

# Assignment: Navigating Hierarchical Directories and Working with Files

## Part 1: Creating a Directory Structure

Create a directory called "country" in your home directory.

Within the "country" directory, create four subdirectories called "state1", "state2", "state3", and "state4".

Within each "state" directory, create four subdirectories called "district1", "district2", "district3", and "district 4".

```
mkdir ~/country
mkdir ~/country/state1
mkdir ~/country/state2
mkdir ~/country/state3
mkdir ~/country/state4
mkdir ~/country/state1/district1
mkdir ~/country/state1/district2
mkdir ~/country/state1/district3
mkdir ~/country/state1/district4
mkdir ~/country/state2/district1
mkdir ~/country/state2/district2
mkdir ~/country/state2/district3
mkdir ~/country/state2/district4
mkdir ~/country/state3/district1
mkdir ~/country/state3/district2
mkdir ~/country/state3/district3
mkdir ~/country/state3/district4
mkdir ~/country/state4/district1
mkdir ~/country/state4/district2
mkdir ~/country/state4/district3
mkdir ~/country/state4/district4
```

## Part 2: Creating and Removing Files

Navigate to the "district1" directory within "state1" of "country".

Create a file called "myfile1.txt".

Navigate to the "district2" directory within "state1" of "country".

Create a file called "myfile2.txt".

Navigate to the "state3" directory within "country".

Create a file called "myfile3.txt" in the "district4" directory.

Navigate to the "country" directory.

Remove the "district1" directory and all of its contents.

Navigate to the "state4" directory within "country".

Remove the "district4" directory and all of its contents.

## Part 3: Using Relative and Absolute Paths

Navigate to the "state2" directory within "country".

Use a relative path to navigate to the "district1" directory within "state1".

Use an absolute path to navigate to the "district3" directory within "state2" of "country".

Use a relative path to create a file called "myfile4.txt" in the "district2" directory within "state1" of "country".

Use an absolute path to remove the "myfile3.txt" file that you created earlier in the "district4" directory with in "state3" of "country".

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