Flapstaff

1.42

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facebookRelationships . . . . . **??**
Graph . . . . . **??**
Personne . . . . . **??**
relationship . . . . . **??**

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

src/headers/**ExportGraph.h** . . . . . **??**
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src/headers/**Graphe.h** . . . . . **??**
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src/source/**Flapstaff.c** . . . . . **??**
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src/source/**ParseFile.c** . . . . . **??**
src/source/**TPersonne.c** . . . . . **??**

Chapter 3

Data Structure Documentation

3.1 facebookFriends Struct Reference

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Data Fields

- struct **Personne** ∗ **friends**
- int **nbFriends**

3.1.1 Detailed Description

Definition at line 36 of file FacebookLib.h.

3.1.2 Field Documentation

3.1.2.1 struct Personne∗ friends

Definition at line 38 of file FacebookLib.h.

3.1.2.2 int nbFriends

Definition at line 39 of file FacebookLib.h.

The documentation for this struct was generated from the following file:

- src/headers/**FacebookLib.h**

3.2 facebookRelationships Struct Reference

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Data Fields

- struct **relationship** ∗ **relationships**
- int **nbRel**

3.2.1 Detailed Description

Definition at line 45 of file FacebookLib.h.

3.2.2 Field Documentation

3.2.2.1 int nbRel

Definition at line 48 of file FacebookLib.h.

3.2.2.2 struct relationship∗ relationships

Definition at line 47 of file FacebookLib.h.

The documentation for this struct was generated from the following file:

- src/headers/**FacebookLib.h**

3.3 Graph Struct Reference

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Data Fields

- struct **Personne** ∗ **tabPersonnes**
- int **nbPersonnes**
- int ∗∗ **matrix**
- struct **relationship** ∗ **questions**
- int **nbQuestions**

3.3.1 Detailed Description

Definition at line 26 of file Graphe.h.

3.3.2 Field Documentation

3.3.2.1 int∗∗ matrix

Definition at line 30 of file Graphe.h.

3.3.2.2 int nbPersonnes

Definition at line 29 of file Graphe.h.

3.3.2.3 int nbQuestions

Definition at line 32 of file Graphe.h.

3.3.2.4 struct relationship∗ questions

Definition at line 31 of file Graphe.h.

3.3.2.5 struct Personne∗ tabPersonnes

Definition at line 28 of file Graphe.h.

The documentation for this struct was generated from the following file:

- src/headers/**Graphe.h**

3.4 Personne Struct Reference

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Data Fields

- char **id** [20]
- char **nom** [40]
- int **freq**

3.4.1 Detailed Description

Definition at line 25 of file TPersonne.h.

3.4.2 Field Documentation

3.4.2.1 int freq

Definition at line 29 of file TPersonne.h.

3.4.2.2 char id[20]

Definition at line 27 of file TPersonne.h.

3.4.2.3 char nom[40]

Definition at line 28 of file TPersonne.h.

The documentation for this struct was generated from the following file:

- src/headers/**TPersonne.h**

3.5 relationship Struct Reference

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Data Fields

- char **id1** [20]
- char **id2** [20]

3.5.1 Detailed Description

Definition at line 36 of file TPersonne.h.

3.5.2 Field Documentation

3.5.2.1 char id1[20]

Definition at line 38 of file TPersonne.h.

3.5.2.2 char id2[20]

Definition at line 39 of file TPersonne.h.

The documentation for this struct was generated from the following file:

- src/headers/**TPersonne.h**

Chapter 4

File Documentation

4.1 src/headers/ExportGraph.h File Reference

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Functions

- int **nbSCC** (struct **Graph** g, int ∗∗SCC)
- void **exportSCC** (struct **Graph** g, int ∗∗SCC, FILE ∗fichier, int importantPersons)
- void **exportQuestionsAnswers** (struct **Graph** g, int ∗∗answers, FILE ∗fichier)
- void **exportGraph** (struct **Graph** g, char ∗fileName, int important)

4.1.1 Function Documentation

4.1.1.1 void exportGraph (struct Graph *g*, char ∗ *fileName*, int *important*)

Definition at line 167 of file ExportGraph.c.

