
pytexexam

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PYTEXEXAM BUILDER CLASS

```
class pytexexam.builder.ExamExportType (value)
```

Class present all export exam options: PDF and TEX

```
class pytexexam.builder.LatexExamBuilder
```

Builder class to create exam, answer and solution paper

```
add_question (question: str, answer: List[str], true_answer: str, answer_column: int, solution: str = "")
```

Add question to exam

Parameters

- **question** – question stem
- **answer** – List of answers in order A, B, C, D
- **true_answer** – Answer key of true answer.
- **answer_column** – Number of columns used to present the answer
- **solution** – Solution for this question

```
create_answer (file_dir: str)
```

Create answer key paper

```
create_exam (file_dir: str)
```

Create exam paper

```
create_solution (file_dir: str)
```

Create solution paper

```
shuffle_all_question (seed: Optional[int] = None)
```

Shuffle all question in exam

Parameters **seed** – random seed

```
shuffle_answer (not_shuffle=None, seed: Optional[int] = None)
```

Shuffle question answer

Parameters

- **not_shuffle** – Index list of questions that do not shuffle answers
- **seed** – random seed

```
shuffle_question (start_index: int, end_index: int, seed: Optional[int] = None)
```

shuffle question from start_index to end_index

PYTEXEXAM UTIL METHOD

`pytexexam.latexexamutil.add_multiple_package(package_list: List[str]) → str`

Generate latex code to add multiple package to preamble

Parameters `package_list` – List of package to add in preamble

`pytexexam.latexexamutil.ams_math_package() → str`

Returns the code needed to add in preamble to type math formula in latex

`pytexexam.latexexamutil.bold_title(text: str) → str`

Create bold title in exam header

Returns latex code

`pytexexam.latexexamutil.geometry_package(top: float, bottom: float, left: float, right: float) → str`

Generate latex code to add geometry package

Parameters

- **top** – top margin
- **bottom** – bottom margin
- **left** – left margin
- **right** – right margin

`pytexexam.latexexamutil.two_column_header(left: str, right: str) → str`

Create exam header with two column

Parameters

- **left** – left text
- **right** – right text

Returns Latex code

OTHER CLASS

```
class pytexexam.answer.Answer (answer_key: str, answer: str, is_true_answer=False)
    This class is used to store 1 answer in a question.

class pytexexam.exam.Exam (question_list: List[question.Question])
    This class represents an exam.

    question_list
        List of questions in the exam

    shuffle_question (seed: Optional[int] = None)
        This method allows to shuffle all the questions in the exam. :param seed: random seed

class pytexexam.question.Question (question: str, answers: List[str], true_answer: str, solution:
                                     str, answer_column: int)
    This class represents one question on the test.

    answer_column
        Number of columns for which the answer will be presented.

    answers: List[answer.Answer]
        Question answers

    get_true_answer_key () → str
        Get answer key of true answer

    print_question_latex () → str
        generate latex code for this question

    print_solution_latex () → str
        Generate latex code to print question and solution

    question: str
        Content of the question.

    shuffle_answer ()
        Shuffle answer list

    solution
        Solution of the question
```


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