

```

struct model{
    int mvt;
    double v_acc[NB_TEMPS];
};

```

Constantes :

```

FI_MODEL = "fiModel.csv"
FI_TEST_SET = "fiTest.csv"
NB_MODELS = 6
NB_DATA = 600
//LINE_LENGTH_MAX = 8000
NB_TEMPS =
NB_TESTS_MAX = 10000

```

DA

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o-----o
| Evaluation of models |
o-----o

* Evaluation of models
fopen_s(&pFiModel, FI_MODEL , "r")
fopen_s(&pFiTest, FI_TEST_SET, "r")

if (pFiModel AND pFiTest)
o-----o ↓ pFiModel
| convertFileToTable |
o-----o ↓ models

iline = 1
pFiTest= se positionner sur la Line n° 1 de "fiTest.csv"



supprimer l'entête de "test.csv"



nbTests = 0
do while (!eof(pFiTest) AND nbTests < NB_TESTS_MAX)

o-----o ↓ pFiTest, iLine
| posLine |
o-----o ↓ iLine, pFiTest

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

closestDistance = HV

o-----o ↓ line, 4
| getV_acc |
o-----o ↓ v_accs, nbV_accs

iModel = 0
do while (iModel < NB_MODELS)

o-----o ↓ model.v_accs, v_accs, nbV_accs
| getDistance |
o-----o ↓ distance

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    if (distance < closestDistance)
        closestMovement = models[iModel].mvt
        closestDistance = distance
    iModel++

    estimateClasses[nbTests] = closestMovement
    realClasses[nbTests] = movement
    nbTests++

    o-----o ↓ realClasses, estimateClasses, nbTests
    | displayResultsForEachClass |
    o-----o

    o-----o ↓ realClasses, estimateClass, nbTests
    | displayAccuracy |
    o-----o

    o-----o ↓ realClasses, estimateClass
    | displayClass |
    o-----o ↓ nbTests

    fclose(pFiModel)
    fclose(pFiTest)
else
    sortir "ERREUR : ouverture fichier"

```

```

o-----o ↓ model.V_accs, v_accs, nbV_accs
| getDistance |
o-----o ↓ distance

* getDistance
sumDistance = 0
iV_acc = 0
do while(iV_acc < nbV_accs)
    sumDistance += (v_accs[iV_acc] - model.V_accs[iV_acc])^2
    iV_acc++

distance = racine(sumDistance)

```

```

o-----o ↓ pFiModel
| convertFileToTable |
o-----o ↓ models

* convertFileToTable
nbModels = 0



supprimer l'entête de "fiModel.csv"



do while (!eof(pFiModel) AND nbModels < NB_MODELS)

    o-----o ↓ pFiModel, iLine
    | posLineModel |
    o-----o ↓ iLine, pFiModel

    mouvement = fscanf_s(pFiModel, "%d", &mov.move)

    o-----o ↓ iLine, 2
    | getV_acc |
    o-----o ↓ V_accs, nbV_accs

    model.mvt = mouvement
    model.v_accs = V_accs
    models[nbModels] = model
    nbModels++

o-----o ↓ iLine, iRow
| getV_acc |
o-----o ↓ V_accs

* getV_acc
nbV_accs = 0

pFiTestSet = ligne n° iLine, colonne n° iRow

do while (nbV_accs < NB_DATA)
    V_accs[nbV_accs] = pFiTest;
    nbV_accs++;
    pFiTestSet = ligne n° iLine, colonne n° iRow + nbV_accs

o-----o ↓ pFi, iLine
| posLineModel |
o-----o ↓ iLine, pFi

* posLineModel
iLine++
pFi = Ligne n° iLine dans le fichier pointé par pFi

```