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ID Number

Final Exam System Programming Spring 2011

current directory. The content of this file is: This exam follows a simple format. We imagine that there is a text file named a txt residing in the

% head -15 a.txt ALICE'S ADVENTURES IN WONDERLAND Lewis Carroll

THE MILLENNIUM FULCRUM EDITION 3.0

CHAPTER I. Down the Rabbit-Hole

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into book her sister was reading, but it had no pictures or conversations it, 'and what is the use of a book,' thought Alice 'without pictures conversation?' or 0r

she was considering in her own mind (as well as she could, for

letters for that choice into the space to the right of the question. for that output in the list of choices file that you have received. If you find it, write the pair of Now, for each of the commands shown below, decide what the proper output should be. Then look

If you don't find it, choose the option "BW". If there is no output, then choose "BV"

Let me answer a few concerns here:

- 1. There are no errors in the commands below.
- 2. The commands are run in C shell (tcsh).
- 3. More than one command may produce the same output. So you might use the same letter-pair in several places.
- I have intentionally put some incorrect choices into the output. So some letter-pairs will never used.
- Spaces matter, as do blank lines. The output only matches if it is a perfect match.
- 9 alphabetical order - based on the first output line, and also based on shorter outputs going first. To make your searching faster, you can see that I have grouped the choices. They are kind of in
- Most questions are worth one point. But longer commands may be worth up to 3 points

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 awk
               awk'/the/{total} =
                                           'END{print NR}'
                                                          'NF{$0=++a " "
                                                                                                     'BEGIN{ORS="\n\n"};1'
'{i=NF/2; print $i, $i+1 }'
                             '{for (i=1; i<=NF; i++)
                                                           $0};1'
            total + NF }; END {print
                             s=s+$i}; END{print
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nt s}'
total}'

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                                                        tr -d "A-Za-z"
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                                          -d "A-Za-z"
                            -d "A-Za-z"
              -d "A-Za-z"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -4 | awk '{for (i=1; i<=NF; i++) {if ($i in A) printf ("%s ",A[$i]);
                                                                                                                                                                                   '/^$/d;G'
                                                                                                                                                                                                             'BEGIN{FS="\n";OFS=" ";RS="
                                                                                                                                                       '/the/{x;p;x;}'
                                                                                                                                                                    '/^$/d;G'| sed
                                                                                                                                                                                                                                                                                                             '/do/{print x};{x=$0}'
                                                                                                                                                                                                                                                                                                                                                      '/the/ p'
's/[A-Z]/&/g'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ',$i); A[$i]=++x}};print ""}'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             awk \{a[i++]=\$0\} END \{for (j=i-1; j>=0;) print a[j--] \}
                                                                                                                                                                                                                                                                                                                                                                                                                                         tr " " "\n"
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                             awk
                                          awk
                                                                                                                                                                     l 'n;d'
                                         '/./{$1=$1}'
              's/^[ \t]*//'
                           '/[.]/{$1=$1}1'
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ID Number

a.txt

sed

s/[A-Z]/[a-z]/g

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                                                                                                                                -n '/^$/{p;h;};/./{x;/./p;}'
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                                                                                                                                                            -n -e :a -e '1,5\!{P;N;D;};N;ba'
                                                                                                                                                                        -е :а -е '$d;N;2,5ba' -е 'Р;D'
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                                                                                                                                                                                                                                                       -n '8,12p'
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                                                                                                                                                                                                                                                                                             -n '/WONDER/{n;p;}'
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                                                                                                                                                                                                                                                                                                                        '/the/\!d'
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                                                                              -c "a-zA-Z" "n-za-mN-ZA-M"
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p; 3p; 5p'
              5p'
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'P;D'

'n

Here 1 S the input file:

% head -15 a.txt ALICE'S ADVENTURES] Lewis Carroll IN WONDERLAND

THE MILLENNIUM FULCRUM EDITION 3.0

CHAPTER I. Down the Rabbit-Hole

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, 'and what is the use of a book,' thought Alice 'without pictures or conversation?'

% S she was considering in her own mind (as well as she could, for the

And here are the choices

AA:

ALICE'S ADVENTURES Lewis Carroll IN WONDERLAND

AB: ALICE'S ADVENTURES \exists WONDERLAND

ALICE'S ADVENTURES
Lewis Carroll IN WONDERLAND

AD: ALICE'S ADVENTURES IN WONDERLAND

E'S ADVENTURES
S Carroll
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bank, having nothing to do: once or. ce she had peeped into the

ALICE'S ADVENIURES Lewis Carroll IN WONDERLAND

THE MILLENNIUM FULCRUM EDITION 3.0

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CHAPTER I. Down the Rabbit-Hole

ALICE'S ADVENTURES O CHAPTER I. H WONDERLAND Lewis Carroll 田田 MILLENNIUM FULCRUM **EDITION** w

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ALICE'S ADVENTURES IN WONDERLAND
Lewis Carroll
THE MILLENNIUM FULCRUM EDITION 3.0
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ADVENTURES \exists WONDERLAND

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Lewis Carroll
ALICE'S ADVENTURES IN WONDERLAND

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Lewis Carroll

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