#include <math.h>

#include <stdlib.h>

#include <stdio.h>

int n;

float a, b, e;

int firstMenu();

void secondMenu();

void thirdMenu();

void lev();

void prav();

double trap();

double par();

double fun\_int\_1();

double fun\_int\_2();

int firstMenu() {

printf("Choose\n");

printf("1. Metod s post sh\n");

printf("2. Metod s perem sh\n");

printf("3. Exit\n");

int num;

scanf("%d", &num);

switch (num)

{

case 1:

secondMenu();

break;

case 2:

thirdMenu();

break;

case 3:

exit(0);

break;

}

}

void secondMenu() {

printf("Choose\n");

printf("1. Metod levih chastey sh\n");

printf("2. Metod ptavyh chastey sh\n");

printf("3. Metod trapecii sh\n");

printf("4. Metod paradoly sh\n");

printf("5. Exit\n");

int num;

scanf("%d", &num);

switch (num)

{

case 1:

lev();

break;

case 2:

prav();

break;

case 3:

trap();

break;

case 4:

par();

break;

case 5:

firstMenu();

break;

}

}

void thirdMenu() {

printf("Choose\n");

printf("1. Metod 1 alg sh\n");

printf("2. Metod 2 alg sh\n");

printf("3. Exit\n");

int num;

scanf("%d", &num);

switch (num)

{

case 1:

fun\_int\_1();

break;

case 2:

fun\_int\_2();

break;

case 3:

firstMenu();

break;

}

}

void prav() {

float h, s, x, res;

h = (b - a) / n;

s = 0;

x = a+h;

while (x <= b)

{

s += exp(x + 2);

x += h;

}

res = h \* s;

printf("\nРезультат = %f", res);

}

void lev() {

float h, s, x, res;

h = (b - a) / n;

s = 0;

x = a;

while (x <= (b - h))

{

s += exp(x + 2);

x += h;

printf("\n %f", s);

}

res = h \* s;

printf("\nРезультат = %f", res);

}

double trap() {

}

double par() {

}

double fun\_int\_1() {

}

double fun\_int\_2() {

}

int main() {

printf("Введите количество разбиений ");

scanf("%d", &n);

printf("\nВведите границы a и b ");

scanf("%f%f", &a, &b);

printf("\nВведите точность e ");

scanf("%f", &e);

firstMenu();

getchar();

return 0;

}