程序航石低低低编程辅导

The following practicals have not been tested on Ubuntu, so some may not work as described as the second se

The Linux Pro

In Linux the newline-charac line command.

s the newline-character. By escaping the ystem knows the current command is a multi-

Example 3

\$ echo This is the first \

> of a multipline columnated. cstutorcs

This is the first of a multi-line command.

Customising the Project Exam Help

Linix allows you to customise the way its prompts are displayed. Escape sequences can be used to customise the prompt. Note that not all escape sequences may work at 1: tutores @ 163.com

Sequence	<u>Output</u>
\d	date (). 740200476
\H	hosing 749389476
\h	hostname up to first.
\n	carriage return line feed
\t	timetin He MW & Buformetos com
\u	tirnetit by M. Enforces.com username
\w	current directory
\W	basename of current directory
\!	history number

Profile

Find the profile file (probably in /etc). Try to work out what some of them control.

Alter the prompt:

PS1= "\h \d \t yourname > "

To start an application type its name at the command prompt e.g. gedit

Try to use the command line whilst the window is open. Close gedit.

Ways to customise your environment to CS编程辅导

Typically have upper case names

Can be seen by running processes you own.

Are usu: I n file.

Type setenv to

Some useful S

path a list of the current (the current current) and the current current (the current) and the current curre

path=/bin:/usr/bin:/user1/bin::

prompt the prompt: Can be changed, e.g. set ps1 = \$

user your username

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argv contains list of command line arguments supplied at invocation of

the shell.

history when set do a number, stores that number of previous commands.

e.g. set history = 20

home contains the containing the rectory

ignoreeof disable CTRL/D to exit a shell. Type exit instead. Just needs to

exist. e.g. set/ignoreeof NUDS.//LULOTCS.COM

noclobber just needs top be set (to anything). Prevents accidental

overwriting of files with > and >>. Will tell you if file exists. E.g. set

noclobber

Aliases

Are local to your shell

- Usually set in your .cshrc file, which is read by the shell every time it starts.
- Aliases set up at the command prompt are lost when that shell is exited.

Type alias to view them all

Safety aliases alias cp cp –i alias rm rm -i

alias dir=ls alias l='ls –ltr' – alias up='cd..' unalias removes named alias

Password file 序代写代做 CS编程辅导

Everybody has read access to the password file.

All you can change is the encrypted password.

/etc/passwd

A typical entry:

mread : k8q23 Read – staff: /home/staff/martin:/bin/csh

this consists of the user id: encrypted password: user no.: group no.:

comment: home directory: login programme

The login programme Chat: cstutorcs

• Is usually a shell

• When the ogic programmetent in the one is to goed fout.

If the system administrator wishes a user to execute one application only, then the name of the login programme can be set to the name of that application. When the application finishes, the user is logged out. They have access to no other parts of the system.

The utility ypcat knows where to find the password file.

ypcat passwd | grep yourname

ypcat passwd https://tutorcs.com

will tell you how many registered users are logged on. Read about wc in the manual.

Logging out

Type logout or CTRL+D

The .login File

Many user specific commands can be executed by putting them in a file which is usually called .login, which is read upon logging in. Each different shell has its different .login file. For example, the tcsh shelll uses a .tcshrc file.

The sh shell uses a file called .profile which is read when a user logs on. When bash is run as an interactive login shell, it first reads and executes commands from the file /etc/profile (if that file exists). After reading that file, it reads and executes the first of for ~/.bash profile, ~/.bash login, and /.profile. When an interactive shell that is not a login shell is started, bash reads and executes commands from ~/.bashrc. if that file exists.

If you put the following mastin for bash title concernation and secondary prompt if bash is your shell.

