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# D&K

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# How many errors are there?

47 errors

# How many correct results are there?

5 correct and 8 almost correct results are there.

# Are there common errors?

Average of 5 in category

# **Categories of errors**

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# 1. Errors in the output of the program and the .csv file (19)

\_\_\_\_\_

Wrong output file

Unwanted space "# {name [1] .to\_s}"

No data in .csv file

No data in .csv file

No data in .csv file

Missing require 'csv'

Incorrect sorting and export in csv

wrong sort

When two first names are identical returns Ex: Input FirstName1\_LastName1\_LastName1\_LastName2 --> Exit --> FirstName1\_LastName1\_LastName2

exporting in results.csv

Wrong csv file - exporting in results.csv And actually nothing export

Nothing appears in the .csv file

Nothing is displayed

Write in results.csv instead result.csv

results.csv instead result.csv

Does not display anything in result.csv

Write in results.csv instead result.csv

Missing require 'csv'

results.csv instead result.csv

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# 2. wrong sorting (5)

Not sorted by Last Name

Not sorted result by first name

 $Calling \ name = myfile.split('/') last.split(/\./).first \ instead \ of \ name = myfile.split('/').last.split(/\./).first$ 

incorrect output - First\_Last\_digits.rb Instead LastName1, FirstName1

wrong sorting

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3. ERRORS RELATED TO THE TERMS OF TA	ASKS (2)
no subject no subject	
4. unnecessary complication (2)	
Wrong sequence of actions and complication with ur Complicating of the code with text_file.include?(".rb"   text_file  to Dir.glob("#{ARGV[0]}/**/*.rb").each do	') We can simply change Dir.glob("#{ARGV[0]}/**/*.*").each do
5. MISUSE OF METHODS (3)	
Calling .split array Using .length instead of .size .length Use for array instead for a string	
6. syntax errors (4)	
Wrong split by point - name = second_folder.split('/') syntax error, unexpected tIDENTIFIER, expecting kTHI Many syntax errors Incorrect split by point filename.split('.')[0]	
Mistake with compare - if name[1].length == 10 Must Useless comparison first_files != second_files always	
8. MISSED CHECKINGS (3)	
Do not check if the file is *.rb Is omitted if not student.include? Does not check whether digits are contained in the file	le name - in the condition if element == 0    element == 1    ment == 5    element == 6    element == 7    element == 8

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# 9. undefined method (5)

\_\_\_\_\_

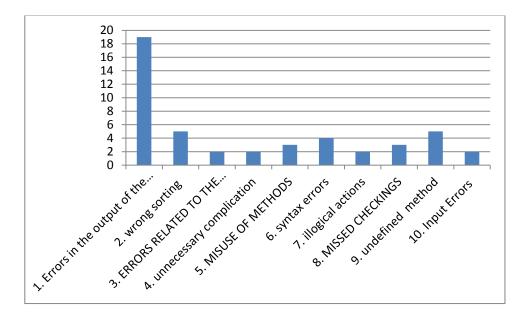
undefined local variable or method `digit' for main:Object (NameError) undefined local variable or method `short' for main:Object (NameError) undefined method `length' for nil:NilClass (NoMethodError) undefined method `compare\_by\_identity' for {}:Hash (NoMethodError) undefined local variable or method `name' for main:Object (NameError)

# 10. Input Errors (2)

\_\_\_\_\_

Is not reading the correct directory (Missed '/') Missed dash

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# How could errors like this be avoided in the first place?

By keeping the syntax of the language and careful reading of the task and try to find the simplest solution for the problem by comparing it with the real world.

