Report

1. **Notable obstacles**

The most notable obstacle was figuring out how to implement the input and output files. Another obstacle was figuring out how to write the input file into a buffer cstring so that I could filter it to the output file.

1. **Pseudocode for int stuff**

If (the max line length is less than one)

Stuff is 2

Declare max length as a constant integer

Create a cstring buffer that is a copy of the input text

Create an integer count to keep track of the number of characters in a line

While(there is another line in the buffer) do the following:

Declare an integer to index words

Create a cstring called word to keep track of the words in buffer

For (the incrementing index I, if it is less than the max index in the buffer) do the following:

(i.e. loop through each character of the buffer)

check for hyphens.

If there is a hyphen and the word cannot fit into the rest of the line, write the hyphen and go to the next line.

If there is not a hyphen, continue to do the following:

Keep growing the word until a space or the end of the line is hit.

Each time a character is not a space or hyphen, write it into the outfile

Skip empty words

If a word is “#P#” write a newline to the oufile and reset the counter.

If the current character of the buffer is a period, add an extra space to the outfile.

If the length of any word exceeds the max line length, return 1.

1. **Test cases**

**textinput1:**

Let's

check what

happens. #P#

Wow.

**textinput2:** To test spacing after periods, max line length, and paragraph breaks.

It always does seem to me that I am doing more work than

I should do. It is not that I object to the work, mind you;

I like work: it fascinates me. I can sit and look at it for hours.

I love to keep it by me: the idea of getting

rid

of it nearly breaks my heart. #P# You cannot give me too

much work; to accumulate work has almost become

a passion with me: my study is so full of it now, that there is hardly

an inch of room for any more.

**textinput3:**  To test that hyphens at the max word length are separated properly

123456 89-abcdefg

**textinput4:** To test that the function returns 1 when a word is larger than max length

123456789

**textinput5:** Another test of hyphens and paragraphs

Some things are so-called things are things. #P# Other things

are too.

**textinput6:** To test the case where the hyphen is not the max length (max length = 10)

1234 67-89abcd