Rendu de Projet : Nombre de chemins

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Adresse du dépôt GitHub: https://github.com/LucasVaurie/NumberOfPaths

Code:

```
class NumberPaths {
public static int calculChemins(int x, int y, int rows,
                                int cols, int[][] array)
    int[][] cache = new int[rows+1][cols+1];
    for (int i = 0; i <= rows; i++) {
        for (int j = 0; j \leftarrow cols; j++)
            cache[i][j] = -1;
    return calculChemins(x, y, rows, cols, array, cache);
public static int calculChemins(int x, int y, int rows,
                                int cols, int[][] array, int[][] cache)
    if ((x == cols || y == rows) || (array[x][y] == 1))
        return 0;
    if (x == cols-1 \&\& y == rows-1)
        return 1;
    if (cache[x][y] == -1)
        cache[x][y] = calculChemins(x, y+1, rows, cols, array, cache)
                     + calculChemins(x+1, y, rows, cols, array, cache);
    return cache[x][y];
public static void main(String args[])
    Scanner in = new Scanner(System.in);
    int M = in.nextInt();
    int N = in.nextInt();
    int[][] tab = new int[M][N];
    if (in.hasNextLine()) {
        in.nextLine();
    for (int i = 0; i < M; i++) {
        String ROW = in.nextLine();
        for (int j = 0; j < N; j++) {
            tab[i][j] = (int)(ROW.charAt(j)-'0');
    System.out.println(calculChemins(0, 0, M, N, tab));
    in.close();
```