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#include "aarushi_funcs.h"
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#define STRING_BUFFER_MAX 300 //tcp string buffer, fixed size for send
and receive
struct Date getTodaysDate() {
    struct Date date;
    time_t t = time(NULL);
    struct tm tm = *localtime(&t);
    sprintf(date.today,"%d-%02d-%02d", tm.tm_year + 1900, tm.tm_mon +
1, tm.tm_mday);
    return date;
}
void writeToSummaryFile(customerInfo nextCustomer,int server_name,int
socket) { // writes to appropriate day's summary file, ticket number
will be used to search summary later on
    printf("\nwriteToSummaryFile() called...\n"); //for debugging
    dates date;

    char stringBuffer[STRING_BUFFER_MAX]; // used to send output to
server

    // used to convert bookedseats into a string to write into file
    char seat[3];
    char bookedseats[50];
    memset(bookedseats,0,strlen(bookedseats));
    char nextSeat[8];

    for (int i = 0; i<27;i++){
        if (nextCustomer.bookedSeats[i] == 1) {
            sprintf(nextSeat,sizeof(int),"%d ",i);
            strcat(bookedseats,nextSeat);
        }
    }
    for(int i = 0; i < (strlen(bookedseats)); i++){
        if(bookedseats[i] == ' ') {
            bookedseats[i] = ',';
        }
    }

    // if day = today
    if (nextCustomer.dayOfTravel == 1) {
        // gets todays date for summary file
        char name[20];
        // struct Date date.today = getTodaysDate();
        strcpy(name,getTodaysDate().today);
        // creates summary file and writes customer info and ticket
number
        FILE * summary = fopen(name,"a");
        fprintf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\n");
    }
}

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Modifications: \n",nextCustomer.ticketNumber, server_name,
nextCustomer.fullName, nextCustomer.dateOfBirth, nextCustomer.gender,
nextCustomer.governmentID,
    nextCustomer.numberOfTravelers, bookedseats);
    fclose(summary);
}

// if day = tomorrow
if (nextCustomer.dayOfTravel == 2) {
    // gets tomorrows date for summary file
    char name[20];
    strcpy(name,getTomorrowsDate().tomorrow);
    // creates summary file and writes customer info and ticket
number
    FILE * summary = fopen(name,"a");
    fprintf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n",nextCustomer.ticketNumber, server_name,
nextCustomer.fullName, nextCustomer.dateOfBirth, nextCustomer.gender,
nextCustomer.governmentID,
    nextCustomer.numberOfTravelers, bookedseats);
    fclose(summary);
}

// sends message to server
strcpy(stringBuffer,"\nThe receipt was added to the summary
file!\n");
send(socket,stringBuffer,sizeof(stringBuffer),0);
stringBuffer[0] = 0;
}

int displayTicketInfo(int ticketNumber,int socket) {

    dates date;
    printf("\ndisplayTicketInfo() called.\n"); //for debugging

    // TODAY
    // gets todays date for summary file
    char name[20];
    strcpy(name,getTodaysDate().today);
    // used to send output to server
    char stringBuffer[STRING_BUFFER_MAX];
    // open summary file
    FILE * summary = fopen(name,"r");
    // struct to read file
    struct customerInfo read;
    struct customerInfo *readPTR =
    readPTR = &read;
    char filler[20];
    int server_name=0;
    char bookedseats[50];

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memset(bookedseats,0,strlen(bookedseats));

// scan through summary file to find ticketNumber
while(!feof(summary)) {
    fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications: \n",
&readPTR->ticketNumber, &server_name, readPTR->fullName, filler,
readPTR->dateOfBirth, readPTR->gender, readPTR->governmentID,&readPTR-
>numberOfTravelers, bookedseats);
    printf("Looking for ticket...");
    if (ticketNumber == read.ticketNumber) {
        snprintf(stringBuffer, 500, "\n\nTicket Number: %d\nServer
ID: %d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment
ID: %s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications:
\n",read.ticketNumber, server_name, read.fullName, read.dateOfBirth,
read.gender, read.governmentID, read.numberOfTravelers, bookedseats);
        send(socket,stringBuffer,sizeof(stringBuffer),0);
        return 1;
    }
}

fclose(summary);

printf("made it!");
// TOMORROW
// gets tomorrows date for summary file
memset(name,0,strlen(name));
strcpy(name,getTomorrowsDate().tomorrow);
memset(bookedseats,0,strlen(bookedseats));
// open summary file
summary = fopen(name,"r");

