

Exam preparation

Please fill the survey!

- Before we go on, please click on the following link and fill the survey:
- https://maastrichtuniversity.eu.qualtrics.com/jfe/form/SV_0fg8Z9Pat9emPxY

Programming exercises update

- This year we will ask you to explain the strategy to solve the exercise:

Write IN YOUR OWN WORDS, how you would solve the problem. Do not use pseudocode but a high-level explanation of how you plan to solve the problem.

IMPORTANT: This part is only evaluated if you also provide a "good" attempt to implement it in the next question (coding part).

Exercise 1

Question 8. (12 points) Printing out a Matrix diagonally

Write a method `diagonalPrint` that prints a two-dimensional integer array diagonally. For example, the matrix shown below should be printed out as shown:

1	2	3	4
5	6	7	8
9	10	11	12

Required printout:

1 - 5 - 2 - 9 - 6 - 3 - 10 - 7 - 4 - 11 - 8 - 12

Your method should work for any rectangular (i.e. all rows are of equal length, all columns are of equal length) two-dimensional integer matrix.

```
public static void diagonalPrint (int[][] M) {
```

Exercise 2

Question 9. (12 points) Write a method `digitTransformer` that takes in a two-dimensional long array `A` as a parameter and prints to the screen an identically sized array where every element represents the number of digits that form the corresponding element in `A`.

Example: If `A` represents the matrix:

3	-101	94	12	3
777	72	54	33040	4
-444	8898	32	9948	233230021

`digitTransformer(A)` should print

```
1    3    2    2    1
3    2    2    5    1
3    4    2    4    9
```

```
public static void digitTransformer (long[][] A) {
```

Any exam exercise you want to review?

