

Fibonacci word

The Fibonacci Word Sequence may be created in a manner analogous to the Fibonacci Sequence, but it focuses on iterating concatenation.

Define F_Word_1 as **1**





Define F_Word_2 as **0**

Form F_Word_3 as F_Word_2 concatenated with F_Word_1
i.e.: **01**

Form F_Word_n as F_Word_{n-1} concatenated with F_word_{n-2}

Entropy calculation is required in this challenge, [as shown in this Rosetta Code challenge](#)

Write a function to return the first n Fibonacci Words. The number of n is provided as a parameter to the function. The function should return an array of objects. The objects should be of the form: { N: 1, Length: 1, Entropy: 0, Word: '1' }. Entropy is computed for the string Word and rounded to 8 decimal digits of accuracy. Note that the indices of this sequence start at 1.

	<code>fibWord</code> should be a function .
	<code>fibWord(5)</code> should return an array .
	<code>fibWord(5)</code> should return [{ N:1, Length:1, Entropy:0, Word:"1" }, { N:2, Length:1, Entropy:0, Word:"0" }, { N:3, Length:2, Entropy:1, Word:"01" }, { N:4, Length:3, Entropy:0.91829583, Word:"010" }, { N:5, Length:5, Entropy:0.97095059, Word:"01001" }].
	<code>fibWord(7)</code> should return [{ N:1, Length:1, Entropy:0, Word:"1" }, { N:2, Length:1, Entropy:0, Word:"0" }, { N:3, Length:2, Entropy:1, Word:"01" }, { N:4, Length:3, Entropy:0.91829583, Word:"010" }, { N:5, Length:5, Entropy:0.97095059, Word:"01001" }, {

	<pre>N:6, Length:8, Entropy:0.954434, Word:'01001010' , { N:7, Length:13, Entropy:0.9612366, Word:'0100101001001' }].</pre>
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