https://github.com/enkidomusic/labs.git

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

int task(0);

do

{

cout << "choose a task. type 0 to exit" << endl;

cin >> task;

switch (task) {

case 1:

{

double a;

cin >> a;

double z = 0.1;

while (z < 1.0) {

cout << a \* z << endl;

z += 0.1;

}

break;

}

case 2:

{

int N;

double p = 1.1, result = 1;

cin >> N;

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

result \*= p;

p += 0.1;

}

cout << result << endl;

break;

}

case 3:

{

int N;

cin >> N;

int p = 1;

int result = 0;

while (p <= N \* 2 - 1) {

result += p;

p += 2;

cout << result << endl;

}

break;

}

case 4:

{

float a;

cin >> a;

int N;

cin >> N;

int power = 0;

int result = 0;

while (power <= N) {

result += pow(a, power);

power++;

}

cout << result << endl;

break;

}

case 5:

{

float a;

cin >> a;

int N;

cin >> N;

int power = 0;

int result = 0;

while (power <= N) {

result += pow(a, power);

power++;

result -= pow(a, power);

power++;

}

cout << result << endl;

break;

}

}

} while (task != 0);

}