equilibrium index of array:

import java.io.\*;

class GFG {

public static void main (String[] args) {

int arr[]={-7, 1, 5, 2, -4, 3, 0};

int sum=0,leftsum=0;

for(int i=0;i<arr.length;i++)

sum=sum+arr[i];

for (int i = 0; i < arr.length; ++i) {

sum -= arr[i]; // sum is now right sum for index i

if (leftsum == sum)

System.out.println(i);

leftsum += arr[i];

}

}

}

Output : index 3