Learning from mistakes

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Purpose:

The purpose of this report is to study the mistakes we have made during our first test so we don't have to repeat them again.

Main Problems:

The main problems that people encountered were

- -Not committing on time or at all
- -Wrong name of the CSV file
- -Unable to sort correctly
- -Some programs are beyond fixable

Recommendations to avoid problems:

- -Create your own fixtures so you can test your program
- -Make it so that other people can read the code
- -Pay attention to the task

Team:

Dimitar Nestorov Georgi Ivanov Momchil Angelov

Borislav Rusinov

```
=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;
 8 4. Sort the result by Last Name DESC.
9 5. Produce a result in CSV format named result.csv:
                 FirstName1, LastName1
FirstName2, LastName2
                  FirstNameN, LastNameN
15
16
17 =end
18 a=ARGV[0]
19 require 'csv'
20 array=[]
1 Dir.glob("#{a}*.*") do |my_text_file|
22 name = my_text_file.split("/").last.split(".").first.split("_")
23 if name[1]!=nil && name[0].length==10
                 array << name[0] + "," + name[1]
25
26 end
27 array.sort!
28 array.reverse!
29 File.open("results.csv", "w") do |csv|
          array.each do [arg]
           csv.puts(arg)
          end
33 end
```

The problem here is that Borislav named his CSV "results" instad of "result".

The solution is to pay attention to what he has to do.

Score: 4/5 would work if CSV name was correct

Denis Trenchev

```
=begin
     Develop a program named FirstName_LastName_ClassNumber_b4c3f5.rb

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

9 4. Sort the result by Last name;
10 5. Produce a result in CSV format named result.csv:
             LastName1, FirstName1
LastName2, FirstName2
             LastNameN, FirstNameN
15
17 =end
19 require 'csv'
21 i = 0
22 arr1 = []
23 arr2 = []
24 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]
34
35
                            i+=1
                    end
36 end
37 end
38 i = 0
Jay
Dir.glob(ARGV[1]+"*.rb") do [second_folder]
Iname = 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]
45
46
                            i+=1
48
                    end
50 end
51 end
54 arr1.each do |compare1|
55 arr2.each do |compare2|
                  if compare2 == compare1
  arr3[i] = compare1
                    end
61 end
62
50
     sort = arr3.sort_by{[asd| asd[1]}
CSV.open("students.csv", "w") do |csv|
sort.each do |element|
                    csv << element
69 end
```

Where did name 1 come from? Also a lot of other errors.

Can't find a solution for this one – too many mistakes.

Score: 1/5

Dimitar Nestorov

```
1 #Develop a program named FirstName_LastName_ClassNumber_0d5526.rb
3 #1. you are given an argument for a folder with files;
4 #1.1 if there are other arguments they should be discarded 5 #2. file names in this folder are in the form First_Last_digits.rb;
 6 #3. find all the students that have 10 letters in their first name;
 7 #4. Sort the result by Last Name DESC.
8 #5. Produce a result in CSV format named result.csv:
               FirstName1, LastName1
10 #
11 #
              FirstName2, LastName2
12 #
              FirstNameN, LastNameN
13 #
15
16 require 'csv'
17 def is_numeric(o)
18 true if Integer(o) rescue false
19 end
20 array = []
21 count = 0
Dir.glob(ARGV[0] + "*.rb") do |file|
name = file.split("/").last.split(".").first.split("_")
24
        name[0] = name[0].to_s
name[0] = name[0].capitalize
25
26
        name[1] = name[1].to_s
name[1] = name[1].capitalize
28
29
30
        if name.size == 3 && is_numeric(name[2])
   if name[1].length == 10
31
33
                    array[count] = []
array[count][0] = name[0].to_s
array[count][1] = " #{name[1].to_s}"
34
35
36
                    count += 1
38
              end
39
        end
40:
41 end
array = array.sort_by {|el| -el[1]}
GSV.open("result.csv", "w") do |csv|
45
              array.uniq.each do |e|
46
47
                    csv << e
48
40
              end
50
51 end
```

