# Black Box Test Plan for MapChanger

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C.

Here are the first 10 random numbers when using a seed of 1 (and bound of 11): 4, 6, 8, 8, 9, 2, 6, 3, 1, 4

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

diff map.txt UncoveredMap.txt

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| testInvalidAction    Author:  Dr. Balik | Preconditions: MapChanger program started  \*\*HEADER\*\*  Enter O-bscure, U-ncover, or Q-uit: **Obscure**  (Ctrl+C to stop execution) | Invalid action.  User is reprompted to enter action |  |
| testQuit    Author:  Dr. Balik | Preconditions: MapChanger program started  \*\*HEADER\*\*  Enter O-bscure, U-ncover, or Q-uit: **q** | Program quits. |  |
| testObscureSingleLineWithAllCharacters    Author:  Dr. Balik | Preconditions: MapChanger program started  \*\*HEADER\*\*  Enter O-bscure, U-ncover, or Q-uit: **O**  Input file: **test-files/Test1.txt**  Output file: **test-files/Test1Obscure.txt**  Do you want to use a seed? (Y or N): **Y** Enter the seed value: **1**  The map has been obscured.  Enter O-bscure, U-ncover, or Q-uit: **q** | Test1Obscure.txt is created in the test-files directory.  Test1Obscure.txt contents is the same as Test1Obscure\_Exp.txt contents:  +%/&\[~[X |  |
| testUncoverSingleLineWithAllCharacters    Author:  Dr. Balik | Preconditions: MapChanger program started  \*\*HEADER\*\*  Enter O-bscure, U-ncover, or Q-uit: **u**  Input file: **test-files/Test1Obscure\_Exp.txt**  Output file: **test-files/Test1Uncover.txt**  The map has been uncovered.  Enter O-bscure, U-ncover, or Q-uit: **q** | Test1Uncover.txt is created in the test-files directory.  Test1Uncover.txt contains exactly the same characters as Test1.txt:  + / \ ~ X |  |
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| testObscureLargeFile    Author:  Dr. Balik | Preconditions: MapChanger program started  \*\*HEADER\*\*  Enter O-bscure, U-ncover, or Q-uit: **o**  Input file: **test-files/map.txt**  Output file: **test-files/ObscuredMap.txt**  Do you want to use a seed? (Y or N): **Y** Enter the seed value: **1**  The map has been obscured.  Enter O-bscure, U-ncover, or Q-uit: **q** | ObscuredMap.txt is created in the test-files directory.    ObscuredMap.txt contains exactly the same characters as ObscuredMap\_Exp.txt |  |
| testUncoverLargeFile    Author:  Dr. Balik | Preconditions: MapChanger program started  \*\*HEADER\*\*  Enter O-bscure, U-ncover, or Q-uit: **U**  Input file: **test-files/map\_obscured.txt**  Output file: **test-files/UncoveredMap.txt**  The map has been uncovered.  Enter O-bscure, U-ncover, or Q-uit: **q** | UncoveredMap.txt is created in the test-files directory.    UncoveredMap.txt contains exactly the same characters as map.txt |  |