

Bleep

- Accepts as its sole command-line argument the name (or path) of a dictionary of banned words (i.e., text file).
- Opens and reads from that file the list of words stored therein, one per line, and stores each in a Python data structure for later access. While a Python `list` will work well for this, you may also find a [set](#) useful here.
- If no command line argument (e.g., `banned.txt`) is provided, be sure to have your program [exit](#) with a status code of 1.
- You may assume that any text files the staff tests with will have one word per line (each line terminated with a `\n`), and any alphabetic characters in those words will be lowercase.
- Prompts the user to provide a message.
- Tokenizes that message into its individual component words, using the [split](#) method on the provided string, and then iterates over the `list` of "tokens" (words) that is returned by calling `split`, checking to see whether any of the tokens match, case-insensitively, any of the words in the banned words list.
- Prints back the message that the user provided, except if the message contained any banned words, each of its characters is replaced by a `*`.
- For example, `gosh` should be replaced with four `*` characters, while `fudge` should be replaced with five.
- You should not censor words that merely contain a banned word as a substring. For example, if **bar** is a banned word in the provided list,

then none of ***b**arns* nor *crow**bar*** nor *wheel**bar**row* should be censored.

- You explicitly **do not** need to support input strings that contain punctuation marks. You may assume we will only test your input where each word is only separated by whitespace.

Your program should behave per the examples below. Assume that the underlined text is what some user has typed.

```
$ python bleep.py
```

```
Usage: python bleep.py dictionary
```

```
$ python bleep.py list1.txt list2.txt list3.txt
```

```
Usage: python bleep.py dictionary
```

```
$ python bleep.py banned.txt
```

```
What message would you like to censor?
```

```
hello world
```

```
hello world
```

```
$ python bleep.py banned.txt
```

```
What message would you like to censor?
```

```
what the heck
```

```
what the ****
```

```
$ python bleep.py banned.txt
```

```
What message would you like to censor?
```

```
gosh darn it
```

```
**** **** it
```