Problems with the reversing of the array

Solution: use .reverse

Score: 3/5

Dimitar Terziev

```
2 Develop a program named FirstName_LastName_ClassNumber_88db52.rb
 4 1. you are given an argument for a folder with files;
 5 1.1 if there are other arguments they should be discarded
6 2. file names in this folder are in the form First_Last_digits.rb;
 7 3. find all the students that have 5 letters in their second name;
 8 4. Sort the result by Last Name ASC.
9 5. Produce a result in CSV format named result.csv:
                 FirstName1, LastName1
                 FirstName2, LastName2
                 FirstNameN, LastNameN
14
15
16
17 =end
18 require 'csv'
19 arr = []
19     arr = []
20     Dir.glob("#{ARGV[0]}*.rb*"){|file|
21         file_str = file.split('/').last
22         if(file_str=~/\A[a-zA-Z]+\_[a-zA-Z]+\_\d+\.rb\z/ && file_str.split('_')[1].size == 5)
23         arr.push("#{file_str.split('_')[1]} #{file_str.split('_').first}")
24
25 }
    CSV.open('result.csv','w'){|csv|
arr.uniq.sort.each{|el|
28
                 csv << "#{el.split(' ').last} #{el.split(' ').first}".split(' ')
29
```

He didn't need to check if the name contains Letters or Numbers

Solution: Delete if(file_str= $-/A[a-zA-Z]+_[a-zA-Z]+_h$)

Score: 3/5

Georgi Ivanov

```
1 =begin Develop a program named FirstName_LastName_ClassNumber_871529.rb
 3 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
14 =end
17 require "csv"
19 arr = []
20 i = 0
Dir.glob(ARGV[0]+"*.rb") do |file|
name = file.split('/').last.split('.').first.split('_')
         firstname = name[0]
lastname = name[1]
24
26
         exercise = name[2]
         if firstname == '' || lastname == '' || exercise == ''
elsif name.length == 3
28
29
30
31
32
          if lastname.length == 5
                arr[i] = []
arr[i][0] = name[0]
arr[i][1] = name[1]
34
35
                i+=1
          end
37
          end
38 end
41 daiba = arr.sort_by{|asd| asd[0]}.reverse!
42 CSV.open("result.csv", "w") do [csv]
43 daiba.each do [element]
         csv << element
46 end
```

Problem: It works

Solution: None! It will continue to work.

Score: I r8 8/8 m8. Pls don't h8.

Hristo Dachev

```
1 =begin
 2 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 lenght those
         files should be sorted in ASC order;
 7 3. Calculate the length of their names (including extensions).;
 8 4. Sort the result by lenth;
 9 5. Produce a result in CSV format named result.csv:
                  File1,3
                  File2,4
                  FileN.3
15 =end
17 require 'csv'
19 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
  digit = path.split("/").last.split("_", 2).last.split("_").last.split(",").first
24
25
        name = path.split("/").last
26
        if name.include? "_" then counter = name.count "_" end
28
        if (counter != 2) || (digit.to_i.to_s != digit)
29
              l = name.length
30
             hash[name] = l
32
   35
36
38
39
40
        name = path.split("/").last
if name.include? "_" then counter = name.count "_" end
41
        if (counter != 2) || (digit.to_i.to_s != digit)
45
              l = name.length
             hash[name] = 1
47
        end
48 end
OSV.open("result.csv", "w") do [csv]
hash.sort_by{ |k, v| v}.each do |name, length|
csv << ["#{name}","#{length}"]
        end
54 end
```

Problem: None

Solution: None needed

Score: 5/5

Ivelin Slavchev

```
1 =begin
       Develop a program named FirstName_LastName_ClassNumber_835552.rb
4 1. you are given two arguments for a folders with files;
5 1.1 if there are other arguments they should be discarded;
6 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;
7 3. Calculate the length of their names (including extensions).;
8 4. Sort the result by lenth;
9 5. Produce a result in CSV format named result.csv:
                File1,3
                File2,4
                FileN, 3
14
15 =end
16
17 require 'csv'
18 result = Hash.new
19 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
26
27 end
28 Dir.glob(ARGV[1] + "*").each do |file2|
      short2 = file2.split("/").last
ext2 = short2.split(".").last
29
30
       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
34
36 end
37 result.sort_by{|k, v| v}
38 CSV.open("result.csv",
                            "w") do [csv]
       result.each do |p|
39
40
           csv << p
       end
41
```

Problem: there are multiple problems with Ivelin's program and one of them is forgetting his variables names

Soltuion: Compile your program to see if it works before committing.

