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

#include <iostream>

using namespace std;

int main() {

int task;

do {

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

cin >> task;

switch (task) {

case 1:

{

int a, b;

cin >> a >> b;

for (int i = a; i <= b; i++) {

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

cout << i << " ";

}

cout << endl;

}

break;

}

case 2:

{

int a, b;

cin >> a >> b;

int result = a;

do {

result -= b;

} while (result >= 0);

cout << result + b << endl;

break;

}

case 3:

{

int n;

cin >> n;

int result = 0;

int k = 1;

while (result < n) {

result += k;

k++;

}

cout << k << " " << result << endl;

break;

}

case 4:

{

float a = 1000;

float p;

cin >> p;

int k=0;

while (a <= 1100) {

a += a \* p / 100;

k++;

}

cout << k << " " << a << endl;

break;

}

case 5:

{

int a, b;

cin >> a >> b;

while (a != b) {

if (a > b) a -= b;

else b -= a;

}

cout << a << endl;

break;

}

case 6:

{

int n;

cin >> n;

int a = 1, b = 1, c = 2, k = 3;

while (c < n) {

a = b;

b = c;

c = a + b;

k++;

}

cout << k << endl;

}

}

} while (task != 0);

}