Needle in a Haystack

Group members:

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Objective: Place a needle in a haystack and find it.

Step 1: Create the Haystack in the home directory using the mkdir command.

mkdir haystack

Step 2: Create 500 folders

• mkdir ~/haystack/folder{1..500}

• ~/haystack/{folder1..500}

Step 3: Then create 100 files inside each of the 500 folders using find . -type d -exec touch {}/file{1..100} \;

• find . -type d --> searches directories in the directory structure.

• the rest of this function will place the 100 files in each of the found directories

Step 4: Test to see if the files were added into the folders by simply typing cd folder(any number within the range) example cd folder345 then type ls to see the contents.

Step 5: Change back to the home directory (cd ~). Use the command touch ./haystack/folder$(shuf -i 1-500 -n 1)/needle.txt which was instructed by the task to create and place a needle.txt file randomly in one of the 500 folders.

Step 6: Change directories to haystack (cd haystack). Then use find . -type f -name "needle.txt” to find the location of the needle.

Location of group member’s needles:

Hector: ./haystack/folder71/needle.txt

Cleon: ./haystack/folder205/needle.txt

Kohiin: ./haystack/folder363/needle.txt

Nabeel: ./haystack/folder413/needle.txt