The annual dance competition is going to be held in your city, and you are the person in charge of preparing the dance floors for the competitors. So that they can show off their sweet moves, each dancer will be given a dancefloor with some digits written on it, and their objective is to move according to these digits.

Given a dancefloor, you need to figure out how many moves a dancer will make on it. The dancers must abide by the following rules:

1. Their initial position is at 0 - i.e. the dancer starts at dancefloor[0].
2. The dancer's next position is determined by their current position. If their current position is i: The dancer should make dancefloor[i] steps forward on the dancefloor if dancefloor[i] is even, and dancefoor[i] steps backwards otherwise.
3. If dancefloor[i] is 0, the dancer finishes their performance.
4. If the dancer leaves the dancefloor, they finish their performance.

Given the dancefloor, calculate the number of steps a dancer will make on it. If a dancer will never be able to stop their performance on a dancefloor, return -1instead.

**Example**

For dancefloor = "207", the output should be  
danceSteps(dancefloor) = 4.

This dancer starts at dancefloor[0] = '2'. Since 2 is even, they will make two steps forward and end up at dancefloor[2] = '7'. 7 is odd, so the dancer should make 7 steps backwards. Since the dancer cannot go this far backwards, they leave the dance floor. Thus, the dancer makes 2 + 2 = 4 steps on this dancefloor.

**Input/Output**

* **[time limit] 6000ms (cs)**
* **[input] string dancefloor**

*Constraints:*  
1 ≤ dancefloor.length ≤ 50.

* **[output] integer**

The number of dance moves a dancer can make on the given dancefloor.

<https://codefights.com/challenge/LSDiZwGRgCHHao9WN>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static int danceSteps(string dancefloor)

{

int steps = 0;

int i = 0;

HashSet<int> indices = new HashSet<int>();

while (true)

{

int paso = int.Parse(dancefloor[i].ToString());

if (paso == 0)

{

return steps;

}

else if (paso % 2 == 0)

{

if (i + paso >= dancefloor.Length)

{

steps += dancefloor.Length - (i+1);

}

else

{

steps += paso;

}

i += paso;

if (indices.Contains(i))

{

return -1;

}

indices.Add(i);

}

else

{

if (i - paso < 0)

{

steps += i;

}

else

{

steps += paso;

}

i -= paso;

if (indices.Contains(i))

{

return -1;

}

indices.Add(i);

}

if (i < 0 || i >= dancefloor.Length)

{

break;

}

}

return steps;

}

static void Main(string[] args)

{

// string dancefloor = "207";

//string dancefloor = "8";

// string dancefloor = "221";

// string dancefloor = "211";

string dancefloor = "200";

Console.WriteLine(danceSteps(dancefloor));

Console.ReadLine();

}

}

}