Example 4
PS1=" \! \h \w\\
PS2="\\$ "
export PS1
export PS2

The export state of the variables will be set to the last value that was assigned to them

Useful commands Chat: cstutorcs

finger - Lists information about users

http://www.compaterhope.com/unix/ufingPhtmject Exam Help

whois - Internet user name directory service

http://www.computerhope.com/unix/uwhois.htm

Email: tutorcs@163.com

who - Displays who is on the system

http://www.computerhope.com/unix/uwho.htm

 $\begin{array}{c} \text{http://www.com} Q_{t}Q_{ope}.749389476 \end{array}$

At a very low lever input/output From to the new Stary Emiliary access to 12 channels. Commands are free to use channel 3{9 as they like.

• Channel 0 is called stdin. It is reserved for the standard input of a commar

Channe ... It is reserved for the standard output of a commar

Channe Ch

Good comman Live Live Luestions posed to user onto stderr.

Output and Input Redirection

Two extremely useful concepts are output redirection and input redirection. They are as common as are pipelines. Output redirection lets you redirect from a certain channel to a file or another channel. Input redirection lets you put the contents from a file or a channel onto a certain channel.

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Redirection Operators Construct Semantics

cmd < file cmd tets standard input from file at 163.com cmd > file send standard output from cmd to file 163.com

cmd 1> file send standard output from cmd to file

cmd 2> file send standard errors from cmd to file

cmd >> file append standard output from cmd (to file

cmd 1>> file append standard output from cmd to file

cmd 2>> file append standard errors from cmd to file

Examples

https://tutorcs.com

\$ cat file

A line of text.

\$ echo hello > file

\$ cat file

hello

\$

\$ Is file nofile

Is: nofile: no such file or directory file

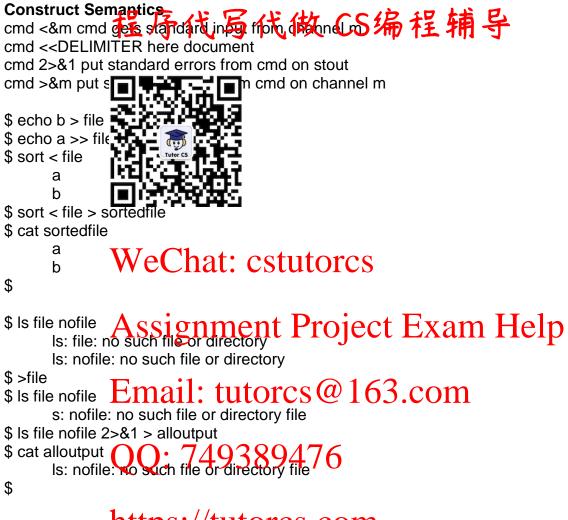
\$ Is file nofile 2> errors

file

\$ cat errors

ls: nofile: no such file or directory

\$



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The find Command



Examples. Try to work out what they mean:

We have covered permission bits. Find all the files in the current directory whose permission bits (-perm) have the octal value 740 (what does this mean?).

How would you find all the files in the current directory whose permission bits have the octal value 744 and whose names start with a B?

Other Options

-print tells find to print the name of the file (default).

The following two find commands do exactly the same:

```
find ~ -name "*.txt" find ~ -name "*.txt" -print
```

-exec lets you apply commands to the files that are found.

-ok is the same as -exec but asks if you're sure you want to apply the command.

Apply the command Is –I to each of these files: find ~ -name "*.txt" -exec Is -I fg \;

Filename substitution using metacharacters

Filename substitution transforms shell commands by replacing specifications of filenames to existing filenames. The sequence 'a*' means any sequence of characters which starts with an 'a' followed by zero or more other characters.

Given this list c commands retu

Is a*
Is b*
Is *b
Is *c*

The symbol '?' will match any single character. What will the following return?

ls? WeChat: cstutorcs

ls?a

ls a?a

Is c?c Assignment Project Exam Help

b ba b bb bc ccc) what will the following

Using [...]

The sequence [character sequence] will match any character in the sequence enclosed by the squarethrackets (assuring the fils character biffers from ! or (if your shell supports it) ^).

e.g. [a-z] indicates the characters in the range a to z and [axc-fz] is equivalent a [axcdefz].

ls [ab] ls b[ac]

Is [ab]* https://tutorcs.com

The construct [!chars] will match any character which is not in the sequence enclosed by the square brackets.

ls [!ac]* ls ?[!ab]* ls *[!a]

Run the *man* command on *find*. Study the -newer option of find.