# 11b/

file2 = []

path1 = ARGV[0] path2 = ARGV[1]

# Borislav\_Stratev\_2\_a65be5.rb

```
#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(/\//).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| #must be CSV.open("result.csv"...
   a = h.sort
   a.each do |element|
       csv << element
   end
end
results.csv instead result.csv
Can be fixed if we check the file names.
Or rewrite ex:
require 'csv'
file1 = []
```

```
Dir.glob("#{path2}/*.rb") do |my_text_file|
 s = my_text_file.split(/\//).last.split("_")
 first name = s[0]
 last name = s[1]
 if not file1.include?(["#{first_name}".capitalize, "#{last_name}".capitalize]) then
 file1 << (["#{first_name}".capitalize, "#{last_name}".capitalize])
 end
end
Dir.glob("#{path1}/*.rb") do |my_text_file|
 s = my_text_file.split(/\//).last.split("_")
 first name = s[0]
 last_name = s[1]
 if not file1.include?(["#{first_name}".capitalize , "#{last_name}".capitalize]) and not file2.include?(["#{first_name}".capitalize ,
"#{last_name}".capitalize]) then
 file2 << (["#{first_name}".capitalize, "#{last_name}".capitalize])
 end
end
CSV.open("result.csv", "w") do |csv|
file2.sort.each do |last, first|
csv << ["#{last}", "#{first}"]
end
Easy to understand, not working.
GRADE: 2
David_Georgiev_12_1eea4f.rb
   #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] == nil
   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 |last, first|
           csv << ["#{first}", "#{last}"]
       end
```

end end end

```
Does not compile.
undefined method 'length' for nil:NilClass (NoMethodError)
Can be fixed if we check the file names.
if name[1] != nil
 if name[1].length == 5
  if not students_names.include?(["#{name[1]}", "#{name[0]}"]) then
  students_names << (["#{name[1]}", "#{name[0]}"])
  end
 end
 end
Easy to understand.
GRADE: 4
Iliyan_Germanov_17_f8b0d9.rb
=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 #remove it
def is number(str)
   str[/[0-9]+/] == str
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)
           flag = 0
           Dir.glob("#{ARGV[1]}/*.rb") do |path2|
               filename2 = path2.split(/\//).last
               if filename2.count("_") == 2
                   \label{eq:digit2} 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
CSV.open("result.csv", "w") do |csv|
   results.sort_by{|key, val| key}.each do |el|
       csv << el
   end
end
Does not compile.
undefined method `compare_by_identity' for {}:Hash (NoMethodError)
Can be fixed if we remove results.compare_by_identity .
Not that easy to understand.
GRADF: 4
=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
student1 = Array.new
Dir.glob(ARGV[0]+"/**/*.*").each do |file_name1|
   file_name = file_name1.split("/").last
   first_name = file_name.split("/").last.split("_").first
   p first_name
   last_name = file_name.split("/").last.split("_",2).last.split("_").first
   #task = file_name.split("_").last.split(".").first
   student << ["#{first_name}", "#{last_name}"] #if not student.include?(["#{first_name}".capitalize, "#{last_name}".capitalize]) student <<
(["#{first_name}".capitalize, "#{last_name}".capitalize]) end
Dir.glob(ARGV[1]+"/**/*.*").each do |file_name1|
   file name = file name1.split("/").last
   first_name = file_name.split("/").last.split("_").first
   p first_name
   last\_name = file\_name.split("/").last.split("\_",2).last.split("\_").first
   #task = file_name.split("_").last.split(".").first
   student1 << ["#{first_name}", "#{last_name}"] #if not student1.include?(["#{first_name}".capitalize, "#{last_name}".capitalize]) student1 <<
(["#{first_name}".capitalize, "#{last_name}".capitalize]) end
end
CSV.open("result.csv", "w") do |csv|
   student.each do |fn, ln|
       student1.each do [fn1, ln1]
           if fn != fn1
               if In != In1
                   csv << ["#{fn1}", "#{ln1}"]
               end
           end
       end
   end
end
```

CSV.open("result.csv", "w") do |csv| student1.sort.each do |first, last|

```
csv << ["#{last}", "#{first}"]
end
end
Can be fixed if we check the file names.
Not that easy to understand, not working.
GRADE: 2
#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 will never change
           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
result.csv empty
```

#Develop a program named FirstName\_LastName\_ClassNumber\_627d43.r#
#

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

Not that easy to understand.

