#include <iostream>

#include <climits>

using namespace std;

int main()

{

choice:

int choice1;

main:{

cout <<" MAIN MENU "<<endl;

cout <<"(1) counting numbers (1)"<<endl;

cout <<"(2) number classification (2)"<<endl;

cout <<"(3) calculator (3)"<<endl;

cout <<"(4) oceni (4)"<<endl;

cout <<"(5) BACK (5)"<<endl;

cout <<"(6) EXIT (6)"<<endl;

cout <<" "<<endl;

cout <<"ENTER : "<<endl;

cin >>choice1;

while (cin.fail()){

cin.clear();

cin.ignore(INT\_MAX, '\n');

cout << "You can only enter numbers."<<endl;

cout << "Enter a number."<<endl;}

cin >>choice1;

if ( choice1 == 1) goto counting;

if ( choice1 == 2) goto parnepar;

if ( choice1 == 3) goto calculator;

if ( choice1 == 3) goto grades;

if ( choice1 == 4) goto choice;

if ( choice1 == 5) goto exit;}

parnepar:{

int choice152;

cout <<" MAIN MENU "<<endl;

cout <<"(1) klasifikacija na pren ili neparen (1)"<<endl;

cout <<"(2) klasifikacija na brojot na koj zavrshuvaat (2)"<<endl;

cout <<"(3) BACK (3)"<<endl;

cout <<"(4) EXIT (4)"<<endl;

cout <<" "<<endl;

cout <<"ENTER : "<<endl;

cin >>choice152;

while (cin.fail()){

cin.clear();

cin.ignore(INT\_MAX, '\n');

cout << "You can only enter numbers."<<endl;

cout << "Enter a number."<<endl;}

cin >>choice152;

if ( choice152 == 1) goto parnepar2;

if ( choice152 == 2) goto parnepar3;

if ( choice152 == 3) goto main;

if ( choice152 == 4) goto exit;}

parnepar3:{

int num18;

int num16,num162,num17,cha163;

char chs164;

cout <<" RABOTI SAMO SO CELI BROEVI! : "<<endl;

cout <<" Vnesi prv broj : "<<endl;

cin>>num16;

cout<<" Vnesi. vtor broj : "<<endl;

cin >>num162;

cout << endl << " Vnesi operacija : ( +, -, \*, / ) : ";

cin >>chs164;

while (cin.fail()){

cin.clear();

cin.ignore(INT\_MAX, '\n');

cout << "You can only enter numbers."<<endl;

cout << "Enter a number."<<endl;}

cin >>chs164;

if (chs164 == '+' ) cha163 = num16 + num162;

if (chs164 == '-' ) cha163 = num16 - num162;

if (chs164 == '/' ) cha163 = num16 / num162;

if (chs164 == '\*' ) cha163 = num16 \* num162;

cout << endl <<" Vnesi go brojot na koj mislish deka rezultatot zavrshuva : ";

cin >>num18;

if ( cha163 % 10 == num18){

cout <<" Tochno "<<" Rezultatot iznesuva"<< cha163 <<" i zavrshuva na "<<(cha163 % 10)<<endl;}

if ( cha163 % 10 != num18){

cout <<" Greshno "<<"Rezultatot iznesuva"<< cha163 <<" i zavrshuva na "<<(cha163 % 10)<<endl;}}

parnepar2:{

int num15;

cout <<" Vnesi cel broj : "<<endl;

cin >>num15;

if ( num15 % 2 == 0){

cout <<num15<<" E paren broj "<<endl;}

if ( num15 % 2 == 1){

cout <<num15<<" E neparen broj "<<endl;}}

calculator:{

int choice3;

cout <<" CALCULATOR MENU "<<endl;

cout <<"(1) Standard Calculator (1)"<<endl;

cout <<"(2) Numeral seperation (2)"<<endl;

cout <<"(3) NZD (3)"<<endl;

cout <<"(4) BACK (4)"<<endl;

cout <<"(5) EXIT (5)"<<endl;

cout <<" "<<endl;

cout <<"ENTER : "<<endl;

cin >>choice3;

while (cin.fail()){

cin.clear();

cin.ignore(INT\_MAX, '\n');

cout << "You can only enter numbers."<<endl;

cout << "Enter a number."<<endl;}

cin >>choice3;

if ( choice3 == 1) goto standardcal;

if ( choice3 == 2) goto numeralcal;

if ( choice3 == 3) goto nzd;

if ( choice3 == 4) goto choice;

if ( choice3 == 5) goto exit;}

nzd:{

int x1,y1,choice5;

cout << "Vnesi go prviot broj: "<<endl;

cin >>x1;

cout << "Vnesi go vtoriot broj: "<<endl;

cin >>y1;

while (x1!=y1)

