## DATA ACCESS METHOD USAGE FOR MATHTG

This is a top-level view of how to use the access methods for the test data for MathTG test generator.

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Question getSpecificQuestion(File database, int ID)

throws Exception if database does not exist

throws Exception if ID does not exist within inFile

returns question from database with given ID

Question getRandomQuestion(File database, String subject, int difficulty)
throws Exception if database does not exist
throws Exception if subject does not exist
within database

returns a randomly selected Question object from database within given subject

void addQuestion(File database, String subject, String section,
String topic, String difficulty, String htmlQ,
String htmlChoices, String htmlAnswer,
String latexInstructions, String latexQuestion,
String jeopardyQuestion, String jeopardyAnswer,
String instructions)

adds a question to the xml file with the supplied parameters, generating a valid ID for the question creates database file if non-existent

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void removeQuestion(File database, int ID)

throws Exception if database does not exist throws Exception if ID does not exist within database

deletes the question associated with the given ID

throws Exception if ID does not exist within database throws Exception if fieldName does not exist

finds question with given ID, and changes the value in field
 fieldName(ex: "subject", "answer", "latex\_instructions")
 to newValue

\*note: can be used in tandem with getQuestion for GUI implementation

Question[] browse(File database, String[] subject)
throws Exception if database does not exist
throws Exception if a subject does not exist

returns a set of questions matching the given subjects, can take multiple subject inputs at once