

```

1  /*Author: Bochen (mddboc@foxmail.com)
2  Last Modified: Tue Apr 10 22:28:45 CST 2018*/
3
4  /*Find the contiguous subarray within an array (containing at least one number)
   which has the largest sum.
5
6  .....For example, given the array [-2,1,-3,4,-1,2,1,-5,4],
7  .....the contiguous subarray [4,-1,2,1] has the largest sum = 6.*/
8
9
10 import java.util.*;
11 import java.lang.Math;
12 import java.lang.System;
13 import java.lang.Integer;
14
15
16 public class Main {
17
18     ....public static void main(String[] args) throws ArithmeticException {
19
20         .....int[] input = {7, -1, -5, -3, -6, -4};
21
22         .....Solution solution = new Solution();
23
24         .....int result = solution.maxProfit(input);
25
26         .....System.out.println("haha");
27     }
28
29 }
30
31
32 class ListNode {
33     ....int val;
34     ....ListNode next;
35
36     ....ListNode(int x) {
37         .....val = x;
38     }
39 }
40
41
42 class TreeNode {
43     ....int val;
44     ....TreeNode left;
45     ....TreeNode right;
46
47     ....TreeNode(int x) {
48         .....val = x;
49     }
50 }
51
52
53 class Solution {
54     ....public int maxSubArray(int[] nums) {
55
56         .....int numsLength = nums.length;
57         .....int result = nums[0];
58         .....int tempSum = 0;
59
60         .....for (int i = 0; i < numsLength; i++) {
61
62             .....result = Math.max(result, tempSum + nums[i]);
63             .....tempSum = Math.max(tempSum + nums[i], 0);
64         }
65
66         .....return result;
67     }
68 }

```