// scan through summary file to find ticketNumber
while(!feof(summary)) {
    fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications: \n",
&readPTR->ticketNumber, &server_name, readPTR->fullName, filler,
readPTR->dateOfBirth, readPTR->gender, readPTR->governmentID,&readPTR-
>numberOfTravelers, bookedseats);
    printf("Looking for ticket...");
    if (ticketNumber == read.ticketNumber) {
        snprintf(stringBuffer, 500, "\n\nTicket Number: %d\nServer
ID: %d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment
ID: %s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications:
\n",read.ticketNumber, server_name, read.fullName, read.dateOfBirth,
read.gender, read.governmentID, read.numberOfTravelers, bookedseats);
        send(socket,stringBuffer,sizeof(stringBuffer),0);
        return 1;
    }
}
}

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        fclose(summary);
    }

customerInfo retrieveCustomersInfo(int ticketNumber) { //uses ticket
number to access sumary files and save and return customer struct
    dates date;
    printf("\nretrieveCustomersInfo called\n"); //for debugging

    // TODAY
    // gets todays date
    char name[20];
    strcpy(name, getTodaysDate().today);
    char stringBuffer[500];

    // open summary file
    FILE * summary = fopen(name, "r");
    // struct to read file
    struct customerInfo read;
    struct customerInfo *readPTR =
    readPTR = &read;
    int server_name = 0;
    char filler[20];
    char bookedseats[50];
    memset(bookedseats, 0, strlen(bookedseats));

    // scan through summary file to find ticketNumber
    while(!feof(summary)) {
        fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n", &readPTR->ticketNumber, &server_name, readPTR-
>fullName, filler, readPTR->dateOfBirth, readPTR->gender, readPTR-
>governmentID, &readPTR->numberOfTravelers, bookedseats);
        if (read.ticketNumber == ticketNumber) {
            // variables for token
            char *token;
            char tempSeat[5];

            // get the first token
            token = strtok(bookedseats, ",");

            // walk through other tokens
            while( token != NULL ) {
                sprintf(tempSeat, "%s", token );
                read.bookedSeats[atoi(tempSeat)] = 1;
                token = strtok(NULL, ",");
                printf("\nretrieveCustomersInfo called\n"); //for
debugging
            }
            read.dayOfTravel =1;

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        return read;
    }
}

// TOMORROW
// gets tomorrows date for summary file
memset(name,0,strlen(name));
strcpy(name,getTomorrowsDate().tomorrow);
memset(bookedseats,0,strlen(bookedseats));
// open summary file
summary = fopen(name,"r");

// scan through summary file to find ticketNumber
while(!feof(summary)) {
    fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n
Modifications: \n", &readPTR->ticketNumber, &server_name, readPTR-
>fullName, filler, readPTR->dateOfBirth, readPTR->gender, readPTR-
>governmentID,&readPTR->numberOfTravelers, bookedseats);
    if (read.ticketNumber == ticketNumber) {
        // variables for token
        char *token;
        char tempSeat[5];

        // get the first token
        token = strtok(bookedseats, ",");

        // walk through other tokens
        while( token != NULL ) {
            sprintf(tempSeat, "%s", token );
            read.bookedSeats[atoi(tempSeat)] = 1;
            token = strtok(NULL, ",");
            printf("\nretrieveCustomersInfo called\n"); //for
debugging
        }
        read.dayOfTravel = 2;
        return read;
    }
}

}

void cancelReservation(customerInfo customerMods, int socket) {
    dates date;
    printf("\ncancelReservation() called!\n"); //for debugging

    char stringBuffer[STRING_BUFFER_MAX]; // used to send output to
server
    // variables needed to read struct
    int server_name = 0;
    char bookedseats[50];
    memset(bookedseats,0,strlen(bookedseats));

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char filler[20];

