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	Program quits.	Program quits.
	started		
Author: Dr. Balik			
	HEADER		
	Enter C-ompress, D-ecompress, or Q-uit:		
	q		

testCompressSingleWo rd	Preconditions: Compression program started	Test1Compress.txt is created in the test-files directory.	Test1Compress.txt is exactly the same as Test1Compress_Exp.txt: +t#@
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#@	
testDecompressSingle Word Author: Dr. Balik	Preconditions: Compression program started **HEADER**	Test1Decompress.txt is created in the test-files directory.	Test1Decompress.txt contains exactly the same characters as Test1.txt: mentioning
Addition. Dr. Bank	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 contains exactly the same characters as Test1.txt: mentioning	

Tesing individual	Preconditions: Compression program started	individual.txt is created in the test-files directory.	after.txt contains exactly the same characters as individual_compressed.txt
	HEADER Enter C-ompress, D-ecompress, or Q-uit: C Enter input file: test-files/individual.txt Enter output file: test-files/after.txt	after.txt contains exactly the same characters as individual_compressed.txt	
Testing individual	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: D Enter input file: test-files/individual_compressed.txt Enter output file: test-files/after.txt	individual_compressed.txt is created in the test-files directory. after.txt contains exactly the same characters as individual.txt	after.txt contains exactly the same characters as individual.txt
Apostrophe and quotation	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: C Enter input file: test-files/pasta.txt Enter output file: test-files/after.txt	pasta.txt is created in the test-files directory. after.txt contains exactly the same characters as pasta_compressed.txt	after.txt contains exactly the same characters as pasta_compressed.txt

Apostrophe and quotion	Preconditions: Compression program started **HEADER**	pasta_compressed.txt is created in the test-files directory.	after.txt contains exactly the same characters as pasta.txt
	Enter C-ompress, D-ecompress, or Q-uit: D Enter input file: test-files/pasta_compressed.txt Enter output file: test-files/after.txt	after.txt contains exactly the same characters as pasta.txt	
Multiple instances of same compression	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: C Enter input file: test-files/mult.txt Enter output file: test-files/after.txt	mult.txt is created in the test-files directory. after.txt contains exactly the same characters as mult_compressed.txt	after.txt contains exactly the same characters as mult_compressed.txt
Multiple instances of same decompression	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: D Enter input file: test-files/mult_compressed.txt Enter output file: test-files/after.txt	mult_compressed.txt is created in the test-files directory. after.txt contains exactly the same characters as mult.txt	after.txt contains exactly the same characters as mult.txt

Testing at start and end of text	Preconditions: Compression program started	start_end.txt is created in the test-files directory.	after.txt contains exactly the same characters as start_end_compressed.txt
	HEADER Enter C-ompress, D-ecompress, or Q-uit: C Enter input file: test-files/start_end.txt Enter output file: test-files/after.txt	after.txt contains exactly the same characters as start_end_compressed.txt	
Testing at start and end of text	Preconditions: Compression program started **HEADER** Enter C-ompress, D-ecompress, or Q-uit: D	start_end_compressed.txt is created in the test-files directory. after.txt contains exactly the same characters as	after.txt contains exactly the same characters as start_end.txt
	Enter input file: test-files/start_end_compressed.txt Enter output file: test-files/after.txt	start_end.txt	
testCompressLargeFile	Preconditions: Compression program started	computerCompress.txt is created in the test-files	computerCompress.txt contains exactly the same characters as
Author: Dr. Balik	**HEADER** Enter C-ompress, D-ecompress, or Q-uit: c Enter input file: test-files/computer.txt Enter output file:	computerCompress.txt contains exactly the same characters as compressedComputer.txt	compressedComputer.txt
	test-files/computerCompress.txt		

testDecompressLargeFi le	Preconditions: Compression program started	decompressedComputer.txt is created in the test-files directory.	decompressedComputer.txt contains exactly the same characters as computer.txt
Author: Dr. Balik	**HEADER**		
	Enter C-ompress, D-ecompress, or Q-uit:	decompressedComputer.txt	
	D	contains exactly the same	
	Enter input file:	characters as computer.txt	
	test-files/compressedComputer.txt		
	Enter output file:		
	test-files/decompressedComputer.txt		