

check50

cs50/problems/2025/x/speller

:) dictionary.c exists

Log

```
checking that dictionary.c exists...
```

:) speller compiles

Log

```
running make...
```

```
checking that program exited with status 0...
```

:) handles most basic words properly

Log

```
running ./speller basic/dict basic/text...
```

```
checking for output "MISSPELLED WORDS\n\n\nWORDS MISSPELLED: 0\nWORDS IN DICTIONARY:  
8\nWORDS IN TEXT: 9\n..."
```

```
checking that program exited with status 0...
```

:) handles min length (1-char) words

Log

```
running ./speller min_length/dict min_length/text...
```

```
checking for output "MISSPELLED WORDS\n\n\nWORDS MISSPELLED: 0\nWORDS IN DICTIONARY:  
1\nWORDS IN TEXT: 1\n..."
```

```
checking that program exited with status 0...
```

:) handles max length (45-char) words

Log

```
running ./speller max_length/dict max_length/text...
```

```
checking for output "MISSPELLED WORDS\n\n\nWORDS MISSPELLED: 0\nWORDS IN DICTIONARY:  
1\nWORDS IN TEXT: 1\n..."
```

```
checking that program exited with status 0...
```

:) handles words with apostrophes properly

Log

```
running ./speller apostrophe/without/dict apostrophe/with/text...
checking for output "MISSPELLED WORDS\n\nfoo's\n\nWORDS MISSPELLED: 1\nWORDS IN
DICTIONARY: 1\nWORDS IN TEXT: 1\n"...
checking that program exited with status 0...
running ./speller apostrophe/with/dict apostrophe/without/text...
checking for output "MISSPELLED
WORDS\n\nfoo\nfo0\nf0o\nnFo0\nnf00\nF0o\nnFOO\nn\nWORDS MISSPELLED: 8\nWORDS IN
DICTIONARY: 1\nWORDS IN TEXT: 8\n"...
checking that program exited with status 0...
running ./speller apostrophe/with/dict apostrophe/with/text...
checking for output "MISSPELLED WORDS\n\n\nWORDS MISSPELLED: 0\nWORDS IN DICTIONARY:
1\nWORDS IN TEXT: 1\n"...
checking that program exited with status 0...
```

:) spell-checking is case-insensitive

Log

```
running ./speller case/dict case/text...
checking for output "MISSPELLED WORDS\n\n\nWORDS MISSPELLED: 0\nWORDS IN DICTIONARY:
1\nWORDS IN TEXT: 8\n"...
checking that program exited with status 0...
```

:) handles substrings properly

Log

```
running ./speller substring/dict substring/text...
checking for output "MISSPELLED WORDS\n\nnca\nncats\nncaterpill\nncaterpillars\n\nWORDS
MISSPELLED: 4\nWORDS IN DICTIONARY: 2\nWORDS IN TEXT: 6\n"...
checking that program exited with status 0...
```

:) handles large dictionary (hash collisions) properly

Log

```
running ./speller large/dict large/text...
checking for output "MISSPELLED WORDS\n\n\nWORDS MISSPELLED: 0\nWORDS IN DICTIONARY:
143091\nWORDS IN TEXT: 158\n"...
checking that program exited with status 0...
```

:) program is free of memory errors

Log

```
running valgrind --show-leak-kinds=all --xml=yes --xml-file=/tmp/tmpycyp6g0r --
./speller substring/dict substring/text...
checking for output "MISSPELLED WORDS\n\nca\ncats\ncaterpill\ncaterpillars\n\nWORDS
MISSPELLED: 4\nWORDS IN DICTIONARY: 2\nWORDS IN TEXT: 6\n"...
checking that program exited with status 0...
checking for valgrind errors...
```