Use the *mkdir* command (make directory) to create a directory called tmp in you home directory. Use *cd* (change directory) to make it your current directory. Create each of the following files: a, b, c, aa, ab, ba, cc, bab. Try selected the files using Is with the following?

a* a? *a ?a ?

[a-z]*

[!a-z]*

The find Command - answers Find all files called appointments in the director constant 程 辅 导

find todo -name appointments

Find all files where the find ~ -n-we will be a find a fin

Find all files where the root directory (1) find / -na

Find all files in the root directory belonging to root (the super-user) as follows: find / -user root

Find all files in the root directory belonging to the group root as follows: find / -group root

Find all the files in the Styrint methy (all of the octal value 740.

find . -perm 740

Find all the files in the current directory whose permission bits have the octal value 744 and whose names start with a B.

find . -name "B*" -perm 744 QQ: 749389476

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Processes and programmes

ps – process s ation on one or all processes running.

Look up the op ps – l

rer, PID – process number, PPID – process number of pare no computer time assigned to the process in milliseconds, Size – in the interpretable by the programme, RSS – programme size in main memory, WCHAN – even the process is waiting for, STAT – process status R for running, S for sleeping, TTY – terminal process started from, TIME — the computer (that used)) ** CS**

top – reads the proc file system at regular intervals and gives information on current system data and status of processes. Can also be used to send signals to process signals to process signals to process.

The lines at the top refer to system data:

Uptime – shows the current time, time passed last system restart, number of active users, average 6FU load in the last 15 minutes 64n also be given by the commands uptime and w.

Processes – shows all the processes on the system. Idle, executable, scheduled and halted. 749389470

CPU states – the current computer performance by users and the system.

Memory – current memory load. Available main memory and current usage – used, free, shared and buffer. Can also be given by the command *free*.

Swap – statistics for the swap area (if present). Can also be given by the command *free*.

Press q to quit.

time – gives information on the system resources used by a programme over its' running time e.g. execution time, operating system kernel time for system calls, etc.

There are 2 versions. The command interpreter for shell tcsh contains a time function and the directory /usr/bin has a time version.

The version of time in tcsh called without options provides information on the computer time used by the current shell.

/usr/bin/time always has to be used with a further command:

time command

Output the time used time taken for processing the pregramme code and system calls and percentage of CPU load over to help of amilia. Also gives average size of the memory used (divided, undivided, resident) and number of accesses to the file system, number of accesses to swapped pages. The number of swa

Creating pro

To create a new rating system kernel uses the system call fork(), which critical rating system kernel uses the system call then uses exect the system by the programme could be rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork(), which critical rating system kernel uses the system call fork().

Try the following C programme. Compile it using cc (or similar compiler e.g. gcc) and run it. We Chat: cstutorcs

Locate

There is a faster way to find file than using the find command to every directory & subdirectory in turn to see if the files you want are there). This is by using the locate command.

locate files. Locate searches partial This searches are unnecessary. 'file':

Locate all files

locate fi To generate the

updatedb

this will take a while to build the database You will need to be logged on as root or superuser otherwise there are some directories you cannot scan due to permissions.

ssignment Project Exam Help

Open a shell as root user and create the index.

Grep General Regular Explession Parser is a useful Linux command. It is a utility for finding strings in files. You can run it directly on a file or use it as a filter in a pipeline (more on pipelines in another practical).

grep "this" myfile.txt

-c prints a count of matching lines

- -f only shows matching lines I het the hardes
- -l only show filenames not matching lines
- -l ignore case
- -n print line numbers
- -v find lines which don't match
- -w only match whole words
- -x only match whole lines
- -q no output for use in shell scripts. Exit status is 0 if any matches found, otherwise 1.

