

check50

cs50/problems/2023/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

Cause

expected "MISSPELLED WOR...", not "MISSPELLED WOR..."

Log

```
running ./speller basic/dict basic/text...
checking for output "MISSPELLED WORDS\n\nWORDS MISPELLED: 0\nWORDS IN DICTIONARY: 8\nWORDS IN TEXT: 9\n"...
```

Expected Output:

```
MISSPELLED WORDS
```

```
WORDS MISPELLED:    0
WORDS IN DICTIONARY: 8
WORDS IN TEXT:      9
```

Actual Output:

```
MISSPELLED WORDS
```

```
The
```

```
WORDS MISPELLED:    1
WORDS IN DICTIONARY: 8
WORDS IN TEXT:      9
```

:) handles min length (1-char) words

Log

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

: (spell-checking is case-insensitive

Cause

expected "MISSPELLED WOR...", not "MISSPELLED WOR..."

Log

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

Expected Output:

```
MISSPELLED WORDS
```

```
WORDS MISPELLED:    0
WORDS IN DICTIONARY: 1
WORDS IN TEXT:      8
```

Actual Output:

```
MISSPELLED WORDS
```

```
Foo
FoO
FOO
foo
```

```
WORDS MISPELLED:      4
WORDS IN DICTIONARY:  1
WORDS IN TEXT:        8
```

:) handles substrings properly

Log

```
running ./speller substring/dict substring/text...
checking for output "MISPELLED WORDS\n\nca\ncats\ncaterpill\ncaterpillars\n\nWORDS MISPELLED: 4\nWORDS IN
DICTIONARY: 2\nWORDS IN TEXT: 6\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/tmpk12hvmhl -- ./speller substring/dict
substring/text...
checking for output "MISPELLED WORDS\n\nca\ncats\ncaterpill\ncaterpillars\n\nWORDS MISPELLED: 4\nWORDS IN
DICTIONARY: 2\nWORDS IN TEXT: 6\n"...
checking that program exited with status 0...
checking for valgrind errors...
```