## Quiz Answers

CS-330 Unix and Network Programming

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### Contents

| 1 | Quiz 6: Awk                 | 2 |
|---|-----------------------------|---|
| 2 | Quiz 7: Sed                 | 3 |
| 3 | Quiz 9: Systems Programming | 4 |

# Quiz 6: Awk

- the space character

| '      |   |
|--------|---|
|        | nich function in awk is used to divide a string into pieces separated by the field perator and store the pieces in an array ? |
| -      | - split   |
| • Wh   | nat is the meaning of the \$0 variable in awk?  |
| -      | - it holds the entire record  |
| • awl  | k reads input lines automatically   |
| -      | - true  |
| • Var  | riables in awk are initialized how?   |
| -      | - to 0 or "" depending on context when first used   |
| • Eve  | ery awk program must use the BEGIN and END patterns.  |
| _      | - false   |
| • Wh   | nich command line option allows to specifiy an awk program in a file?   |
| _      | f   |
| • awl  | k allows strings as array index.  |
| _      | - true  |
| • awl  | k can use which character as field seperator ?  |
| -      | - any character   |
| • In a | awk, strings printed with the "%20s" printf directive will always be left justified.  |
| -      | - false   |
| • Wh   | nat is the string concatenation operator in awk?  |

#### Quiz 7: Sed

- In sed, the "i" command adds lines before the address
  True
  In sed, when using a range address, the lines specified need not be consecutive.
- In sed, the dollar sign (\$) can be used as a single line address. What is its meaning?
  - the last line of input
- If the exclamation mark "!" is used after an sed address, then it will only search for obsolete lines.
  - False
- Which character is used to delimit the search and replacement components of the sed "s" command?
  - any, as long as all 3 are the same
- If sed is invoked as "sed -n" then it sorts its input numerically.
  - False
- The sed editor can be called from a shell script
  - True
- Which of the following utilities can be used to systematically process files?
  - all of the above
- Which of the following is NOT a valid address type for sed?
  - sublet address
- If no address is specified for the sed command then the command is applied to every input line.
  - true

### Quiz 9: Systems Programming

- The C library function perror translate an error code into an understandable error message.
  - True
- In C++, C strings are handled the same way as instances of the standard string class.
  - False
- C++ can call functions from the standard C library.
  - true
- In C++ what is the correct include to use the strlen or strepy library functions?
  - include <cstring>
- The C regular expression library uses 2 functions: regcomp and regexec. Which statement is true about these functions?
  - regexec runs the search that was prepared by regcomp
- For the strcpy C library function, the size of the destination array must be long enough to contain the source string including the terminating null character.
  - true
- A C++ program cannot access environment variables.
  - false
- C library function exit terminates a process and allows to set the return status. A status of 0 indicates failure.
  - false
- The C structure direct does not contain the file name.
  - false
- Which C library functions enable directory I/O ?
  - opendir, readdir

When it lands on the spring it has the same energy as above  $\frac{1}{2}mv_i^2 = 79J$ . That will all go into spring potential energy

$$79J = \frac{1}{2}kl^2$$

$$\implies x = 0.4m.$$