**GRADE: 2** 

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

```
#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'
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
end
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
Wrong output First_Last_digits.rb expected
LastName1,FirstName1
Easy to understand.
GRADE: 4
Stefan_Iliev_28_d77aee.rb
#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 lenght those files should be sorted in ASC order;
#3. Calculate the length of their names (including extensions).;
```

#2. file names in this folders are in the form First Last digits.rb;

#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} /\d/) then names hash[text file] = text file.length end
       if (second name = ^{\sim} /\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]
            \label{eq:diggit} \mbox{diggit} = \mbox{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} /\d/) then names_hash[text_file] = text_file.length end
           if (second_name =^{\sim} /\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| #must be CSV.open("result.csv"...
   names_hash.each do |element|
        csv << element
   end
end
results.csv Instead result.csv
Easy to understand.
GRADE: 5
Valentin_Varbanov_4_041472.rb
=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"
        directory += "/**/*.rb"
   end
   Dir.glob(directory).each do |dir|
       student = dir.split(/\//)
       if i == 0
           students_first_dir.push(student)
           students_second_dir.push(student)
       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
```

Does not compile.
undefined local variable or method `name' for main:Object (NameError)
Missed require 'csv'
We can fix it by
defining the var. name globally
Fix the record in the array and output the results to csv file
Not that easy to understand.
GRADE: 1

studentcsv.push(name[1], name[2])

CSV.open("result.csv", "w") do |csv| studentcsv.each do |string| csv << string

end end

# Veselina\_Kolova\_8\_65630e.rb

FirstNameN.LastNameN

```
=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|
   if \ File. extname (text\_file) \ text\_file. include? (".rb") \ \&\& \ text\_file. split (/\_/). last. split (/\./). first. to\_i. is\_a \ Integer \ then
       if (text_file.split("/").last.split("_").length == 3) then
            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
people = Hash[people.sort_by{|k,v| k}.reverse]
CSV.open("result.csv","w") do |csv| #must be CSV.open("result.csv"...
  people.each do |element|
  csv << element
  end
end
Not sorting right.
Complicating of the code with text_file.include?(".rb") We can simply change Dir.glob("#{ARGV[0]}/**/*.*").each do |text_file| to
Dir.glob("#{ARGV[0]}/**/*.rb").each do |text_file|
We can remove
if File.extname(text_file) text_file.include?(".rb") && text_file.split(/_/).last.split(/\./).first.to_i.is_a Integer then
In which the program is running, but still not sorted correctly
Easy to understand.
GRADE: 4
Vladimir_Yordanov_9_4bbed0.rb
#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
#
```

```
names = Hash.new
Dir.glob (ARGV[0] + "*.rb") do |file|
   if (ARGV[1] == true)
       ARGV[1] == false
   end
   slice = file.split("/").last
   first_name = slice.split('_')[0]
   second_name = slice.split('_')[1]
   if (second name.length == 5)
       #print first_name
       #puts second_name
       names[first_name] = second_name
   end
end
names = names.sort
puts names
require 'csv'
CSV.open("results.csv", "w") do | csv | #must be CSV.open("result.csv"...
   names.to_a.each do |element|
       csv << element
   end
end
Not sorting right.
results.csv instead result.csv
We can fix it by
Changing
Dir.glob (ARGV[0] + "/*.rb") do |file|
Dir.glob (ARGV[0]+"/*.rb") do |file|
And by fixing sorting
Easy to understand.
GRADE: 3
Lili_Kokalova_22_e0ea9c.rb
=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
student1 = Array.new
Dir.glob(ARGV[0]+"/**/*.*").each do |file_name1|
   file_name = file_name1.split("/").last
   first_name = file_name.split("/").last.split("_").first
   p first_name
   last_name = file_name.split("/").last.split("_",2).last.split("_").first
   #task = file_name.split("_").last.split(".").first
   student << ["#{first_name}", "#{last_name}"]
```

