#include<stdio.h>

#include<conio.h>

void func1(); //ot ve4e vuveden masiv

void fileprint(int str[100],int f);

void func2(int str[100]); //vuvejdane na nov masiv

main()

{

char ch;

int i,a,ff[100];

do

{

printf ("1. Zadavane na masiv ot klaviatyrata\n");

printf ("2. Izpolzvane na veche zadaden\n");

printf ("Q - Quit!\n");

printf ("Napravete svoq izbor: ");

ch=getche();

printf ("\n ");

switch(ch)

{

case '1':

for(i=0;i<100;i++)

{

printf("Vuvedete stoinost za ff[%d]= ",i+1);

scanf("%d",&a);

ff[i]=a;

}

func2(ff);

break;

case '2':

func1();

break;

}

if((ch!='1')&&(ch!='2')&&(ch!='q')&&(ch!='Q'))

{

printf("\n\nOpitai pak!!!\n\n");

}

}while ((ch!='Q')&&(ch!='q'));

}

void func1()

{

char ch;

int simvol[10];

int check, digit, b, w, m=0, t=0, r, f, s, a, i, l, neww[100];

int str[] = {2, 6, 6, 6, 6, 8, 0, 8, 0, 8, 6, 5, 4, 3, 2, 4, 6, 8, 0, 8, 7, 6, 5, 8, 0, 8, 7, 5, 5, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 2, 6, 6, 6, 6, 8, 0, 8, 0, 8, 6, 5, 4, 3, 2, 4, 6, 8, 0, 8, 7, 6, 5, 2, 0, 8, 7, 5, 5, 6, 7, 7, 7, 7, 7, 0, 1, 0, 7, 5, 9, 5, 2, 2, -2, 2, 2, 9, 9, 9};

printf("Zadadeniq masiv e: ");

for(i=0;i<100;i++) //printirane na masiva

{

printf(" %d ",str[i]);

}

printf("\n");

for(a=str[0],i=0;i<100;i++) //namirane na nai golqmoto 4islo v masiva

{

if(a<str[i])

{

a=str[i]; //a e nai golqmoto 4islo v masiva

}

}

for(b=str[0],i=0;i<100;i++) //namirane na nai malkoto 4islo v masiva

{

if(b>str[i])

{

b=str[i]; //b e nai malkoto 4islo v masiva

}

}

for(i=0;;i++) // namira poziciqta v masiva na purvoto nai golqmo 4islo (ako to se povtarq)

{

if(a==str[i])

{

s=i;

break;

}

}

for(i=0,f=s;i<(100-f);i++,s++) //vuvejda 4islata sled nai golqmoto (vklu4itelno) v vtoriq masiv

{

neww[i]=str[s];

}

printf(" \n ");

printf("\n\nMasiv1 podreden po golemina: ");

for(r=0,i=0;i<(a+1);i++,r++,t=0) //printira vtoriq masiv po golemina polojitelnite i 0

{

do{

if((a-r)==neww[t])

{

printf(" %d ",neww[t]);

}

if(t==(99-f))break;

t++;

}while(1);

}

for(r=1,w=0;w>(b-1);w--,r++,t=0) //printira vtoriq masiv po golemina

{

do{

if((0-r)==neww[t])

{

printf(" %d ",neww[t]);

}

if(t==(99-f))break;

t++;

}while(1);

}

for(i=0;i<10;i++)

{

simvol[i]=0;

}

for(digit=0,i=0;i<(100-f);i++,digit=0)

{

l=neww[i];

do

{

l=l/10;

digit++;

}while(l);

l=neww[i];

if(l<0)

{

l=l+2\*(-l);

}

for(t=0;t<digit;t++)

{

check=l%10;

switch(check)

{

case 0:

simvol[0]++;

break;

case 1:

simvol[1]++;

break;

case 2:

simvol[2]++;

break;

case 3:

simvol[3]++;

break;

case 4:

simvol[4]++;

break;

case 5:

simvol[5]++;

break;

case 6:

simvol[6]++;

break;

case 7:

simvol[7]++;

break;

case 8:

simvol[8]++;

break;

case 9:

simvol[9]++;

break;

