## Compte Rendu : Groupe :

# <u>Tests de couverture, analyse statique de code et profilage</u>

#### 2 gcov et cmake:

les parties du code des fonctions qui ne fonctionnent pas

```
le fichier game.c
void add_mirror_ext(game game, content mirror_type, int col, int line){
  #####: 304: if (game==NULL){
  #####: 305:
                 fprintf(stderr, "Invalid game pointer sent to add_mirror_ext!\n");
  #####: 306:
                 exit(EXIT_FAILURE);
    -: 307: }
  #####: 308: if (col>=game_width(game) ||col<0){
  #####: 309:
                 fprintf(stderr, "Invalid integer col sent to add mirror ext!\n");
  #####: 310:
                 exit(EXIT_FAILURE);
    -: 311: }
  #####: 312:
               if (line>=game height(game) || line<0){
  #####: 313:
                 fprintf(stderr, "Invalid integer line sent to add_mirror_ext!\n");
  #####: 314:
                 exit(EXIT_FAILURE);
    -: 315: }
  #####: 316: game->board[game_width(game)*line+col] = mirror_type;
  #####: 317: }
dans set_requered_nb_monster on a ça aussi :
 game → required_nb_spirits=value;
```

la fonction copy\_game en entier du fait aussi qu'on ne l'a jamais utilisé :

```
game copy_game (cgame g_src){
  #####: 388: if (g_src==NULL) {
  #####: 389:
                exit(EXIT FAILURE);
    -: 390: }
  #####: 391: game g= new_game_ext(g_src->width,g_src->height);
  #####: 392:
               g->required_nb_zombies= g_src->required_nb_zombies;
  #####: 393: g->required_nb_ghosts= g_src->required_nb_ghosts;
  #####: 394:
              g->required nb vampires=g src->required nb vampires;
  #####: 395:
               g->required_nb_spirits=g_src->required_nb_spirits;
  #####: 396:
              g->height=game_height(g_src);
  #####: 397: g->width=game width(g src);
              for (int i=0; i<g->width*g->height; i++){
  #####: 398:
  #####: 399:
                g->board[i] = g_src->board[i];
    -: 400: }
  #####: 401: for (int i=0; i< NB DIR; i++){
  #####: 402:
                if (i<2){
```

```
#####: 403:
                  for (int j=0;j<game_height(g); j++)</pre>
  #####: 404:
                  g->required_nb_seen[i][j]=g_src->required_nb_seen[i][j];
    -: 405:
             }
    -: 406:
              else{
  #####: 407:
                  for (int j=0; j<game height(g); j++)
                  g->required_nb_seen[i][j]=g_src->required_nb_seen[i][j];
  #####: 408:
    -: 409:
    -: 410: }
  #####: 411: return g;
    -: 412: }
la fonction restart game :
void restart_game(game g){
  #####: 592: if(g==NULL){
  #####: 593: fprintf(stderr, "Invalid argument");
  #####: 594: exit(EXIT_FAILURE);
    -: 595: }
  #####: 596: for (int i=0; i<game_width(g)*game_height(g); i++){
  #####: 597: if (g->board[i]==GHOST || g->board[i]==VAMPIRE || g-
>board[i]==ZOMBIE || g->board[i]==SPIRIT){
  #####: 598:
                g->board[i]=EMPTY;
    -: 599: }
    -: 600: }
  #####: 601:}
```

#### le fichier game\_io.c

```
<results version="2"><cppcheck version="1.76.1"/><errors><error
id="invalidPrintfArgType_sint" severity="warning" msg="%d in format string (no. 1)
requires 'int' but the argument type is 'unsigned int'." verbose="%d in format string (no. 1)
requires 'int' but the argument type is 'unsigned int'." cwe="686"><location file="game.c"
line="161"/></error><error id="invalidPrintfArgType sint" severity="warning" msg="%d
in format string (no. 1) requires 'int' but the argument type is 'unsigned int'." verbose="%d
in format string (no. 1) requires 'int' but the argument type is 'unsigned int'."
cwe="686"><location file="game.c" line="171"/></error><error
id="invalidPrintfArgType_sint" severity="warning" msg="%d in format string (no. 1)
requires 'int' but the argument type is 'unsigned int'." verbose="%d in format string (no. 1)
requires 'int' but the argument type is 'unsigned int'." cwe="686"><location file="game.c"
line="245"/></error><error id="invalidPrintfArgType_sint" severity="warning" msg="%d
in format string (no. 1) requires 'int' but the argument type is 'unsigned int'." verbose="%d
in format string (no. 1) requires 'int' but the argument type is 'unsigned int'."
cwe="686"><location file="game.c" line="255"/></error><error id="variableScope"
severity="style" msg="The scope of the variable 'len' can be reduced," verbose="The scope
```

### 4 Optimisation et profilage

