FirstNameN,LastNameN
=end
require 'csv'
directory = ARGV[0]
students = Hash.new
Dir.glob("#{directory}*") do |filename|
 unless (filename.split('/').last =~ /^[a-zA-Z0-9]+_[a-zA-Z0-9]+_[0-9]+.rb$/).nil?
  first_name = filename.split('/').last.split('_')[0]
  second_name = filename.split('/').last.split('_')[1]
  students[first_name] = second_name if first_name.length == 10
 end
end
CSV.open("result.csv", "w") do |csv|
 Hash[students.sort_by { |first, last| last }.reverse].each do |first, last|
  csv << [ first, last ]
```

=begin

puts "#{first},#{last}"

end end

Errors:

There aren't any errors.

Solutions:

There is no need for any solution.

Ranking:

5/5

21. Stanislav Gospodinov

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_b36abb.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First Last digits.rb;
- 3. find all the students that have 5 letters in their second name:
- 4. Sort the result by Last Name ASC.
- 5. Produce a result in CSV format named result.csv:

FirstName1,LastName1 FirstName2,LastName2

- - -

FirstNameN,LastNameN

=end require 'csv' hash = Hash.new

```
Dir.glob("#{ARGV[0]}*.rb") do |file|
filename = file.split('/').last.split('.').first;
if filename.split('_').length == 3
if filename.split('_')[1].length == 5
hash[filename.split('_')[0]] = filename.split('_')[1]
end
end
end
```

 $hash = Hash[hash.sort_by{|k, v| v}]$

CSV.open("results.csv", "w") do |csv|
hash.each do |key, value|
csv << [key, value].flatten
end
end

Errors:

Writing into "results.csv" instead of "result.csv"

Solution:

Rename it to "result.csv"

Ranking:

5/5

22.Stanislav Vulkanov

Source code:

#Develop a program named FirstName_LastName_ClassNumber_4482c1.rb

- #1. you are given an argument for a folder with files;
- #1.1 if there are other arguments they should be discarded
- #2. file names in this folder are in the form First_Last_digits.rb;

```
#5. Produce a result in CSV format named result.csv:
#
              FirstName1,LastName1
#
              FirstName2,LastName2
              FirstNameN,LastNameN
require 'csv'
a = Hash.new
path = ARGV[0]
Dir.glob(path + "**/*.rb") do |my_text_file|
short_name = my_text_file.split('.').last.split('.').first
name = short_name.split("_")[0]
last = short_name.split("_")[1]
last.to s
if (last.length == 5)&&(short_name.split("_").size == 3)
a["#{name}"] = last
end
end
CSV.open("result.csv", "w") do |csv|
Hash[a.sort.reverse].each do |element|
csv << element
end
end
```

#3. find all the students that have 5 letters in their second name;

#4. Sort the result by First name DESC.

Errors:

No errors

Ranking

5/5

23.Tihomir Lidanski Source code:

#Develop a program named FirstName_LastName_ClassNumber_dafd44.rb

- #1. you are given two arguments for a folders with files;
- #1.1 if there are other arguments they should be discarded;
- #2. Find all the files from both folders that have exactly 7 digits from 0 to 9 in their names excluding extension. If there are duplicates the file must be written only once.;
- #3. Calculate the length of their names (including extensions) divided by 2 rounded to the smalles number;
- #4. Sort the result by File name;
- #5. Produce a result in CSV format named result.csv:

```
# File1,3
# File2,4
# ...
```

FileN,3

require 'csv'

```
Dir.glob(ARGV[0] + "*.") do |file|
name = file.split ("/")last.split(".")
```

Dir.glob(ARGV[1] + "*.") do |file|

puts name.length % 2.round()

end end CSV.open("result.csv", "w") do |csv|

end

Errors:

Too many. There is almost nothing written.

Solutions:

There is no quick solution.

Ranking:

0/5

24.Hristo Dachev

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_4a196f.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. Find all the files from both folders that are not in the format FirsrName_LastName_digits.rb. If there are duplicates the file must be written only once. If two files are of the same length those files should be sorted in ASC order;
- 3. Calculate the length of their names (including extensions).;
- 4. Sort the result by lenth;

5. Produce a result in CSV format named result.csv:

