Test a command-line program that supports "find" operation as follows:

Command:

find

Syntax:

find <pattern> <file>

Function:

The find command is used to locate one or more instances of a given pattern in a text file. All lines in the file that contain the pattern are written to standard output. A line containing the pattern is written only once, regardless of the no. of times the pattern occurs in it.

The pattern is any sequence of characters whose length does not exceed the maximum length of a line in the file. To include a blank in the pattern, the entire pattern must be enclosed in quotes ("). To include a quotation mark in the pattern, two quotes in a row ("") must be used.

Examples:

find john myfile displays lines in the file myfile which contain *john*.

find "john smith" myfile display lines in the file myfile which contains *john smith*.

find "john" " smith" myfile display lines in the file which contains john" smith.

When file is considered as a parameter, we need to consider the following:

- no. of occurrences of the pattern in the file.
- no. of occurrences of the pattern in a line that contains it.
- maximum line length in the file

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Identified Category-Partitions by focusing on input parameters and related partitions::

Category partitions for this example:

Parameter "Pattern" related partitions:

- Pattern size:

empty
single character
many character
longer than any line in the file

-Quoting:

Pattern is quoted
Pattern is not quoted
pattern is improperly quoted

Parameter "Pattern" related partitions:

- Embedded blanks:

no embedded blank
One embedded blank
Several embedded blanks

- Embedded quotes:

no embedded quotes One embedded quote Several embedded quote

Parameter "File" related partitions

- File name:

Good file name
No file with this name
Omitted

- File access environment

File not accessible

File can't read

File can't open

- No. of occurrences of pattern in the file.

None

Exactly one

More than one

-Pattern occurrences on target line in the file:

one

more than one

None

Command line related partitions:

:

Command line:
Incorrect "command"
Correct "command" with correct parameters
Missing input parameters
Extra input parameters