**Gas Stations**

Attempted by: **649**

/

Accuracy: **84%**

/

Maximum Score: **20**

/

3 Votes

Tag(s):

Easy, Math

**PROBLEM**

**EDITORIAL**

**MY SUBMISSIONS**

**ANALYTICS**

Xenny's is competing in a race and his car has XX litres of fuel. There are NNmilestones in the competition. It takes no fuel at all to travel between  gas stations, but at the ithith gas station, PiPi amount of petrol is drained.

Find the number milestones Xenny crosses before his car gets out of fuel.

**Input**

The first line of input consists of 2 space-separated integers - NN and XX.

The second line contains NN space-separated integers - PiPi

**Output**

Print a single integer - the number of milestones Xenny crosses.

**Constraints**

1≤N≤1001≤N≤100

1≤X≤1091≤X≤109

1≤Pi≤1091≤Pi≤109

**SAMPLE INPUT**

60 7

1 13 5 6 3 5 10 7 1 8 9 3 1 4 11 9 7 9 1 11 13 11 8 4 11 11 10 2 10 13 12 8 11 1 9 4 10 8 7 1 3 2 10 12 5 5 10 10 7 7 7 12 4 2 1 7 12 9 5 5

**SAMPLE OUTPUT**

2

**Explanation**

Initial fuel = 7

After visiting the first station, the fuel left is 6 litres.

After visiting the second station, no fuel is left as all of it is drained out.

Hence, 2 stations are visited.

**Time Limit:**1.0 sec(s) for each input file.

**Memory Limit:**256 MB

**Source Limit:**1024 KB

**Marking Scheme:**Marks are awarded when all the testcases pass.

**Allowed Languages:**C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala 2.11.8, Swift, Visual Basic

<https://www.hackerearth.com/practice/math/number-theory/basic-number-theory-1/practice-problems/algorithm/gas-stations-1/>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

string[] input = Console.ReadLine().Split(' ');

int n = int.Parse(input[0]);

int x = int.Parse(input[1]);

int[] arr = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));

int cont = 0;

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

{

x -= arr[i];

cont++;

if (x <= 0)

{

break;

}

}

Console.WriteLine(cont);

Console.ReadLine();

}

}

}