```
end
```

#

FileN,3

```
Dir.glob(ARGV[1]+"/**/*.*").each do |file_name1|
   file_name = file_name1.split("/").last
   first_name = file_name.split("/").last.split("_").first
   p first name
   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, In|
      student1.each do |fn1, ln1|
          if fn != fn1
              if In I= In1
                 csv << ["#{fn1}", "#{ln1}"]
              end
          end
       end
   end
end
omitted if not student.include?
We can fix it by
In the first Dir.glob
Instead of
student1 << ["#{first_name}", "#{last_name}"]
if not student.include?(["#{first_name}".capitalize, "#{last_name}".capitalize])
student << (["#{first_name}".capitalize, "#{last_name}".capitalize])
end
In the second Dir.glob
Instead of
student1 << ["#{first_name}", "#{last_name}"]
write
if not student.include?(["#{first_name}".capitalize, "#{last_name}".capitalize])
student1 << (["#{first_name}".capitalize, "#{last_name}".capitalize])
And fix the output
CSV.open("result.csv", "w") do |csv|
student1.sort.each do | first, last |
csv << ["#{last}", "#{first}"]
end
GRADE 2/5
Nikolay_Mihailov_25_f70059.rb
#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
```

```
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
Nothing appears in the .csv file
Does not check whether digits are contained in the file name - in the condition if element == 0 || element == 1 ||
element == 2 || element == 3 || element == 4 || element == 5 || element == 6 || element == 7 || element == 8 ||
element == 9 never enters
We can fix it by using if element =~ /\d/
Grade 2/5
Stanislav Iliev 26 627d43.rb
#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
# ...
```

```
require 'csv'
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
```

# Wrong output

First\_Last\_digits.rb
Instead of
LastName1,FirstName1
Grade 4/5

# 11a/ Borislav\_Rusinov\_2\_6fb3ad.rb 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| #must be CSV.open("result.csv"... array.each do |arg| csv.puts(arg) end end Error in the source file Can not read the correct directory (no '/') Not sorted by Last Name We can fix it by Change Dir.glob("#{a}\*.\*") do |my\_text\_file| Dir.glob("#{a}/\*.\*") do |my\_text\_file| Change array.sort! array.reverse! File.open("results.csv", "w") do |csv| array.each do |arg| csv.puts(arg)

Not easy to understand. GRADE: 2

Denis\_Trenchev\_4\_b4c3f5.rb

File.open("result.csv", "w") do |csv| array.sort.reverse.each do |last, first| csv << ["#{first}", "#{last}", "\n"]

=begin

end end to

end end

```
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

CSV.open("students.csv", "w") do |csv| #must be CSV.open("result.csv"...

i+=1 end end end

sort = arr3.sort\_by{|asd|asd[1]}

sort.each do |element|
csv << element</pre>

end end

```
Wrong output file
Wrong split by point
name = second_folder.split('/').last.split('.').first.split('_')
Easy to understand, not working.
GRADE: 3
```

