1. **Write all classes in the class Diagram to support for the following requirements.**
   - A **Question** should have a question, multiple choices, a correct answer choice, and a complexity level.
   - You should be able to get and set the **question** and the complexity level.
   - You should be able to set the **correct answer** choice.
   - You can add an **answer choice** into the **question** and replace a new **choice item** at a specified **choice number**.
   - You can check the **correct answer** choice with the **given choice** from a user.
   - Each a**nswer choice** in the **question** should have a **choice number** and **choice item**.
   - You should be able to *get* and *set* the **choice number** and **choice item**.
   - You should be able to *match* this choice and the **given choice** by comparing both **choice number** and **choice item**.

   Here is an example of a **question** that you may think of.

   ┌───┐
   │   **Question**   │
   │ **Question:** What is not an animal?   │
   │   │
   │ **Complexity Level [1-3]:** 1   │
   │   │
   │ **Correct Answer:**   │
   │   │
   │ **Choices:**   │
   └───┘

Choice	**Choice**	**Choice**	**Choice**
choiceNo: 1 **choiceItem:** car	**choiceNo:** 2 **choiceItem:** zebra	**choiceNo:** 3 **choiceItem:** cat	**choiceNo:** 4 **choiceItem:** dog

   ```
   class Question

   - question: String
   - complexityLevel: int
   - choices: Choice[]
   - correctAnswer: Choice

   +Question()
   +Question (String question, int complexityLevel, int
   numOfChoices)
   +getQuestion(): String
   +getChoices(): Choice[]
   +getComplexityLevel(): int
   +setComplexityLevel(int complexLevel): void
   +setQuestion(String question): void
   +setCorrectAnswer(Choice correctChoice): void
   +addChoice(int choiceNo, String choiceItem): boolean
   +replaceChoice(int choiceNo, String choiceItem): boolean
   +checkAnswer(Choice userChoice): boolean
   +toString(): String
   ```

   ```
   class Choice

   - choiceNo: int
   - choiceItem: String

   +Choice()
   +Choice(int choiceNo, String choiceItem)
   +getChoiceNo(): int
   +getChoiceItem(): String
   +setChoiceNo(int choiceNo): void
   +setChoiceItem(String choiceItem): void
   +isMatch(Choice userChoice):boolean
   +toString(): String
   ```