//printf("\n%s\n",customerMods.dateOfTravel);

printf("\n%d\n",customerMods.dayOfTravel);
// TODAY
if (customerMods.dayOfTravel == 1) {
    // struct to read file
    struct customerInfo read;
    struct customerInfo *readPTR =
    readPTR = &read;

    // gets todays date for summary file
    char name[20];
    strcpy(name,getTodaysDate().today);

    // creates summary file and writes customer info and ticket
number
    FILE * summary = fopen(name,"r");
    FILE * fdel = fopen("del.txt","w");

    // scan through summary file to find ticketNumber
    while(!feof(summary)) {
        fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications: \n",
&readPTR->ticketNumber, &server_name, readPTR->fullName, filler,
readPTR->dateOfBirth, readPTR->gender, readPTR->governmentID,&readPTR-
>numberOfTravelers, bookedseats);
        if (customerMods.ticketNumber != read.ticketNumber) {
            fprintf(fdel, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications:
\n",read.ticketNumber, server_name, read.fullName, read.dateOfBirth,
read.gender, read.governmentID,
            read.numberOfTravelers, bookedseats);
        }
    }
    // change fdel to summary file
    fclose(summary);
    fclose(fdel);
    remove(name);
    rename("del.txt",name);
}

// TOMORROW
if (customerMods.dayOfTravel == 2) {
    // struct to read file
    struct customerInfo readTomorrow;
    struct customerInfo *readTomorrowPTR =
    readTomorrowPTR = &readTomorrow;

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        // gets tomorrows date for summary file
        char name[20];
        strcpy(name, getTomorrowsDate().tomorrow);

        // creates summary file and writes customer info and ticket
number
        FILE * summary = fopen(name, "r");
        FILE * fdel = fopen("del.txt", "w");

        // scan through summary file to find ticketNumber
        while(!feof(summary)) {
            fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications: \n",
&readTomorrowPTR->ticketNumber, &server_name, readTomorrowPTR-
>fullName, filler, readTomorrowPTR->dateOfBirth, readTomorrowPTR-
>gender, readTomorrowPTR->governmentID, &readTomorrowPTR-
>numberOfTravelers, bookedseats);
            if (customerMods.ticketNumber !=
readTomorrow.ticketNumber) {
                fprintf(fdel, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\nModifications:
\n", readTomorrow.ticketNumber, server_name, readTomorrow.fullName,
readTomorrow.dateOfBirth, readTomorrow.gender,
readTomorrow.governmentID, readTomorrow.numberOfTravelers,
bookedseats);
            }
        }
        // change fdel to summary file
        fclose(summary);
        fclose(fdel);
        remove(name);
        rename("del.txt", name);
    }
    // sends message to server
    printf("\nThe receipt was removed from the summary file!\n");

    //message to client
    strcpy(stringBuffer, "\nYour reservation has been canceled\n");
    send(socket, stringBuffer, sizeof(stringBuffer), 0);
}

void modifyReservation(customerInfo customerMods, int server_name, int
socket) { // modifies reservation on summary file
    printf("\nmodifyReservation()\n"); //for debugging
    char stringBuffer[STRING_BUFFER_MAX]; // used to send output to
server

    // convert customerMods bookedseats into a string
    char seat[3];

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char bookedseatsUpdated[200];
memset(bookedseatsUpdated, 0, strlen(bookedseatsUpdated));
for (int i = 0; i < 10; i++) {
    sprintf(seat, "%d\t", customerMods.bookedSeats[i]);
    strcat(bookedseatsUpdated, seat);
}
for(int i = 0; i < (strlen(bookedseatsUpdated)); i++){
    if(bookedseatsUpdated[i] == '\t') {
        bookedseatsUpdated[i] = ',';
    }
}

// variables to read server_name and bookedseats
int server_name_read;
char bookedseats[50];
memset(bookedseats, 0, strlen(bookedseats));

// TODAY
if (customerMods.dayOfTravel == 1) {
    // struct to read summary file
    struct customerInfo read;
    struct customerInfo *readPTR =
    readPTR = &read;

    // gets todays date for summary file
    char name[20];
    strcpy(name, getTodaysDate().today);

    // creates summary file and fdel file to hold modified info
    FILE * summary = fopen(name, "r");
    FILE * fdel = fopen("del.txt", "w");