```
File1,3
                       File2,4
                       FileN,3
=end
require 'csv'
hash = Hash.new
Dir.glob("#{ARGV[0]}*").each do |path|
       first_name = path.split("/").last.split("_").first
       last_name = path.split("/").last.split("_", 2).last.split("_").first
                       path.split("/").last.split("_", 2).last.split("_").last.split(".").first
       digit =
       name = path.split("/").last
       if name.include? "_" then counter = name.count "_" end
       if (counter != 2) || (digit.to_i.to_s != digit)
               I = name.length
               hash[name] = I
       end
end
Dir.glob("#{ARGV[1]}*").each do |path|
       first_name = path.split("/").last.split("_").first
       last_name = path.split("/").last.split("_", 2).last.split("_").first
                       path.split("/").last.split("_", 2).last.split("_").last.split(".").first
       digit =
       name = path.split("/").last
       if name.include? "_" then counter = name.count "_" end
       if (counter != 2) || (digit.to_i.to_s != digit)
               I = name.length
               hash[name] = I
       end
end
CSV.open("result.csv", "w") do |csv|
       hash.sort_by{ |k, v| v}.each do |name, length|
```

csv << ["#{name}","#{length}"]
end
end

Errors:

There are no errors

Ranking:

5/5

B CLASS

1.Borislav Stratev

Source code:

#Develop a program named FirstName_LastName_ClassNumber_a65be5.rb

- #1. you are given two arguments for a folders with files;
- #1.1 if there are other arguments they should be discarded;
- #2. file names in this folders are in the form First Last digits.rb;
- #3. find the students that are only in the first folder and not in the second. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- #4. Sort the result by Last name;
- #5. Produce a result in CSV format named result.csv:
- # LastName1,FirstName1
- # LastName2,FirstName2
- # ...
- # LastNameN,FirstNameN

require 'csv'

```
a = Array.new
h = Hash.new
Dir.glob("#{ARGV[0]}/*.rb") do |dir file name 1|
     Dir.glob("#{ARGV[1]}/*.rb") do |dir file name 2|
           file name 1 = dir file name 1.split(/V/).last.to s
           file name 2 = dir file name 2.split(/\//).last.to s
           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
     end
end
CSV.open("results.csv", "w") do |csv|
     a = h.sort
     a.each do |element|
           csv << element
     end
end
```

Wrong pushing into csv file. He pushes into "results.csv" instead of "result.csv"

Solution:

Rename it

Ranking:

5/5

2. Valentin Varbanov

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_041472.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First_Last_digits.rb;
- 3. find the students that are only in the first folder and not in the second. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by Last name;
- 5. Produce a result in CSV format named result.csv:

```
LastName1,FirstName1
LastName2,FirstName2
....
LastNameN,FirstNameN
```

=end

```
students_first_dir = Array.new
students_second_dir = Array.new
```

for i in 0..1

```
directory = ARGV[i]
if ARGV[i].split(//).last(1).to_s == "/"
```

```
directory += "**/*.rb"
       else
              directory += "/**/*.rb"
       end
       Dir.glob(directory).each do |dir|
              student = dir.split(/\//)
              if i == 0
                      students_first_dir.push(student)
              else
                      students_second_dir.push(student)
              end
       end
end
studentcsv = Array.new
students_first_dir.each do |std|
       match = 0
       students_second_dir.each do |std2|
              name = std.last.split(/_/)
              name2 = std2.last.split(/_/)
              for i in 0..1
                      if name[i] == name2[i]
                             match = 1
                      end
              end
       end
       studentcsv.push(name[1], name[2])
end
CSV.open("result.csv", "w") do |csv|
       studentcsv.each do |string|
              csv << string
       end
end
```

Too many errors. Solutions:

Too many errors. Ranking:

1/5

3. Veselina Kolova

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_65630e.rb

- 1. you are given an argument for a folder with files;
- 1.1 if there are other arguments they should be discarded
- 2. file names in this folder are in the form First Last digits.rb;
- 3. find all the students that have 5 letters in their second name;
- 4. Sort the result by First name DESC.
- 5. Produce a result in CSV format named result.csv:

