```
get_pattern
               .
o ↓ patterns
 patterns = ARRAY([
"dws_(\\d+)",
"jog_(\\d+)",
"ups_(\\d+)",
"sit_(\\d+)",
"std_(\\d+)",
 wlk_(\d+)
 ])
 return patterns
                 -oຸ↓ file, vacc_count
 create_header
O-
                  o ↓ file, "Mouvement, Gender, Index"
   _add_to_line
 ivacc = 0;
  = while (ivacc < vacc_count)</pre>
                  -oְ ↓ file, ",Vacc"
    add to line
  ivacc++
                      –o ↓ patterns, directory_name
  get_directory_type |
                       -o ↓ directory_type
 iPattern = 0
   = while (iPattern < patterns.lenght() AND directory_name IS LIKE patterns[iPattern])</pre>
 iPattern++;
 return iPattern - 1
                 -oຸ ↓ file_path
  get_person_id |
                 -o ↓ person_id
   - if (file_path IS LIKE "sub(\\d+).csv")
                   –oຸ ↓ file_path, "sub(\\d+).csv"
    _extract_from |
  return id
              -oຸ↓ person_id, subjects
  get gender
              -o ↓ gender
 // IMPROVE : verify that the person_id is in te subjects
 current_code = 0
 current_gender = 0
              —o ↓ subjects
   _is_at_end |
              –o≀ ↓ is_end
 // skip the header
              o ↓ subjects
   _get_line |
             -o ↓ header
 0
    while (!is_end AND current_code < person_id)</pre>
               -o ↓ subjects
    _get_line |
              -o ↓ line
  0-
                   -o ↓ line
    _extract_str |
                   -o ↓ current_code, current_gender
                o ↓ subjects
    _is_at_end
                -o ↓ is_end
return current_gender
```

```
-o ↓ file_index, line_count, output_file, file_path, directory_patterns, subjects
                -o ↓ line_explored
O.
 filename = file_path→filename()
 directory_name = file_path→directory_name()
                        o ↓ directory_patterns, directory_name
   get_directory_type |
                        -o ↓ directory_type
 0
                  -o ↓ file_path
   get_person_id |
                  -o ↓ person_id
 // IMPROVE :: cache subjects file
               oຸ↓ person_id, subjects
   get_gender
               -o ↓ gender
                 -o় ↓ output_file, directory_type + "," gender + "," + file_index
   _add_to_line
 0
              -o ↓ file_path
   _open_file |
               o ↓ file
 // skip the header
              o ↓ file
    _{	t get} line ert
              -o ↓ header
              -ọ↓ file
   _is_at_end
              –o ↓ is_end
 iline = 0
   = while (!is_end AND iline < line_count)
               o ↓ file
     _get_line |
               -o ↓ current_line
                  -o ↓ current_line
     _extract_str
  o → acceleration_x, acceleration_y, acceleration_z acceleration = sqrt(acceleration_x ** 2 + acceleration_y ** 2 + acceleration_z ** 2)
                  o ↓ output_file, "," + acceleration
    _add_to_line |
                o ↓ file
    _is_at_end
               -o ↓ is_end
  iline++
                 oຸ ↓ output_file, "\n"
   _add_to_line |
 return iline
                      \cdot \circ \downarrow file_index, train_file, test_file, root_path, directory_patterns, subjects
  explore_directory
O-
                             -o ↓ root_path
   _get_directory_iterator |
                             -o ↓ directory_iterator
   = while (directory_iterator.move_next())
  current_path = directory_iterator.current_value
              o ↓ current_path
     _is_file
             -o ↓ is_file
  0-
    if (is file)
   // we are have hit a .csv file
                   -o ↓ file_index, 600, train_file, file_path, directory_patterns, subjects
     process_file
                   -o ↓ train line
   // if there is enought lines for the testset
     - if (train_line == 600)
                     o ↓ file_index, 60, test_file, file_path, directory_patterns, subjects
      process_file |
                    -o ↓ train_line
    0
   file_index++
```

. .. .

```
else
  // its a directory, explore that directory to get the inner .CSVs
                       -o ↓ file_index, train_file, test_file, file_path, directory_patterns, subjects
    explore directory
 main
archive_path = "\archive"
data_path = archive_path + "\data"
subject_path = archive_path + "\data_subjects_info.csv"
trainset_filepath = "trainset.csv"
testset_filepath = "testset.csv"
file_index = 0
             –oְ ↓ subject_path
  _open_file
             -o ↓ subjects_file
0
              -oְ ↓ trainset_filepath, <mark>"append"</mark>
  open file
             -o ↓ trainset_file
0
              oຸ↓ testset_filepath, "append"
  _open_file |
             –o ↓ testset file
                —o ↓ trainset_file, 600
  create_header
                 o ↓ testset_file, 60
  create_header
0
  get_pattern
               -o ↓ directory_patterns
                     -o \downarrow file_index, trainset_file, testset_file, data_path, directory_patterns, subjects_file
  explore_directory
               -oְ ↓ subjects_file
  _close_file |
               -o ↓ trainset_file
  _close_file |
               -o ↓ testset_file
  _close_file |
```

Sauvegardé!

DA enregistré dans le cache du navigateur.