

The `uassign` package

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September 6, 2015

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Overview

The purpose of the `uassign` is to provide a simple question and solution environment for typesetting university assignments. Although there exist \LaTeX classes, such as the `exam` class, and packages, such as the `exercise` package, which could be used for this purpose, the `uassign` package was designed with the following objectives in mind:

- *Simplicity*: Two environments – one for questions and one for solutions
- *Hide environments*: Ability to produce a question sheet (questions only, i.e. an assignment) and a solution sheet (solutions only, i.e. an answer key) or both. This is done by passing a `hidequestions` or `hideanswers` option to the package
- *Minimal dependencies*: Only the *ifelse* package is needed. All environments, i.e. `tabular`, `figure`, etc. can be used within the question and solution environments.
By default used within the `question` and `solution` environment.

The `question` and `solution` environments provide the following features:

- Automatic question numbering. The question counter is called `questioncounter` and its value can be accessed using `\thequestioncounter`. Likewise, the solution counter is called `solutioncounter` and its value can be accessed using `\thesolutioncounter`. To set the value of the question counter use `\setcounter{questioncounter}{5}` and the next question would be question 6.
- Indenting. The question numbers are right aligned in the left margin, and the entire question or solution is indented using a `\list`.

Environments

question environment

Simply use `\begin{question} ... code ... \end{question}`. For example:

```
\begin{question}
What is the answer to life and all its questions?
\end{question}
```

Which produces the following output:

1. What is the answer to life and all its questions?

Notice that the question is automatically numbered.

solution environment

Simply use `\begin{solution} ... code ... \end{solution}`. For example:

```
\setcounter{questioncounter}{3}
\setcounter{solutioncounter}{3}

\begin{question}
What is the answer to life and all it's questions?
\end{question}

\begin{solution}
The answer is 42.
\end{solution}
```

Which produces the following output:

4. What is the answer to life and all it's questions?

Solution:

The answer is 42.

A medskip of spacing is used before each question and solution environment.

Hiding environments

To hide solutions use the `hideanswers` option. When you load the package, the code would be `\usepackage[hideanswers]{uassign}`. Likewise, questions can be hided using the `hidequestions` option.

If questions are hide, then solutions are numbered. If questions are shown and solutions are shown, then solutions will have the word **Solution:** at the start of the solution.