4.1.1.2 void exportQuestionsAnswers (struct Graph *g*, int ∗∗ *answers*, FILE ∗ *fichier*)

Definition at line 119 of file ExportGraph.c.

4.1.1.3 void exportSCC (struct Graph *g*, int ∗∗ *SCC*, FILE ∗ *fichier*, int *importantPersons*)

Definition at line 50 of file ExportGraph.c.

4.1.1.4 int nbSCC (struct Graph *g*, int ∗∗ *SCC*)

Definition at line 28 of file ExportGraph.c.

4.2 src/headers/FacebookLib.h File Reference

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Data Structures

- struct **facebookFriends**
- struct **facebookRelationships**

Functions

- int **getRandomFrequency** ()
- struct **relationship getRandomRelationship** (struct **facebookFriends** friends)
- int **isAlreadyFriend** (struct **facebookFriends** friends, char fbID[20])
- struct **Personne getFacebookPerson** (char id[20])
- void **writeFacebookRelationships** (struct **facebookFriends** fbFriends, char ∗token, FILE ∗fichier, int start)
- struct **facebookFriends getFacebookFriends** (char id[20], char ∗token)
- struct **facebookFriends extractFriendsFromHTML** (struct **facebookFriends** fbFriends, char ∗friendFile)
- struct **facebookFriends getFriendsOfFriends** (struct **facebookFriends** fbFriends, int nbMax)
- struct **facebookRelationships getFacebookRelationships** (struct **facebookFriends** fbFriends, char ∗token)
- struct **facebookRelationships getFakeRelationships** (struct **facebookFriends** fbFriends, int nb)
- char ∗ **facebookConnect** (char ∗mail, char ∗pass)

4.2.1 Function Documentation

4.2.1.1 struct facebookFriends extractFriendsFromHTML (struct facebookFriends *fbFriends*, char ∗ *friendFile*)

Definition at line 273 of file FacebookLib.c.

4.2.1.2 char∗ facebookConnect (char ∗ *mail*, char ∗ *pass*)

Definition at line 351 of file FacebookLib.c.

4.2.1.3 struct facebookFriends getFacebookFriends (char *id*[20], char ∗ *token*)

Definition at line 197 of file FacebookLib.c.

4.2.1.4 struct Personne getFacebookPerson (char *id*[20])

Definition at line 76 of file FacebookLib.c.

4.2.1.5 struct facebookRelationships getFacebookRelationships (struct facebookFriends *fbFriends*, char * *token*)

Definition at line 477 of file FacebookLib.c.

4.2.1.6 struct facebookRelationships getFakeRelationships (struct facebookFriends *fbFriends*, int *nb*)

Definition at line 545 of file FacebookLib.c.

4.2.1.7 struct facebookFriends getFriendsOfFriends (struct facebookFriends *fbFriends*, int *nbMax*)

Definition at line 411 of file FacebookLib.c.

4.2.1.8 int getRandomFrequency ()

Definition at line 26 of file FacebookLib.c.

4.2.1.9 struct relationship getRandomRelationship (struct facebookFriends *friends*)

Definition at line 37 of file FacebookLib.c.

4.2.1.10 int isAlreadyFriend (struct facebookFriends *friends*, char *fbID*[20])

Definition at line 55 of file FacebookLib.c.

4.2.1.11 void writeFacebookRelationships (struct facebookFriends *fbFriends*, char * *token*, FILE * *fichier*, int *start*)

Definition at line 122 of file FacebookLib.c.

4.3 src/headers/Flapstaff.h File Reference

Functions

- void **writeFacebookFile** (char ∗token, char ∗facebookID, char ∗fileName, int nbFriends, int nbQuest, int fake)
- void **facebookGen** (char ∗mail, char ∗pass, char ∗id, char ∗fileName, int nbFriends, int nbQuest, int fake)

4.3.1 Function Documentation

4.3.1.1 void facebookGen (char ∗ *mail*, char ∗ *pass*, char ∗ *id*, char ∗ *fileName*, int *nbFriends*, int *nbQuest*, int *fake*)

Definition at line 144 of file Flapstaff.c.

