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/*#####*/
/*HWl0_part1.c*/
/*
/*Written by Mustafa Akilli on May 18, 2015*/
/*
/*Description*/
/*
/* Produce A Record File*/
/*Inputs:*/
/* -Files names*/
/* -Working Hours*/
/*Outputs:*/
/* -file.xml*/
/*#####*/
/*
/*-----*/

#include <stdio.h>
#include <string.h>
#include <stdlib.h>

#define ARRAY_SIZE 100
#define CHANGE_FILE 1
#define DEFAULT_FILE 0
#define DEBUG 0
#define START_WORK 9
#define END_WORK 17

extern const char *Records_bin;
extern const char *Patients_xml;
extern const char *Delete_txt;
extern const char *Records_xml;
extern const char *Appointments_csv;
extern const char *Parameters_txt;

/*-----*/
/*
/* Structure*/

typedef struct{

    int app_id;
    int patient_id;
    int hour;

}Appointment_t;

typedef struct{

    int start;
    int end;

}Working_hours_t;

typedef struct{

    const char* records_file_n;
    const char* patients_file_n;
    const char* delete_file_n;
    const char* readable_records_file_n;
    const char* accepted_appo_file_n;
    const char* parameters_file_n;

}Files_t;

/*-----*/
/*
/* Functions*/

/* Reads all appointments in the records file into a dynamically
   allocated fully-filled array and returns the array. */
extern Appointment_t* getRequests(const Files_t* files, int* size);

/* Writes all appointments in the input array
   to readable records file in the described format */

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```
extern void
write_appointments(Appointment_t appointments[], int size, const Files_t* files);

/* Takes the arguments of main() as input parameter and
   returns used input file names and working hours as output parameters*/
extern void
get_main_arguments(int argc, char *argv[], Working_hours_t* hours, Files_t* files);

/* Writes file names and working hours
   to Parameters file in the described format.*/
extern void
print_parameters(const Files_t* files, const Working_hours_t* hours);
```