

SumBigNums.java

```
package euler;

import java.io.*;

/**
 * Finds the sum of the one hundred 50 digits numbers in fiftyDigits.txt
 * @author sulliadfd
 * Project Euler Problem Number 13
 */

public class SumBigNums {
    private static Scanner scanner;
    private static BigDecimal[] digits = new BigDecimal[100];
    private static final int LENGTH = 50;
    private static BigDecimal sol = BigDecimal.ZERO;

    /**
     * @param args
     */
    public static void main(String[] args) {
        go();
    }

    /**
     * Starts the program my initializing scanner
     * @param void
     * @return void
     */
    private static void go() {
        try {
            scanner = new Scanner(new FileReader("fiftyDigits.txt"));
        } catch (FileNotFoundException e) {
            System.out.println("File not found");
            System.exit(0);
        }
        initArray();
    }

    /**
     * Reads numbers into array of BigDecimal
     * @param void
     * @return void
     */
    private static void initArray() {
        int i = 0;
        while (scanner.hasNextLine()) {
            digits[i]=scanner.nextBigDecimal();
            i++;
        }
        addThem();
    }

    /**
     * Adds numbers together
     * @param void
     * @return void
     */
}
```

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```
*/
private static void addThem() {
    for(int i=0;i<digits.length;i++) {
        sol=sol.add(digits[i]);
    }
    win();
}

/**
 * prints solution
 * @param void
 * @return void
 */
private static void win() {
    System.out.println(sol);
}
}
```