```
node->data = key;
  btree->elements = inicial_elements + 1;
}
void
tree_binary_insert_arr(BinTree *btree, key_t* arr, key_t size) {
  for (key t k = 0; k < size; k++) {
    tree_binary_insert(btree, arr[k]);
  }
}
void
tree binary print inorder(BinTree *btree) {
  /* Helper function to print the entire binary tree */
  void inorder(BinTree *btree, idx_t idx) {
    if (idx == 0) return;
    BinTreeNode* node = btree->root + idx;
    (void) inorder(btree, node->idx_left);
    (void) printf("%d ", node->data);
    (void) inorder(btree, node->idx right);
  }
  BinTreeNode* root = btree->root;
  (void) printf("In-order traversal of the binary tree:\n");
  (void) printf("%d ", root->data);
  (void) inorder(btree, root->idx left);
  (void) inorder(btree, root->idx_right);
  (void) puts("\n");
}
void
tree_binary_print(BinTree *btree) {
  uint32_t levels = 0;
  uint32_t n_elem = btree->elements;
  /* Contar niveis */
  while (n elem > 1) {
    n_elem = n_elem >> 1;
    levels++;
  }
  BinTreeNode *root = btree->root;
  printf("%2d\n", root->data);
  /* Imprimir cada nivel */
  uint32_t idx = 1;
  uint32_t n_nodes = 1;
  for (uint32 t = 0; l < levels; l++) {
    /* Cada nivel tem o dobro dos elementos no maximo */
    n_nodes = n_nodes << 1;</pre>
    for (uint32 ti = 0; i < n nodes; i++) {
       if (idx == btree->elements-1) break;
       printf("%2d ", (root+idx)->data );
       idx++;
    }
    puts("");
  }
}
```