#include <stdio.h>

#include <stdlib.h>

#include <string.h>

struct Day {

char \*name;

int date;

char \*activity;

};

void create(struct Day calendar[7]) {

for (int i = 0; i < 7; i++) {

calendar[i].name = (char \*)malloc(20 \* sizeof(char)); // Assuming max length for name

calendar[i].activity = (char \*)malloc(100 \* sizeof(char)); // Assuming max length for activity

}

}

void read(struct Day calendar[7]) {

for (int i = 0; i < 7; i++) {

printf("Enter name for day %d: ", i + 1);

scanf("%s", calendar[i].name);

printf("Enter date for day %d: ", i + 1);

scanf("%d", &calendar[i].date);

printf("Enter activity for day %d: ", i + 1);

getchar(); // Clear the newline from the input buffer

fgets(calendar[i].activity, 100, stdin);

}

}

void display(struct Day calendar[7]) {

printf("\tWEEKLY DETAILS\n");

printf("\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");

printf("Day\tName\tDate\tActivity\n");

for (int i = 0; i < 7; i++)

{

printf("%d\t%s\t%d\t%s\n", i + 1, calendar[i].name, calendar[i].date, calendar[i].activity);

}

}

void freeMemory(struct Day calendar[7]) {

for (int i = 0; i < 7; i++) {

free(calendar[i].name);

free(calendar[i].activity);

}

}

int main() {

struct Day \*calendar = (struct Day \*)malloc(7 \* sizeof(struct Day));

printf("Creating the calendar...\n");

create(calendar);

printf("Reading the calendar...\n");

read(calendar);

printf("\nDisplaying the calendar...\n");

display(calendar);

freeMemory(calendar);

free(calendar);

return 0;

}