#include <stdio.h>

#include <stdlib.h>

/\*

Zadacha1

void comparison(int a,int b){

if (a>b){

printf("Bigger = %d\n",a);

printf("Smaller = %d\n",b);

}

else{

printf("Bigger = %d\n",b);

printf("Smaller = %d\n",a);

}

}

void comparison1(){

int a;

printf("a = ");

scanf("%d",&a);

int s=a;

int b=a;

int i=1;

while (i==1){

printf("a = ");

scanf("%d",&a);

if (a==0){

break;}

if (a>b){

b=a;

}

if (a<s){

s=a;

}

}

printf("Bigger = %d\n",b);

printf("Smaller = %d\n",s);

}

Zadacha 12

void butterfly(int stars, int reverse, int a)

{

for (int i = 0; i < stars; i++) {

if (a)

{

printf("\*");

}

else

{

printf("-");

}

}

if (reverse)

{

printf("/ \\");

}

else

{

printf("\\ /");

}

for (int i = 0; i < stars; i++)

{

if (a)

{

printf("\*");

}

else

{

printf("-");

}

}

printf("\n");

}

void printA(int stars)

{

for (int i = 0; i < stars; i++)

{

printf(" ");

}

printf("@\n");

}\*/

int main()

{

/\*

Zadacha 1

int a,b;

printf("a = ");

scanf("%d",&a);

printf("\nb = ");

scanf("%d",&b);

comparison(a,b);

comparison1();

Zadacha 2

int h,m;

printf("Hour = ");

scanf("%d",&h);

printf("\nMinute = ");

scanf("%d",&m);

if (h==23 && m>=45){

h=0;

m=m+15-60;

}

else if(m>=45){

h++;

m=m+15-60;

}

else{

m+=15;

}

printf("%02d:%02d",h,m);

Zadacha 3

int a,b,c;

printf("a = ");

scanf("%d",&a);

printf("b = ");

scanf("%d",&b);

printf("c = ");

scanf("%d",&c);

if (a==b && b==c){

printf("Yes");

}

else printf("No");

Zadacha 4

int a;

double b=0;

printf("a = ");

scanf("%d",&a);

if (a<=100) {

b=5;

}else if(a>100 && a<=1000){

b+=0.2\*a;

}

else if(a>1000){

b+=a\*0.1;

}

if (a%2==0){

b+=1;

}

if (a%10==5) {

b=b+2;}

a+=b;

printf("Bonus points = %.1f\n",b);

printf("Points = %d",a);

Zadacha 5

int a,b,c,d;

printf("a = ");

scanf("%d",&a);

printf("b = ");

scanf("%d",&b);

printf("c = ");

scanf("%d",&c);

d=a+b+c;

printf("%d:%02d",(d/60),(d%60));

Zadacha 6

double x,y,x1,y1,x2,y2;

printf("x1 = ");

scanf("%lf",&x1);

printf("y1 = ");

scanf("%lf",&y1);

printf("x2 = ");

scanf("%lf",&x2);

printf("y2 = ");

scanf("%lf",&y2);

printf("x = ");

scanf("%lf",&x);

printf("y = ");

scanf("%lf",&y);

if (x>=x1 && x<=x2 && y>=y1 && y<=y2){

printf("Inside");

}

else printf("Outside");

Zadacha 7

double n;

char d;

printf("n = ");

scanf("%lf",&n);

printf("Day/Night = ");

d = getchar();

scanf("%c",&d);

if (n<20){

if (d=='D')

printf("Money = %.2lf",n\*0.7);

else printf("Money = %.2lf",n\*0.79);

}

else if(n<100){

printf("Money = %.2lf",n\*0.09);

}

else if (n>100){

printf("Money = %.2lf",n\*0.06);

}

Zadacha 8

int v,d1,d2,h,col;

printf("V = ");

scanf("%d",&v);

printf("debit 1 = ");

scanf("%d",&d1);

printf("debit 2 = ");

scanf("%d",&d2);

printf("Hours = ");

scanf("%d",&h);

col = (d1+d2)\*h;

if(col>=v){

printf("Full");

}

else printf("Not full");

Zadacha 9

int x,y,z;

printf("X = ");

scanf("%d",&x);

printf("Y = ");

scanf("%d",&y);

printf("Y = ");

scanf("%d",&z);

double a=x\*0.4;

double b=a\*y;

double c=b/2.5;

if (c>=z){

printf("Enough");

}

else {

printf("Not enough");}

Zadacha 10

int n,p1,p2,p3,p4,p5;

double br=0;

p1=0;

p2=0;

p3=0;

p4=0;

p5=0;

printf("n = ");

scanf("%d",&n);

for (int i=1; i<=n;i++){

int a;

printf("n %d= ",i);

scanf("%d",&a);

br++;

if (a<200){

p1++;

}

else if(a<400){

p2++;

}

else if (a<600){

p3++;

}

else if(a<800){

p4++;

}

else if(a>=800){

p5++;

}

}

printf("p1 = %.2lf %%\n",p1/br\*100);

printf("p2 = %.2lf %%\n",p2/br\*100);

printf("p3 = %.2lf %%\n",p3/br\*100);

printf("p4 = %.2lf %%\n",p4/br\*100);

printf("p5 = %.2lf %%\n",p5/br\*100);

Zadacha 11

int n;

printf("n = ");

scanf("%d",&n);

printf("/");

for(int i=1;i<=n/2;i++)

printf("%c",'^');

printf("%c",92);

for(int i=1;i<=n\*2-n/2\*2-4;i++)

printf("%c",'\_');

printf("/");

for(int i=1;i<=n/2;i++)

printf("%c",'^');

printf("%c\n",92);

for(int i=3;i<n;i++)

printf("|%\*c\n",2\*n-1,'|');

printf("|%\*c",(2\*n-2-(n-1)/2-1)/2+1,' ');

for(int i=1;i<=(n-1)/2-1;i++)

printf("%c",'\_');

printf("%\*c\n",(2\*n-2-(n-1)/2)/2+2,'|');

printf("%c",92);

for(int i=1;i<=(2\*n-2-(n-1)/2-1)/2;i++)

printf("%c",'\_');

printf("/");

for(int i=1;i<=(n-1)/2-1;i++)

printf("%c",' ');

printf("%c",92);

for(int i = 1;i<=(2\*n-2-(n-1)/2)/2;i++)

printf("%c",'\_');

printf("/");

Zadacha 12

int n;

printf("n = ");

scanf("%d", &n);

int width = 2 \* n - 1;

int height = 2 \* (n - 2) + 1;

int stars = (width - 3) / 2;

int a=1;

int reverse=1;

for (int i = 0; i < (height - 1) / 2; i++){

butterfly(stars, 0, a);

a= !a;

}

a = 1;

int x=width /2;

printA(x);

for (int i = 0; i < (height - 1) / 2; i++){

butterfly(stars, 1, a);

a = !a;

}\*/

return 0;

}