Denis Trenchev
Code:

```
require 'csv'

i = 0
arr1 = []
arr2 = []
arr3 = []

Dir.glob(ARGV[0]+"*.rb") do |first_folder|
  name = first_folder.split('/').last.split('.').first.split('_')

  if name.length == 3
    if name[1].to_s.length == 5
      arr1[i] = []
      arr[i][0] = name[0]
      arr[i][1] = name[1]
      i+=1
    end
  end
end
i = 0

Dir.glob(ARGV[1]+"*.rb") do |second_folder|
  name = second_folder.split('/').last.split('.').first.split('_')

  if name.length == 3
    if name[1].to_s.length == 5
      arr1[i] = []
      arr[i][0] = name_1[0]
      arr[i][1] = name_1[1]
      i+=1
    end
  end
end
i = 0

arr1.each do |compare1|
  arr2.each do |compare2|
    if compare2 == compare1
      arr3[i] = compare1
      i+=1
    end
  end
end


sort = arr3.sort_by{|asd| asd[1]}
CSV.open("students.csv", "w") do |csv|
    sort.each do |element|
        csv << element
    end
end
```

Dimitar Nesterov
Code:

```ruby
require 'csv'
def is_numeric(o)
    true if Integer(o) rescue false
end
array = []
count = 0
Dir.glob(ARGV[0] + "*.rb") do |file|
  name = file.split("/").last.split(".").first.split("_")

  name[0] = name[0].to_s
  name[0] = name[0].capitalize

  name[1] = name[1].to_s
  name[1] = name[1].capitalize

  if name.size == 3 && is_numeric(name[2])
    if name[1].length == 10

      array[count] = []
      array[count][0] = name[0].to_s
      array[count][1] = " #{name[1].to_s}"
      count += 1

    end
  end
end
array = array.sort_by {|el| -el[1]}
CSV.open("result.csv", "w") do |csv|

    array.uniq.each do |e|

      csv << e

    end

end
```

Dimitar Terziev
Code:

```
require 'csv'
arr = []
Dir.glob("#{ARGV[0]}*.rb*"){|file|
  file_str = file.split('/').last
  if(file_str=~/\A[a-zA-Z]+\_[a-zA-Z]+\_\d+\.rb\z/ && file_str.split('_')[1].size
== 5)
    arr.push("#{file_str.split('_')[1]} #{file_str.split('_').first}")
  end
}
CSV.open('result.csv','w'){|csv|
  arr.uniq.sort.each{|el|
    csv << "#{el.split(' ').last} #{el.split(' ').first}".split(' ')
  }
}
```

Georgi Ivanov
Code:

```
require "csv"

arr = []
i = 0

Dir.glob(ARGV[0]+"*.rb") do |file|
   name = file.split('/').last.split('.').first.split('_')
   firstname = name[0]
  lastname = name[1]
  exercise = name[2]

  if firstname == '' || lastname == '' || exercise == ''
  elsif name.length == 3

   if lastname.length == 5
      arr[i] = []
      arr[i][0] = name[0]
      arr[i][1] = name[1]
      i+=1
    end
    end
end


daiba = arr.sort_by{|asd| asd[0]}.reverse!
CSV.open("result.csv", "w") do |csv|
   daiba.each do |element|
      csv << element
  end
end
```

Hristo Dachev
Code:

```
require 'csv'

hash = Hash.new

Dir.glob("#{ARGV[0]}*").each do |path|
  first_name =   path.split("/").last.split("_").first
  last_name =   path.split("/").last.split("_", 2).last.split("_").first
  digit =     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)
    l = name.length
    hash[name] = l
  end
end
Dir.glob("#{ARGV[1]}*").each do |path|
  first_name =   path.split("/").last.split("_").first
  last_name =   path.split("/").last.split("_", 2).last.split("_").first
  digit =     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)
    l = name.length
    hash[name] = l
  end
end

CSV.open("result.csv", "w") do |csv|
  hash.sort_by{ |k, v| v}.each do |name, length|
    csv << ["#{name}","#{length}"]
  end
end
```

Ivelin Slavchev
Code:

```
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)
    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
```

