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

#include <bits/stdc++.h>

using namespace std;

int maxSubArraySum(int a[], int size)

{

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

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

max\_ending\_here = max\_ending\_here + a[i];

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

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

if (max\_ending\_here < 0)

max\_ending\_here = 0;

}

return max\_so\_far;

}

// Driver Code

int main()

{

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

int n = sizeof(a) / sizeof(a[0]);

// Function Call

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

cout << "Maximum contiguous sum is " << max\_sum;

return 0;

}