4.3.1.2 void writeFacebookFile (char ∗ *token*, char ∗ *facebookID*, char ∗ *fileName*, int *nbFriends*, int *nbQuest*, int *fake*)

Definition at line 38 of file Flapstaff.c.

4.4 src/headers/Graphe.h File Reference

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Data Structures

- struct **Graph**

Functions

- int ∗∗ **initMatrix** (int sizeMatrix)
- int ∗∗ **createMatrix** (struct **relationship** ∗relation, int nbPersonnes, struct **Personne** ∗tab, int nbRelation)
- void **printMatrix** (int ∗∗matrix, int size)
- void **addRelation** (int i, int j, int ∗∗matrix)
- int ∗∗ **getStronglyConnectedComponents** (int ∗∗matrix, int size)
- void **depthTraversalRec** (int ∗∗matrix, int peak, int size, int ∗tag, int order, int ignored)
- int ∗ **depthTraversal** (int ∗∗matrix, int peak, int size, int order, int ignored)
- int **getMinimum** (int ∗tab, int size)
- int ∗ **getShortestRoute** (struct **Graph** g, int peakA, int peakB)
- int ∗∗ **getQuestionsAnswers** (struct **Graph** g)
- int **stillNotSeen** (int ∗notSeen, int size)
- int ∗∗ **getAllImportantPersons** (int ∗∗components, struct **Graph** g)
- int ∗ **getImportantPerson** (int ∗compo, struct **Graph** g)
- int **componentEqual** (int ∗compo1, int ∗compo2)

4.4.1 Function Documentation

4.4.1.1 void addRelation (int *i*, int *j*, int ∗∗ *matrix*)

Definition at line 106 of file Graphe.c.

4.4.1.2 int componentEqual (int ∗ *compo1*, int ∗ *compo2*)

Definition at line 553 of file Graphe.c.

4.4.1.3 int∗∗ createMatrix (struct relationship ∗ *relation*, int *nbPersonnes*, struct Personne ∗ *tab*, int *nbRelation*)

Definition at line 60 of file Graphe.c.

4.4.1.4 int∗ depthTraversal (int ∗∗ *matrix*, int *peak*, int *size*, int *order*, int *ignored*)

Definition at line 233 of file Graphe.c.

4.4.1.5 void depthTraversalRec (int ** *matrix*, int *peak*, int *size*, int * *tag*, int *order*, int *ignored*)

Definition at line 192 of file Graphe.c.

4.4.1.6 int** getAllImportantPersons (int ** *components*, struct Graph *g*)

Definition at line 429 of file Graphe.c.

4.4.1.7 int* getImportantPerson (int * *compo*, struct Graph *g*)

Definition at line 465 of file Graphe.c.

4.4.1.8 int getMinimum (int * *tab*, int *size*)

Definition at line 257 of file Graphe.c.

4.4.1.9 int** getQuestionsAnswers (struct Graph *g*)

Definition at line 288 of file Graphe.c.

4.4.1.10 int* getShortestRoute (struct Graph *g*, int *peakA*, int *peakB*)

Definition at line 313 of file Graphe.c.

4.4.1.11 int** getStronglyConnectedComponents (int ** *matrix*, int *size*)

Definition at line 120 of file Graphe.c.

4.4.1.12 int** initMatrix (int *sizeMatrix*)

Definition at line 28 of file Graphe.c.

4.4.1.13 void printMatrix (int ** *matrix*, int *size*)

Definition at line 83 of file Graphe.c.

4.4.1.14 int stillNotSeen (int * *notSeen*, int *size*)

Definition at line 405 of file Graphe.c.

4.5 src/headers/ParseFile.h File Reference

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Functions

- struct **Graph genFromFile** (FILE ∗fichier)
- struct **Personne** ∗ **parseAllPersons** (FILE ∗fichier, int nbPersonnes)
- struct **Personne parsePerson** (char ∗ligne)
- struct **relationship parseRelation** (char ∗ligne)
- struct **relationship** ∗ **parseAllRelations** (FILE ∗fichier, int nbRelation)
- struct **relationship parseQuestion** (char ∗ligne)
- struct **relationship** ∗ **parseAllQuestions** (FILE ∗fichier, int nbQuestions)

4.5.1 Function Documentation

4.5.1.1 struct Graph genFromFile (FILE ∗ *fichier*)

Definition at line 30 of file ParseFile.c.

