scrambledenvs – Create and print scrambled environments

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v1.0.0 (2021/07/29)

Abstract

The scrambledenvs package allows you to create scrambled environments
and print them out later, such as scrambled hints or solutions.

1 Overview

This package was designed to mark hints at a location[1] and print them out later
in a random order.[2]

There is an outer environment which typesets the label. Inside it you should
place the inner environment **and only the inner environment**. Inside this
inner environment, you write the contents of your hint. This will typeset the hint
number. Finally, you may print the hints at some later location in a randomized
order.

2 Usage

If you want your solutions to be scrambled, call

```
\usepackage{scrambledenvs}
```

If you want to disable all scrambling for any reason, call

```
\usepackage[noscramble]{scrambledenvs}
```

`\newscrambledenv`

In order to create a new scrambled environment, one should call `\newscrambledenv{envname}`.
This requires that the macros `\envname` and `\envnames` be undefined, as

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[1]It can generalize beyond hints, but I thought it best to start off with a specific example..

[2]Though you do have the ability to make the order not random: pass in `noscramble` to the
package.

well as the counters envnamecount and envnametempcount be undefined, as \newscrambledenv will define these.

This defines the environments 'envname's and 'envname', and the macro \print'envname', where 'envname' denotes the value passed in to \newscrambledenv. Because this will get confusing fast, we will just assume that 'envname' is hint, since this generalizes quite easily.

Thus in this example, the environments hints and hint are defined, and the macro \printhint is defined.

If any of these macros or counters are defined, the package will throw a custom error.

hints

This is the outer environment. Depending on how many hint environments are put inside it, it will either typeset **Hints:** or **Hint:** with the numerical labels of the passed in hints following it.

You should put in nothing but the inner environment hint. (See the examples for a correct usage.)

3 Examples

In all of the examples, we use hint as our generic scrambled environment.

3.1 A barebones example

```
\documentclass{article}
\usepackage{scrambledenvs}
\newscrambledenv{hint}

\begin{document}
This is a really hard problem, so we provide hints.\begin{hints}
\begin{addhint}
This is a helpful hint.
\end{addhint}
\begin{addhint}
And another one!
\end{addhint}
\end{hints}

\section{Hints printed}

\printhint

\end{document}
```

3.2 Changing hint formatting

We omit the fluff from last time, such as parts of the preamble and the document.

3.3 Changing default formatting