#include<stdio.h>

#include<conio.h>

void func1();

void func2();

main()

{

char ch;

do

{

printf ("1. Izpolzvane na ve4e vuveden masiv\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!!!(1,2,Q)\n\n");

}

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

}

void func1()

{

int check,b;

int i,t,r,e,y,s,digit;

int masiv1[100];

int str[] = {2, 6, 7, 6, 20, 8, 0, 57, 0, 20, 76, 5, 4, 3, 577, 4, 6, 8, 0, 20, 7, 6, 5, 8, 20, 8, 7, 5, 5, 206, 4, 4, 4, 4, 20, 4, 4, 4, 4, 20, 4, 4, 4, 4, 20, 4, 4, 4, 4, 20, 2, 6, 6, 6, 20, 8, 0, 8, 0, 20, 6, 5, 4, 3, 20, 4, 6, 8, 0, 20, 4, 6, 5, 8, 20, 8, 4, 5, 5, 20, 4, 4, 4, 4, 20, 0, 1, 0, 4, 20, 9, 5, 8, 8, 20, 2, 4, 9, 9, 20};

printf("\n");

printf("Ve4e vuvedeniq masiv e: ");

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

{

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

}

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

{

b=str[i];

do

{

b=b/10;

digit++;

}while(b);

b=str[i];

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

{

check=b%10;

if(check==7)

{

masiv1[r]=str[i];

r++;

break;

}

else

{

b=b/10;

}

}

}

printf("\n\n4islata sudurja6ti cifrata 7 sa: ");

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

{

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

}

printf("\n");

for(b=masiv1[0],i=0;i<100;i++)

{

if(b<masiv1[i])

{

b=masiv1[i];

}

}

printf("\n4islata sudurja6ti cifrata 7 v nizhodq6t red: ");

for(t=0,e=0,i=0;i<(2\*b+1);i++,e++,t=0)

{

do{

if((b-e)==masiv1[t])

{

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

}

if(t==r)break;

t++;

}while(1);

}

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

{

for(y=0;y<r;y++,digit=0)

{

b=masiv1[y];

do

{

b=b/10;

digit++;

}while(b);

b=masiv1[y];

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

{

check=b%10;

if(check==e)

{

s=1;

break;

}

else

{

b=b/10;

}

}

if(check==e&&s==1)

{

break;

}

}

if(check==e&&s==1)

{

break;

}

}

for(digit=0,i=0,y=0;i<r;i++,t=0,digit=0)

{

b=masiv1[i];

do

{

b=b/10;

digit++;

}while(b);

b=masiv1[i];

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

{

check=b%10;

if(check==e)

{

y++;

}

b=b/10;

}

}

printf("\n\nCifrata v noviq masiv s nai maluk ANCII kod e %d i se sre6ta %d puti.\n\n\n",e,y);

}

void func2()

{

int check,b;

int i,t,r,e,y,s,digit;

int masiv1[100],str[100];

printf("\n");

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

{

printf("\nVuvedete stoinost za str[%d]= ",i);

scanf("%d",&r);

str[i]=r;

}

printf("\n\nNoviq masiv e: ");

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

{

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

}

printf("\n\n");

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

{

b=str[i];

do

{

b=b/10;

digit++;

}while(b);

b=str[i];

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

{

check=b%10;

if(check==7)

{

masiv1[r]=str[i];

r++;

break;

}

else

{

b=b/10;

}

}

}

printf("\n\n4islata sudurja6ti cifrata 7 sa: ");

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

{

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

}

printf("\n");

for(b=masiv1[0],i=0;i<100;i++)

{

if(b<masiv1[i])

{

b=masiv1[i];

}

}

printf("\n4islata sudurja6ti cifrata 7 v nizhodq6t red: ");

for(t=0,e=0,i=0;i<(2\*b+1);i++,e++,t=0)

{

do{

if((b-e)==masiv1[t])

{

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

}

if(t==r)break;

t++;

}while(1);

}

printf("\n");

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

{

for(y=0;y<r;y++,digit=0)

{

b=masiv1[y];

do

{

b=b/10;

digit++;

}while(b);

b=masiv1[y];

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

{

check=b%10;

if(check==e)

{

s=1;

break;

}

else

{

b=b/10;

}

}

if(check==e&&s==1)

{

break;

}

}

if(check==e&&s==1)

{

break;

}

}

for(digit=0,i=0,y=0;i<r;i++,t=0,digit=0)

{

b=masiv1[i];

do

{

b=b/10;

digit++;

}while(b);

b=masiv1[i];

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

{

check=b%10;

if(check==e)

{

y++;

}

b=b/10;

}

}

printf("\nCifrata v noviq masiv s nai maluk ANCII kod e %d i se sre6ta %d puti.\n\n\n",e,y);

}