Ivo Valchev
Code:

```
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
```

Kalin Marinov
Code:

```
require 'csv'

hash = Hash.new

Dir.glob("#{ ARGV[0] }/*") do |name|
  name = name.split("/").last
  short_name = name.split('_')[1]
  if short_name.length == 5
    hash[name] = short_name
  end
end

CSV.open("result.csv", "w") do |csv|
  hash = hash.sort_by { |key, value| value }.reverse
  hash.each |key| do
    csv << key
  end
end
```

Kamena Dacheva
Code:

```
student = Hash.new { |name, programs| name[programs] = []}
directory = ARGV[0]
require "csv"

class String
  def is_number?
    Float(self) != nil rescue false
  end
end

Dir.glob("#{directory}/*.*") do |my_repository|

  name_dir = my_repository.split("/").last

  name = name_dir.split("_").first.capitalize
  sir_name = name_dir.split("_", 2).last.split("_").first.capitalize
  program = name_dir.split("_").last.split(".").first
  ex = name_dir.split("_").last.split(".").last

  if name_dir.include? "_" then counter = name_dir.count "_" end
  student["#{name}"] << sir_name if ((counter == 2) && (sir_name.length == 5) &&
(program.is_number?) && (ex == "rb"))
end

CSV.open("result.csv", "w") do |csv|
  student.sort_by{|k, v| v}.reverse.each do |f_name, l_name|
    csv << [f_name,l_name].flatten
  end
end
```

Kristina Pironkova
Code:

```
require 'csv'
results=Hash.new
Directory = ARGV[0]
Dir.glob("#{Directory}/*.rb") do |file_name|

  first_name = file_name.split("/").last.split("_").first.capitalize

last_name=file_name.split("/").last.split("_",2).last.split("_").first.capitalize

    if first_name.length == 10

      results["#{last_name}"] ="#{first_name}"
    end

end


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

  csv << [last,first]

  end
end
```

Lubomir Yankov
Code:

```
require 'csv'
def is_numeric(o)
    true if Integer(o) rescue false
end

array = []
count = 0

Dir.glob(ARGV[0] + "*").each do |file|
  ch_count = 0
  file_name = file.split("/").last.split("")

  file_name.each do |ch|

    if is_numeric(ch)

      ch_count += 1

    end

  end
  if ch_count == 9
    len = file_name.length
    array[count] = []
    array[count][0] = file_name
    array[count][1] = len/2.round
    count += 1
  end

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

  array.each do |element|

    csv << element

  end

end
```

Marian Belchev
Code:

```
require 'csv'

hash1 = Hash.new
hash2 = Hash.new

Dir.glob("#{ARGV[0]}*_*_*.rb") do |file1|
  Dir.glob("#{ARGV[1]}*_*_*.rb") do |file2|
    firstName1   = file1.split("/").last.split("_").first
    lastName1   = file1.split("/").last.split("_", 2).last.split("_").first
    number1 = file1.split("_").last.split(".").first

    firstName2   = file2.split("/").last.split("_").first
    lastName2   = file2.split("/").last.split("_", 2).last.split("_").first
    number2 = file2.split("_").last.split(".").first

    hash1[firstName1] = lastName1 + "." + number1
    hash2[firstName2] = lastName2 + "." + number2
  end
end

CSV.open("results.csv", "w") do |csv|
  hash2.sort.each do |key, value|
    if !hash1.has_key?(key) && !hash1.has_value?(value.split(".").first) && !
hash1.has_value?(value.split(".").last.to_i)
        csv << [key,value.gsub('.',"")]
    end
    if hash1.has_key?(key) && !hash1.has_value?(value.split(".").first) && !
hash1.has_value?(value.split(".").last.to_i)
      csv << [key,value.gsub('.',"")]
    end
  end
end
```

Momchil Angelov
Code:

```
require 'csv'

arr1=Array.new
arr2=Array.new
arr3=Array.new
a = ARGV[0]
b = ARGV[1]
i=0
Dir.glob(a + "/*.rb") do |my_text_file1|
  short= my_text_file1.split('/').last
  length1 = short.length
  shorter= short.split('.').first.split('_')
  first_name=shorter[0]
  last_name=shorter[1]
  digits=shorter[2].to_i


  if !first_name || !last_name || digits=0
    next
  else
    arr1 << ["#{short}" "#{length1}"]
  end
end
Dir.glob(b + "/*.rb") do |my_text_file2|

  short2= my_text_file2.split('/').last
  length2 = short2.length
  shorter2= short.split('.').first.split('_')
  first_name2=shorter2[0]
  last_name2=shorter2[1]
  digits2=shorter2[2].to_i


  if !first_name2 || !last_name2 || digits2=0
    next
  else
    arr2 << ["#{short2}","#{length2}"]
  end
end

  arr3 = arr1 & arr2



  arr3 = arr3.sort_by  {|el|
     el[1]
  }



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

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

end
```

