

Problem J

404

Input : STDIN

Output : STDOUT

"Dark souls" is known to be one of the hardest video games ever played. To live up to her title, Nawres, the challenge seeker, decided to beat this game. Nawres is now on a quest to kill N monsters and earn S gold. Each monster is worth P_i gold. As her teammate, help her find the minimum value K so that whatever index j ($1 \leq j \leq N - K + 1$) she chooses, it's guaranteed that the sum of gold earned consecutively ($P_j + \dots + P_{j+K-1}$) from monster j to monster j+K-1 be greater than or equal to S.

IN	$1 \leq N \leq 10^5$
	$1 \leq S \leq 10^6$
	$0 \leq P_i \leq 10^5$

OUT	Print k if it exists and "impossible" if it doesn't.
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EX 1	INPUT	OUTPUT
	8 5 1 0 4 5 0 0 2 1	5

NOTE	<p>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 language you are using to be able to read from the stdin.</p> <p>C++:</p> <pre>int myInteger; string myString; cin >> myInteger >> myString; // read an integer then a string</pre> <p>Java (use the following Scanner object):</p> <pre>Scanner sc = new Scanner(System.in); int myInteger = sc.nextInt(); // read an integer String myString = sc.next(); // read a string sc.close();</pre>
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