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main.cpp

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1  #include <iostream>
2  #include <fstream>
3  #include <cstring>
4  #include "utils/ProcessManager.h"
5
6  #define ARCHIVO_CONFIG_PATH "../config.cb"
7
8  void leer_config_file(int *cant_panaderos, int *cant_pizzeros,
9                      int *cant_recepcionistas);
10
11 bool print_debug_msgs(int argc, char **argv);
12
13 int main(int argc, char *argv[]) {
14     int cant_panaderos, cant_pizzeros, cant_recepcionistas;
15     leer_config_file(&cant_panaderos, &cant_pizzeros, &cant_recepcionistas);
16
17     std::cout << "Bienvenido a ConcuBread!" << std::endl;
18     std::cout << "Simulando..." << std::endl;
19
20     const std::unique_ptr<Proceso> &proceso_generado =
21         ProcessManager::crear_procesos(
22             cant_panaderos, cant_pizzeros,
23             cant_recepcionistas,
24             print_debug_msgs(argc, argv));
25     proceso_generado->ejercer_tarea();
26     return 0;
27 }
28
29 bool print_debug_msgs(int argc, char **argv) {
30     if (argc > 1) {
31         if (std::strcmp(argv[1], "--print-debug") == 0) {
32             if (std::strcmp(argv[2], "false") == 0) {
33                 std::cout << "Setting debug printing off..." << std::endl;
34                 return false;
35             }
36             if (std::strcmp(argv[2], "true") == 0) {
37                 std::cout << "Setting debug printing on..." << std::endl;
38                 return true;
39             }
40         }
41         std::cout << "Unidentified arg name. Debug printing set on as default."
42             << std::endl;
43         return true;
44     }
45     /* si no se especifica nada... */
46     return true;
47 }
48
49 void leer_config_file(int *cant_panaderos, int *cant_pizzeros,
50                     int *cant_recepcionistas) {
51     std::ifstream config_file(ARCHIVO_CONFIG_PATH);
52     if (config_file.is_open()) {
53         std::string line;
54         try {
55             std::getline(config_file, line);
56             *cant_panaderos = std::stoi(line);
57
58             std::getline(config_file, line);
59             *cant_pizzeros = std::stoi(line);
60
61             std::getline(config_file, line);
62             *cant_recepcionistas = std::stoi(line);
63         } catch (std::exception const &ex) {
64             std::cout
65                 << "Error reading config file."
66                 << " Please check config file format and try again."
67                 << std::endl;
68             config_file.close();
69             exit(0);
70         }
71         config_file.close();
72     } else {
73         std::cout

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74         << "No config file found!"
75         << " Please, verify the config file is present and try again."
76         << std::endl;
77         exit(0);
78     }
79 }

```