}

l=l/10;

}

}

for(i=8;i>=0;i--)

{

if(simvol[i]!=0)

{

printf("\n\nCifrata s vtoriq po golemina ANCII kod e %d",i);

break;

}

}

if(i==-1)

{

printf("\nVsi4ki cifri v masiva sa ednakvi i nqma vtora po golemina\n");

}

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

printf("Izka6 li da zapi6a masiva v fail (Y or something else)");

fflush(stdin);

ch=getche();

if((ch=='y')||(ch=='Y'))

{

fileprint(neww,f);

}

}

void func2(int str[100])

{

char ccc;

char ch;

int simvol[10],digit,l,check;

int b, w, m=0, t=0, r, f, s, a, i, neww[100];

printf("Zadadeniq masiv e: ");

for(i=0;i<100;i++) //printirane na masiva

{

printf(" %d ", str[i]);

}

printf("\n");

for(a=str[0],i=0;i<100;i++) //namirane na nai golqmoto 4islo v masiva

{

if(a<str[i])

{

a=str[i]; //a e nai golqmoto 4islo v masiva

}

}

for(b=str[0],i=0;i<100;i++) //namirane na nai malkoto 4islo v masiva

{

if(b>str[i])

{

b=str[i]; //b e nai malkoto 4islo v masiva

}

}

for(i=0;;i++) // namira poziciqta v masiva na purvoto nai golqmo 4islo (ako to se povtarq)

{

if(a==str[i])

{

s=i;

break;

}

}

for(i=0,f=s;i<(100-f);i++,s++) //vuvejda 4islata sled nai golqmoto (vklu4itelno) vuv vtoriq masiv

{

neww[i]=str[s];

}

printf(" \n ");

printf("Vtoriqt masiv podreden po golemina: ");

for(r=0,i=0;i<(a+1);i++,r++,t=0) //printira vtoriq masiv po golemina polojitelnite i 0

{

do{

if((a-r)==neww[t])

{

printf(" %d ",neww[t]);

}

if(t==(99-f))break;

t++;

}while(1);

}

for(r=1,w=0;w>(b-1);w--,r++,t=0) //printira vtoriq masiv po golemina

{

do{

if((0-r)==neww[t])

{

printf(" %d ",neww[t]);

}

if(t==(99-f))break;

t++;

}while(1);

}

for(i=0;i<10;i++)

{

simvol[i]=0;

}

for(digit=0,i=0;i<(100-f);i++,digit=0)

{

l=neww[i];

do

{

l=l/10;

digit++;

}while(l);

l=neww[i];

if(l<0)

{

l=l+2\*(-l);

}

for(t=0;t<digit;t++)

{

check=l%10;

switch(check)

{

case 0:

simvol[0]++;

break;

case 1:

simvol[1]++;

break;

case 2:

simvol[2]++;

break;

case 3:

simvol[3]++;

break;

case 4:

simvol[4]++;

break;

case 5:

simvol[5]++;

break;

case 6:

simvol[6]++;

break;

case 7:

simvol[7]++;

break;

case 8:

simvol[8]++;

break;

case 9:

simvol[9]++;

break;

}

l=l/10;

}

}

for(i=8;i>=0;i--)

{

if(simvol[i]!=0)

{

printf("Cifrata s vtoriq po golemina ANCII kod e %d",i);

break;

}

}

if(i==-1)

{

printf("\nVsi4ki cifri v masiva sa ednakvi i nqma vtora po golemina\n");

}

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

printf("Izka6 li da zapi6a masiva v fail (Y or something else)");

fflush(stdin);

ch=getche();

if((ch=='y')||(ch=='Y'))

{

fileprint(neww,f);

}

}

void fileprint(int str[100],int f)

{

char dir[500];

FILE \*fout;

int a,i;

printf("\nVuvedete mestopolojenieto na zapis na faila: ");

scanf("%s",&dir);

fout=fopen(dir,"a+");

for(i=0;i<(100-f);i++)

{

a=str[i];

if(((i+1)%4==0)&&(i!=0))

{

fprintf(fout," %d\n",a);

}

else fprintf(fout," %d ",a);

}

fclose(fout);

}