Score: 3/5

Ivo Valchev

```
2 Develop a program named FirstName_LastName_ClassNumber_6c8bd9.rb
4 1. you are given two arguments for a folders with files;
5 1.1 if there are other arguments they should be discarded;
6 2. file names in this folders are in the form First_Last_digits.rb;
 7 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;
8 4. Sort the result by Last name ;
9 5. Produce a result in CSV format named result.csv:
        LastName1, FirstName1
        LastName2, FirstName2
13
14
        LastNameN, FirstNameN
15 =end
17 hash_fold1={}
18 hash_fold2={}
19
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]}"
24
26
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]}"
29
30
33 end
34 File.open("result.csv", "w") do |csv|
       hash_fold1.sort.map do |key, value|
if (hash_fold1[key]==hash_fold2[key])
36
                 csv.puts("#{key},#{value}")
            end
38
       end
40 end
```

Problems: Too many

Solution: 12program

Score: 2/5

Borislay Stratey

```
1 #Develop a program named FirstName_LastName_ClassNumber_a65be5.rb
3 #1. you are given two arguments for a folders with files;
4 #1.1 if there are other arguments they should be discarded;
5 #2. file names in this folders are in the form First_Last_digits.rb;
6 #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;
 7 #4. Sort the result by Last name ;
8 #5. Produce a result in CSV format named result.csv:
10 # LastName1, FirstName1
11 # LastName2,FirstName2
12 #
13 # LastNameN, FirstNameN
15 require 'csv'
16 a = Array.new
17 h = Hash.new
18 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
24
                    digit = file_name.split(/_/).last.split(/\./).first.to_s
26
                    first_name = file_name.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
28
29
30
34
              end
        end
36
37 end
39 CSV.open("results.csv", "w") do |csv|
         a = h.sort
         a.each do |element|
41
              csv << element
        end
43
44 end
```

Problems: Too many

Score: 0/5

David Georgiev

```
1
       #Develop a program named FirstName_LastName_ClassNumber_leea4f.rb
2
3 #1. you are given an argument for a folder with files;
4 #1.1 if there are other arguments they should be discarded
5 #2. file names in this folder are in the form First Last digits.rb;
6 #3. find all the students that have 5 letters in their second name;
7 #4. Sort the result by Last Name ASC.
8 #5. Produce a result in CSV format named result.csv:
0
10 #
           FirstName1, LastName1
11 #
           FirstName2, LastName2
17 #
13 #
          FirstNameN, LastNameN
14
15
       require 'csv'
       students names = []
16
       Dir.glob("#{ARGV[0]}/**/*.rb") do |current_file|
17
18
19
       name = current_file.split('/').last.split(/_/)
       if name[1].length == 5
           if not students names.include?(["#{name[1]}", "#{name[0]}"]) then
21
               students_names << (["#{name[1]}", "#{name[0]}"])
22
23
24
       end
25
       end
       CSV.open("result.csv", "w") do [csv]
26
           students_names.sort.each do |last, first|
27
               csv << ["#{first}", "#{last}"]
28
29
           end
30
       end
```

Mark: 3/5

To fix this, I suggest using this if: if !name[0] \parallel !name[1] \parallel name[2].to_i == 0 next else if name[1].length == 5 and so on with his code.

This will make his program check first then ask for size, which will fix nillclass error. His sort is sorting by 1st element too, so we have to fix it too.

