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# **pytexexam**

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## PYTEXEXAM MAIN CLASS

```
class pytexexam.answer.Answer (answer: str = "", is_true_answer=False)
```

This class is used to store 1 answer in a exam question.

```
class pytexexam.question.Question (question: str)
```

This class represents one question on the test.

```
answer_a (answer: str, true_answer=False)
```

This method is used to enter answer A for the question.

### Parameters

- **answer** – Content of the answer A
- **true\_answer** – If this is the correct answer then enter True. otherwise False

```
answer_b (answer: str, true_answer=False)
```

This method is used to enter answer B to the question.

### Parameters

- **answer** – Content of the answer B
- **true\_answer** – If this is the correct answer then enter True, otherwise False

```
answer_c (answer: str, true_answer=False)
```

This method is used to enter answer C to the question.

### Parameters

- **answer** – Content of the answer C
- **true\_answer** – If this is the correct answer then enter True, otherwise False

```
answer_d (answer: str, true_answer=False)
```

This method is used to enter answer D for the question.

### Parameters

- **answer** – Content of the answer D
- **true\_answer** – If this is the correct answer then enter True, otherwise False

```
answers (true_answer: str, answer_dict: Dict[str, str])
```

Another way to enter answers to questions.

### Parameters

- **true\_answer** – The letter that corresponds to the correct answer (A, B, C, D)
- **answer\_dict** – A dictionary contains the answers to the questions. The corresponding key of this dictionary is A, B, C, D.

**get\_answer** (*answer\_key: str*) → str

This method is used to get answers to questions.

**Parameters** **answer\_key** – The key corresponding to the answer of the question.

**Returns** The answer corresponds to the selected answer.

**get\_answer\_column** () → int

This method returns the number of columns where the answer will be presented when the question is printed. The function can return 1, 2, 4.

**Returns** The number of columns the answer will be displayed when the question is printed

**get\_true\_answer** () → str

This method returns the character corresponding to the correct answer of the question. The possible answer are A, B, C, D.

**Returns** The letter corresponding to the correct answer of the question

**question = None**

Content of the question.

**set\_answer\_column** (*answer\_column: int*)

This method allows you to enter the number of columns where the answer will be displayed when printing the question. The possible values are 1, 2, 4

**Parameters** **answer\_column** – The number of columns the answer will be displayed when printed.

**shuffle\_answer** ()

The method that allows the swap answers in question.

**solution** (*solution: str*)

This method is used to enter detailed answer to the question

**class** pytexexam.exam.**Exam** (*question\_list: List[question.Question]*)

This class represents an exam.

**question\_list = None**

List of questions in the exam

**shuffle\_question** ()

This method allows to shuffle all the questions in the exam.

**class** pytexexam.latexexam.**LatexExam** (*exam\_title: str, exam: exam.Exam*)

This class represents a exam, allowing users to print the exam and answer to a tex file or pdf (with latex pre-installed)

**add\_user\_preamble** (*preamble: str*)

Added preamble of latex file

**exam\_content = None**

The content of the exam

**exam\_header = None**

The presentation of the exam's header

**exam\_title = None**

Exam name

**export\_pdf\_answer** (*file\_name: str*)

This method export the answer as a tex file.

**Parameters** **file\_name** – The file name will output.

**export\_pdf\_exam** (*file\_name: str*)

This method export the exam as a pdf file.

**Parameters** **file\_name** – The file name will output.

**export\_pdf\_solution** (*file\_name: str*)

Export a file containing detailed answers for each question in the exam

**export\_tex\_answer** (*file\_name: str*)

This method export the answer as a tex file.

**Parameters** **file\_name** – The file name will output.

**export\_tex\_exam** (*file\_name: str*)

This method proposed exam as a tex file.

**Parameters** **file\_name** – The file name will output.

**export\_tex\_solution** (*file\_name: str*)

Export a file containing detailed answers for each question in the exam

**question\_theorem = None**

The content of the beginning of each question will be printed

**solution\_theorem = None**

The content of the beginning of each detailed answer will be printed

**user\_preamble = None**

Preamble of the latex file corresponds to the exam





## PYTEXEXAM UTIL CLASS

`pytexexam.latexexamutil.ams_math_package()` → str  
Returns the command lines needed to type math formula in latex



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