

```
structures :
sumAveragesMen[NB_DATA]
sumAveragesWomen[NB_DATA]
```

```
o-----o
| Creation of models |
o-----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-----o ↓ pFitrainSet, iline
| posLineTrainSet |
o-----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 n° iline, colonne n°2 dans "trainSet.csv"
o-----o ↓ pFitrainSet, iline
| posLineTrainSet |
o-----o ↓ iline, pFitrainSet
```

```
mov = fscanf_s(pFiTrainSet, "%d", &mov.move)
```

```
if(genderNum == 0)
o-----o ↓ iline, sumAveragesWomen, nbValuesWomen
```

```
| lineProcessing |
o-----o ↓ sumAveragesWomen, nbWomen
```

```
else
o-----o ↓ iline, sumAveragesMen, nbValuesMen
```

```
| lineProcessing |
o-----o ↓ sumAveragesMen, nbMen
```

```
o-----o ↓ pFitrainSet, iline
| posLineTrainSet |
o-----o ↓ iline, pFitrainSet
```

```
movement = fscanf_s(pFiTrainSet, "%d", &mov.move)
currentMovement = movement
```

```
o-----o ↓ pFiModel, currentMovement, sumAveragesMen, sumAveragesWomen, nbWomen, nbMen
| writeModel |
o-----o
```

```
o-----o ↓ pFiWomen, currentMovement, sumAveragesWomen, nbWomen
| writeGender |
o-----o
```