4.5.1.2 struct Personne∗ parseAllPersons (FILE ∗ *fichier*, int *nbPersonnes*)

Definition at line 67 of file ParseFile.c.

4.5.1.3 struct relationship∗ parseAllQuestions (FILE ∗ *fichier*, int *nbQuestions*)

Definition at line 160 of file ParseFile.c.

4.5.1.4 struct relationship∗ parseAllRelations (FILE ∗ *fichier*, int *nbRelation*)

Definition at line 136 of file ParseFile.c.

4.5.1.5 struct Personne parsePerson (char ∗ *ligne*)

Definition at line 95 of file ParseFile.c.

4.5.1.6 struct relationship parseQuestion (char ∗ *ligne*)

Definition at line 183 of file ParseFile.c.

4.5.1.7 struct relationship parseRelation (char ∗ *ligne*)

Definition at line 118 of file ParseFile.c.

4.6 src/headers/TPersonne.h File Reference

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Data Structures

- struct **Personne**
- struct **relationship**

Functions

- struct **Personne createPersonne** (char ∗idP, char ∗nomP, int freqP)
- int **position** (char ∗id, struct **Personne** ∗tab)

4.6.1 Function Documentation

4.6.1.1 struct Personne createPersonne (char ∗ *idP*, char ∗ *nomP*, int *freqP*)

Definition at line 29 of file TPersonne.c.

4.6.1.2 int position (char ∗ *id*, struct Personne ∗ *tab*)

Definition at line 61 of file TPersonne.c.

4.7 src/source/ExportGraph.c File Reference

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Functions

- int **nbSCC** (struct **Graph** g, int ∗∗SCC)
- void **exportSCC** (struct **Graph** g, int ∗∗SCC, FILE ∗fichier, int importantPersons)
- void **exportQuestionsAnswers** (struct **Graph** g, int ∗∗answers, FILE ∗fichier)
- void **exportGraph** (struct **Graph** g, char ∗fileName, int important)

4.7.1 Function Documentation

4.7.1.1 void exportGraph (struct Graph *g*, char ∗ *fileName*, int *important*)

Definition at line 167 of file ExportGraph.c.

4.7.1.2 void exportQuestionsAnswers (struct Graph *g*, int ∗∗ *answers*, FILE ∗ *fichier*)

Definition at line 119 of file ExportGraph.c.

4.7.1.3 void exportSCC (struct Graph *g*, int ∗∗ *SCC*, FILE ∗ *fichier*, int *importantPersons*)

Definition at line 50 of file ExportGraph.c.

4.7.1.4 int nbSCC (struct Graph *g*, int ∗∗ *SCC*)

Definition at line 28 of file ExportGraph.c.

4.8 src/source/FacebookLib.c File Reference

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Functions

- int **getRandomFrequency** ()
- struct **relationship getRandomRelationship** (struct **facebookFriends** friends)
- int **isAlreadyFriend** (struct **facebookFriends** friends, char fbID[20])
- struct **Personne getFacebookPerson** (char id[20])
- void **writeFacebookRelationships** (struct **facebookFriends** fbFriends, char ∗token, FILE ∗fichier, int start)
- struct **facebookFriends getFacebookFriends** (char id[20], char ∗token)
- struct **facebookFriends extractFriendsFromHTML** (struct **facebookFriends** fbFriends, char ∗friendFile)
- char ∗ **facebookConnect** (char ∗mail, char ∗pass)
- struct **facebookFriends getFriendsOfFriends** (struct **facebookFriends** fbFriends, int nbMax)
- struct **facebookRelationships getFacebookRelationships** (struct **facebookFriends** fbFriends, char ∗token)
- struct **facebookRelationships getFakeRelationships** (struct **facebookFriends** fbFriends, int nb)

4.8.1 Function Documentation

4.8.1.1 struct facebookFriends extractFriendsFromHTML (struct facebookFriends *fbFriends*, char ∗ *friendFile*)

Definition at line 273 of file FacebookLib.c.