## Dimitar\_Nestorov\_7\_0d5526.rb

```
#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
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 # if name[0].length == 10
           array[count] = []
           array[count][0] = name[0].to_s
           array[count][1] = " #{name[1].to_s}"
           count += 1
       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
Missed dash
Unwanted space " #{name[1].to_s}"
Mistake with compare - if name[1].length == 10
We can fix it by
Adding dash
Dir.glob(ARGV[0] + "/*.rb") do |file|
```

```
Unwanted space " #{name[1].to_s}"
It must be "#{name[1].to_s}"
Compare - if name[1].length == 10
Must be if name[0].length == 10
Change array[count][0] = name[0].to_s
 array[count][1] = "#{name[1].to_s}"
 array[count][1] = name[0].to_s
 Array[count][0] = "#{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
To
CSV.open("result.csv", "w") do |csv|
 array.sort.reverse.each do |last, first|
 csv << ["#{first}", "#{last}"]
 end
end
Now the script is working
Easy to understand, not working.
GRADE: 3
Dimitar_Terziev_6_88db52.rb
=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| #Must be Dir.glob("#{ARGV[0]}/*.rb*"){|file|
   file str = file.split('/').last
   if(file\_str=^/\A[a-zA-Z]+\[a-zA-Z]+\[a-zA-Z]+\] \&\& file\_str.split('_')[1].size == 5)
       arr.push("#{file_str.split('_')[1]} #{file_str.split('_').first}")
CSV.open('result.csv','w'){|csv|
   arr.uniq.sort.each{|el|
       \mathsf{csv} << \mathsf{"\#\{el.split('\ ').last\}\ \#\{el.split('\ ').first\}".split('\ ')}
   }
}
```

```
We can fix it by
Adding dash
Dir.glob("#{ARGV[0]}*.rb*"){|file|
Must be Dir.glob("#{ARGV[0]}/*.rb*"){|file|
Not that easy to understand.
GRADE: 4
Georgi_Ivanov_3_871529.rb
```

```
=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 | #Must be Dir.glob("#{ARGV[0]}/*.rb*"){| 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
daiba = arr.sort by{|asd| asd[0]}.reverse!
CSV.open("result.csv", "w") do |csv|
   daiba.each do |element|
       csv << element
   end
end
result.csv empty
We can fix it by
Adding dash
Dir.glob("#{ARGV[0]}*.rb*"){|file|
Must be Dir.glob("#{ARGV[0]}/*.rb*"){|file|
GRADE: 5
Hristo_Dachev_29_4a196f.rb
=begin
```

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

1.1 if there are other arguments they should be discarded;

Develop a program named FirstName\_LastName\_ClassNumber\_4a196f.rb

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 lenght those files should be sorted in ASC order;

```
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| #must be Dir.glob("#{ARGV[0]}/*...
   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| #must be Dir.glob("#{ARGV[1]}/*...
   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
   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
result.csv empty
We can fix it by
Change
Dir.glob("#{ARGV[0]}*").each do |path|
Dir.glob("#{ARGV[0]}/*.*").each do |path|
Dir.glob("#{ARGV[1]}*").each do |path|
To
Dir.glob("#{ARGV[1]}/*.*").each do |path|
Now the script is working
Easy to understand.
GRADE: 5
Ivelin_Slavchev_10_835552.rb
=begin
   Develop a program named FirstName_LastName_ClassNumber_835552.rb
```

