// C++ program to print largest contiguous array sum

#include<iostream>

#include<climits>

using namespace std;

int maxSubArraySum(int a[], int size)

{

    int max\_so\_far = INT\_MIN, max\_ending\_here = 0,

       start =0, end = 0, s=0;

    for (int i=0; i< size; i++ )

    {

        max\_ending\_here += a[i];

        if (max\_so\_far < max\_ending\_here)

        {

            max\_so\_far = max\_ending\_here;

            start = s;

            end = i;

        }

        if (max\_ending\_here < 0)

        {

            max\_ending\_here = 0;

            s = i + 1;

        }

    }

    cout << "Maximum contiguous sum is "

        << max\_so\_far << endl;

    cout << "Starting index "<< start

        << endl << "Ending index "<< end << endl;

}

/\*Driver program to test maxSubArraySum\*/

int main()

{

    int a[] = {-2, -3, 4, -1, -2, 1, 5, -3};

    int n = sizeof(a)/sizeof(a[0]);

    int max\_sum = maxSubArraySum(a, n);

    return 0;

}