Report for Lab Work 06: Linux Shell. Files Globbing & Streams Redirection.

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| **Student Name Surname** | **Student ID (nV)** | **Date** |
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3.1. Table 1. File Globbing Understanding.

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| Nr | Task Description | Your Answer |
| 0 | Create a test directory and enter it. Create the following files:  prog.c prog1.c prog2.c progabc.c prog  p.txt p1.txt p21.txt p22.txt p22.dat  Which of these names match the search patterns? | Write directory and files creation commands |
| 1 | prog\*.c |  |
| 2 | prog?.c |  |
| 3 | p?\*.txt |  |
| 4 | p[12]\* |  |
| 5 | p\* |  |
| 6 | \*.\* |  |

3.2. Table 2. File Globbing Creation.

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| Nr | Task Description | Your Answer |
| 0 | Create a test directory and enter it. Create the following files:  file1  file10  file11  file2  File2  File3  file33  fileAB  filea  fileA  fileAAA  file(  file 2 #(the last file name has 6 characters including a space)  What search patterns match these names? | Write directory and files creation commands |
| 1 | List (with ls) all files starting with file |  |
| 2 | List (with ls) all files starting with File |  |
| 3 | List (with ls) all files starting with file and ending in a number |  |
| 4 | List (with ls) all files starting with file and ending with a letter |  |
| 5 | List (with ls) all files starting with file and having a digit as fifth character |  |
| 6 | List (with ls) all files starting with file and having a digit as fifth character and nothing else |  |
| 7 | List (with ls) all files starting with a letter and ending in a number |  |
| 8 | List (with ls) all files that have exactly five characters |  |
| 9 | List (with ls) all files that start with f or F and end with 3 or A |  |
| 10 | List (with ls) all files that start with f have i or R as second character and end in a number |  |
| 11 | List (with ls) all files that do not start with the letter F |  |
| 12 | List (with ls) all files that do not ending with a letter or number |  |
| 13 | Create new directories tree systematically for CurrentYear/MonthsNumber  use composite command construction from elements: mkdir, `date +%G` and {1,2,3…,12} |  |
| 14 | Create new directories tree systematically for CurrentMonthsName/DaysNumbers |  |

3.3. Table 3. Command I/O Redirection Understanding.

When building pipelines (command1 | command2), for which of the 32 commands below the concepts are appropriate:

* both stdin and stdout;
* only stdin;
* only stdout;
* no stdin nor stdout?

pwd, cd, ls, mkdir, rmdir, rm, mv, ln, du, touch, cat, cp, find, more, tail, head, file, banner, who, id, uname, date, cal, wc, chsh, exec, echo, export, readonly, set, unset, passwd.

Note, a construction below is not considered stdout:

$ command --help > file-out

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| **Have both stdin and stdout** | **Have only stdin** | **Have only stdout** | **No stdin nor stdout** |
| cat |  | pwd | cd |

3.4. Table 4. Command Piping Understanding.

For the commands (who, wc, pwd, cat, uname, id, echo, banner, passwd, set, more) analyze the existence of all possible combinations of pipe pairs of the forms:

$ command1 | command2

$ command2 | command1

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|  | **who** | **wc** | **pwd** | **cat** | **uname** | **id** | **echo** | **banner** | **passwd** | **set** | **more** |
| **who** | - |  |  |  |  |  |  |  |  |  |  |
| **wc** |  |  |  |  |  |  |  |  |  |  |  |
| **pwd** |  |  |  |  |  |  |  |  |  |  |  |
| **cat** |  |  |  |  |  |  |  |  |  |  |  |
| **uname** |  |  |  |  |  |  |  |  |  |  |  |
| **id** |  |  |  |  |  |  |  |  |  |  |  |
| **echo** |  |  |  |  |  |  |  |  |  |  |  |
| **banner** |  |  |  |  |  |  |  |  |  |  |  |
| **passwd** |  |  |  |  |  |  |  |  |  |  |  |
| **set** |  |  |  |  |  |  |  |  |  |  |  |
| **more** |  |  |  |  |  |  |  |  |  |  | + |

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