


Chapter III

Exercise 00 : btree_create_node


	Exercise : 00
btree_create_node	
Turn-in directory : <i>ex00/</i>	
Files to turn in : btree_create_node.c , ft_btree.h	
Allowed functions : malloc	
Remarks : n/a	

- Create the function **btree_create_node** which allocates a new element. It should initialise its **item** to the argument's value, and all other elements to 0.
- The created node's address is returned.
- Here's how it should be prototyped :

```
t_btree *btree_create_node(void *item);
```

Chapter IV

Exercise 01 : btree_apply_prefix


	Exercise : 01
btree_apply_prefix	
Turn-in directory : <i>ex01/</i>	
Files to turn in : <code>btree_apply_prefix.c</code> , <code>ft_btree.h</code>	
Allowed functions : Nothing	
Remarks : n/a	

- Create a function `btree_apply_prefix` which applies the function given as argument to the `item` of each node, using `prefix` traversal to search the tree.
- Here's how it should be prototyped :

```
void btree_apply_prefix(t_btree *root, void (*applyf)(void *));
```

Chapter VIII

Exercise 05 : btree_search_item


	Exercice : 05
btree_search_item	
Turn-in directory : <i>ex05/</i>	
Files to turn in : btree_search_item.c , ft_btree.h	
Allowed functions : Nothing	
Remarks : n/a	

- Create a function **btree_search_item** which returns the first element related to the reference data given as argument. The tree should be browsed using **infix traversal** . If the element isn't found, the function should return **NULL**.
- Here's how it should be prototyped :

```
void *btree_search_item(t_btree *root, void *data_ref, int (*cmpf)(void *, void *));
```

Chapter IX

Exercise 06 : btree_level_count

	Exercice : 06
btree_level_count	
Turn-in directory : <i>ex06/</i>	
Files to turn in : btree_level_count.c , ft_btree.h	
Allowed functions : Nothing	
Remarks : n/a	

- Create a function **btree_level_count** which returns the size of the largest branch passed as argument.
- Here's how it should be prototyped :

```
int btree_level_count(t_btree *root);
```