1 Problem Statement.

Sandra is a strong independant woman. she loves shopping so much that she decided to spend at least S dinars to buy clothes.

there are n different dresses each one with a price p_i ($1 <= i <= n$). Help Sandra find the minimum integer k so that whatever index j ($1 <= j <= n - k + 1$) she chooses it is guaranteed that the sum of coins she will collect (p_j + ... + p_{j+k-1}) will be greater than or equal to S. if Sandra can never collect more than the sum S print "impossible"

2 Input.

you will be given as input n ($1 <= n <= 10^5$) the number of dresses. S ($1 <= S <= 10^6$) the amount she has to spend. and n numbers p_i ($0 <= p_i <= 10^5$) representing the price of the i-th dress.

3 Output.

print k if it exists and "impossible" if it doesn't exist.

4 Examples.

4.1 example 1

Input:

```
8 5
1 0 4 5 0 0 2 1
```

Output:

```
5
```

4.2 example 2

Input:

```
6 1
1 1 1 1 1 1
```

Output:

```
1
```

4.3 example 3

Input:

```
4 10
3 1 1 2
```

Output:

```
impossible
```