JAVA ASSESSMENT – MIDDLE LEVEL

Write a SpringBoot WebMVC REST Service that:

1. Given an array of Objects, returns another array that contains the same elements of the input array in reverse order. The original array must not be changed,
2. Same as (1), but the reversal must be done in-place, that is, the returned array must be the same that was passed as argument to the method.
3. Same as (2), but the argument must be a java.util.List
4. Given a CSV (Comma-separated values) file passed as a java.io.BufferedReader, returns an array of String corresponding to values of the fields

SQL ASSESSMENT

Assume a system with two tables, PARENT and CHILD, with the following content

PARENT:

Id	Name
1	John
2	Paul
3	Mary
4	Lucy
5	Mark

CHILD:

Id	Name	FATHER_ID	MOTHER_ID
1	John	1	3
2	Paul	1	3
3	Lucy	2	4
4	Claire	1	4
5	Simon	NULL	4

Write SpringBoot WebMVC REST Service that returns:

1. A list of all FATHER names
2. All FATHER names that have mor than one child
3. For every CHILD, the name of his/her father and mother, if defined
4. How many children John has
5. How many children Mary has

Obs: You *must* use only SQL-92 statements.