{

if (x1>y1)

x1=x1-y1;

else

y1=y1-x1;

}

cout<<"NZD e: "<<x1<<endl;;

cout << endl << " (1) Back (1)";

cout << endl << " (2) Exit (2)";

cout <<" "<<endl;

cout <<"Enter : "<<endl;

cin >>choice5;

if ( choice5 == 1 ) goto choice;

if ( choice5 == 2 ) goto exit;}

numeralcal:{

float add;

char chs, chs2;

int a, b, c, d, e, f, g, h, h2, i, i2, j, j2, e2, z, z2, x, x2, v, v2, n, n2, m, m2,k, q, q2, w, w2, r, r2, t, t2, u, u2;

cout << endl << "Vnesi broj (od 10 do 10000000) : ";

cin >> c;

if ( c < 100)

{

cout << endl << " Odberi operacija ( +, -, \*, /) : ";

cin >> chs2;

a = c / 10;

b = c % 10;

if (chs2 == '+') add = a + b;

if (chs2 == '-') add = a - b;

if (chs2 == '\*') add = a \* b;

if (chs2 == '/') add = a / b;

cout << endl <<"" "Prviot broj e : "" "<< a <<" "" Vtoriot broj e : " " "<< b <<" "" Zbirot na broevite e : "<< (float)add;

cout << endl <<" Dali bi sakal da vnesesh nov broj ? (Y/N): ";

cin >> chs;

if ( chs == 'y') goto choice;

if ( chs == 'n') goto end;

}

else if ( c < 1000)

{

cout << endl << " Odberi operacija ( +, -, \*, /) : ";

cin >> chs2;

d = c / 100;

e2 = c / 10;

e = e2 % 10;

f = c % 10;

if (chs2 == '+') add = d + e + f;

if (chs2 == '-') add = d - e - f;

if (chs2 == '\*') add = d \* e \* f;

if (chs2 == '/') add = d / e / f;

cout << endl <<"" "Prviot broj e : "" "<< d <<" "" Vtoriot broj e : " ""<< e <<" "" Tretiot broj e : "<< f <<" "" Zbirot na broevite e : "<< (float)add;

cout << endl <<" Dali bi sakal da vnesesh nov broj ? (Y/N): ";

cin >> chs;

if ( chs == 'y') goto choice;

if ( chs == 'n') goto end;

}

else if ( c < 10000)

{

cout << endl << " Odberi operacija ( +, -, \*, /) : ";

cin >> chs2;

g = c / 1000;

j2 = c / 100;

j = j2 % 10;

h2 = c / 10;

h = h2 % 10;

i = c % 10;

if (chs2 == '+') add = g + h + i + j;

if (chs2 == '-') add = g - h - i - j;

if (chs2 == '\*') add = g \* h \* i \* j;

if (chs2 == '/') add = g / h / i / j;

cout << endl <<"" "Prviot broj e : "" "<< g <<" "" Vtoriot broj e : " ""<< j <<" "" Tretiot broj e : "<< h <<" " " Chetvrtiot broj e : "<< i << " "" Zbirot na broevite e : "<< (float)add;

cout << endl <<" Dali bi sakal da vnesesh nov broj ? (Y/N): ";

cin >> chs;

if ( chs == 'y') goto choice;

if ( chs == 'n') goto end;

}

else if ( c < 100000)

{

cout << endl << " Odberi operacija ( +, -, \*, /) : ";

cin >> chs2;

z = c / 10000;

x2 = c / 1000;

x = x2 % 10;

v2 = c / 100;

v = v2 % 10;

n2 = c / 10;

n = n2 % 10;

m2 = c / 100;

m = c % 10;

if (chs2 == '+') add = z + x + v + n + m;

if (chs2 == '-') add = z - x - v - n - m;

if (chs2 == '\*') add = z \* x \* v \* n \* m;

if (chs2 == '/') add = z / x / v / n / m;

cout << endl <<"" "Prviot broj e : "" "<< z <<" "" Vtoriot broj e : " " "<< x <<" "" Tretiot broj e : "<< v << "" " Chetvrtiot broj e : "<< n << " Petiot broj e : "" "<< m << " ""Zbirot na broevite e : "<< (float)add;

cout << endl <<" Dali bi sakal da vnesesh nov broj ? (Y/N): ";

cin >> chs;

if ( chs == 'y') goto choice;

if ( chs == 'n') goto end;

