//Expt 9b

#include<stdio.h>

#include<conio.h>

#include<string.h>

#include<stdlib.h>

void main()

{

FILE \*f1,\*f2,\*f3,\*f4,\*f5;

int i,len;

char mne[20],opnd[20],la[20],name[20],mne1[20],opnd1[20],arg[20];

clrscr();

f1=fopen("minp21.txt","r");

f2=fopen("ntab21.txt","w");

f3=fopen("dtab21.txt","w");

f4=fopen("atab21.txt","w+");

f5=fopen("op21.txt","w");

fscanf(f1,"%s%s%s",la,mne,opnd);

while(strcmp(mne,"END")!=0)

{

if(strcmp(mne,"MACRO")==0)

{

fscanf(f1,"%s%s%s",la,mne,opnd);

while(strcmp(mne,"MEND")!=0)

fscanf(f1,"%s%s%s",la,mne,opnd);

}

else

{

fscanf(f2,"%s",name);

if(strcmp(mne,name)==0)

{

len=strlen(opnd);

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

{

if(opnd[i]!=',')

fprintf(f4,"%c",opnd[i]);

else

fprintf(f4,"\n");

}

fseek(f2,SEEK\_SET,0);

fseek(f4,SEEK\_SET,0);

fscanf(f3,"%s%s",mne1,opnd1);

fprintf(f5,".\t%s\t%s\n",mne1,opnd);

fscanf(f3,"%s%s",mne1,opnd1);

while(strcmp(mne1,"MEND")!=0)

{

if((opnd1[0]=='&'))

{

fscanf(f4,"%s",arg);

fprintf(f5,"-\t%s\t%s\n",mne1,arg);

}

else

fprintf(f5,"-\t%s\t%s\n",mne1,opnd1);

fscanf(f3,"%s%s",mne1,opnd1);

}

}

else

fprintf(f5,"%s\t%s\t%s\n",la,mne,opnd);

}

fscanf(f1,"%s%s%s",la,mne,opnd);

}

fprintf(f5,"%s\t%s\t%s\n",la,mne,opnd);

fclose(f1);

fclose(f2);

fclose(f3);

fclose(f4);

fclose(f5);

printf("pass2 is successful");

getch();

}

minp21.txt

1 MACRO &A,&B

- LDA &A

- STA &B

- MEND -

SAMPLE START 1000

- EX1 N1,N2

N1 RESW 1

N2 RESW 1

- END -

op21.txt

SAMPLE START 1000

- EX1 N1,N2

N1 RESW 1

N2 RESW 1

- END -