**Equilibrium Point**

Given an array A of n positive numbers. The task is to find the first Equilibrium Point in an array.   
Equilibrium Point in an array is a position such that the sum of elements before it is equal to the sum of elements after it.

**Note: Retun the index of Equilibrium point. (1-based index)**

**Example 1:**

**Input:**

n = 5

A[] = {1,3,5,2,2}

**Output:** 3

**Explanation:**

equilibrium point is at position 3

as elements before it (1+3) =

elements after it (2+2).

class Solution {

// a: input array

// n: size of array

// Function to find equilibrium point in the array.

public static int equilibriumPoint(long arr[], int n) {

// Your code here

if(n==1)

return n;

else{

long sum1=arr[0];

long sum2=0;

for(int i=2;i<n;i++)

sum2=sum2+arr[i];

if(sum1==sum2)

return 2;

else{

for(int i=1;i<n-2;i++){

sum1=sum1+arr[i];

sum2=sum2-arr[i+1];

if(sum1==sum2)

return i+2;

}

}

}

return -1;

}

}