#include<iostream>

//#include <bits/stdc++.h>

#include<stdexcept>

using namespace std;

int safeAdd(int num1, int num2)

{

int sum = num1 + num2;

if (num1 >= INT\_MAX || num2 > INT\_MAX)

{

throw overflow\_error("Integer overflow error in safeAdd function");

}

return sum;

}

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 sum = safeAdd(Array1[i],Array2[i]);

cout << Array1[i] << "+" << Array2[i] << "=" << sum << endl;

}

catch(overflow\_error& e ) {

cout << Array1[i] << endl;

cout << Array2[i] << endl;

cout << e.what() << endl;

}

}

}

A screenshot of a computer

Description automatically generated

Demonstrated at 11:13 am on 12/7/2021