Write a C program that asks the user to store the value of noOfRecords and allocates the memory for the noOfRecords structure variables dynamically using the malloc() function. Display each entry of record.

#include <stdio.h>

#include <stdlib.h>

struct course {

int marks;

char subject[30];

};

int main() {

struct course \*ptr;

int i, noOfRecords;

printf("Enter the number of records: ");

scanf("%d", &noOfRecords);

// Memory allocation for noOfRecords structures

ptr = (struct course \*)malloc(noOfRecords \* sizeof(struct course));

for (i = 0; i < noOfRecords; ++i) {

printf("Enter the name of the subject and marks respectively:\n");

scanf("%s %d", &(ptr + i)->subject, &(ptr + i)->marks);

}

printf("Displaying Information:\n");

for (i = 0; i < noOfRecords; ++i)

printf("%s\t%d\n", (ptr + i)->subject, (ptr + i)->marks);

return 0;

}