4.8.1.2 char∗ facebookConnect (char ∗ *mail*, char ∗ *pass*)

Definition at line 351 of file FacebookLib.c.

4.8.1.3 struct facebookFriends getFacebookFriends (char *id*[20], char ∗ *token*)

Definition at line 197 of file FacebookLib.c.

4.8.1.4 struct Personne getFacebookPerson (char *id*[20])

Definition at line 76 of file FacebookLib.c.

4.8.1.5 struct facebookRelationships getFacebookRelationships (struct facebookFriends *fbFriends*, char * *token*)

Definition at line 477 of file FacebookLib.c.

4.8.1.6 struct facebookRelationships getFakeRelationships (struct facebookFriends *fbFriends*, int *nb*)

Definition at line 545 of file FacebookLib.c.

4.8.1.7 struct facebookFriends getFriendsOfFriends (struct facebookFriends *fbFriends*, int *nbMax*)

Definition at line 411 of file FacebookLib.c.

4.8.1.8 int getRandomFrequency ()

Definition at line 26 of file FacebookLib.c.

4.8.1.9 struct relationship getRandomRelationship (struct facebookFriends *friends*)

Definition at line 37 of file FacebookLib.c.

4.8.1.10 int isAlreadyFriend (struct facebookFriends *friends*, char *fbID*[20])

Definition at line 55 of file FacebookLib.c.

4.8.1.11 void writeFacebookRelationships (struct facebookFriends *fbFriends*, char * *token*, FILE * *fichier*, int *start*)

Definition at line 122 of file FacebookLib.c.

4.9 src/source/Flapstaff.c File Reference

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Functions

- void **writeFacebookFile** (char ∗token, char ∗facebookID, char ∗fileName, int nbFriends, int nbQuest, int fake)
- void **facebookGen** (char ∗mail, char ∗pass, char ∗id, char ∗fileName, int nbFriends, int nbQuest, int fake)
- int **main** (int argc, char ∗argv[ ])

4.9.1 Function Documentation

4.9.1.1 void facebookGen (char ∗ *mail*, char ∗ *pass*, char ∗ *id*, char ∗ *fileName*, int *nbFriends*, int *nbQuest*, int *fake*)

Definition at line 144 of file Flapstaff.c.

4.9.1.2 int main (int *argc*, char ∗ *argv*[ ])

Definition at line 161 of file Flapstaff.c.

4.9.1.3 void writeFacebookFile (char ∗ *token*, char ∗ *facebookID*, char ∗ *fileName*, int *nbFriends*, int *nbQuest*, int *fake*)

Definition at line 38 of file Flapstaff.c.

4.10 src/source/Graphe.c File Reference

Functions

- int ∗∗ **initMatrix** (int sizeMatrix)
- int ∗∗ **createMatrix** (struct **relationship** ∗relation, int nbPersonnes, struct **Personne** ∗tab, int nbRelation)
- void **printMatrix** (int ∗∗matrix, int size)
- void **addRelation** (int i, int j, int ∗∗matrix)
- int ∗∗ **getStronglyConnectedComponents** (int ∗∗matrix, int size)
- void **depthTraversalRec** (int ∗∗matrix, int peak, int size, int ∗tag, int order, int ignored)
- int ∗ **depthTraversal** (int ∗∗matrix, int peak, int size, int order, int ignored)
- int **getMinimum** (int ∗tab, int size)
- int ∗∗ **getQuestionsAnswers** (struct **Graph** g)
- int ∗ **getShortestRoute** (struct **Graph** g, int peakA, int peakB)
- int **stillNotSeen** (int ∗notSeen, int size)
- int ∗∗ **getAllImportantPersons** (int ∗∗components, struct **Graph** g)
- int ∗ **getImportantPerson** (int ∗compo, struct **Graph** g)
- int **componentEqual** (int ∗compo1, int ∗compo2)

4.10.1 Function Documentation

4.10.1.1 void addRelation (int *i*, int *j*, int ∗∗ *matrix*)

Definition at line 106 of file Graphe.c.

