Black Box Test Plan: Compression program

Introduction: Each test case below assumes the **Compression** program is running and that the instructions for running the program have been displayed for the user. The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Test Files: (List each test file below. Submit each file when you submit your project)

HINT: The Unix diff command may be used to tell whether or not two files are identical. For example,

diff computer.txt decompressedComputer.txt

Test ID	Description	Expected Results	Actual Results
testInvalidAction	Preconditions: Compression program	Invalid Action	Invalid Action
	started	User is reprompted to enter	User is reprompted to enter action
Author: Dr. Balik	**!!!!	action	
	HEADER Enter C-ompress, D-ecompress, or Q-uit:		
	Compress		
	(Ctrl+C to stop execution)		
testQuit	Preconditions: Compression program started	Program quits.	Program quits.
Author: Dr. Balik			
	HEADER		
	Enter C-ompress, D-ecompress, or Q-uit:		
	q		
testCompressSingleWo	Preconditions: Compression program	Test1Compress.txt is created	Test1Compress.txt is created in the
rd	started	in the test-files directory.	test-files directory.

Author: Dr. Balik	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: C Enter input file: test-files/Test1.txt Enter output file: test-files/Test1Compress.txt	Test1Compress.txt is exactly the same as Test1Compress_Exp.txt: +t#@	Test1Compress.txt is exactly the same as Test1Compress_Exp.txt: +t#@
testDecompressSingle Word Author: Dr. Balik	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: d Enter input file: test-files/Test1Compress_Exp.txt Enter output file: test-files/Test1Decompress.txt	Test1Decompress.txt is created in the test-files directory. Test1Decompress.txt contains exactly the same characters as Test1.txt: mentioning	Test1Decompress.txt is created in the test-files directory. Test1Decompress.txt contains exactly the same characters as Test1.txt: mentioning
testCompressMulitple Words Author: Selena Chen	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: c Enter input file: test-files/Test2.txt Enter output file: test-files/Test2Compress.txt	Test2Compress.txt is created in the test-files directory. Test2Compress.txt is exactly the same as Test2Compress_Exp.txt: & act# had ~ equal ~d opposite \$act#	Test2Compress.txt is created in the test-files directory. Test2Compress.txt is exactly the same as Test2Compress_Exp.txt: & act# had ~ equal ~d opposite \$act#
test Decompress Mulitp le Words	Preconditions: Compression program started	Test2Decompress.txt is created in the test-files directory.	Test2Decompress.txt is created in the test-files directory.

Author: Selena Chen	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: d Enter input file: test-files/Test2Compress_Exp.txt Enter output file: test-files/Test2Decompress.txt	Test2Decompress.txt contains exactly the same characters as Test2.txt: the action had an equal and opposite reaction	Test2Decompress.txt contains exactly the same characters as Test2.txt: the action had an equal and opposite reaction
testCompressAllSeque nces	Preconditions: Compression program started	Test3Compress.txt is created in the test-files directory.	Test3Compress.txt is created in the test-files directory.
Author: Selena Chen	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: c Enter input file: test-files/Test3.txt Enter output file: test-files/Test3Compress.txt	Test3Compress.txt is exactly the same as Test3Compress_Exp.txt: & ~ # @ % + \$	Test3Compress.txt is exactly the same as Test3Compress_Exp.txt: & ~ # @ % + \$
testDecompressAllSeq uences	Preconditions: Compression program started	Test3Decompress.txt is created in the test-files directory.	Test3Decompress.txt is created in the test-files directory.
Author: Selena Chen	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: d Enter input file: test-files/Test3Compress_Exp.txt Enter output file: test-files/Test3Decompress.txt	Test3Decompress.txt contains exactly the same characters as Test3.txt: the an ion ing tis men re	Test3Decompress.txt contains exactly the same characters as Test3.txt: the an ion ing tis men re
testCompressRepeatSe quences	Preconditions: Compression program started	Test4Compress.txt is created in the test-files directory.	Test4Compress.txt is created in the test-files directory.

Author: Selena Chen	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: c Enter input file: test-files/Test4.txt Enter output file: test-files/Test4Compress.txt	Test4Compress.txt is exactly the same as Test4Compress_Exp.txt: rat#alization rat#alization	Test4Compress.txt is exactly the same as Test4Compress_Exp.txt: rat#alization rat#alization
testDecompressRepeat Sequences Author: Selena Chen	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: d Enter input file: test-files/Test4Compress_Exp.txt Enter output file: test-files/Test4Decompress.txt	Test4Decompress.txt is created in the test-files directory. Test4Decompress.txt contains exactly the same characters as Test4.txt: rationalization rationalization	Test4Decompress.txt is created in the test-files directory. Test4Decompress.txt contains exactly the same characters as Test4.txt: rationalization rationalization
testCompressMultipleL ine	Preconditions: Compression program started	Test5Compress.txt is created in the test-files directory.	Test5Compress.txt is created in the test-files directory.
Author: Selena Chen	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: c Enter input file: test-files/Test5.txt Enter output file: test-files/Test5Compress.txt	Test5Compress.txt is exactly the same as Test5Compress_Exp.txt: & world war spur\$d & develop+t of electronics components started to become available	Test5Compress.txt is exactly the same as Test5Compress_Exp.txt: & world war spur\$d & develop+t of electronics components started to become available

testDecompressMultip leLine	Preconditions: Compression program started	Test5Decompress.txt is created in the test-files directory.	Test5Decompress.txt is created in the test-files directory.
Author: Selena Chen	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: d Enter input file: test-files/Test5Compress_Exp.txt Enter output file: test-files/Test5Decompress.txt	Test5Decompress.txt contains exactly the same characters as Test5.txt: the world war spurred the development of electronics components started to become available	Test5Decompress.txt contains exactly the same characters as Test5.txt: the world war spurred the development of electronics components started to become available
testCompressLargeFile	Preconditions: Compression program started	computerCompress.txt is created in the test-files	computerCompress.txt is created in the test-files directory.
Author: Dr. Balik	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: c Enter input file: test-files/computer.txt Enter output file: test-files/computerCompress.txt	directory. computerCompress.txt contains exactly the same characters as compressedComputer.txt	computerCompress.txt contains exactly the same characters as compressedComputer.txt
testDecompressLargeFi	Preconditions: Compression program started	decompressedComputer.txt is created in the test-files directory.	decompressedComputer.txt is created in the test-files directory.
Author: Dr. Balik	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: D Enter input file: test-files/compressedComputer.txt	decompressedComputer.txt contains exactly the same characters as computer.txt	decompressedComputer.txt contains exactly the same characters as computer.txt

Enter output file: test-files/decompressedComputer.txt		
--	--	--