06/27/18 07:34:56 /home/ivan/Desktop/Repositorio-Final/mp3_processor.c

```c
 1  #include <stdio.h>
 2  #include <stdlib.h>
 3
 4  #include "mp3_processor.h"
 5
 6  /*Esta función se ocupa de insertar un track en un vector*/
 7  status_t process_mp3_data(setup_t * setup, FILE * fi, ADT_Vector_t * vector)
 8  {
 9      status_t st;
10      char header[MAX_HEADER_SIZE];
11      ADT_track_t * track;
12
13      if(setup == NULL || fi == NULL || vector == NULL)
14          return ERROR_NULL_POINTER;
15
16      if((st = ADT_track_new(&track)) != OK)
17          return ERROR_INVALID_TRACK;
18
19      if((st = get_mp3_header(fi, header)) != OK) {
20          if((st = ADT_track_delete(&track)) != OK)
21              return st;
22
23          return st;
24      }
25
26      if((st = ADT_track_set(header, track)) != OK)
27          return st;
28
29      if((st = ADT_Vector_append_element(&vector, track)) != OK)
30          return st;
31
32      return OK;
33  }
34
35  /*Lee el "header" del archivo mp3*/
36  status_t get_mp3_header(FILE * fi, char header[])
37  {
38      size_t length;
39
40      if(fi == NULL)
41          return ERROR_NULL_POINTER;
42
43
44      if ((fseek(fi, 0, SEEK_END)) != OK)
45          return ERROR_INVALID_MP3_FILE;
46
47      length=ftell(fi);
48
49      if((fseek(fi,length - MP3_HEADER_SIZE, SEEK_SET)) != OK)
50          return ERROR_INVALID_MP3_FILE;
51
52      if (fread(header, sizeof(char), MP3_HEADER_SIZE, fi) != MP3_HEADER_SIZE)
53          return ERROR_INVALID_MP3_FILE;
54
55      return OK;
56  }
```