Iliyan Germanov

```
1 =begin
        Develop a program named FirstName_LastName_ClassNumber_f8b0d9.rb
4 1. you are given two arguments for a folders with files;
5 1.1 if there are other arguments they should be discarded;
6 2. file names in this folders are in the form First_Last_digits.rb
7 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;
8 4. Sort the result by Last name ;
9 5. Produce a result in CSV format named result.csv:
        LastName1, FirstName1
        LastName2, FirstName2
14
        LastNameN, FirstNameN
15 =end
17 require 'csv'
18 results = Hash.new
19 results.compare_by_identity
20 def is_number(str)
        str[/[0-9]+/] == str
23 Dir.glob("#{ARGV[0]}/*.rb") do |path1|
        filename1 = path1.split(/\//).last
if filename1.count(" ") == 2
  firstname1 = filename1.split("_").first
  lastname1 = filename1.split("_")[1]
25
26
28
             digit1 = filename1.split("_")[2].split(".").first
29
            if is_number(digit1)
30
                 flag = 0
                 Tidg = V
Dir.glob("#{ARGV[1]}/*.rb") do |path2|
  filename2 = path2.split(/\//).last
  if filename2.count("_") == 2
    digit2 = filename2.split("_")[2].split(".").first
31
32
34
35
                           if is_number(digit2)
                                name1 = firstname1 + lastname1
37
                                name2 = filename2.split("_").first + filename2.split("_")[1]
38
                                if name1 == name2
39
                                    flag = 1
40
                                    break
                               end
41
42
                          end
43
                      end
                 end
45
                 if flag == 0
46
                      results[lastname1] = firstname1
                 end
            end
48
       end
50 end
52 CSV.open("result.csv", "w") do [csv]
        results.sort_by{|key, val| key}.each do |el|
54
            csv << el
        end
56 end
```

Mark: 2/5

Works, but you can't read easily how the program works.

Lili Kokalova

```
1 =begin
2 Develop a program named FirstName_LastName_ClassNumber_e0ea9c.rb
4 1. you are given two arguments for a folders with files;
5 1.1 if there are other arguments they should be discarded;
6 2. file names in this folders are in the form First_Last_digits.rb;
7 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;
8 4. Sort the result by First name;
9 5. Produce a result in CSV format named result.csv:
         LastName1, FirstName1
         LastName2, FirstName2
          LastNameN, FirstNameN
14
15 =end
17 require 'csv'
18 student = Array.new
19 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}"]</pre>
26
28 end
   Dir.glob(ARGV[1]+"/**/*.*").each do |file_name1|
  file_name = file_name1.split("/").last
  first_name = file_name.split("/").last.split("_").first
30
         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}"]</pre>
34
35
36
37 end
38
39 CSV.open("result.csv", "w") do |csv|
         student.each do [fn, ln]
40
              student1.each do |fn1, ln1|
42
                    if fn != fn1
43
                          if ln != ln1
                                csv << ["#{fn1}", "#{ln1}"]
45
                          end
46
                    end
47
              end
         end
48
```

The CSV is kind of odd. The code can be made better by using Array operators & and –

The program is almost ready but has to be fixed.

Mark: 3/5

Nikolay Mihailov

```
1 #Develop a program named FirstName_LastName_ClassNumber_f70059.rb
3 #1. you are given two arguments for a folders with files;
4 #1.1 if there are other arguments they should be discarded;
5 #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.;
6 #3. Calculate the length of their names (including extensions) divided by 2 rounded to the smalles number;
7 #4. Sort the result by File name;
8 #5. Produce a result in CSV format named result.csv:
10 #
               File1,3
11 #
               File2,4
12 #
               FileN, 3
13 #
15 require 'csv'
16 hash = Hash.new
17 count = 0
      Dir.glob(ARGV[0] + "/*.rb") do |file|
18
19
           first = file.split(/\//).last
20
          puts first
          #for (i = 0;i < first.length;i+=1)</pre>
24
          size = first.length
25
           i = 0
26
           first.each do |element|
28
               c = first[i].chr
29
               if element == 0 || element == 1 || element == 2 || element == 3 || element == 4 || element == 5 ||
                   element == 6 || element == 7 || element == 8 || element == 9
30
33
           end
34
           puts count
35
36
       Dir.glob(ARGV[1] +"/*.rb") do |secFile|
37
38
          sec = secFile.split(/\//).last
39.
           #puts sec
40
41
42
       CSV.open("result.csv", "w") do [csv]
43
44
           hash.sort_by{|key,val| key}.each do |element|
45
           csv << element
46
           end
47
       end
```

He forgot to use the split("_") method.