}

else if ( c < 1000000)

{

cout << endl << " Odberi operacija ( +, -, \*, /) : ";

cin >> chs2;

k = c / 100000;

q2 = c / 10000;

q = q2 % 10;

w2 = c / 1000;

w = w2 % 10;

r2 = c / 100;

r = r2 % 10;

t2 = c / 10;

t = t2 % 10;

u = c % 10;

if (chs2 == '+') add = k + q + w + r + t + u;

if (chs2 == '-') add = k - q - w - r - t - u;

if (chs2 == '\*') add = k \* q \* w \* r \* t \* u;

if (chs2 == '/') add = k / q / w / r / t / u;

cout << endl <<"" "Prviot broj e : "" "<< k <<" "" Vtoriot broj e : " " "<< q <<" "" Tretiot broj e : "<< w << "" "" " Chetvrtiot broj e : "<< r << " Petiot broj e : "" "<< t << " "" Shestiot broj e : "<< u <<"" " Zbirot na broevite e : "<< (float)add;

cout << endl <<" Dali bi sakal da vnesesh nov broj ? (Y/N): ";

cin >> chs;

if ( chs == 'y') goto choice;

if ( chs == 'n') goto end;

}

else if ( c < 10)

{

cout << endl << " Vnese : "<<c;

cout << endl << "! Vneseniot broj e ednocifen !";

cout << endl << "! Vnesi minimum dvo cifren broj !";

cout << endl << "! vnesi broj pogolem od 10 ! ";

cout <<" " << endl;

cin.ignore();

goto choice;

}

else if ( c > 10000000)

{

cout << endl << " Vnese : "<<c;

cout << endl << "! vnesi broj pomal od 1 milion ! ";

cout <<" " << endl;

cin.ignore();

goto choice;

}

end:

cout << endl << " ";

goto exit;}

standardcal:{

float first,second,add123,choice4;

char op;

cout << endl << " Vnesi prv broj : ";

cin >>first;

cout << endl << " Vnesi vtor broj : ";

cin >>second;

cout << endl << " Vnesi operacija ( +, -, \*, / ) : ";

cin >>op;

if (op == '+' ) add123 = (float)first + (float)second;

if (op == '-' ) add123 = (float)first - (float)second;

if (op == '/' ) add123 = (float)first / (float)second;

if (op == '\*' ) add123 = (float)first \* (float)second;

cout << endl << " = "<<add123;

cout << endl << " (1) Back (1)";

cout << endl << " (2) Exit (2)";

cout <<" "<<endl;

cout <<"Enter : "<<endl;

cin >>choice4;

if ( choice4 == 1 ) goto choice;

if ( choice4 == 2 ) goto exit;}

counting:{

int choice2;

cout <<" COUNTING MENUE "<<endl;

cout <<"(1) Forwards (1)"<<endl;

cout <<"(2) Backwards (2)"<<endl;

cout <<"(3) BACK (3)"<<endl;

cout <<"(4) EXIT (4)"<<endl;

cout <<" "<<endl;

cout <<"ENTER : "<<endl;

cin >>choice2;

while (cin.fail()){

cin.clear();

cin.ignore(INT\_MAX,'\n');

cout << "You can only enter numbers."<<endl;

cout << "Enter a number."<<endl;}

cin >>choice2;

if ( choice2 == 1 ) goto forwards;

if ( choice2 == 2 ) goto backwards;

if ( choice2 == 3 ) goto choice;

if ( choice2 == 4 ) goto exit;}

forwards:{

int frw,frw2;

cout <<" Vnesi cel broj nad 0 "<<endl;

cout <<"ENTER : "<<endl;

cin >>frw;

cout <<" Do koj broj da brojam? "<<endl;

cout <<"ENTER : "<<endl;

cin >>frw2;

while (frw < frw2)

{

cout <<endl<<frw;

frw++;

}

goto counting;}

backwards:{

int bkw,bkw2;

cout <<" Vnesi cel broj, pod\nad (ne pomal od onoj do koj se broi) 0 "<<endl;

cout <<"ENTER : "<<endl;

cin >>bkw;

cout <<"Vnesi negativen broj do koj sakash da brojam (pr: - 5000)?"<<endl;

cout <<"ENTER : "<<endl;

cin >>bkw2;

while (bkw > bkw2)

