# **Black Box Test Plan**

**Compression Manager**

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In this BBTP, we use the fleaFly.txt and fleaFly.316 files provided by faculty. We also use a file named empty.txt, which is simply an empty text file.

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| Test ID | Description | Expected Results | Actual Results |
| testStart  [ECP] | User starts the application.  *Check results* | The program prints:  “Welcome to Compression Manager.  Users have the option of compressing or decompressing a text file, or having the most frequent words in the text file reported.  If you would like to compress a file, enter ‘C.’  If you would like to decompress a file, enter ‘D.’  If you would like to print the most frequent words in a file, enter ‘F.’ | The program prints:  “Welcome to Compression Manager.  Users have the option of compressing or decompressing a text file, or having the most frequent words in the text file reported.  If you would like to compress a file, enter ‘C.’  If you would like to decompress a file, enter ‘D.’  If you would like to print the most frequent words in a file, enter ‘F.’ |
| testCompress  [ECP] | **Preconditions**: testStart  User **inputs** “C”  *Check results*  User **inputs** “input/fleaFly.txt”  *Check results*  User **inputs** “output/”  *Check results* | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the target directory for the output file: “  Program prints: “The file has been processed and saved to the appropriate location.”  In the output directory, fleaFly.316 reads:  0  A flea and a fly in 4 flue ‘\n’  Were imprisoned, so what could they do? ‘\n’  Said the 5, "let us flee!" ‘\n’  "Let 18 5!" said 16 2. ‘\n’  So 13 flew through 4 flaw 6 16 7. ‘\n’  - Ogden Nash | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the target directory for the output file: “  Program prints: “The file has been processed and saved to the appropriate location.”  In the output directory, fleaFly.316 reads:  0  A flea and a fly in 4 flue ‘\n’  Were imprisoned, so what could they do? ‘\n’  Said the 5, "let us flee!" ‘\n’  "Let 18 5!" said 16 2. ‘\n’  So 13 flew through 4 flaw 6 16 7. ‘\n’  - Ogden Nash |
| testDecompress  [ECA] | **Preconditions**: testStart  User **inputs** “d”  *Check results*  User **inputs** “input/fleaFly.316”  *Check results*  User **inputs** “output/”  *Check results* | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the target directory for the output file: “  Program prints: “The file has been processed and saved to the appropriate location.”  In the output directory, fleaFly.txt reads:  A flea and a fly in a flue ‘\n’  Were imprisoned, so what could they do? ‘\n’  Said the fly, "let us flee!" ‘\n’  "Let us fly!" said the flea. ‘\n’  So they flew through a flaw in the flue. ‘\n’  - Ogden Nash | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the target directory for the output file: “  Program prints: “The file has been processed and saved to the appropriate location.”  In the output directory, fleaFly.txt reads:  A flea and a fly in a flue ‘\n’  Were imprisoned, so what could they do? ‘\n’  Said the fly, "let us flee!" ‘\n’  "Let us fly!" said the flea. ‘\n’  So they flew through a flaw in the flue. ‘\n’  - Ogden Nash |
| testFrequentEmpty  [BVA] | **Preconditions:** testStart  User **inputs** “F”  *Check results*  User **inputs** “input/empty.txt”  *Check results*  User **inputs** “10”  *Check results* | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the number of words to be reported.”  Program prints: “Most Frequent Words Report [  ]” | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the number of words to be reported.”  Program prints: “Most Frequent Words Report [  ]” |
| testInvalidFilePath  [DB] | **Preconditions:** testStart  User **inputs** “f”  *Check results*  User **inputs** “input/noFile.txt”  *Check results*  User **inputs** “0”  *Check results* | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the number of words to be reported.”  Program throws IllegalArgumentException and prints: “File not found.” | Program prints:  “Please enter the file path of the text file to be processed: “  Program prints: “Please enter the number of words to be reported.”  Program throws IllegalArgumentException and prints: “File not found.” |