Given an integer array arr, find the contiguous subarray (containing at least one number) which  
has the largest sum and returns its sum and prints the subarray.

**Example 1:**

**Input:** nums = [-2,1,-3,4,-1,2,1,-5,4]

**Output:** 6

**Explanation:** The subarray [4,-1,2,1] has the largest sum 6.

**Example 2:**

**Input:** nums = [1]

**Output:** 1

**Explanation:** The subarray [1] has the largest sum 1.

**Example 3:**

**Input:** nums = [5,4,-1,7,8]

**Output:** 23

**Explanation:** The subarray [5,4,-1,7,8] has the largest sum 23.

class Solution {

    public int maxSubArray(int[] nums) {

        int sum = 0;

        int max = Integer.MIN\_VALUE;

        int n = nums.length;

        for(int i = 0 ; i < n; i++){

            sum += nums[i];

            max = Math.max(sum , max);

            if(sum < 0) sum = 0;

        }

        return max;

    }

}