

~/haystack/folder78/needle.txt -Levy
~/haystack/folder282/needle.txt-Brittney
~/haystack/folder200/needle.txt- Mohamed
~/haystack/folder389/needle.txt- Alex

mkdir haystack- create the directory haystack in home directory

mkdir folder{1..500} -creates 500 directories named "folder1" through "folder500" within our haystack directory

touch folder{1..500}/file{1..100}.txt -creates 100 text files named "file1.txt" through "file100.txt" within each of the 500 directories

touch ~/haystack/folder\$(shuf -i 1-500 -n 1)/needle.txt -inserts the needle into one of the folders in our 500 directories

find -name needle.txt - finds file named "needle.txt" within our haystack directory with the find command

OR

sudo apt install mlocate- install the mlocate package

locate needle.txt - finds file named "needle.txt" within our haystack directory with the locate command

touch ~/haystack/folder\$(shuf -i 1-500 -n 1)/needle.txt

Shuf- shuffling through the folder, picking a random folder

-i - input-range which is 1-500 folders

-n - limit the number of lines in the shuf output