\$ grep is <<EOF

- > A horse is a horse
- > Of course of course
- > And no one can talk to a horse,
- > Of course
- > That is, of course
- > Unless the horse
- > Is the famous Mister Ed!
- > EOF

A horse is a horse That is, of course

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Special characters

Some commands understand a further set of special regular expression characters. The egrep & gawk.

Egrep is extend thing.

also be used with -e option to do the same

Gawk is the GI The Control of the Unix tool "awk" which is a scripting language used sing. See online documentation.

+ match one or more
? match zero or one
| means W, as in match A GSTUTOTCS
(and) used to group expressions together

e.g. Assignment Project Exam Help Standard [a-zA-Z] extended [a-z] [A-Z]

Standard [A-Z][a-zA-Z]* means a word which *must* begin with a capital letter Extended [A-Z]2[a-zA-Z]+ means a word which *may* begin with a capital letter. Email: tutorcs @ 163.com

More on Processes & programmes

Every background programme you start is called a *job*, which can consist of several *processes*. O: 749389476

Is -I | pr -h "Myfiles" | Ip &

Consists of 3 difference of the command will tell you which jobs are active. The current job has a + sign in front.

If you start a job in the foreground and want to make it a background process, press CTRL+Z (to pause the job) followed by *bg*. You could pause the job, run another programme, then type *fg* to continue the original job. Jobs can be stopped using the kill command (see below) using the job identifier from *jobs*.

Try the above by starting an emacs editor in the foreground. Pause the job, run a listing, then start the job again in the foreground. Pause the job and run it in the background.

More on process status

There are several versions of *ps* depending on the version of Linux/unix you are running.

The boot process runs a number of processes known as 'daemons' to look after the print queue, networking, etc.

Shows all the processes on the system (or use -e) and the username they are running under. The process with pid of 1 le called bit in is process starts all the others. Using the -l option you can see the parent process (ppid) of each process.

To look for the purple in by a particular user, you can pipeline the output into greet and the second secon

ps uax | tube cs | tube cs

You can produce a sorted output using the '-sort' option.

ps uax — sert "uid—size, +stime" WeChat: CStutorcs

sort by user ID, then the memory used, then in order of system time.

You can also tell psynging explicitly what to put yit and thou to saith Help it. The -o flag is for user defined format.

ps -e -o format output_modifiers @ 163.com

ps -e -o pid,user,%cpu,%mem,comm --sort user

Some ps versions also support NIX som at descriptors.

Sometimes you may want to see what processes are doing – e.g. one is taking up too much memory or process time. The command to do this is *top*, because it shows process if Copp usage.

Some tasks require a for of CPU time the cause is any tegrate the performance of the system. You can adjust the percentage of CPU time commands get using the *nice* command.

Each process legets. You can 1

determines how much share of the CPU it process in several way.

The priority is usually shown as PRI using top.

You can change the priority of a process using the *nice* command. **CSTUTOTCS**

nice myprogram&

Run myprogram With sign princity than Parel ject Exam Help

The nice command allows you to run a command with a certain nice level.

nice -n le manified tutores @ 163.com

Each process that is carried out has a priority level, usually a number between -20 & 19. Usually, (n) root is allowed to suppose with a negative level.

You can also change the priority of a running process using the 'renice' command. You can only affect your own processes, unless you are the superuser, and users an normal vortice of their nice levels.

renice -2 –p 301 Reduce the priority of process id 301 by 2

renice 15 –p 302 Change the priority of process id 3023 to 15

Stopping processes

The 'kill' command is used to stop a process. This sends the process a 'SIGTERM' signal, meaning terminate.

kill 1502

meaning terminate pid 1502

Some processes will not respond (if they are in an error condition, or are programmed to ignore SIGTERM) or close down slowly. Use -9 option to kill the process immediately

kill -9 1502

Shell scripts 程序代写代做VCS编程辅导

Shells allow your life easier or complex or complex or complex) "shell scripts" to make your life easier or commands, or when you want to do som the second of commands, very you would use the commands if you typed them from the second or complex or comp

UNIX shell scriptor OS "batch" files (.bat extension), but the operating system of the X are much greater in number and more powerful than those available in DOS.

