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

#include <iostream>

#include <cmath>

using namespace std;

int main() {

int task(0);

do {

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

cin >> task;

switch (task) {

case 1:

{

int N(0);

cin >> N;

int\* n = new int[N];

int a = 1;

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

n[i] = a;

a += 2;

cout << n[i] << " ";

}

cout << endl;

break;

}

case 2:

{

int N(0),A(0),D(0);

cin >> N >> A >> D;

int\* n = new int[N];

int p = 0;

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

n[i] = A \* pow(D, p);

cout << n[i] << " ";

p++;

}

cout << endl;

break;

}

case 3:

{

int N(0), A(0), B(0);

cin >> N >> A >> B;

int\* n = new int[N];

n[0] = A;

n[1] = B;

int summ = A + B;

cout << A << " " << B << " ";

for (int i = 2; i < N; i++) {

n[i] = summ;

cout << n[i] << " ";

summ = summ \* 2;

}

cout << endl;

break;

}

case 4:

{

cout << "tell us how powerful your array is" << endl;

int N;

cin >> N;

cout << "type elements of your array separately" << endl;

int\* n = new int[N];

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

int h;

cin >> h;

n[i] = h;

}

int i = 0;

int j = 0;

int g = 0;

while (i < N - 1) {

cout << n[g] << " ";

cout << n[N - 1 - j] << " ";

j++;

i += 2;

g++;

}

if (i != N) {

cout << n[N - 1 - j] << " ";

}

cout << endl;

break;

}

case 5:

{

cout << "tell us how powerful your array is" << endl;

int N;

cin >> N;

cout << "type elements of your array separately" << endl;

int\* n = new int[N];

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

int h;

cin >> h;

n[i] = h;

}

int i = 0;

while (i < N-1) {

cout << n[i] << " ";

i += 2;

}

if (i != N) {

cout << n[i] << " ";

}

cout << endl << " ";

int j(1);

while (j < N - 1) {

cout << n[j] << " ";

j += 2;

}

if (j != N) {

cout << n[j] << " ";

}

cout << endl;

break;

}

}

} while (task != 0);

}