

Zeckendorf

Zeckendorf's theorem states that every positive integer can be represented as the sum of one or more *distinct* Fibonacci numbers in such a way that the sum does not include any two consecutive Fibonacci numbers. For example, the Zeckendorf representation of 100 is: $89 + 8 + 3$.

Write a method `void zeck(String fileName)` that will print (to the console) the Zeckendorf representation for numbers the number in the file specified by `fileName`. You can find sample input in the "**zeck.txt**" text file, on Canvas. This file contains a number N , how many lines to read, followed by N positive integers. Your output should match the output shown below:

```
120 = 89 + 21 + 8 + 2
34 = 34
88 = 55 + 21 + 8 + 3 + 1
90 = 89 + 1
320 = 233 + 55 + 21 + 8 + 3
```

Note: You must use helper methods. Remember the rule of thumb, "one task, one method".