A shell is any collection of quitmands stouddings file.

A shell script does not have to be marked executable, but will have to be invoked in a subshell using ksh script

Assignment Project Exam Help

Use chmod +x script to allow direct execution Script runs the script in your current shell environment

Shell Input and Output tutores @ 163.com

The echo commends used to print things.

```
$ echo "This is a string"

This is a string"
$ echo "This is a string"

This is a string

This is a string
$
```

The echo command normally adds a newline after the last character of the string. By putting the two characters \c at the end of the string, you can tell echo that it should not print the newline.

```
$ echo "This is your prompt:\c"
This is your prompt:$ echo "Ah. I see."
Ah. I see.
```

The following escape sequence causes a beep. \$ echo -e "\aWake up!"

Wake up!
\$

The -e ag is to enable interpretation of certain special escape sequences like the \a (alarm).

read The read command 病域或以后reaction。CS编程辅导 read var1 ... varn gets one line from standard input. Let w1, . . . , wn be the words that were in are assigned to var1, . . . , varm one word at that line. The w a time (from lef are more words than variables then the last variable gets a that are left. \$ read TRUTH Linux. PILL perating system in the world. \$ echo \$TRUT Linux. Probably the best operating system in the world. \$ read A B C How are wou today? \$ echo \$A How \$ echo \$B Assignment Project Exam Help \$ echo \$C you today? \$ Email: tutorcs@163.com cat The cat command is similar to echo in that it outputs things. Echo outputs the values of its arguments, cat 400 389476 There are two ways to use cat:

- 1. cat file1 ... fileN outputs the contents of the files file1 through file N.
- 2. cat outputs whateverst reads bhits standard in but channel (in interactive mode this is usually the keyboard).

\$ cat file A line. And another line. \$ cat A line. A line. And another line. And another line. <CTRL-D> \$

Commands like cat are called filters. Such commands read their input, do something with it, and output their output.

Other useful filters are sort (to sort things) and grep (to find lines that have certain strings in them).

Most filters have two modes. The filter is used with a list of arguments. The arguments are filenames and the filter takes its input from these files. In the other mode there are no arguments and the filter takes its input from etandard input. Filters always output their output of sandard output (in intimactive mode this is usually the screen).



\$ grep word WeChat: cstutorcs

blah blah blah a word is a word a word is word is a word

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The Pipeline Construct

One of the most important constructs, pipelines occur everywhere. A pipeline lets you combine wo programmes to and programmes to that the output of p1 is used as the input of p2.

program1 | program2 https://tutorcs.com

creates a pipe between program1 and program2. This results in a programme which combines program1 and program2. The resulting programme simultaneously runs program1 and program2 and uses the output from program1 as the input of program2.

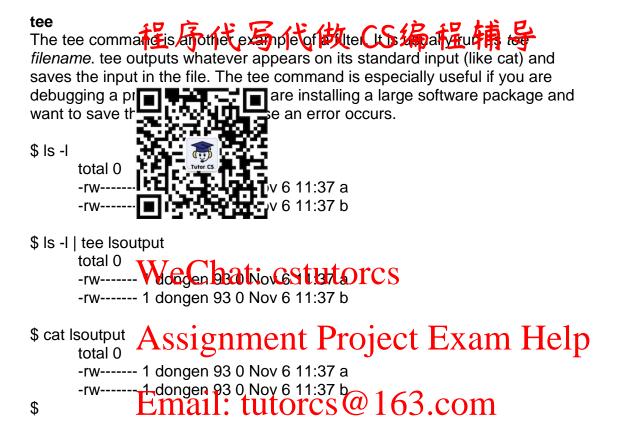
\$ cat file

- 3: A line with text.
- 1: Another line.
- 2: The last line with text.

\$ sort file | grep text

- 2: The last line with text.
- 3: A line with text.

\$



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Carry out the following examples (they may need slight modification)

Exit Status

Every process environment to a zero exit stat

us. The exit status can be used by the calling mand completed successfully. By convention 1. A non-zero exit status means failure.