He has far too many mistakes.

Mark: 0/5

Stanislav Iliev

```
1 #Develop a program named FirstName_LastName_ClassNumber_627d43.r#
 3 #1. you are given two arguments for a folders with files;
#1.1 if there are other arguments they should be discarded;
5 #2. file names in this folders are in the form First_Last_digits.rb;
6 #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;
 7 #4. Sort the result by Last name ;
 8 #5. Produce a result in CSV format named result.csv:
9 #
10 #
       LastName1, FirstName1
11 #
       LastName2, FirstName2
12 #
13 # LastNameN, FirstNameN
14
16
17 require 'csv'
18 name_array = Array.new()
19 name_array2 = Array.new()
20 support_array = Array.new()
21 support_array2 = Array.new()
22 i = 0
23 dir1 = ARGV[0]
24 dir2= ARGV[1]
26 Dir.glob("#{dir1}/*.*") do |file|
        name_array[i] = file.split(/\//).last
28
        i += 1
29 end
30 count = i
31 i = 0
32 Dir.glob("#{dir2}/*.*") do |file2|
       name_array2[i] = file2.split(/\//).last
34
35 end
36 i = 0
37 for check in i..count
       if name_array[check] != name_array2[check]
38
                 support_array[i] = name_array[check]
39
                 support_array2[i] = name_array2[check]
41
                puts support_array
                puts support_array2
CSV.open("result.csv", "w") do [csv]
    support_array.each do [element]
43
44
45
                     csv << [element]
46
47
                end
48
                CSV.open("result.csv", "w") do [csv]
49
                      support_array2.each do |element2|
50
                              csv << [element2]
52
                end
       end
54
55 end
```

The problem is outputting too much and the actual filter mechanism doesn't work.

Mark: 2/5

Stefan Iliev

```
1 #Develop a program named FirstName_LastName_ClassNumber_d77aee.rb
 3 #1. you are given two arguments for a folders with files;
 4 #1.1 if there are other arguments they should be discarded;
 5 #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;
 6 #3. Calculate the length of their names (including extensions).;
    #4. Sort the result by length;
 8 #5. Produce a result in CSV format named result.csv:
                    File1,3
10 #
                    File2,4
11 #
12 #
                    FileN,3
13 #
15 require 'csv'
17 first_folder = ARGV.shift
18 second_folder = ARGV.shift || "err"
19 names_hash = Hash.new
   Dir.glob(first_folder+"/*.*").each do |text_file|
  text_file = text_file|split("/").last
         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 =~ /\d/) then names_hash[text_file] = text_file.length end
    if (second_name =~ /\d/) then names_hash[text_file] = text_file.length end
else
29
30
31
               names_hash[text_file] = text_file.length
         end
33 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]
39
                    diggit = text_file.split("_")[2].split(/\./).first
41
42
                        (diggit.to_i.to_s != diggit) then names_hash[text_file] = text_file.length end
                    if (first_name =~ /\d/) then names_hash[text_file] = text_file.length end
                    if (second_name = \sim /\d/) then names_hash[text_file] = text_file.length end
45
46
                    names_hash[text_file] = text_file.length
47
              end
48
         end
49 end
   names_hash = Hash[names_hash.sort_by{|k,v| k}]
52 names_hash = Hash[names_hash.sort_by{|k,v| v}]
54 puts names hash
    CSV.open("results.csv","w") do |csv|
names_hash.each do |element|
              csv << element
         end
50
60 end
```

Wrong output. The sorting is wrong. At least he sorted his hash before the CSV writing. Its hard to fix the code.

