#include<stdio.h>

#include<string.h>

struct MNT

{

char m\_name[40];

int index;

}MNT[20];

FILE \*fp, \*f\_inter;

char buff[100], instr[50][30];

int mntc=0, mdtc=0;

void read(char ch, FILE \*fp)

{

int i=0;

while(ch != '\n' && ch != EOF)

{

buff[i++]=ch;

ch=getc(fp);

}

buff[i]='\0';

}

void callmacro()

{

read(getc(fp), fp);

MNT[mntc].index = mdtc;

strcpy(MNT[mntc].m\_name,buff);

mntc++;

do

{

read(getc(fp), fp);

strcpy(instr[mdtc],buff);

mdtc++;

}while(strcmp("MEND",buff)!=0);

}

void main()

{

char ch,infile[20];

int i;

printf("\n enter source file name:");

gets(infile);

fp=fopen(infile,"r");

if(fp == NULL)

{

printf("\n couldnt open the file");

}

f\_inter=fopen("intermediate.txt","w");

do

{

read(getc(fp), fp);

if(strcmp(buff,"MACRO") != 0)

{

fprintf(f\_inter,"\n %s",buff);

}

else

{

callmacro();

}

}while(strcmp(buff,"END") != 0);

fclose(f\_inter);

fclose(fp);

printf("\n MACRO NAME TABLE\n");

printf("sr.no \t macro name \t\t starting row\n");

printf("---------------------------\n");

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

{

printf("%d \t %s \t %d \n",i,MNT[i].m\_name,MNT[i].index);

}

printf("\n MACRO DEFINATION TABLE\n");

printf("sr.no \t Instructions \n");

printf("---------------------------\n");

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

{

printf("%d \t %s \n",i,instr[i]);

}

}