Text

Description automatically generated

// Hello, your computer has virus.

// Author: Kenry Yu, Olenka Bilinska, Diego Garcia, Brianna Soriano

// Demo time: 4:52 PM

#include <iostream>

#include <limits.h>

#include <string>

using namespace std;

int safeAdd(int x, int y) {

int result = x + y;

if ((x > 0 && y > 0 && result < 0) || (x < 0 && y < 0 && result > 0)) {

throw string("Overflow detected at " + to\_string(x) + " + " + to\_string(y));

}

return result;

}

int main() {

int array1[4] = {INT\_MAX, INT\_MAX, 1, 42};

int array2[4] = {INT\_MAX, 1, 200, 1200};

for (int i = 0; i < 4; i++) {

try {

int result = safeAdd(array1[i], array2[i]);

cout << array1[i] << " + " << array2[i] << " = " << result << endl;

} catch (const string &error) {

cout << error << endl;

}

}

return 0;

}