The exit status returned by the last command is stored in the (read-only) variable?

Try the following, you should get the sand to like S

```
$ ls $ echo $? Assignment Project Exam Help $ ls b b: No such file or directory $ echo $? Email: tutorcs@163.com

$ mkdir b QQ: 749389476

$ echo $?

mkdir: cantapeate at the oreginal or directory or comparison.
```

The exit status returned by a script is the exit status returned by the last command. Shell scripts can also return an exit statuses with the exit statement. A statement of the form *exit i* will stop the current command and return *i* as its exit status. Try the following:

```
$ echo exit 0 > exitZero
$ echo exit 1 > exitOne
$ chmod +x exitZero exitOne
$ exitZero
$ echo $?
0
$ exitOne
$ echo $?
```

Conditional Statement
Conditional or fifelse statement allower the specific the commands depending on the exit statuses of commands.

```
if condition
then
      stateme
[else
      stateme
fi
If (\$fred == 6)
      else if (----) then
                 eChat: cstutorcs
      else
      endif
             Assignment Project Exam Help
conditions
         == Email: tutorcs@163.com
         || logical or
         (single & and | are bit operators) and \frac{1}{49389476}
         -z str - is null (zero)
Example
create a file 'a'.https://tutorcs.com
$ Is
      а
$ if Is a; then
      > echo a exists
      > else
      > echo a does not exist
      > fi
а
a exists
Example 2
$ Is
      а
$ if Is c; then
      > echo c exists
      > else
      > echo c does not exist
      c: No such file or directory
      c does not exist
```

Example 3 程序代写代做 CS编程辅导 \$ Is \$ if Is c 1> /dev/null 2>&1; then > echol > fi c does i While while (condition) WeChat: cstutorcs or while condition signment Project Exam Help do Email: tutorcs@163.com or while condition; do 749389476statements done https://tutorcs.com Example 4 Alter 'a' to the following, then run it. while (\$1 > 1)echo "boring" sleep 5 \$1 = \$1 - 1end

There are three legical operators which the bease than the original exit statuses. The operators correspond to the classical Boolean operators for negation (logical not), conjunction (logical and) and disjunction (logical or). Unlike their column than the column that the column than the column that the column that the column that th

Negation

The expression to the status of:

1 If prog to the status of:

0 If prog to the status of:

1 on-zero exit status

Example 5

\$ Is

\$ if ! Is a; then expected at exist; Situtores

\$ if ! Is c; then echo c does not exist; fi

c: No such files i gramment Project Exam Help

Conjunction

The expression proment && bldgront208e Gre red wing OM

- If program1 fails (returns a non-zero exit status) it stops and returns the exit status returned by program1
- If programs succeeds (recurs) at Zero exit status) it will carry out program and will return the exit status returned by program 2

Example 6

\$ Is

https://tutorcs.com

a b

\$ if Is a && Is b; then echo yes; else echo no; fi

a b

yes

\$ if Is c && Is b; then echo yes; else echo no; fi c: No such file or directory no Disjunction
The expression程编编作的编辑

- If program1 succeeds (returns a zero exit status) it stops and returns the exit status returned by program1 (i.e. it returns 0)
- If program and will are the status of the

\$ Is a b \$ if Is a || Is b; I echo no; fi a yes \$ if Is c || Is b; then, echo yes; else echo no; fi c: No such file or directory CSTULOTCS

Grouping Assignment Project Exam Help

Commands can be grouped using parentheses or by curly brackets.

```
Example 8 Email: tutorcs@163.com
```

```
$ Is
$ if ! (Is a || Is b); then echo hello; fi
a: No such file or directory 389476
b: No such file or directory 389476
hello
$ echo $?

0 https://tutorcs.com
```

Grouping with Parentheses

If you group commands with parentheses they are executed in a sub-shell. Make sure you separate commands with semicolons.

```
Example 9
$ ( LOCAL=local; echo LOCAL = $LOCAL; )
LOCAL = local
$ echo LOCAL = $LOCAL
LOCAL =
```

