```
structures :
sumAveragesMen[NB DATA]
sumAveragesWomen[NB_DATA]
  Creation of models
                        o ↓ error
    * Creation of models
fopen_s(&pFiTrainSet, TRAIN_SET, "r")
fopen_s(&pFiModel, FI_MODEL, "w")
fopen_s(&pFiMen, FI_MODEL_MEN, "w")
 fopen_s(&pFiWomen, FI_MODEL_WOMEN , "w")

    if (pFiTrainSet AND pFiModel AND pFiMen AND pFiWomen)

  iLine = 1
  pFiTrainSet = se positionner sur la Line n° 1 de "trainSet.csv"
  title = Ligne n° iLine pFiTrainSet
  error = fgets(title,LENGTH_TITLE, pFiTrainSet)
  sortir title
  error = fscanf_s(pFiTrainSet, "%d", &mov.move)
    Supprimer l'entête de pFiTrain
                     o ↓ pFitrainSet, iLine
    posLineTrainSet
                     o ↓ iLine, pFitrainSet
    = do while (!eof(pFiTrainSet))
   movement = fscanf_s(pFiTrainSet, "%d", &mov.move)
   currentMovement = movement
   sumAveragesMen[NB_DATA] = 0
   sumAveragesWomen[NB_DATA] = 0
   nbMen= 0
   nbWomen = 0
     = do while (!eof(pFiTrainSet) AND currentMovement == mov)
    genderNum = Ligne no iLine, colonne no2 dans "trainSet.csv"
                       o ↓ pFitrainSet, iLine
      posLineTrainSet
                       -o ↓ iLine, pFitrainSet
    mov = fscanf_s(pFiTrainSet, "%d", &mov.move)
       if(genderNum == 0)
                       -o ↓ iLine, sumAveragesWomen, nbValuesWomen
       lineProcessing
                       o ↓
                             sumAveragesWomen, nbWomen
       else
                       -o ↓
                            iLine, sumAveragesMen, nbValuesMen
       lineProcessing
                       o ↓
                             sumAveragesMen, nbMen
                       o ↓ pFitrainSet, iLine
      posLineTrainSet
                       o ↓ iLine, pFitrainSet
    movement = fscanf s(pFiTrainSet, "%d", &mov.move)
    currentMovement = movement
                   ↓ pFiModel, currentMovement, sumAveragesMen, sumAveragesWomen, nbWomen, nbMen
     writeModel
                  o ↓ pFiWomen, currentMovement, sumAveragesWomen, nbWomen
    writeGender
```

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```
-o ↓ pFiMen, currentMovement, sumAveragesMen, nbMen
    writeGender
  fclose(pFiTrainSet)
 fclose(pFiModel)
  fclose(pFiMen)
  fclose(pFiWomen)
   else
  sortir "ERREUR : l'un des fichier n'a pu s'ouvrir"
                 -o ↓ iLine, sumAverages, nbValues
                 o l
                      sumAverages, nbValues
   * lineProcessing
 // car le 1er Vacc commence à la 4ème colonne
 iRow = 4
  = do while (on est pas à la fin de la ligne en cours AND iRow < NB_DATA)
 pFiTrainset = ligne n° iLine, colonne n° iRow
  sumAverages[iRow] += valeur pointée par pFiTrainset (iLine, iRow)
 nbValues++
  iRow++
                  o ↓ pFitrainSet, iLine
  posLineTrainSet
                  o ↓ iLine, pFitrainSet
   * posLineTrainSet
 iLine++
 pFiTrainSet = Ligne n° iLine dans "trainSet.csv"
             -o ↓ pFiModel, currentMovement, sumAveragesMen, sumAveragesWomen, nbWomen, nbMen
 writeModel
0
   * writeModel
   écrire le mouvement dans pFi
i = 0
   = do while (i < NB_DATA)
    écrire sumAveragesMen[iVacc] + sumAveragesWomen[iVacc]) / (nbMen + nbWomen)
              -oຸ ↓ pFi, movement, sumAverages, nbValues
 writeGender
   * writeGender
   écrire le mouvement dans pFi
i = 0
  = do while (i < NB_DATA)
    écrire sumAveragesGender[iGender] / nbGender
```

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