

Problem J Sandra and The Golden Coins

Input: STDIN
Output: STDOUT

There exists N bags of gold each of which contains B_i golden coins ($1 \le i \le N$). Sandra has to collect at least S golden coins but she does not have much time. So she decided to pick K consecutive bags starting from a random index j ($1 \le j \le N - K + 1$).

Help Sandra find the minimum integer K so that whatever index j she chooses, it is guaranteed that the sum of coins she will collect ($b_j + ... + b_{j+k-1}$) be greater than or equal to S.

If Sandra is unable to collect at least S golden coins, print «impossible».

The first line contains two integers: N ($1 \le N \le 10^5$) the number of bags, and S ($1 \le S \le 10^6$) the required amount of golden coins. The second line contains N integers $B_1 ... B_N$ ($0 \le B_i \le 10^5$) representing the number of coins in the i-th bag.

Print K if it exists and "impossible" if it doesn't.

	EX 1	INPUT	OUTPUT
		8 5 1 0 4 5 0 0 2 1	5
	EX 2	INPUT	OUTPUT
		4 10	impossible

Note that the input method specified in the top of this paper is the standard input(stdin). Use these bits of code according to the programming

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language you are using to be able to read from the stdin. C++:

int mylnteger; string myString;

cin >> myInteger>> myString; // read an integer then a string

Java (use the following Scanner object):

Scanner sc = new Scanner (System.in);

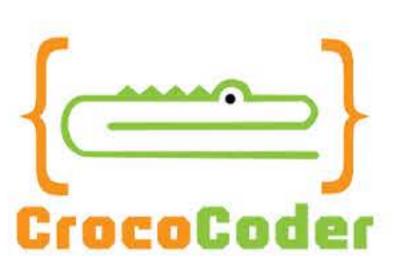
int myInteger = sc.nexInt(); // read an integer
String myString = sc.next(); // read a string

sc.close();









NOTE