# BetterShell Test Plan

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## 1 Introduction

This document outlines a test plan to be used for testing the BetterShell program.

## 2 Test Items

All functions that will be built for the BetterShell are to be tested individually and together.

## 2.1 Features to be tested

#### 2.1.1 Concatenate

Condition: testfile.txt does not exist in working directory

Input: \$ cat testfile.txt

Correct output: testfile.txt does not exist — Incorrect Output: x

Condition: testfile.txt does exist in working directory

Input: \$ cat testfile.txt

Correct output: x — Incorrect Output: testfile.txt does not exist

## 2.1.2 Change Directory

Condition: subdir is not a subdirectory of working directory

Input: \$ cd subdir

Incorrect Output: subdir \$

Correct Output: Directory named subdir does not exist

Condition: subdir is not a subdirectory of working directory

Input: \$ cd subdir

Incorrect Output: Directory named subdir does not exist.

Correct Output: subdir \$

#### 2.1.3 Disk Free

Condition: None

Input: df

Correct Output: Any Integer <= total size — Incorrect Output: Anything else

#### 2.1.4 List

Condition: Normal function execution. Input: \$ 1s

Output:

Name Type File Size FLC SUBDIR DIR 0 7

FILE.TXT Text 750 1

Condition: file.txt exists in the working directory

Input: \$ ls file.txt

**Incorrect Output:** 

**Correct Output:** 

File Name Extension File Type FLC File Size

file txt text 1 750

Condition: file.txt does not exist in the working directory

Input: \$ ls file.txt

**Incorrect Output:** 

File Name Extension File Type FLC File Size

rand txt text 6 1525.

Correct Output: file.txt does not exist.

### 2.1.5 Make Directory

Condition: Current working directory does not contain newDir

Input: \$ mkdir newDir

Correct Output: Created Directory newDir — Incorrect Output: Anything else

Condition: Current working directory contains newDir

Input: \$ mkdir newDir

Correct Output: newDir Already Exists. — Incorrect Output: Anything else

Condition: Directory exists at /test/abs/file

Input: \$ mkdir /test/abs/file

Correct Output: /test/abs/file Already Exists

**Incorrect Output:** Anything else

Condition: No directory exists at /test/abs/file

Input: \$ mkdir /test/abs/file

Correct Output: Created directory /test/abs/file

Incorrect Output: Anything else

## 2.1.6 Print Working Directory

**Condition:** Current Working directory is *ParentDir* 

Input: \$ pwd

Correct Output: ParentDir — Incorrect Output: Anything else

#### 2.1.7 Remove

Condition: x does not exist

Input: \$ rm x

Correct Output: x does not exist in the working directory

**Incorrect Output:** Any other output.

Condition: x does exist

Input: \$ rm x

Correct Output: Nothing

Incorrect Output: x does not exist in the working directory

### 2.1.8 Remove Directory

Condition: Current working directory does contains newDir

Input: \$ rmdir newDir

Correct Output: Deleted Directory newDir — Incorrect Output: Anything else

Condition: Current working directory does not contain newDir

Input: \$ rmdir newDir

Correct Output: No Directory newDir — Incorrect Output: Anything else

Condition: Current working directory contains testfile.txt

Input: \$ rmdir testfile.txt

Correct Output: testfile.txt is a file. Use rm.

**Incorrect Output:** Anything else

### 2.1.9 Touch

Condition: x already exists in the working directory.

Input: \$ touch x

Correct Output: x already exists in the working directory

Incorrect Output: Any other output.

Condition: x does not exist in the working directory.

Input: \$ touch x

Correct Output: No output. — Incorrect Output: Any output.