```
found |= ((ptr_back - 3)->data == key);
    ptr_front += 4;
    ptr_back -= 4;
    if (found) return 0;
  }
  /* elementos restante */
  while (ptr_front <= ptr_back) {
    found |= (ptr_front->data == key) | (ptr_back->data == key);
    ptr_front++;
    ptr back--;
  }
  return found ? 0 : IDX_INVALID;
}
binary_test_and_log(key_t* arr, FILE *fptr) {
  BinTree btree:
  clock_t start = 0, end = 0;
  clock t total = 0;
  for (int i = 0; i < g_average; i++) {
    start = clock();
    btree = tree_binary_create(g_treesize);
    tree_binary_insert_arr(&btree, arr, g_treesize);
    end = clock();
    total += (end-start);
    tree_binary_destroy(btree);
  }
  double total_time = ((double) total*1000) / CLOCKS_PER_SEC;
  fprintf(fptr, "Binary Tree = %0.4lfms\t(0 rotations)\n", total_time/g_average);
}
AVLTree
tree_avl_create(idx_t inicial_capacity) {
  assert(inicial_capacity > 0);
  AVLTree avl = {NULL, 0, 0, inicial_capacity};
  avl.nodes = (AVLNode*) malloc( sizeof(AVLNode) * inicial_capacity);
  if (avl.nodes == NULL) {
    perror("Couldn't allocate AVL tree.");
    exit(EXIT_FAILURE);
  for (idx_t i = 0; i < inicial_capacity; i++) {
    avl.nodes[i] = (AVLNode) {IDX_INVALID, IDX_INVALID, 0, 1};
  }
  return avl;
}
void
tree_avl_destroy(AVLTree* avl) {
  assert(avl);
```