```
FirstName1,LastName1
FirstName2,LastName2
```

- - -

FirstNameN,LastNameN

=end

require 'csv'

people = Hash.new

Dir.glob("#{ARGV[0]}/**/*.*").each do |text_file|

```
text_file = text_file.split("/").last
    if (text_file.split("_")[1].length == 5) then
        people[text_file.split("_")[1]] = text_file.split("_")[0]
    end
    end
end
end

people = Hash[people.sort_by{|k,v| k}.reverse]

CSV.open("result.csv","w") do |csv|
    people.each do |element|
    csv << element
end
end
```

Unclear what she wants to do.

Solutions:

There is no quick solution.

Ranking:

2/5

4. Valentin Yordanov

Source code:

#Develop a program named FirstName_LastName_ClassNumber_4bbed0.rb

#1. you are given an argument for a folder with files;

```
#1.1 if there are other arguments they should be discarded
```

- #2. file names in this folder are in the form First_Last_digits.rb;
- #3. find all the students that have 5 letters in their second name;
- #4. Sort the result by Last Name ASC.
- #5. Produce a result in CSV format named result.csv:

```
# FirstName1,LastName1
# FirstName2,LastName2
# ...
# FirstNameN,LastNameN
```

end

```
names = names.sort
puts names
```

names = Hash.new

```
require 'csv'
CSV.open("results.csv", "w") do |csv|
names.to_a.each do |element|
csv << element
end
end
```

Wrong csv file.

Solution:

He must write into "result.csv" instead of "results.csv"

Ranking:

5/5

5. David Georgiev

Source code:

#Develop a program named FirstName_LastName_ClassNumber_1eea4f.rb

- #1. you are given an argument for a folder with files;
- #1.1 if there are other arguments they should be discarded
- #2. file names in this folder are in the form First_Last_digits.rb;
- #3. find all the students that have 5 letters in their second name;
- #4. Sort the result by Last Name ASC.
- #5. Produce a result in CSV format named result.csv:

```
FirstName1,LastName1
#
           FirstName2,LastName2
#
#
           FirstNameN, LastNameN
#
     require 'csv'
     students names = []
     Dir.glob("#{ARGV[0]}/**/*.rb") do |current file|
     name = current_file.split('/').last.split(/_/)
     if name[1].length == 5
           if not students_names.include?(["#{name[1]}", "#{name[0]}"]) then
                 students names << (["#{name[1]}", "#{name[0]}"])
           end
     end
     end
     CSV.open("result.csv", "w") do |csv|
           students names.sort.each do llast, first
                 csv << ["#{first}", "#{last}"]
           end
     end
                            Errors:
                      Not needed space here "csv << ["#{first}", "#{last}"]".
                            Solution:
                      By removing it.
                            Ranking:
                            5/5
                            6.Iliyan Germanov
```

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_f8b0d9.rb

- 1. you are given two arguments for a folders with files;
- 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First_Last_digits.rb
- 3. find the students that are only in the first folder and not in the second. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by Last name;
- 5. Produce a result in CSV format named result.csv:

```
LastName1, FirstName1
     LastName2, FirstName2
     LastNameN, FirstNameN
=end
require 'csv'
results = Hash.new
results.compare by identity
def is number(str)
     str[/[0-9]+/] == str
end
Dir.glob("#{ARGV[0]}/*.rb") do |path1|
     filename1 = path1.split(/\//).last
     if filename1.count(" ") == 2
           firstname1 = filename1.split(" ").first
           lastname1 = filename1.split(" ")[1]
           digit1 = filename1.split("_")[2].split(".").first
           if is number(digit1)
                 flaq = 0
                 Dir.glob("#{ARGV[1]}/*.rb") do |path2|
```

