

Report

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The included folders consists of the Python 2 script, C source code (in the required questions) as well as an Ipython notebook for each question describing what is being done in the code.

Question 1

In this question, an element in the Fibonacci Series is calculated by the formula:

$$a[n] = a[n - 1] + a[n - 2]$$

where 1st & 2nd elements are 1.

Question 2

In this question, the first 1000 elements in the series are calculated using the equation:

$$n[k] = \text{fractional part of } (n[k - 1] + \pi) \times 100$$

where 1st element is 0.2.

Question 3

The given text file is read and the count of each word is calculated using a dictionary (after removing punctuations and making all letters lower case). Then, the 10 most frequent words are displayed.