[CS-107]: Mini-projet 1 (fiche de correction)

Cours CS-107 <cs107@epfl.ch>

lun. 09.12.2019 14:01

À:Zammit Maxime <maxime.zammit@epfl.ch>;

Bonjour,

Voici la fiche de correction de votre premier mini-projet. Merci de la vérifier et d'y consulter les commentaires. Nous sommes à votre disposition pour toute question.

Meilleures salutations. L'équipe du cours CS107

Date: 2019/11/13 14:12:25

Task 1.1 DataEncoding: encodeString

- Encode a long message in all versions (1.0/1.0)
- Encode a long message in version 1 (0.5/0.5)
- Encode a message a maxSize of 0 (0.5/0.5)
- Encode a simple message in all versions (1.0/1.0)
- Encode a simple message in version 1 (0.5/0.5)
- Encode all kind of messages (3.0/3.0)
- Encode an empty String (0.5/0.5)

Points for tests: 7.0/7.0

Points deducted: Justification:

Points added: Justification:

Points for task: 7.0/7.0

Task 1.2 DataEncoding: addInformations

- Add information for a simple array of version 1 (1.0/1.0)
- Add information for maximum array size of all versions (1.5/1.5)
- Add informations for all kind of data (accents, punctuations,...) (4.0/4.0)
- Add informations for data biggers than version 4 (0.5/0.5)
- Add informations for differents array size (1.5/1.5)
- Add informations for empty data array (0.5/0.5)

Points for tests: 9.0/9.0

Points deducted: Justification:

Points added: Justification:

Points for task: 9.0/9.0

Task 1.3 DataEncoding: fillSequence

- Fill a simple input for all version (1.0/1.0) - Fill a simple input for version 1 (1.0/1.0) - Fill any possible input (3.0/3.0) - Fill the smallest possible input (0.5/0.5) - Input is already filled all versions (1.0/1.0) - Input is already filled version 1 (0.5/0.5) Points for tests: 7.0/7.0 Points deducted: Justification: Points added: Justification: Points for task: 7.0/7.0 Task 1.4 DataEncoding: addErrorCorrection - Add different level of error correction for the same data (1.0/1.0) - Add error correction for all QRcode versions (4.0/4.0) - Add error correction for no data (1.0/1.0) Points for tests: 6.0/6.0 Points deducted: Justification: Points added: Justification: Points for task: 6.0/6.0 _____ Task 1.5 DataEncoding: bytesToBinaryArray - Convert 2 bytes to binary (1.0/1.0) - Convert any sequence of bytes to binary (3.0/3.0) - Convert byte 0 to binary (0.5/0.5) - Convert one byte to binary (1.0/1.0) - Empty array as input (0.5/0.5) Points for tests: 6.0/6.0 Points deducted: Justification: Points added: Justification: Points for task: 6.0/6.0 _____ Task 1.6 DataEncoding: byteEncoding - Encode a message in all versions (3.0/3.0) - Encode a message in version 1 (2.0/2.0)

Points for tests: 5.0/5.0

Points deducted:

Justification:

Points added: Justification:

Points for task: 5.0/5.0
Task 2.0 MatrixConstruction: Black and White constants - Black is defined (0.0/1.0) - Constant are final (0.0/0.5) - Constants are statics (0.0/0.5) - White is defined (0.0/1.0)
Points for tests: 0.0/3.0
Points deducted: Justification:
Points added: 2.5 Justification: Les tests ne fonctionne que en présence de contantes publiques, la résolution de ce problème permet de faire tests (malus : -0.5).
Points for task: 2.5/3.0
Task 2.1 MatrixConstruction: initializeMatrix - Initialize matrix of version 1 (1.0/1.0) - Initialize matrix of versions 2-4 (3.0/3.0)
Points for tests: 4.0/4.0
Points deducted: Justification:
Points added: Justification:
Points for task: 4.0/4.0
Task 2.2 MatrixConstruction: addFinderPatterns - Add finder patterns for version 1 (2.0/2.0) - Add finder patterns for versions 2-4 (4.0/4.0)
Points for tests: 6.0/6.0
Points deducted: Justification:
Points added: Justification:
Points for task: 6.0/6.0
Task 2.3 MatrixConstruction: addAlignementPatterns - Add alignment patterns for all versions (6.0/6.0)
Points for tests: 6.0/6.0
Points deducted: Justification:
Points added: Justification:

Points for task: 6.0/6.0

passer tout les

Task 2.4 MatrixConstruction: addTimingPatterns - Add timing pattern for version 1 (2.0/2.0) - Add timing pattern for versions 2-4 (4.0/4.0) Points for tests: 6.0/6.0 Points deducted: Justification: Points added: Justification: Points for task: 6.0/6.0 _____ Task 2.5 MatrixConstruction: addDarkModule - Add dark module for version 1 (1.0/1.0) - Add dark module for version 2-4 (2.0/2.0) Points for tests: 3.0/3.0 Points deducted: Justification: Points added: Justification: Points for task: 3.0/3.0 Task 2.6 MatrixConstruction: addFormatInformations - Add format for version 0 and all masks (2.0/2.0) - Add format for version 1 and mask 0 (1.0/1.0) - Add format for versions 2-4 and all mask (3.0/3.0) - Add format for versions 2-4 and mask 0 (1.0/1.0) Points for tests: 7.0/7.0 Points deducted: Justification: Points added: Justification: Points for task: 7.0/7.0 Task 2.7 MatrixConstruction: constructMatrix - Construct matrix for version 1 all masks (0.5/0.5) - Construct matrix for version 1 mask 0 (0.5/0.5) - Construct matrix for versions 2-4 and all masks (3.0/3.0) - Construct matrix for versions 2-4 and mask 0 (1.0/1.0) Points for tests: 5.0/5.0 Points deducted: Justification: Points added: Justification: Points for task: 5.0/5.0

Task 3.1 MatrixConstruction: maskColor

- Mask 0 (0.75/0.75) - Mask 1 (0.75/0.75) - Mask 2 (0.75/0.75) - Mask 3 (0.75/0.75) - Mask 4 (0.75/0.75) - Mask 5 (0.75/0.75) - Mask 6 (0.75/0.75) - Mask 7 (0.75/0.75) - Mask Invalid (0.5/0.5) Points for tests: 6.5/6.5 Points deducted: Justification: Points added: Justification: Points for task: 6.5/6.5 Task 3.2 MatrixConstruction: addDataInformations - Add data for version 1 and all masks (2.0/2.0) - Add data for version 1 mask 0 (1.0/1.0) - Add data for version 2 and all masks (2.0/2.0) - Add data for version 2 mask 0 (1.0/1.0) - Add data for version 3 and all masks (2.0/2.0) - Add data for version 3 mask 0 (1.0/1.0) - Add data for version 4 and all masks (2.0/2.0) - Add data for version 4 and mask 0 (1.0/1.0) - Matrix with no data for all versions and all masks (1.0/1.0) - Matrix with no data version 1 mask 0 (0.5/0.5) Points for tests: 13.5/13.5 Points deducted: Justification: Points added: Justification: Points for task: 13.5/13.5 Task Bonus: QR code Evaluation - Evaluate a QR code (Bonus: 6.0/6.0) - Find best mask (Bonus: 2.0/2.0)

Points for tests: 8.0/0.0

Points deducted: Justification:

Points added: Justification:

Points for task: 8.0/0.0

General remarks:

Très bon travail! Le code est commenté, modulaire et respecte les conventions. Bravo.

Points: 107.5/100.0