3. Calculate the length of their names (including extensions).;

- 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'
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
end
Dir.glob(ARGV[1] + "*").each do |file2|
   short2 = file2.split("/").last
   ext2 = short2.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) # if(ext2!= "rb") or (digit2.to_i.to_s!= digit1) 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
Does not compile.
undefined local variable or method 'digit' for main:Object (NameError)
We can fix it by
Changing
if (ext2 != "rb") or (digit2.to_i.to_s != digit) or (short2.scan("_").count != 2)
if (ext2 != "rb") or (digit2.to_i.to_s != digit1) or (short2.scan("_").count != 2)
Defining didit1 globaly
Yet returns wrong result
Have to rewrite
Easy to understand.
```

# Ivo\_Valchev\_11\_6c8bd9.rb

=begin

GRADE: 3

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  ${\sf First\_Last\_digits.rb};$
- 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|
       if (hash fold1[key]==hash fold2[key])
           csv.puts("#{key},#{value}")
       end
   end
end
Does not compile.
Missing require 'csv'
syntax error, unexpected tIDENTIFIER, expecting kTHEN or ':' or '\n' or ';'
We can fix it by Adding dash
Dir.glob("#{ARGV[0]}/*.*") do |file|
And here
Dir.glob("#{ARGV[1]}/*.*") do |file|
Adding and
if name[0] and name[1] and name[0].length == 5 and !isNum!=nil and hash fold1.include?(name[0])
But still no result
Have to rewrite
Not easy to understand.
Must be rewritten.
GRADE: 2
Kalin_Marinov_14_12_bce70c.rb
#==begin
#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
#
       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 << kev
   end
end
Incorrect sorting and recording in csv
We can fix it by
Replacement of line 25
hash[name] = short_name
with
hash[name.split('_')[0]] = short_name
this nonsense
=begin CSV.open("result.csv", "w") do |csv|
hash = hash.sort_by { | key, value | value }.reverse
hash.each | key | do
 csv << key
end
end
=end
Have to be
CSV.open("result.csv", "w") do |csv|
hash.sort_by{|k, v| k}.reverse.each do |f_name, l_name|
 csv << [f_name,l_name].flatten
end
end
Now is Working
Not easy to understand.
GRADE: 3
Kamena_Dacheva_13_0af18f.rb
Develop a program named FirstName LastName ClassNumber Oaf18f.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"
```

```
def is number?
  Float(self) != nil rescue false
end
Dir.glob("#{directory}/*.*") do |my_repository|
   name dir = my repository.split("/").last
   name = name_dir.split("_").first.capitalize
    \begin{aligned} & sir\_name = name\_dir.split("\_", 2).last.split("\_").first.capitalize \\ & program = name\_dir.split("\_").last.split(".").first \end{aligned} 
   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, | name|
   student.sort_by{|k, v| k}.reverse.each do |f_name, l_name|
       csv << [f_name,l_name].flatten
   end
end
Not sorting right.
We can fix it by
CSV.open("result.csv", "w") do |csv|
student.sort_by{|k, v| k}.reverse.each do |f_name, l name|
//student.sort by{|k, v| v}.reverse.each do |f name, I name|
csv << [f_name,l_name].flatten
end
but When two first names are identical returns Ex: Input FirstName1_LastName1_LastName1_LastName2 --> Exit -->
FirstName1_LastName1_LastName2
Still not working fine
Easy to understand.
GRADE: 4
Kristina_Pironkova_15_890ba0.rb
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
```

class String

```
if first_name.length == 10
           results["#{last_name}"] ="#{first_name}"
       end
end
CSV.open("results.csv", "w") do |csv| #must be CSV.open("result.csv"...
   results.sort.each do |first,last|
   csv << [last,first]
   end
end
Write to results.csv
We can fix it by
Changing
CSV.open("results.csv", "w") do |csv|
CSV.open("result.csv", "w") do |csv|
Easy to understand.
GRADE: 5
Lubomir_Yankov_16_650c0b.rb
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
   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| #must be CSV.open("result.csv"...
   array.each do |element|
       csv << element
   end
end
```

## Marian\_Belchev\_17\_ad26e0.rb

```
=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
= 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| #must be CSV.open("result.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('.',"")]
       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
*.csv empty and this csv is results.csv
We can fix it by
Changing
CSV.open("results.csv", "w") do |csv|
CSV.open("result.csv", "w") do |csv|
Dir.glob("#{ARGV[0]}*_*_*.rb") do |file1|
Dir.glob("#{ARGV[1]}*_*_*.rb") do |file2|
Dir.glob("#{ARGV[0]}/*.rb") do |file1|
Dir.glob("#{ARGV[1]}/*.rb") do |file2|
```

```
Fix the sorting

csv << [key,value.gsub('.',"")]

to

csv << [value,key.gsub('.',"")]
```

## Now is working

Not that easy to understand. GRADE: 3

# Momchil\_Angelov\_18\_d8aa65.rb

=begir

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 lenght 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]
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
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
   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
Does not compile.
undefined local variable or method 'short' for main:Object (NameError)
short must be defined globally
Yet nothing appears
Have to rewrite
Not easy to understand.
GRADE: 1
Moretti_Georgiev_19_b7f153.rb
=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| # 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
   if lastName.length == 10
       student[firstName] = lastName
   end
end
CSV.open("result.csv", "w") do |csv_file|
   student.sort.each do |key, value|
       csv_file << ["#{key}, #{value}"] #csv_file << ["#{key}", "#{vlue}"]
   end
end
Nothing appears to .csv file
We can fix it by
Changing
```