    // read through summary file
    while (fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n", &readPTR->ticketNumber,
&server_name_read, readPTR->fullName, readPTR->dateOfBirth, readPTR-
>gender, readPTR->governmentID, &readPTR->numberOfTravelers,
bookedseats) != EOF) {
        // copies all information (besides modified ticket) to
fdel
        if (customerMods.ticketNumber != read.ticketNumber) {
            fprintf(fdel, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n", read.ticketNumber, server_name_read, read.fullName,
read.dateOfBirth, read.gender, read.governmentID,
read.numberOfTravelers, bookedseats);
        }
        // copies modified ticket to fdel
    else {

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        fprintf(fdel, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: Made by server %d\n",customerMods.ticketNumber,
server_name_read, customerMods.fullName, customerMods.dateOfBirth,
customerMods.gender, customerMods.governmentID,
        customerMods.numberOfTravelers, bookedseatsUpdated,
server_name);
    }
    // if dayOfTravel changes, accesses tomorrows document
    // gets tomorrows date for summary1 file
    char name1[20];
    strcpy(name1,getTomorrowsDate().tomorrow);

    // creates struct to read summary1 file
    struct customerInfo readTomorrow;
    struct customerInfo *readTomorrowPTR =
    readTomorrowPTR = &readTomorrow;

    // creates summary1 file and fdell file to hold modified info
    FILE * summary1 = fopen(name1,"r");
    FILE * fdell = fopen("dell.txt","w");

    // read through summary1 file
    while (fscanf(summary1, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n", &readTomorrowPTR->ticketNumber,
&server_name_read, readTomorrowPTR->fullName, readTomorrowPTR->
dateOfBirth, readTomorrowPTR->gender, readTomorrowPTR->
governmentID,&readTomorrowPTR->numberOfTravelers, bookedseats) !=
EOF) {
        // copies modified ticket to fdel
        if (customerMods.ticketNumber ==
readTomorrow.ticketNumber) {
            fprintf(fdel, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: Made by server %d\n",customerMods.ticketNumber,
server_name_read, customerMods.fullName, customerMods.dateOfBirth,
customerMods.gender, customerMods.governmentID,
            customerMods.numberOfTravelers, bookedseatsUpdated,
server_name);
        }
        // removes modified ticket from summary1
        else {
            fprintf(fdell, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\

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Modifications: ",readTomorrow.ticketNumber, server_name_read,
readTomorrow.fullName, readTomorrow.dateOfBirth, readTomorrow.gender,
readTomorrow.governmentID,
        readTomorrow.numberOfTravelers, bookedseats);
    }
}

// changes fdel file to summary file
fclose(summary);
fclose(fdel);
remove(name);
rename("del.txt",name);

// changes fdell file to summary1 file
fclose(summary1);
fclose(fdell);
remove(name1);
rename("dell.txt",name1);
}

// variables to read server_name and bookedseats
server_name_read = 0;
memset(bookedseats,0,strlen(bookedseats));

// TOMORROW
if (customerMods.dayOfTravel == 2) {
    // struct to read summary1 file
    struct customerInfo readTomorrow;
    struct customerInfo *readTomorrowPTR =
    readTomorrowPTR = &readTomorrow;

    // gets tomorrows date for summary1 file
    char name1[20];
    strcpy(name1,getTomorrowsDate().tomorrow);

    // creates summary1 file and fdell file to hold modified info
    FILE * summary1 = fopen(name1,"r");
    FILE * fdell = fopen("dell.txt","w");

    // read through summary1 file
    while (fscanf(summary1, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\n
        Modifications: \n", &readTomorrowPTR->ticketNumber,
&server_name_read, readTomorrowPTR->fullName, readTomorrowPTR->
dateOfBirth, readTomorrowPTR->gender,
        readTomorrowPTR->governmentID,&readTomorrowPTR->
numberOfTravelers, bookedseats) != EOF) {
        // copies all information (besides modified ticket) to
fdell
        if (customerMods.ticketNumber !=
readTomorrow.ticketNumber) {

