#include<stdio.h>

#include<conio.h>

void func1();

void func2();

main()

{

char ch;

do

{

printf ("1. Izpolzvane na veche zadaden\n");

printf ("2. Zadavane na masiv ot klaviatyrata\n");

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

printf ("Napravete svoq izbor: ");

ch=getche();

printf ("\n");

switch(ch)

{

case '1':

func1();

break;

case '2':

func2();

break;

}

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

{

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

}

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

}

void func1()

{

int i,t;//broq4i

int check;

int a,broi=0,broin,digit=0;

int masiv1[100],masiv2[100],masiv3[100],simvol[10];

int str[] = {2, 6, -6, 6, -21, 8, 0, 8, 0, 21, 6, 5, 4, 3, 20, 4, 6, 8, 0, 20, 7, 6, 5, 8, 20, 8, 7, 5, 5, 206, 7, 7, 7, 7, 20, 7, 7, 7, 7, 20, 7, 7, 7, 7, 20, 7, 7, 7, 7, 20, 2, 6, 6, 6, 20, 8, 0, 8, 0, 20, 6, 5, 4, 3, 20, 4, 6, 8, 0, 20, 7, 6, 5, 8, 20, 8, 7, 5, 5, 20, 7, 7, 7, 7, 20, 0, 1, 0, 7, 20, -9, 5, 8, 8, 20, 2, 7, 9, -9, 20};

printf("\n");

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

{

if(i%2==0)

{

if(str[i]<0)

{

if(str[i]%3==0)

{

masiv1[t]=str[i];

broi++;

t++;

}

}

}

}

printf("\n\n\nMasiv 1 (vsi4ki otricatelni,delq6ti se na 3 bez ostatuk i na 4etni pozicii): ");

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

{

printf(" %d",masiv1[i]);

}

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

for(broin=0,t=0,i=0;i<100;i++)

{

if(str[i]>0)

{

if(str[i]%7==0)

{

masiv2[t]=str[i];

broin++;

t++;

}

}

}

printf("\n\n\nMasiv 2 (vsi4ki polojitelni, koito se delq6t na 7 bez ostatuk): ");

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

{

printf(" %d",masiv2[i]);

}

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

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

{

simvol[i]=0;

}

for(i=0;i<broi;i++,digit=0)

{

a=masiv1[i];

do

{

a=a/10;

digit++;

}while(a);

a=masiv1[i];

if(a<0)

{

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

}

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

{

check=a%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;

}

a=a/10;

}

}

for(a=simvol[0],i=0;i<10;i++)

{

if(a<simvol[i])

{

a=simvol[i];

}

}

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

{

if(a==simvol[i])

{

break;

}

}

printf("\n\n\nNai 4esto sre6taniq simvol v masiv 1 e %d",i);

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

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

{

simvol[i]=0;

}

for(digit=0,i=0;i<broin;i++,digit=0)

{

a=masiv2[i];

do

{

a=a/10;

digit++;

}while(a);

a=masiv2[i];

if(a<0)

{

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

}

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

{

check=a%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;

}

a=a/10;

}

}

for(a=simvol[0],i=0;i<10;i++)

{

if(a<simvol[i])

{

a=simvol[i];

}

}

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

{

if(a==simvol[i])

{

break;

}

}

printf("\n\n\nNai 4esto sre6taniq simvol v masiv 2 e %d",i);

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

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

{

masiv3[i]=masiv1[i];

}

for(;i<(broin+broi);i++)

{

masiv3[i]=masiv2[i-broi];

}

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

{

simvol[i]=0;

}

for(digit=0,i=0;i<(broin+broi);i++,digit=0)

{

a=masiv3[i];

do

{

a=a/10;

digit++;

}while(a);

a=masiv3[i];

if(a<0)

{

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

}

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

{

check=a%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;

}

a=a/10;

}

}

for(a=simvol[0],i=0;i<10;i++)

{

if(a<simvol[i])

{

a=simvol[i];

}

}

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

{

if(a==simvol[i])

{

break;

}

}

printf("\n\n\nNai 4esto sre6taniq simvol v dvata masiva e %d",i);

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

}

void func2()

{

int i,t;//broq4i

int check;

int a,broi=0,broin,digit=0;

int masiv1[100],masiv2[100],masiv3[100],simvol[10];

int str[100];

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

{

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

scanf("%d",&str[i]);

}

printf("\n");

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

{

if(i%2==0)

{

if(str[i]<0)

{

if(str[i]%3==0)

{

masiv1[t]=str[i];

broi++;

t++;

}

}

}

}

printf("\n\n\nMasiv 1 (vsi4ki otricatelni,delq6ti se na 3 bez ostatuk i na 4etni pozicii): ");

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

{

printf(" %d",masiv1[i]);

}

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

for(broin=0,t=0,i=0;i<100;i++)

{

if(str[i]>0)

{

if(str[i]%7==0)

{

masiv2[t]=str[i];

broin++;

t++;

}

}

}

printf("\n\n\nMasiv 2 (vsi4ki polojitelni, koito se delq6t na 7 bez ostatuk): ");

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

{

printf(" %d",masiv2[i]);

}

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

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

{

simvol[i]=0;

}

for(i=0;i<broi;i++,digit=0)

{

a=masiv1[i];

do

{

a=a/10;

digit++;

}while(a);

a=masiv1[i];

if(a<0)

{

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

}

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

{

check=a%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;

}

a=a/10;

}

}

for(a=simvol[0],i=0;i<10;i++)

{

if(a<simvol[i])

{

a=simvol[i];

}

}

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

{

if(a==simvol[i])

{

break;

}

}

printf("\n\n\nNai 4esto sre6taniq simvol v masiv 1 e %d",i);

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

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

{

simvol[i]=0;

}

for(digit=0,i=0;i<broin;i++,digit=0)

{

a=masiv2[i];

do

{

a=a/10;

digit++;

}while(a);

a=masiv2[i];

if(a<0)

{

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

}

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

{

check=a%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;

}

a=a/10;

}

}

for(a=simvol[0],i=0;i<10;i++)

{

if(a<simvol[i])

{

a=simvol[i];

}

}

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

{

if(a==simvol[i])

{

break;

}

}

printf("\n\n\nNai 4esto sre6taniq simvol v masiv 2 e %d",i);

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

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

{

masiv3[i]=masiv1[i];

}

for(;i<(broin+broi);i++)

{

masiv3[i]=masiv2[i-broi];

}

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

{

simvol[i]=0;

}

for(digit=0,i=0;i<(broin+broi);i++,digit=0)

{

a=masiv3[i];

do

{

a=a/10;

digit++;

}while(a);

a=masiv3[i];

if(a<0)

{

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

}

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

{

check=a%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;

}

a=a/10;

}

}

for(a=simvol[0],i=0;i<10;i++)

{

if(a<simvol[i])

{

a=simvol[i];

}

}

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

{

if(a==simvol[i])

{

break;

}

}

printf("\n\n\nNai 4esto sre6taniq simvol v dvata masiva e %d",i);

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

}