1.Black box testing to find a pattern in a file

# File

Size:

Empty. [single][property emptyfile]

Not empty.

Number of occurrences of the pattern in the file:

None. [single][if !emptyfile] [property noOccurences]

One. [if !emptyfile]

Many. [if !emptyfile]

Number of occurrences of the pattern in one line:

One. [if !noOccurences && !emptyfile]

Many. [single][if !noOccurences && !emptyfile]

Position of the pattern in the file:

First line. [single][if !emptyfile]

Last line. [single][if !emptyfile]

Any. [if !emptyfile]

# Pattern

Length of the pattern:

Empty. [single][property emptypattern]

One. [single]

More than one. [property patternlengthgt1]

Longer than the file. [single]

Presence of enclosing quotes:

Not enclosed. [if !emptypattern]

Enclosed.

Incorrect. [error]

Presence of blanks:

None.

One. [if !emptypattern]

Many. [if !emptypattern && patternlengthgt1]

Presence of quotes within the pattern:

None.

One. [if !emptypattern]

Many. [single][if !emptypattern && patternlengthgt1]

# Filename

Presence of a file corresponding to the name:

Not present. [error]

Present.

Test Case 1 <single>

Size : Empty

Test Case 2 <single>

Number of occurrences of the pattern in one line : Many

Test Case 3 <single>

Length of the pattern : Empty

Test Case 4 <error>

Presence of a file corresponding to the name : Not present

Test Case 6 (Key = 2.2.1.3.3.1.1.1.2.)

Size : Not empty

Number of occurrences of the pattern in the file : One

Number of occurrences of the pattern in one line : One

Position of the pattern in the file : Any

Length of the pattern : More than one

Presence of enclosing quotes : Not enclosed

Presence of blanks : None

Presence of quotes within the pattern : None

Presence of a file corresponding to the name : Present

Test Case 7 (Key = 2.2.1.3.3.2.1.1.2.)

Size : Not empty

Number of occurrences of the pattern in the file : One

Number of occurrences of the pattern in one line : One

Position of the pattern in the file : Any

Length of the pattern : More than one

Presence of enclosing quotes : Enclosed

Presence of blanks : None

Presence of quotes within the pattern : None

Presence of a file corresponding to the name : Present

Test Case 8 (Key = 2.3.1.3.3.1.1.1.2.)

Size : Not empty

Number of occurrences of the pattern in the file : Many

Number of occurrences of the pattern in one line : One

Position of the pattern in the file : Any

Length of the pattern : More than one

Presence of enclosing quotes : Not enclosed

Presence of blanks : None

Presence of quotes within the pattern : None

Presence of a file corresponding to the name : Present

Test Case 9 (Key = 2.3.1.3.3.1.2.2.2.)

Size : Not empty

Number of occurrences of the pattern in the file : Many

Number of occurrences of the pattern in one line : One

Position of the pattern in the file : Any

Length of the pattern : More than one

Presence of enclosing quotes : Not enclosed

Presence of blanks : One

Presence of quotes within the pattern : One

Presence of a file corresponding to the name : Present

Test Case 10 (Key = 2.3.1.3.3.2.1.2.2.)

Size : Not empty

Number of occurrences of the pattern in the file : Many

Number of occurrences of the pattern in one line : One

Position of the pattern in the file : Any

Length of the pattern : More than one

Presence of enclosing quotes : Enclosed

Presence of blanks : None

Presence of quotes within the pattern : One

Presence of a file corresponding to the name : Present

2.White box testing

|  |  |  |
| --- | --- | --- |
| Cond1 | Cond2 | output |
| F | F | T |
| F | T | T |
| T | F | T |
| T | T | F |

1. Never
2. sometimes
3. always