```
filename2 = path2.split(/\//).last
                       if filename2.count(" ") == 2
                             digit2 = filename2.split("_")[2].split(".").first
                              if is number(digit2)
                                   name1 = firstname1 + lastname1
                                   name2 = filename2.split("_").first +
filename2.split("_")[1]
                                   if name1 == name2
                                         flag = 1
                                         break
                                    end
                              end
                       end
                  end
                 if flag == 0
                       results[lastname1] = firstname1
                  end
            end
      end
end
CSV.open("result.csv", "w") do |csv|
     results.sort_by{|key, val| key}.each do |el|
            csv << el
      end
end
                              Errors:
                              No checking for wrong file formats.
                              Solution:
                              unless (path1.split('/').last =~
                       /^[a-zA-Z0-9]+ [a-zA-Z0-9]+ [0-9]+.rb$/).nil?
```

"-> He must add this after Dir.glob... to check if the file is in the right form

Ranking:

5/5

7.Lili Kokalova

Source code:

=begin

Develop a program named FirstName_LastName_ClassNumber_e0ea9c.rb

- 1. you are given two arguments for a folders with files;
 - 1.1 if there are other arguments they should be discarded;
- 2. file names in this folders are in the form First_Last_digits.rb;
- 3. find the students that are only in the second folder and not in the first. A student is in both folders if it there is a file with the same First and Last Name. Digits might be different;
- 4. Sort the result by First name;
- 5. Produce a result in CSV format named result.csv:

LastName1,FirstName1 LastName2,FirstName2

• • •

LastNameN, FirstNameN

=end

require 'csv' student = Array.new

```
Dir.glob(ARGV[0]+"/**/*.*").each do |file name1|
            file name = file name1.split("/").last
            first name =
file name.split("/").last.split(" ").first
            last name =
file_name.split("/").last.split("_",2).last.split("_").first
            #task = file name.split(" ").last.split(".").first
            student << ["#{first_name}","#{last_name}"]
      end
      Dir.glob(ARGV[1]+"/**/*.*").each do |file name1|
            file_name = file_name1.split("/").last
            first name =
file_name.split("/").last.split("_").first
            last name =
file_name.split("/").last.split("_",2).last.split("_").first
            #task = file_name.split("_").last.split(".").first
            student1 << ["#{first name}","#{last name}"]
      end
      CSV.open("result.csv", "w") do |csv|
            student.each do |fn, |n|
                  student1.each do |fn1, ln1|
                        if fn != fn1 && ln!=ln1
                                    csv << ["#{fn1}","#{ln1}"]
                              end
                        end
                  end
            end
```

student1 = Array.new

Errors:

Program is printing too many times.

Solution:

There is no quick solution.

Ranking:

3/5

8. Nikolay Mihailov

Source code:

#Develop a program named FirstName_LastName_ClassNumber_f70059.rb

- #1. you are given two arguments for a folders with files;
- #1.1 if there are other arguments they should be discarded;
- #2. Find all the files from both folders that have exactly 7 digits from 0 to 9 in their names excluding extension. If there are duplicates the file must be written only once.;
- #3. Calculate the length of their names (including extensions) divided by 2 rounded to the smalles number;
- #4. Sort the result by File name;
- #5. Produce a result in CSV format named result.csv:

```
# File1,3
# File2,4
# ...
# FileN,3
```

```
require 'csv'
hash = Hash.new
count = 0
Dir.glob(ARGV[0] + "/*.rb") do |file|
```

```
first = file.split(/\//).last
           puts first
           \#for (i = 0;i < first.length;i+=1)
           size = first.length
           i = 0
           first.each do |element|
                 c = first[i].chr
                 if element == 0 || element == 1 || element == 2 || element == 3
|| element == 4 || element == 5 || element == 6 || element == 7 || element == 8 ||
element == 9
                  count +=1
                  end
            end
           puts count
     end
     Dir.glob(ARGV[1] +"/*.rb") do |secFile|
           sec = secFile.split(/\//).last
           #puts sec
     end
     CSV.open("result.csv", "w") do |csv|
           hash.sort_by{|key,val| key}.each do |element|
            csv << element
            end
      end
```

Wrong usage of "each" -> "first.each do |element|" **Solutions:**

Ranking:

3/5

9.Stanislav Iliev

Source code:

#Develop a program named FirstName_LastName_ClassNumber_627d43.r#
#

- #1. you are given two arguments for a folders with files;
- #1.1 if there are other arguments they should be discarded;
- #2. file names in this folders are in the form First Last digits.rb;
- #3. find the students that are only in the first folder and not in the second. A student is in both folders if it there is a file with the same First and Last #Name. Digits might be different;
- #4. Sort the result by Last name;
- #5. Produce a result in CSV format named result.csv:

#

LastName1,FirstName1

LastName2,FirstName2

...

LastNameN,FirstNameN