{

cout <<endl<<bkw;

bkw--;

}

goto exit;}

grades:

{

char chs25;

int o1, o2 ,o3, o4, o5, o6, o7, o8, o9, o10, o11, o12, o13, num;

char p1[20], p2[20], p3[20], p4[20], p5[20], p6[20], p7[20], p8[20], p9[20], p10[20], p11[20], p12[20], p13[20];

cout << endl << "! DO 13 OCENI !";

cout << endl << "! dokolku ima pomalku od 13 oceni vnesi 0 za brojot na predmet nad brojot na predmeti koj e potreben ! ";

cout << endl << " Vnesi '13' - broj na predmeti : ";

cin >> num;

while (cin.fail());{

cin.clear();

cin.ignore(INT\_MAX,'\n');

cout << "You can only enter numbers."<<endl;

cout << "Enter a number."<<endl;}

cin >>num;

cout << endl << "Vnesi ime na predmet 1 : ";

cin >> p1;

cout << endl << "Vnesi ime na predmet 2 : ";

cin >> p2;

cout << endl << "Vnesi ime na predmet 3 : ";

cin >> p3;

cout << endl << "Vnesi ime na predmet 4 : ";

cin >> p4;

cout << endl << "Vnesi ime na predmet 5 : ";

cin >> p5;

cout << endl << "Vnesi ime na predmet 6 : ";

cin >> p6;

cout << endl << "Vnesi ime na predmet 7 : ";

cin >> p7;

cout << endl << "Vnesi ime na predmet 8 : ";

cin >> p8;

cout << endl << "Vnesi ime na predmet 9 : ";

cin >> p9;

cout << endl << "Vnesi ime na predmet 10 : ";

cin >> p10;

cout << endl << "Vnesi ime na predmet 11 : ";

cin >> p11;

cout << endl << "Vnesi ime na predmet 12 : ";

cin >> p12;

cout << endl << "Vnesi ime na predmet 13 : ";

cin >> p13;

cout << endl << "Vnesi ocena na :"<< p1 <<" : ";

cin >> o1;

cout << endl << "Vnesi ocena na :"<< p2 <<" : ";

cin >> o2;

cout << endl << "Vnesi ocena na :"<< p3 <<" : ";

cin >> o3;

cout << endl << "Vnesi ocena na :"<< p4 <<" : ";

cin >> o4;

cout << endl << "Vnesi ocena na :"<< p5 <<" : ";

cin >> o5;

cout << endl << "Vnesi ocena na :"<< p6 <<" : ";

cin >> o6;

cout << endl << "Vnesi ocena na :"<< p7 <<" : ";

cin >> o7;

cout << endl << "Vnesi ocena na :"<< p8 <<" : ";

cin >> o8;

cout << endl << "Vnesi ocena na :"<< p9 <<" : ";

cin >> o9;

cout << endl << "Vnesi ocena na :"<< p10 <<" : ";

cin >> o10;

cout << endl << "Vnesi ocena na :"<< p11 <<" : ";

cin >> o11;

cout << endl << "Vnesi ocena na :"<< p12 <<" : ";

cin >> o12;

cout << endl << "Vnesi ocena na :"<< p13 <<" : ";

cin >> o13;

cout << endl << p1 << " : " << o1;

cout << endl << p2 << " : " << o2;

cout << endl << p3 << " : " << o3;

cout << endl << p4 << " : " << o4;

cout << endl << p5 << " : " << o5;

cout << endl << p6 << " : " << o6;

cout << endl << p7 << " : " << o7;

cout << endl << p8 << " : " << o8;

cout << endl << p9 << " : " << o9;

cout << endl << p10 << " : " << o10;

cout << endl << p11 << " : " << o11;

cout << endl << p12 << " : " << o12;

cout << endl << p13 << " : " << o13;

double add1 = o1 + o2 + o3 + o4 + o5 + o6 + o7 + o8 + o9 + o10 + o11 + o12 + o13;

double prosek = (double)add1 / num;

cout << endl << "Prosek : "<< ((double)add1 / num);

cout << endl << " CONTINUE ? (y/n): ";

cin >> chs25;

if (chs25 == 'y') goto grades;

if (chs25 == 'n') goto exit;

}

exit:{

cout << " "<<endl;

cout <<"THANKS FOR USING THIS PROGRAM "<<endl;}

return 0;

}