Mark: 3/5

Valentin Varbanov

```
1 =begin
3 Develop a program named FirstName_LastName_ClassNumber_041472.rb
5 1. you are given two arguments for a folders with files;

    6 1.1 if there are other arguments they should be discarded;
    7 2. file names in this folders are in the form First_Last_digits.rb;

8 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;
9 4. Sort the result by Last name ;
10 5. Produce a result in CSV format named result.csv:
       LastName1,FirstName1
LastName2,FirstName2
       LastNameN, FirstNameN
16
18 =end
19
20 students_first_dir = Array.new
21 students_second_dir = Array.new
23 for i in 0..1
       directory = ARGV[i]
if ARGV[i].split(//).last(1).to_s == "/"
25
26
           directory += "**/*.rb"
28
       else
            directory += "/**/*.rb"
29
30
       end
31
       Dir.glob(directory).each do |dir|
           student = dir.split(/\//)
           if i == 0
34
35
                students_first_dir.push(student)
36
            else
37
                students_second_dir.push(student)
38
            end
       end
39
40 end
42 studentcsv = Array.new
44 students_first_dir.each do |std|
45
      match = 0
46
       students_second_dir.each do |std2|
47
           name = std.last.split(/_/)
48
49
          name2 = std2.last.split(/_/)
50
           for i in 0...
                if name[i] == name2[i]
                    match = 1
                end
54
           end
55
56
       studentcsv.push(name[1], name[2])
58 end
59
60 CSV.open("result.csv", "w") do |csv|
       studentcsv.each do [string]
61
           csv << string
       end
64 end
```

Wrong. Name is not defined.

Mark: 1/5

Kalin Marinov

```
1 #==begin
2 #Develop a program named FirstName_LastName_ClassNumber_bce70c.rb
3 #
4 #1. you are given an argument for a folder with files;
5 #1.1 if there are other arguments they should be discarded
6 #2. file names in this folder are in the form First_Last_digits.rb;
7 #3. find all the students that have 5 letters in their second name;
8 #4. Sort the result by First name DESC.
9 #5. Produce a result in CSV format named result.csv:
10 #
11 #
           FirstName1, LastName1
          FirstName2, LastName2
12 #
13 #
14 # FirstNameN, LastNameN
15 #==end
16
17 require 'csv'
18
19 hash = Hash.new
21 Dir.glob("#{ ARGV[0] }/*") do [name]
22
      name = name.split("/").last
       short_name = name.split('_')[1]
23
24
      if short_name.length == 5
25
           hash[name] = short_name
26
      end
27 end
28
29 CSV.open("result.csv", "w") do |csv|
       hash = hash.sort_by { |key, value| value }.reverse
30
31
      hash.each | key | do
32
           csv << key
      end
34 end
```

Problem: ☐ Wrong file name and wrong each loop.

Fix: ☐ Change file name to: Kalin Marinov 12 bce70c.rb

And change "hash.each |key| do" to "hash.each do |key|"

Mark: 3/5

Kamena Dacheva

```
1 =begin
 2 Develop a program named FirstName_LastName_ClassNumber_0af18f.rb
4 1. you are given an argument for a folder with files;
5 1.1 if there are other arguments they should be discarded
6 2. file names in this folder are in the form First_Last_digits.rb;
7 3. find all the students that have 5 letters in their second name;
 8 4. Sort the result by First name DESC.
 9 5. Produce a result in CSV format named result.csv:
               FirstName1, LastName1
               FirstName2, LastName2
               FirstNameN, LastNameN
14
15 =end
17 student = Hash.new { | name, programs | name[programs] = []}
18 directory = ARGV[0]
19 require "csv"
21 class String
22 def is_number?
        Float(self) != nil rescue false
25 end
27 Dir.glob("#{directory}/*.*") do [my_repository]
         name_dir = my_repository.split("/").last
29
30
         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
34
35
36
          if name_dir.include? "_" then counter = name_dir.count "_" end
37
         student["#{name}"] << sir_name if ((counter == 2) && (sir_name.length == 5) && (program.is_number?) && (ex ==
               "rb"))
38 end
0 CSV.open("result.csv", "w") do |csv|
41 student.sort_by{|k, v| v}.reverse.each do |f_name, l_name|
42 csv << [f_name,l_name].flatten
43
44 end
```

Problem: Wrong sorting.

