Design a C program to organize the file using two level directory structure.

#include<string.h>

#include<stdlib.h>

#include<stdio.h>

struct

{

char dname[10],fname[10][10];

int fcnt;

}dir[10];

void main()

{

int i,ch,dcnt,k;

char f[30], d[30];

dcnt=0;

while(1)

{

printf("\n\n1. Create Directory\t2. Create File\t3. Delete File");

printf("\n4. Search File\t\t5. Display\t6. Exit\t\nEnter your choice -- ");

scanf("%d",&ch);

switch(ch)

{

case 1: printf("\nEnter name of directory -- ");

scanf("%s", dir[dcnt].dname);

dir[dcnt].fcnt=0;

dcnt++;

printf("Directory created");

break;

case 2: printf("\nEnter name of the directory -- ");

scanf("%s",d);

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

if(strcmp(d,dir[i].dname)==0)

{

printf("Enter name of the file -- ");

scanf("%s",dir[i].fname[dir[i].fcnt]);

printf("File created");

break;

}

if(i==dcnt)

printf("Directory %s not found",d);

break;

case 3: printf("\nEnter name of the directory -- ");

scanf("%s",d);

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

{

if(strcmp(d,dir[i].dname)==0)

{

printf("Enter name of the file -- ");

scanf("%s",f);

for(k=0;k<dir[i].fcnt;k++)

{

if(strcmp(f, dir[i].fname[k])==0)

{

printf("File %s is deleted ",f);

dir[i].fcnt--;

strcpy(dir[i].fname[k],dir[i].fname[dir[i].fcnt]);

goto jmp;

}

}

printf("File %s not found",f);

goto jmp;

}

}

printf("Directory %s not found",d);

jmp : break;

case 4: printf("\nEnter name of the directory -- ");

scanf("%s",d);

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

{

if(strcmp(d,dir[i].dname)==0)

{

printf("\nEnter the name of the file -- ");

scanf("%s",f);

for(k=0;k<dir[i].fcnt;k++)

{

if(strcmp(f, dir[i].fname[k])==0)

{

printf("File %s is found ",f);

goto jmp1;

}

}

printf("File %s not found",f);

goto jmp1;

}

}

printf("Directory %s not found",d);

jmp1: break;

case 5: if(dcnt==0)

printf("\nNo Directory's ");

else

{

printf("\nDirectory\tFiles");

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

{

printf("\n%s\t\t",dir[i].dname);

for(k=0;k<dir[i].fcnt;k++)

printf("\t%s",dir[i].fname[k]);

}

}

break;

default:exit(0);

}

}

}

Output:

