
Test Plan for **Assignment 2**

Simple Text Editor using object-oriented paradigm (C++). Refactoring initial C (procedural) code. Implementing new commands such as: redo/undo, cut/copy/paste, delete, insert with replacement.

The TextEditor class has fields to manage the text (char array) itself, undo and redo stacks to store changes, and buffer to store copied text.

Fields: text, undoStack, redoStack, clipboard.

Methods: enterText, print, deleteText, undo, redo, cutText, copyText, pasteText, insertWithReplacement, etc.

Use Cases:

```
Enter 'a' to enter text to the end
'b' to add new line
'c' to save TO file
'd' to load FROM file
'e' to print the text to console
'f' to insert text
'g' to search for text
'h' to delete
'i' to undo command
'j' to redo command
'k' to cut text
'l' to copy text
'm' to paste text
'n' to insert with replacement
'0' TO EXIT
```

List of all commands

All the commands combined in one run (besides adding a new line, saving to or loading from a file, insertion, and searching in text)

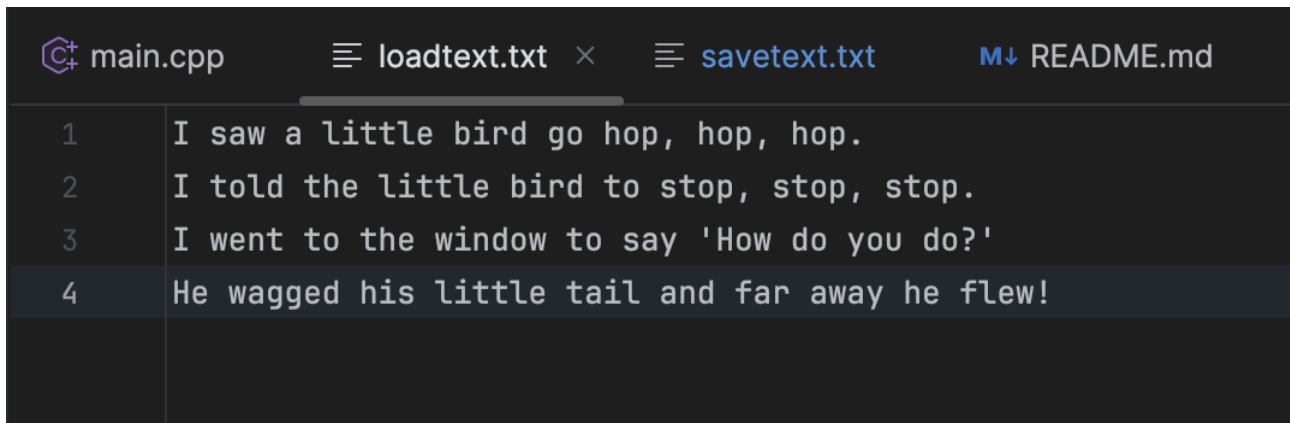
```
Enter the command: a
Enter the text to add: Hello, my text editor!
Enter the command: e
Hello, my text editor!
Enter the command: h
Enter the line number: 0
Enter the position in line: 0
Enter the number of symbols to delete: 7
Text deleted!
Enter the command: e
my text editor!
Enter the command: i
Successful undo!
Enter the command: e
Hello, my text editor!
Enter the command: j
Successful redo!
Enter the command: e
my text editor!
Enter the command: k
Enter the line number: 0
Enter the position in line: 0
Enter the number of symbols to cut: 3
Text cut!
Enter the command: e
text editor!
Enter the command: m
Enter the line number: 0
Enter the position in line: 0
Text pasted!
```

Part 1.

```
Enter the command: e
my text editor!
Enter the command: l
Enter the line number: 0
Enter the position in line: 0
Enter the number of symbols to copy: 15
Text copied!
Enter the command: m
Enter the line number: 0
Enter the position in line: 0
Text pasted!
Enter the command: e
my text editor!my text editor!
Enter the command: n
Enter the line number: 0
Enter the position in line: 0
Enter the text to insert: Hello, world!
Text inserted!
Enter the command: e
Hello, world!r!my text editor!
Enter the command: 0
Thanks for using the program!
```

Part 2.

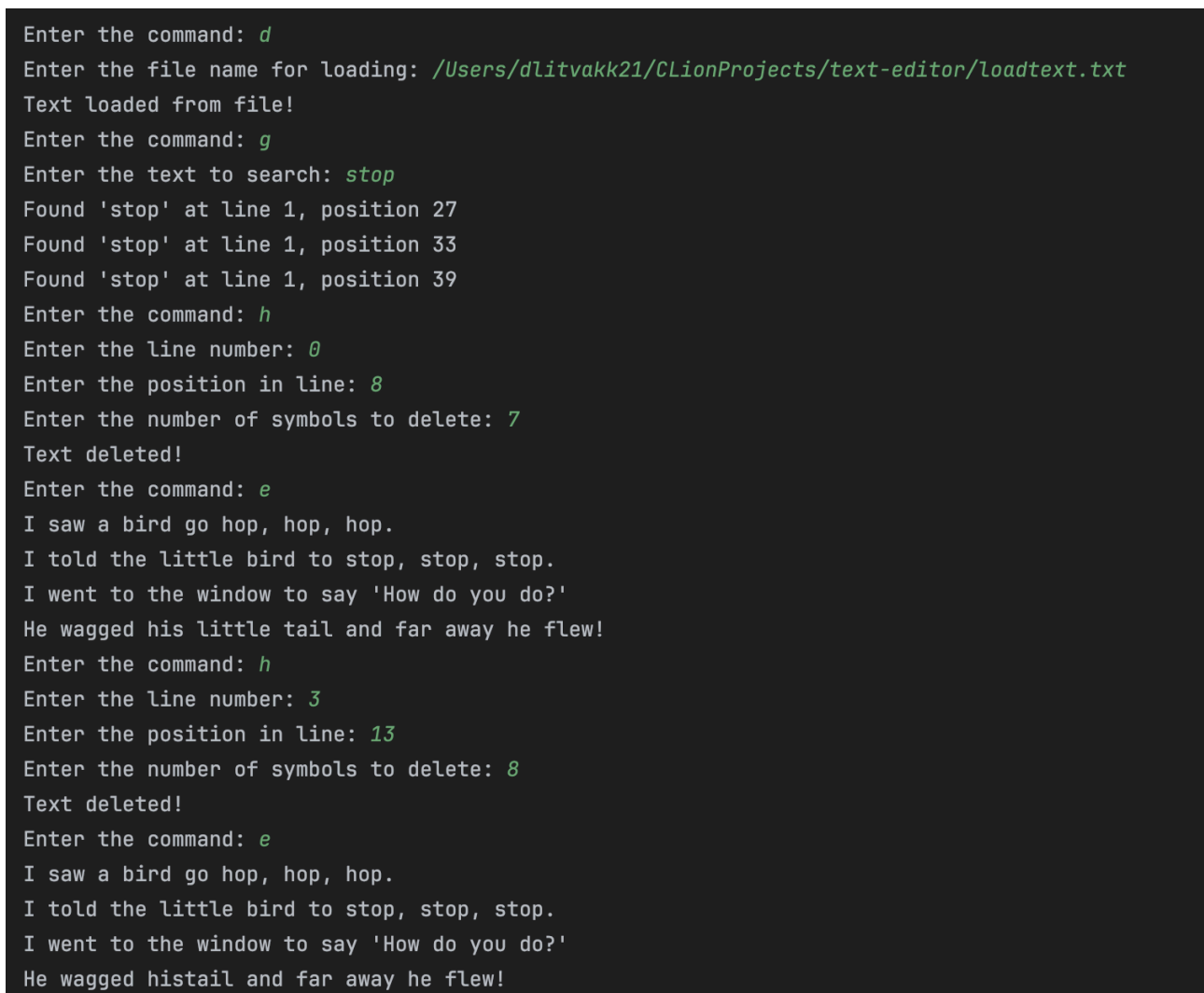
Test 2. Loading text from file **loadfile.txt** (picture 1), searching for the word “stop”. Then, delete twice word ‘little’ in a different position, inserting space (pictures 2, 3), and saving text to file **savetext.txt** (picture 4)



The screenshot shows a code editor with four tabs: main.cpp, loadtext.txt, savetext.txt, and README.md. The loadtext.txt tab is active, displaying the following text:

```
1 I saw a little bird go hop, hop, hop.
2 I told the little bird to stop, stop, stop.
3 I went to the window to say 'How do you do?'
4 He wagged his little tail and far away he flew!
```

Picture 1.



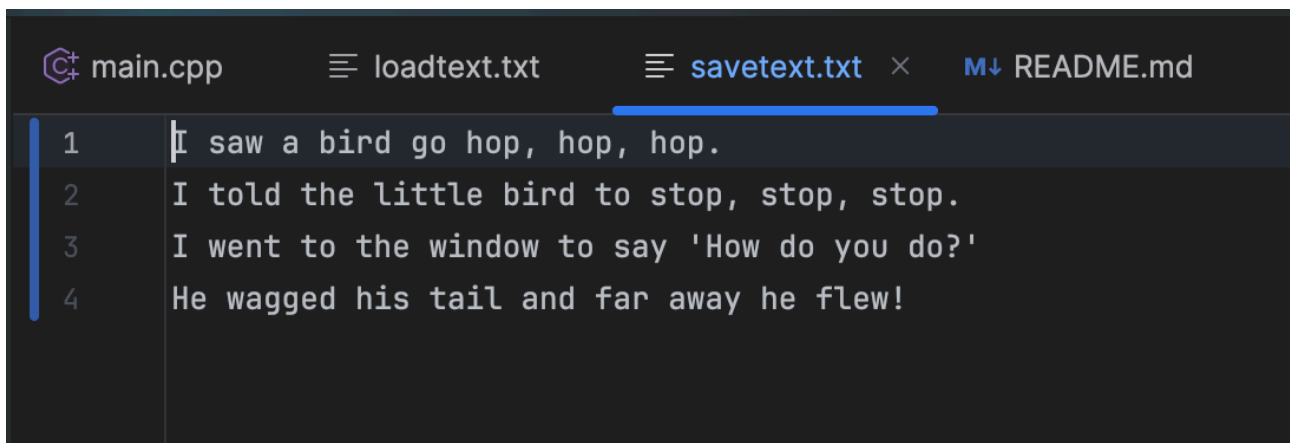
The screenshot shows a terminal window with the following text:

```
Enter the command: d
Enter the file name for loading: /Users/dlitvakk21/CLionProjects/text-editor/loadtext.txt
Text loaded from file!
Enter the command: g
Enter the text to search: stop
Found 'stop' at line 1, position 27
Found 'stop' at line 1, position 33
Found 'stop' at line 1, position 39
Enter the command: h
Enter the line number: 0
Enter the position in line: 8
Enter the number of symbols to delete: 7
Text deleted!
Enter the command: e
I saw a bird go hop, hop, hop.
I told the little bird to stop, stop, stop.
I went to the window to say 'How do you do?'
He wagged his little tail and far away he flew!
Enter the command: h
Enter the line number: 3
Enter the position in line: 13
Enter the number of symbols to delete: 8
Text deleted!
Enter the command: e
I saw a bird go hop, hop, hop.
I told the little bird to stop, stop, stop.
I went to the window to say 'How do you do?'
He wagged histail and far away he flew!
```

Picture 2.

```
Enter the command: h
Enter the line number: 3
Enter the position in line: 13
Enter the number of symbols to delete: 8
Text deleted!
Enter the command: e
I saw a bird go hop, hop, hop.
I told the little bird to stop, stop, stop.
I went to the window to say 'How do you do?'
He wagged histail and far away he flew!
Enter the command: f
Enter the line number: 3
Enter the position in line: 13
Enter the text to insert:
Text inserted!
Enter the command: e
I saw a bird go hop, hop, hop.
I told the little bird to stop, stop, stop.
I went to the window to say 'How do you do?'
He wagged his tail and far away he flew!
Enter the command: c
Enter the file name for saving: /Users/dlitvakk21/CLionProjects/text-editor/savetext.txt
Text saved to file!
Enter the command: 0
Thanks for using the program!
```

Picture 3.



```
main.cpp  loadtext.txt  savetext.txt  README.md
1  I saw a bird go hop, hop, hop.
2  I told the little bird to stop, stop, stop.
3  I went to the window to say 'How do you do?'
4  He wagged his tail and far away he flew!
```

Picture 4.