The basic sed by examples

CS 2XA3

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Outline

Examples

Processing cycle

Substitution

Examples

sed -e 's/oldstring/newstring/g'infile > outfile

- –e means expression
- s means substitute
- replaces oldstring by newstring in infile
- g means global: replaces all occurrences
- > means that the output is redirected to outfile

Examples

- sed -e '1,8d' infile removes lines with numbers 1 to 8
- sed -e '/include/d' infile removes the lines that contain include
- sed -e '/^FIRST/, /^LAST/d' infile removes the lines between a line starting with FIRST and a line starting with LAST

indicates the beginning of line, \$ the end of a line

Processing cycle

sed

- reads a line from a file into a buffer
- executes the command (or commands) on the buffer
- outputs the buffer to the standard output

```
sed -e 's/pattern1/pattern2/'
sed -e 's/pattern1/pattern2/g'
pattern1 text to be replaced; can be a regular
expression
```

```
#!/bin/bash
echo "the first application of sed"
sed -e 's/^\([0-9]\{3\}\)/(\1)/' s.txt
echo "the second application of sed"
sed -e 's/^\([0-9]\{3\}\)/(\1\+\1)/' s.txt
echo "see the original file"
cat s.txt
```

the first application of sed

$$(905) - 123 - 3456$$

$$(905) - 124 - 3456$$

$$(905) - 125 - 3456$$

$$(905) - 126 - 3456$$

$$(905) - 127 - 3456$$

the second application of sed

$$(905+905)-123-3456$$

$$(905+905)-124-3456$$

$$(905+905)-125-3456$$

$$(905+905)-126-3456$$

$$(905+905)-127-3456$$

cont' on the next slide



cont' from the previous slide

see the original file

905-123-3456

905-124-3456

905-125-3456

905-126-3456

905-127-3456