**Number climber**

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C#

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For every positive integer N, there exists a unique sequence starting with 1 and ending with N and such that every number in the sequence is either the double of the preceeding number or the double plus 1.

For example, given N = 13, the sequence is [1, 3, 6, 13], because . . . :

3 = 2\*1 +1

6 = 2\*3

13 = 2\*6 +1

Write a function that returns this sequence given a number N. Try generating the elements of the resulting list in ascending order, i.e., without resorting to a list reversal or prependig the elements to a list.

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public static int[] Climb(int n)

{

List<int> lista = new List<int>();

while (n >= 1)

{

lista.Insert(0, n);

n /= 2;

}

return lista.ToArray();

//return new int[0];

}