4.10.1.2 int componentEqual (int ∗ *compo1*, int ∗ *compo2*)

Definition at line 553 of file Graphe.c.

4.10.1.3 int∗∗ createMatrix (struct relationship ∗ *relation*, int *nbPersonnes*, struct Personne ∗ *tab*, int *nbRelation*)

Definition at line 60 of file Graphe.c.

4.10.1.4 int∗ depthTraversal (int ∗∗ *matrix*, int *peak*, int *size*, int *order*, int *ignored*)

Definition at line 233 of file Graphe.c.

4.10.1.5 void depthTraversalRec (int ∗∗ *matrix*, int *peak*, int *size*, int ∗ *tag*, int *order*, int *ignored*)

Definition at line 192 of file Graphe.c.

4.10.1.6 int** getAllImportantPersons (int ** *components*, struct Graph *g*)

Definition at line 429 of file Graphe.c.

4.10.1.7 int* getImportantPerson (int * *compo*, struct Graph *g*)

Definition at line 465 of file Graphe.c.

4.10.1.8 int getMinimum (int * *tab*, int *size*)

Definition at line 257 of file Graphe.c.

4.10.1.9 int** getQuestionsAnswers (struct Graph *g*)

Definition at line 288 of file Graphe.c.

4.10.1.10 int* getShortestRoute (struct Graph *g*, int *peakA*, int *peakB*)

Definition at line 313 of file Graphe.c.

4.10.1.11 int** getStronglyConnectedComponents (int ** *matrix*, int *size*)

Definition at line 120 of file Graphe.c.

4.10.1.12 int** initMatrix (int *sizeMatrix*)

Definition at line 28 of file Graphe.c.

4.10.1.13 void printMatrix (int ** *matrix*, int *size*)

Definition at line 83 of file Graphe.c.

4.10.1.14 int stillNotSeen (int * *notSeen*, int *size*)

Definition at line 405 of file Graphe.c.

4.11 src/source/ParseFile.c File Reference

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Functions

- struct **Graph genFromFile** (FILE ∗fichier)
- struct **Personne** ∗ **parseAllPersons** (FILE ∗fichier, int nbPersonnes)
- struct **Personne parsePerson** (char ∗ligne)
- struct **relationship parseRelation** (char ∗ligne)
- struct **relationship** ∗ **parseAllRelations** (FILE ∗fichier, int nbRelation)
- struct **relationship** ∗ **parseAllQuestions** (FILE ∗fichier, int nbQuestions)
- struct **relationship parseQuestion** (char ∗ligne)

4.11.1 Function Documentation

4.11.1.1 struct Graph genFromFile (FILE ∗ *fichier*)

Definition at line 30 of file ParseFile.c.

4.11.1.2 struct Personne∗ parseAllPersons (FILE ∗ *fichier*, int *nbPersonnes*)

Definition at line 67 of file ParseFile.c.

4.11.1.3 struct relationship∗ parseAllQuestions (FILE ∗ *fichier*, int *nbQuestions*)

Definition at line 160 of file ParseFile.c.

4.11.1.4 struct relationship∗ parseAllRelations (FILE ∗ *fichier*, int *nbRelation*)

Definition at line 136 of file ParseFile.c.

4.11.1.5 struct Personne parsePerson (char ∗ *ligne*)

Definition at line 95 of file ParseFile.c.

4.11.1.6 struct relationship parseQuestion (char ∗ *ligne*)

Definition at line 183 of file ParseFile.c.

4.11.1.7 struct relationship parseRelation (char ∗ *ligne*)

Definition at line 118 of file ParseFile.c.

4.12 src/source/TPersonne.c File Reference

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Functions

- struct **Personne createPersonne** (char ∗idP, char ∗nomP, int freqP)
- int **position** (char ∗id, struct **Personne** ∗tab)

4.12.1 Function Documentation

4.12.1.1 struct Personne createPersonne (char ∗ *idP*, char ∗ *nomP*, int *freqP*)

Definition at line 29 of file TPersonne.c.

4.12.1.2 int position (char ∗ *id*, struct Personne ∗ *tab*)

Definition at line 61 of file TPersonne.c.