Grouping with Curly Brackets

If you group commands with curly brackets they are executed in the current shell. Make sure you put a semicolon after the last command and a space before the closing curly bracket.

```
Example 10
$ { GLOBAL=global; echo GLOBAL = $GLOBAL; }
GLOBAL = global
$ echo GLOBAL = $GLOBAL
GLOBAL = global
```

Exercise Write a shell sc起w流线岛屿级 CS编程辅导

 returns an exit status of 1 if and only if there is no file called input in the current directory

returns a file called input in the current called input in the current called input in the

In the first two the hould output a proper error message. (Hint, use Is, grep, if,

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Shell Variables程序代写代散VCS编程辅导

You can assign values to them using a statement of the form VAR=VAL (There should be no contains after the = operator. If the value contains spaces enclosed the property of the quotes). You can dereference a SHELL variable by pre

Example 1 \$ echo VAR = VAR = VAR = "S VAR="my fax secho VAR = \"\$VAR\"

VAR = "mv favourite value"

\$ VAR= \$ echo VAR = 1"\$VAR Chat: cstutorcs

VAR = ""

Create a script Accessing manner of the project Exam Help

echo "Enter Directory: "
read DIRNAME
Email: tutorcs@163.com

Run the script and see what happens with real and fictitious directory names.

Exporting SHELL Variables

Each time you execute a script or a programme, it inherits a copy of the environment. The environment consists of the values of environment (SHELL) variables which have been made explicitly visible to other programs and scripts. A SHELL variable VAR (and its value) will only be added to the copy of the environment if the variable has been exported with an export statement.

Create a shell script 'script' containing

echo VAR = \"\$VAR\"

Try the following:

\$ VAR="a nice value" \$ echo VAR = \"\$VAR\" VAR = "a nice value" \$./script VAR = "" \$ export VAR \$./script VAR = "a nice value" In a shell script, bu can get how of the values of the variables. Positional variables are read-only SHELL variables. They can only be used in a script. The variables 1, . . . , 9 store the values of the first nine arguments. The variables are read-only store the values of the first nine arguments. The variables are read-only store the values of the first nine arguments. The variables are read-only store the values of the first nine arguments. The variables are read-only store the values of the first nine arguments. The variables are read-only store the values of the first nine arguments.

Example 2
Change 'script' wing

echo My argument\(s\). echo I have \$# argument\(s\). echo The first argument is \$1.

Try the following WeChat: cstutorcs

\$./script A B

My name As descript nment Project Exam Help I have 2 argument is A.

\$ mv script test Email: tutorcs@163.com \$./test B

My name is ./test.

I have 1 angument(5).49389476

The first argument is B.9389476

Change 'script' to contain the following:

https://tutorcs.com
echo My name is \"\$0\"

Try the following:

Exercise

Implement a script to do the following:

- If it is not called with three arguments it will output an error message.
- Otherwise, let *file* be the value of its first argument. If *file* does not exist then the script will output an error message.

Shell Arithmetical Used to perform with his to be South to CS编程辅导

Syntax:

expr op1 math-

Examples: \$ expr 1 + 3

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\$ expr 2 - 1

\$ expr 10 / 2



\$ expr 20 % 3 WeChat: cstutorcs

Remainder read as 20 mod 3 and remainder is 2.

\$ expr 10 * 3 Assignment Project Exam Help

For multiplication use * and not * since its wild card.

\$ echo `expr 6 Email: tutorcs@163.com

Use ` (back quote) sign not the (single quote i.e. ') sign. Back quote is generally found on the key under alse () proper keyboard OR above TAB key. If you use double quote or single quote, it will NOT work

\$ echo "Sum of \$1 and \$2 is `expr \$1 + \$2`"

Questions 程序代写代做 CS编程辅导

• Find all the users that use bash as their login shell. Hint: Use grep and have a look at /etc/passwd.

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Use gre bash users.

WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476