06/28/18 02:39:02 /home/ivan/Desktop/Repositorio-Final/vector.h

```
1 #ifndef VECTOR H
       #define VECTOR H
       #include <stdio.h>
       #include <stdlib.h>
       #include "contexts.h"
       #include "types.h"
      #include "errors.h"
10 #include "setup.h"
       #define INIT CHOP 4
12
      #define ADT_VECTOR_CHOP_SIZE 4
13
14
15
      typedef status t (*destructor t) (void *);
      typedef int (*comparator_t) (void *, void *);
typedef status_t (*printer_t) (void *, const void *, FILE *);
16
17
19
       typedef struct
20
              void ** elements;
21
              size_t size;
size_t alloc_size;
22
23
24
              destructor_t destructor;
25
              comparator_t comparator;
              printer_t printer;
26
      }ADT_Vector_t;
27
28
29
      /*Prototipos de funciones*/
      /*Prototipos de funciones*/
status_t ADT_Vector_new(ADT_Vector_t ** p);
status_t ADT_Vector_delete (ADT_Vector_t ** p);
void * ADT_Vector_get_element (ADT_Vector_t * v, int position);
status_t ADT_Vector_set_element(ADT_Vector_t ** v, size_t position, void * new_element);
bool_t ADT_Vector_is_empty (ADT_Vector_t * p);
status_t ADT_Vector_set_printer(ADT_Vector_t * v, printer_t pf);
status_t ADT_Vector_set_comparator(ADT_Vector_t * v, comparator_t cf);
status_t ADT_Vector_set_destructor(ADT_Vector_t * v, destructor_t df);
status_t ADT_Vector_set_destructor(ADT_Vector_t * v, const_void * context_FILE * file_set_up_t
30
31
       status_t ADT_Vector_export (ADT_Vector_t * v, const void * context, FILE * file, setup_t *
       setup);
39  status_t ADT_Vector_append_element(ADT_Vector_t ** v, void * element);
40  status_t ADT_Vector_swap_elements (void ** element1, void ** element2);
       status_t ADT_Vector_sort_elements (ADT_Vector_t ** vector, status_t (*elements_swapper)(void **, void **));
42
43
       #endif
```

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