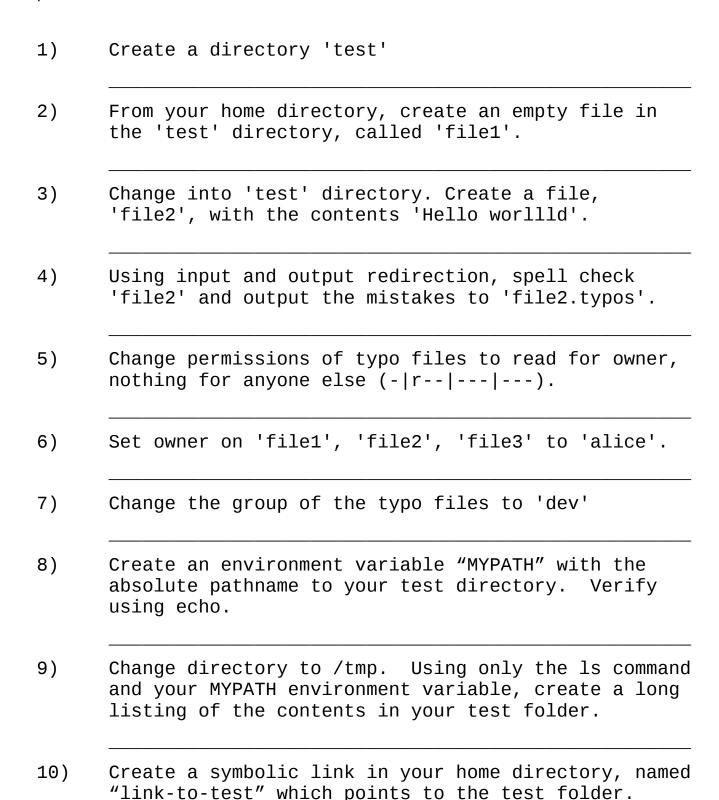# Skills Test

Instructions: This is just a skills test, taken before and after the class to measure knowledge transfer. You are not expected to know every answer when first taken, but hopefully when taken again at the end of the class, there will be a marked improvement in your scores. Follow the directions closely, and note that some questions build on previous results.

1)   Create a directory 'test'

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2)   From your home directory, create an empty file in the 'test' directory, called 'file1'.

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3)   Change into 'test' directory. Create a file, 'file2', with the contents 'Hello worllld'.

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4)   Using input and output redirection, spell check 'file2' and output the mistakes to 'file2.typos'.

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5)   Change permissions of typo files to read for owner, nothing for anyone else (-|r--|---|---).

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6)   Set owner on 'file1', 'file2', 'file3' to 'alice'.

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7)   Change the group of the typo files to 'dev'

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8)   Create an environment variable "MYPATH" with the absolute pathname to your test directory. Verify using echo.

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9)   Change directory to /tmp. Using only the ls command and your MYPATH environment variable, create a long listing of the contents in your test folder.

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10)   Create a symbolic link in your home directory, named "link-to-test" which points to the test folder.

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11) Name 10 metacharacters.

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12) Perform an apropos search for "passwd" and count how many man pages reference the term. Do not use your finger to count – use a unix tool and a pipe to do it for you.

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13) In your own words, explain the three permission bits (r, w, x) and how they control access to files versus directories.

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14) Explain how the three permission access levels (u, g, o) work.

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15) From the '/' directory, create a tar file backup of the '/home' directory.

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16) Create a new group called 'dev'.

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17) Create a new user called 'alice' as a member of the 'dev' group, with description 'Alice from dev' and a default shell of '/bin/csh'.

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18) Generate an alphabetized list of the installed RPM's on your machine.

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19) Use ifconfig to set the address on eth0 to 192.168.1.101 with a netmask of 255.255.248.0.

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