Moretti Georgiev
Code:

```ruby
require 'csv'

student = Hash.new

Dir.glob("#{ARGV[0]}*_*_*.rb")  do |file|
  firstName = file.split("/").last.split("_").first
  lastName = file.split("/").last.split("_", 2).last.split("_").first
  digit = file.split("/").last.split("_").last.split(".").first
  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}"]
  end
end
```

Nikola Marinov
Code:

```
requre 'csv'
def is_numeric(o)
 true if Integer(o) rescue false
 end

 array=[]

count=0
Dir.glob(ARGV[0] + "/**/*.*").each do |file|

 full_name=file.split("/").last
 name = file.split("/").last.split(".").first_split("_")

 if name.lenght != 3 && !is_numeric(name[2])
 array(count) = []
 array(count) [0]=full_name
 array(count)[1]= full_name.to_s.lenght
 count += 1

 end
 end

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

 full_name=file.split("/").last
 name = file.split("/").last.split(".").first_split("_")

 if name.lenght != 3 && !is_numeric(name[2])
 array(count) = []
 array(count) [0]=full_name
 array(count)[1]= full_name.to_s.lenght
 count += 1
 end
 end
 array = array.sort_by{|el| el|0|}

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

Petko Bozhinov
Code:

```ruby
require 'csv'

class String
  def numeric?
    Float(self) != nil rescue false
  end
end

output = Array.new
i = 0
Dir.glob(ARGV[0] + "/*") do |file|
  file = file.split('/').last.split('.').first.split('_')
  Dir.glob(ARGV[1] + "/*") do |file2|
    file2 = file2.split('/').last.split('.').first.split('_')
    if "#{file[0]} #{file[1]}" == "#{file2[0]} #{file2[1]}"
      if file[2].numeric?
        if file[0].to_s.length == 5
          output[i] = Array.new
          output[i][0] = file[0]
          output[i][1] = file[1]
          i+=1
        end
      end
    end
  end
end

output = output.sort_by{ |element| element[1]}
CSV.open("result.csv", "w") do |csv|
  output.each do |pusher|
    csv << pusher
  end
end
```

Radoslav Kostadinov
Code:

```
require 'csv'
file1 = Hash.new
file2 = Hash.new

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

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


    if s.count('_') == 2 and !((first_name == "" || first_name == " ") ||
(last_name == "" || last_name == " "))
        file1[first_name] = last_name
      end
end

Dir.glob("#{path2}*.rb") do |my_text_file|
    s = my_text_file.split(/\//).last.capitalize
    first_name = my_text_file.split("/").last.split("_").first
    last_name  = my_text_file.split("/").last.split("_",2).last.split("_").first

    if s.count('_') == 2 and !((first_name == "" || first_name == " ") ||
(last_name == "" || last_name == " "))
        file2[first_name] = last_name
      end
end

CSV.open("result.csv", "w") do |csv|
  file1.sort.each do |first_name, last_name|
    file2.sort.each do |first_name1, last_name1|
     if first_name1 == first_name and last_name1 == last_name
      begin
      end
      else
        csv << [last_name1, first_name1]
      end
    end
  end
  end
```

Simeon Shopkin
Code:

```
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
```

Stanimir Bogdanov
Code:

```
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
```

Stanislav Gospodinov
Code:

```
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
```

Stanislav Valkanov

Code:

```
require 'csv'
a = Hash.new
path = ARGV[0]
Dir.glob(path + "**/*.rb") do |my_text_file|
short_name = my_text_file.split('/').last.split('.').first
name = short_name.split("_")[0]
last = short_name.split("_")[1]
last.to_s
if (last.length == 5)&&(short_name.split("_").size == 3)
a["#{name}"] = last
end
end
CSV.open("result.csv", "w") do |csv|
Hash[a.sort.reverse].each do |element|
csv << element
end
end
```

Tihomir Lidanski
Code:

```
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
```

Veselin Dechev
Code:

```
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
```

Borislav Rusinov
Code:

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