

1. List the members of your group below. Underline your name.
2. Indicate the output of each of the following. *Explain* your answers briefly, focusing on the interesting aspects.

(a) `echo 42 is the answer | sed 's/[0-9]*/&&/'`

(b) `echo the answer is 42 | sed 's/[0-9]*/&&/'`

(c) `echo 42 is the answer | sed 's/[0-9]*/&&/g'`

(d) `echo the answer is 42 | sed 's/[0-9]*/&&/g'`

(e) `sed -n 's/a/A/2pw /tmp/file' <old >new`

3. Provide *sed* commands for each of the following. *Explain* your answers briefly.

(a) Replace all negative numbers that use the minus-sign notation (e.g., ‘`-173.289`’) with equivalent ones using the parenthesized notation sometimes used in financial documents (e.g., ‘`(173.289)`’).

(b) Print exactly those input lines that contain a 5-letter palindromic word.

(c) Read a file `datafile` containing one integer per line and write to 10 files `dat0` through `dat9` such that the file `dat i` consists of the input lines that have numbers whose last digit is i .

(d) Replace all instances of `/mydir/x/y/z` (for any values of the variables x , y , and z) with `/mydir/z/y/x` on input lines whose first nonblank character is `#`.