Lab Test 3, Set 2

1. Define a recursive method that read lines of text from one file and then output the lines in reserve order in another file.

2. Define a recursive method that displays all n! Permutations of an integer array elements. The main method will accept the number of elements from user and generate the random number within 0 and 9 for the elements of the array. Example output:

```
Enter number of elements: 3
The elements of the array: 436
436
463
346
364
634
643
```

Modify the program above to display the non-duplicate integer. Example output:

```
Enter number of elements: 4
The elements of the array: 5520
5520
5502
5250
5205
5025
5052
2550
2505
2055
0552
0255
0525
520
502
250
205
025
052
```

3. Create a program to display the day, month, year and the name of the day for today date. Write a recursive method to display the name of the day of the past date. (Tip: use the today date as the parameters for the recursive method). Example output:

```
Today Date (dd/mm/yyyy): 13/4/2016
Today is on Wednesday
Search Date (dd/mm/yyyy): 20/8/2015
Search Date is on Thursday
```