Fix: Change "student.sort by $\{|k, v| v\}$.reverse.each" to "student.sort by $\{|k, v| k\}$.reverse.each"

Mark: 4/5

Kristina Pironkova

```
1 =begin
2 Develop a program named FirstName_LastName_ClassNumber_890ba0.rb
4 1. you are given an argument for a folder with files;
 5 1.1 if there are other arguments they should be discarded
6 2. file names in this folder are in the form First Last digits.rb;
7 3. find all the students that have 10 letters in their first name;
8 4. Sort the result by Last Name DESC.
9 5. Produce a result in CSV format named result.csv:
11
           FirstName1, LastName1
          FirstName2, LastName2
13
14
          FirstNameN, LastNameN
15 =end
16
17
18 require 'csv'
19 results=Hash.new
20 Directory = ARGV[0]
Dir.glob("#{Directory}/*.rb") do [file_name]
23
       first_name = file_name.split("/").last.split("_").first.capitalize
       last_name=file_name.split("/").last.split("_",2).last.split("_").first.capitalize
24
25
26
          if first_name.length == 10
27
               results["#{last_name}"] ="#{first_name}"
28
29
           end
30
31 end
34 CSV.open("results.csv", "w") do [csv]
35
     results.sort.each do [first, last]
36
37
      csv << [last, first]
38
39
       end
40 end
```

Problem: ☐ Wrong result file name and sorting.

Fix: Change: "results.csv" to "result.csv"

Change "result.sort.each" to "result.sort.reverse.each"

Mark: 4/5

Lubomir Yankov

```
1 require 'csv'
2 def is_numeric(o)
3 true if Integer(o) rescue false
4 end
5
6 array = []
7 count = 0
8
9 Dir.glob(ARGV[0] + "*").each do [file]
      ch_count = 0
10
      file_name = file.split("/").last.split("")
11
12
     file_name.each do [ch]
13
14
       if is_numeric(ch)
15
16
17
              ch_count += 1
18
19
       end
20
21
     end
      if ch_count == 9
22
          len = file name.length
23
          array[count] = []
24
          array[count][0] = file_name
25
          array[count][1] = len/2.round
26
          count += 1
27
28
      end
29
30 end
31 array = array.sort_by {|el| el[0]}
32 CSV.open("results.csv", "w") do [csv]
33
34
      array.each do |element|
35
         csv << element
36
37
38
     end
39
40 end
```

Problem: A lot of errors.

Mark: 1/5

```
1 =begin
2 Develop a program named FirstName_LastName_ClassNumber_b7f153.rb
4 1. you are given an argument for a folder with files;
5 1.1 if there are other arguments they should be discarded
6 2. file names in this folder are in the form First Last digits.rb;
7 3. find all the students that have 10 letters in their second name;
8 4. Sort the result by Last Name ASC.
9 5. Produce a result in CSV format named result.csv:
10
           FirstName1, LastName1
11
          FirstName2, LastName2
12
13
           FirstNameN, LastNameN
14
15 =end
16 require 'csv'
17
18 student = Hash.new
20 Dir.glob("#{ARGV[0]}*_*_*.rb") do [file]
      firstName = file.split("/").last.split("_").first
21
      lastName = file.split("/").last.split("_", 2).last.split("_").first
      digit = file.split("/").last.split("_").last.split(".").first
23
      if lastName.length == 10
24
           student[firstName] = lastName
25
26
      end
27 end
28
29 CSV.open("result.csv", "w") do |csv_file|
       student.sort.each do [key, value]
30
31
          csv_file << ["#{key}, #{value}"]
       end
32
33 end
```

Change "csv file << ["#{key}, #{value}"]" to "csv file << ["#{key}, #{value}"]"

Mark: 4/5