```
Dir.glob("#{ARGV[0]}*_*_*.rb") do |file|
to
Dir.glob("#{ARGV[0]}/*.rb") do |file|

Changing
student[firstName] = lastName
to
student[lastName] = firstName
To resolve the sortation

Changing
csv_file << ["#{key}, #{value}"]
to
csv_file << ["#{value}","#{key}"]
To not displayed quotes
Now is working
Easy to understand.
GRADE: 3
```

## Nikola\_Marinov\_20\_add57e.rb

=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:

```
File1,3
           File2,4
           FileN,3
=end
requre 'csv'
def is_numeric(o)
true if Integer(o) rescue false
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
```

Nothing is displayed Many syntax errors Have to rewrite Not easy to understand.

```
Not easy to understand.
GRADE: 2
Petko_Bozhinov_21_954dc6.rb
# 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
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]
                    i+=1
                end
           end
        end
    end
end
output = output.sort_by{ |element| element[1]}
```

Not easy to understand.

CSV.open("result.csv", "w") do |csv| output.each do |pusher| csv << pusher

GRADE: 2

end end

## Radoslav\_Kostadinov\_22\_772118.rb

=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
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
```

Must be rewritten.

Wrong sequence of actions and complication with unnecessary actions Not easy to understand.

**GRADE: 1** 

## Simeon\_Shopkin\_23\_56a835.rb

```
=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
```

# Must be rewritten. Calling .split for an array useless comparison first\_files! = second\_files always return true Using .length instead of .size Have to rewrite it Not easy to understand.

GRADE: 1

# Stanimir\_Bogdanov\_24\_ca514d.rb

```
# scp MyFile.txt student11b@172.16.18.14:/home/student11b/results_a
```

=begin

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:

```
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 ]
  # puts "#{first},#{last}"
 end
end
Do not check if the file is * .rb
We can fix it by
Changing
Dir.glob("#{directory}*") do |filename|
Dir.glob("#{directory}/**/*.rb") do |filename|
Easy to understand.
GRADE: 4
Stanislav_Gospodinov_26_b36abb.rb
=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
Not sorting right.
Write to results.csv instead result.csv
.length Use for an array instead of a string
Incorrect split in point
filename.split ('.') [0]
We can fix it by
Replacing
filename.split('.')[0]
with
filename.split(/\./)[0]
replacing
Dir.glob("#{ARGV[0]}*.rb") do |file|
with
Dir.glob("#{ARGV[0]}/**/*.rb") do |file|
Replacing
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
with
CSV.open("result.csv", "w") do |csv|
 Hash[hash.sort_by { | first, last | last }.reverse].each do | first, last |
  csv << [ first, last ]
 end
Not that easy to understand.
GRADE: 3
Stanislav_Valkanov_25_4482c1.rb
#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;
#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
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]
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
Not sorted result by first name
We can fix it by
Changing
CSV.open("result.csv", "w") do |csv|
Hash[a.sort.reverse].each do |element|
csv << element
end
end
to
CSV.open("result.csv", "w") do |csv|
 Hash[a.sort_by { | first, last | first }.reverse].each do | first, last |
  csv << [ first, last ]
  end
end
Not easy to understand.
GRADE: 4
Tihomir_Lidanski_27_dafd44.rb
#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
```

Calling

name = myfile.split('/')last.split(/\./).first Instead of

name = myfile.split('/').last.split(/\./).first

Must be rewritten. Not easy to understand.

# Veselin\_Dechev\_11A2\_5f1c22.rb

```
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
```

## **GRADE: 1**