Siavash is writing algorithms for micro-robots that perform some manipulations on the given DNA sequences. The current robot should be able to do the following:

For each DNA sequence in the given list ofsequences of length n the robot should:

* replace each part of the sequence with its peer ('A' with 'T' and vice versa, and 'C' with'G' and vice versa);
* reverse the sequence.

Implement the function with which the robot should be programmed.

**Example**

For n = 2 and sequences = ["AGCT", "AG"], the output should be  
geneticMicroRobots(n, sequences) = ["AGCT", "CT"].

"AGCT" should be turned into "TCGA" and then back to "AGCT" again.  
"AG" should be turned into "TC" and then to"CT".

**Input/Output**

* **[time limit] 3000ms (cs)**
* **[input] integer n**

The number of sequences the micro-bot should fix.

*Constraints:*  
1 ≤ n ≤ 100.

* **[input] array.string sequences**

Array of strings, where each string consists of letters 'A', 'G', 'C' and 'T' only.

*Constraints:*  
sequences.length = n,  
1 ≤ sequences[i].length ≤ 100.

* **[output] array.string**

Array of length n, the modified sequences in the order they were given.

<https://codefights.com/challenge/uvH5mv6iMwm7mwKJs/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

string[] geneticMicroRobots(int n, string[] sequences)

{

List<string> answer = new List<string>();

foreach (string s in sequences)

{

string nueva = "";

foreach (char ch in s)

{

if (ch == 'A')

{

nueva += 'T';

}

else if (ch == 'T')

{

nueva += 'A';

}

else if (ch == 'C')

{

nueva += 'G';

}

else if (ch == 'G')

{

nueva += 'C';

}

}

char[] rev = nueva.ToCharArray();

Array.Reverse(rev);

answer.Add(new string(rev));

}

return answer.ToArray();

}