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        fprintf(fdell, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n", readTomorrow.ticketNumber, server_name_read,
readTomorrow.fullName, readTomorrow.dateOfBirth, readTomorrow.gender,
readTomorrow.governmentID,
        readTomorrow.numberOfTravelers, bookedseats);
    }
    // copies modified ticket to fdell
    else {
        fprintf(fdell, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: Made by server %d\n", customerMods.ticketNumber,
server_name_read, customerMods.fullName, customerMods.dateOfBirth,
customerMods.gender, customerMods.governmentID,
        customerMods.numberOfTravelers, bookedseatsUpdated,
server_name);
    }
}
// if dayOfTravel changes, accesses todays document
// gets todays date for summary file
char name[20];
strcpy(name, getTodaysDate().today);

// creates struct to read summary file
struct customerInfo read;
struct customerInfo *readPTR =
readPTR = &read;

// creates summary1 file and fdell file to hold modified info
FILE * summary = fopen(name, "r");
FILE * fdel = fopen("del.txt", "w");

// read through summary file
while (fscanf(summary, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: \n", &readPTR->ticketNumber,
&server_name_read, readPTR->fullName, readPTR->dateOfBirth, readPTR->
gender, readPTR->governmentID,
        &readPTR->numberOfTravelers, bookedseats) != EOF) {
    // copies modified ticket to fdel
    if (customerMods.ticketNumber == read.ticketNumber) {
        fprintf(fdell, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: Made by server %d\n", customerMods.ticketNumber,
server_name_read, customerMods.fullName, customerMods.dateOfBirth,
customerMods.gender, customerMods.governmentID,
        customerMods.numberOfTravelers, bookedseatsUpdated,
server_name);
    }
}

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    }
    // removes modified ticket from summary
    else {
        fprintf(fdel, "\n\nTicket Number: %d\nServer ID:
%d\nCustomer Name: %s\nDate of Birth: %s\nGender: %s\nGovernment ID:
%s\nNumber of Travelers: %d\nSeats Booked: %s\n\
Modifications: ",read.ticketNumber, server_name_read, read.fullName,
read.dateOfBirth, read.gender,
read.governmentID,read.numberOfWorkers, bookedseats);
    }
}

// changes fdel file to summary file
fclose(summary);
fclose(fdel);
remove(name);
rename("del.txt",name);

// changes fdell file to summary1 file
fclose(summary1);
fclose(fdell);
remove(name1);
rename("dell.txt",name1);
}
// sends message to server
strcpy(stringBuffer,"\nThe receipt was modified in the summary
file!\n");
send(socket,stringBuffer,sizeof(stringBuffer),0);
stringBuffer[0] = 0;
}

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struct Date getTomorrowsDate() {

    struct Date today;
    struct Date date;
    char name[20];
    strcpy(name,getTodaysDate().today);

    char *token;
    char *token1;
    char *token2;
    char *search = "-";

    token = strtok(name,search); //year
    int year = atoi(token);
    token1 = strtok(NULL, search); // month
    int month = atoi(token1);
    token2 = strtok(NULL, search); // date
    int day = atoi(token2);

    switch(month) {
        case 1:

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        if (day == 31) { day = 1; month++; }
        else { day++; }
        break;
case 2:
    if (day == 28) { day = 1; month++; }
    else { day++; }
    break;
case 3:
    if (day == 31) { day = 1; month++; }
    else { day++; }
    break;
case 4:
    if (day == 30) { day = 1; month++; }
    else { day++; }
    break;
case 5:
    if (day == 31) { day = 1; month++; }
    else { day++; }
    break;
case 6:
    if (day == 30) { day = 1; month++; }
    else { day++; }
    break;
case 7:
    if (day == 31) { day = 1; month++; }
    else { day++; }
    break;
case 8:
    if (day == 31) { day = 1; month++; }
    else { day++; }
    break;
case 9:
    if (day == 30) { day = 1; month++; }
    else { day++; }
    break;
case 10:
    if (day == 31) { day = 1; month++; }
    else { day++; }
    break;
case 11:
    if (day == 30) { day = 1; month++; }
    else { day++; }
    break;
case 12:
    if (day == 31) { day = 1; month++; }
    else { day++; }
    break;
}
sprintf(date.tomorrow,"%d-%02d-%02d", year, month, day);
return date;
}

```

