

**Exercise 3 (20 points) : (reminder: to be done in a 3<sup>d</sup> specific \*.js file)**

- 1- (4pt) Create a new function "F31" which calls the previous function "F21" for each line of the table "to\_check". Display a relevant error message in the event of an anomaly, indicating in particular the line number in error and the values of the stations on the line. (see question n ° 4 and example of the anomaly table in the annex).
- 2- (4pt) Repeat the previous operation with a "F32" function which processes each **column** in the "checkbox" table. (see question n ° 4 and example of the anomaly table in the annex).
- 3- (4pt) Repeat the operation again with a function "F33" which deals with each **region** of the table "checkbox". (see question n ° 4 and example of the anomaly table in the annex)

Table regions :

|  |   |  |  |   |  |  |   |  |
|--|---|--|--|---|--|--|---|--|
|  |   |  |  |   |  |  |   |  |
|  | 1 |  |  | 2 |  |  | 3 |  |
|  |   |  |  |   |  |  |   |  |
|  |   |  |  |   |  |  |   |  |
|  | 4 |  |  | 5 |  |  | 6 |  |
|  |   |  |  |   |  |  |   |  |
|  |   |  |  |   |  |  |   |  |
|  | 7 |  |  | 8 |  |  | 9 |  |
|  |   |  |  |   |  |  |   |  |

- 4- (1+2+3pt) "F21" accepting an array as input, for each of questions 1 to 3 you will need to find a simple algorithm allowing you to put the values of the boxes to be checked in the form of a table of 9 positions before calling this function.
- 5- (2pt) Execute these functions via your HTML file "Main" which will use the 3 functions and check the display. (also leave the call to the functions created in exercise 1).

Example of expected display (if anomaly)

|                    |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|
| Line 2 incorrect   | 6 | 6 | 3 | 2 | 8 | 7 | 4 | 5 | 9 |
| Column 3 incorrect | 3 | 3 | 2 | 6 | 5 | 9 | 1 | 8 | 7 |
| Region 1 incorrect | 8 | 2 | 3 | 6 | 6 | 3 | 9 | 7 | 2 |

Display example expected otherwise

→ the table is correct