```
name_array = Array.new()
name array2 = Array.new()
support array = Array.new()
support array2 = Array.new()
i = 0
dir1 = ARGV[0]
dir2= ARGV[1]
Dir.glob("#{dir1}/*.*") do |file|
     name array[i] = file.split(/\//).last
     i += 1
end
count = i
i = 0
Dir.glob("#{dir2}/*.*") do |file2|
     name array2[i] = file2.split(/\//).last
     i += 1
end
i = 0
for check in i..count
     if name array[check] != name array2[check]
                 support array[i] = name array[check]
                 support array2[i] = name array2[check]
                 i += 1
                 puts support array
                 puts support array2
                 CSV.open("result.csv", "w") do |csv|
                       support array.each do |element|
                             csv << [element]
                       end
                 end
                 CSV.open("result.csv", "w") do |csv|
                       support array2.each do |element2|
```

csv << [element2]

end

end

end

end

Errors:

Too many errors. Missing splitting, etc.

Solutions:

Too many errors.

Ranking:

2/5

10.Stefan Iliev

Source code:

#Develop a program named FirstName_LastName_ClassNumber_d77aee.rb #

- #1. you are given two arguments for a folders with files;
- #1.1 if there are other arguments they should be discarded;
- #2. Find all the files from both folders that are not in the format FirsrName_LastName_digit.rb. If there are duplicates the file #must be written

only once. If two files are of the same length those files should be sorted in ASC order;

- #3. Calculate the length of their names (including extensions).;
- #4. Sort the result by length;
- #5. Produce a result in CSV format named result.csv:

```
#
                   File1,3
#
#
                   File2,4
#
#
                   FileN,3
require 'csv'
first folder = ARGV.shift
second folder = ARGV.shift || "err"
names hash = Hash.new
Dir.glob(first folder+"/*.*").each do |text file|
      text file = text file.split("/").last
      if (text_file.split(" ").length == 3) then
            first name = text file.split(" ")[0]
            second_name = text_file.split("_")[1]
            diggit = text_file.split("\_")[2].split(/\./).first
            if (diggit.to i.to s != diggit) then names hash[text file] =
text file.length end
            if (first name = \sim \Lambda d) then names hash[text file] = text file.length end
            if (second name = \sim \Lambda d/) then names hash[text file] = text file.length
end
      else
            names hash[text file] = text file.length
      end
end
if second folder != "err"
      Dir.glob(second folder+"/*.*").each do |text file|
            text file = text file.split("/").last
            if (text_file.split("_").length == 3) then
                   first name = text file.split(" ")[0]
```

```
second_name = text_file.split("_")[1]
                  diggit = text file.split(" ")[2].split(\land./).first
                 if (diggit.to_i.to_s != diggit) then names_hash[text_file] =
text file.length end
                 if (first name = \sim \Lambda d) then names hash[text file] =
text file.length end
                 if (second name = \sim \Lambda d/) then names hash[text file] =
text file.length end
            else
                 names hash[text file] = text file.length
            end
      end
end
names hash = Hash[names hash.sort by{|k,v| k}]
names hash = Hash[names hash.sort by{|k,v| v}]
puts names hash
CSV.open("results.csv","w") do |csv|
      names hash.each do |element|
            csv << element
      end
end
                                    Errors:
                                   Too many errors-missing checking of format,
wrong csv file.
                                    Solution:
                                   Too many errors.
                                   Ranking:
```