

Project One Assignment

Math Quiz Generator & Solver

Dr. 何明昕, He Mingxin, Max

c.max @ yeah.net

Email Subject: SE-*yourID-Name: TOPIC*

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Software Engineering

Project One Assignment: Math Quiz Generator & Solver Mar. 15

You are asked to finish the following 3 (at least 2) programs (**Task 3 is optional**) in any programming languages:

Task 1. A Math Quiz Generator. It should generate primary school level Math Quiz(questions) according to the requirement specified in a input text file / json file / XML file / property file, and output the quiz (problems) generated in a text file. The problems should cover + - * / operations in integers, fractions and fix-point numbers with given ranges. A fraction could be represented as 3|7 or 23_1|11. Quizzes are something like:

$$[3] \quad 171 / 9 =$$

$$[8] \quad 123_3|5 - 19_4|7 =$$

$$[15] \quad 3.14159 * 3_1|2 * 2 =$$

$$[21] \quad 3|8 * 5_2|7 + 2_1|2 / 0.618 =$$

(Tips: You may design a special ID to identify problem type & problem itself for every problem.)

Task 2. A Math Quiz Solver. It read the problems generated by **Task 1** and output a reference answer text file that contains problems & answers.

Task 3 (Optional). A Math Answer Checker. It read an exam paper text file including problems with answers given by students, check all answers one by one, add a CORRECT or WRONG mark for every problem, and output a text file based on the input paper with checking marks (CORRECT or WRONG).

Please send your work with specification & running results (zipped to one file with your name & ID) to **c.max@yeah.net** before **April 11**.

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Questions?