

Reflection & Test Plan - Assignment 2 Question 11

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Commentary

- significant types of errors/warnings you faced
 - I had some trouble testing the regex, as it looks very confusing at first. I had to do some trial and error to get it formatted properly and look through some examples online.
- what code optimization techniques you followed, if any
 - I used an enhanced for-loop here because it was a simple one. I also used some regex in my split function, also include in the for loop. The regex simply splits the words based on 1 or more spaces. So "abc abc" converts into ["abc", "abc"]. I included the reverse function (only function) in the constructor so you don't have to worry about running it. Instead of reversing the vector, I iterate backwards through it to reverse the words in the sentence.

Normal Data

Test Run 1

Program Input

```
SentenceVector("The quick brown fox jumps over the lazy dog");
```

Expected Program Output

The quick brown fox jumps over the lazy dog backwards is: dog lazy the over jumps fox brown quick The

Actual Output

as expected

Test Run 2

Program Input

```
SentenceVector fox = new SentenceVector("1234567 890");
```

Expected Program Output

1234567 890 backwards is: 890 1234567

Actual Output

as expected

Abnormal Data

Test Run 5

Program Input

```
SentenceVector fox = new SentenceVector("");
```

Expected Program Output

backwards is:

Actual Output

as expected. Blank strings.

Boundary Data

Test Run 6

Program Input

```
SentenceVector fox = new SentenceVector(" a s d fs df sd sdfg sd gs sd gsdg");
```

Expected Program Output

a s d fs df sd sdfg sd gs sd gsdg backwards is: gsdg sd gs sd sdfg sd df fs d s a

Actual Output

as expected. Eliminates extra spaces.