Special (						
<b>#</b>	Background job Comment					
•	Home Directory					
!	Logical NOT					
u .	Quote (Strong) Quote (Weak)					
<	Redirect input					
>		rect output	1 . 61			
>> 	Redirect output + append to file					
/ /	Redirect (pipe) output to next command Separator for pathname directories					
:	Separator for shell commands					
	Start and end a character-set wildcard					
[}	Start and end a command block Start and end a subshell					
(())	Perform arithmetic					
*	Wildcard					
? \$	Wildcard – single character					
\	Variable expression  Escape a special character					
n>&m		· · · · · · · · · · · · · · · · · · ·		ouput file descriptor		
- 40	m			in a set fill 1		
n<&m	Desc m	criptor n is a	copy of	input file descriptor		
String O		ors				
{varnan	_		Retur	ns word		
\${varnan			+	and returns word		
\${varnan				message and exits		
\${varnan \${varnan		et:length}		ns substring name is defined,		
				n word		
Pattern-	mato	hing oper	ators			
\${varnan				Match first from		
· [		-44auu 1		the start  Match last from		
{varnan	ie##p	attern }		the start		
{varnan	1е%ра	ttern}		Match first from		
٠,	, ,	. , ,	<u>,                                     </u>	the end		
{varnan	ie/pai	tern/replac	:e}	Match longest and replace		
{varnan	ne//pa	attern/repla	ice}	Match all and		
				replace		
Variable						
\$0, \$1, \$2 \$@	<u>2,</u>	Positiona "\$1" "\$2"	l parame	ters		
)*				nal params > 0		
\$#		Number o	of positio	nal params		
\$?		Exit statu	s of last o	command run		
Functio	าร					
define			n myfun	ction { }		
			or myfunction () { }			
all			myfunction arg1 arg2			
keyword:	5		limit var			
f / else	cond					
( && y			uns, the	<u> </u>		
κ   y κ-a ν			If x fails, then run y x AND y			
x -a y x -o y			x OR y			
к-о у	q, -gt,	- Integ	Integer comparisons			
·lt, -le, -e		Caur	g con	ricons		
lt, -le, -e ge, -ne			String comparisons str1 has length > 0 (nonzero)			
lt, -le, -e ge, -ne =, !=, <, >				str1 has length 0 (zero)		
lt, -le, -e ge, -ne =, !=, <, > n str1		str1		th 0 (zero)		
lt, -le, -e ge, -ne =, !=, <, > n str1 -z str1		str1 str1	has leng	th 0 (zero) d is a directory		
lt, -le, -e ge, -ne =, !=, <, > -n str1 -z str1 -d file -e file		str1 str1 File	has leng exists an exists	d is a directory		
lt, -le, -e ge, -ne =, !=, <, > n str1 z str1 d file e file f file		str1 str1 File o	has leng exists an exists exists an	d is a directory d is a regular file		
lt, -le, -e ge, -ne =, !=, <, > n str1 z str1 d file e file f file		str1 str1 File of File of User	has leng exists an exists exists an has read	d is a directory  d is a regular file d permission on file		
lt, -le, -e ge, -ne =, !=, <, > -n str1 -z str1 -d file -e file -r file -s file		str1 str1 File of File of User	has leng exists an exists exists an has read exists an	d is a directory d is a regular file		
lt, -le, -e ge, -ne e, !=, <, > n str1 z str1 d file e file f file r file s file w file		str1 str1 File o File o User File o User User User	has leng exists an exists exists an has read exists an has writ has exe	d is a directory  d is a regular file d permission on file d is non empty se permission on file cute permission on		
It, -le, -e ge, -ne =, !=, <, > -n str1 -z str1 -d file ee file file r file s file w file x file		str1 str1 File o File o User File o User User file,	has leng exists and exists and has read exists and has write has exe- or search	d is a directory  d is a regular file d permission on file d is non empty se permission on file cute permission on if directory		
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olt, -le, -e ge, -ne e, !=, <, > n str1 z str1 d file e file file file s file w file w file x file		str1 str1 File of File of File of User User User User File of User User User User File of User	has leng exists and exists and has read exists and has write has exe- or search was mod	d is a directory  d is a regular file d permission on file d is non empty e permission on file cute permission on if directory ified since it was left		
or tile or til		str1 str1 File of File of File of File of File of File of User Gile, File of F	has leng exists and exists exists and has read exists and has write has exector search was mod	d is a directory  d is a regular file d permission on file d is non empty see permission on file cute permission on n if directory ified since it was left e D matches the		
olt, -le, -e ge, -ne e, !=, <, > n str1 z str1 d file e file f file r file s file w file N file O file G file		str1 str1 File of File of User File of User User User User User User File of User User user	has leng exists and exists exists and has read exists and has write has exe- or search was mod owns fill s group I 's group	d is a directory  d is a regular file d permission on file d is non empty the permission on file cute permission on if directory iffied since it was left e D matches the ID		
It, -le, -e ge, -ne =, !=, <, > -n str1 -z str1 -d file ee file file r file s file w file x file	ile2	str1 str1 file of File of User File of User File of User File of User User file of Iteration In	has leng exists and exists exists and has read exists and has write has exe- or search was mod owns fill s group I 's group	d is a directory  d is a regular file d permission on file d is non empty the permission on file cute permission on if directory iffied since it was left e D matches the ID ter modification		

	commands; fi				
for	for ((init; condition; increment)); do				
	commands; done				
for	for var in array; do commands;				
case	done case <i>expression</i> in				
	pattern1) commands ;;				
	pattern2) commands ;; *) commands ;;				
while	esac while <i>condition</i> ; do				
	commands; done				
until	until <i>condition</i> ; do				
	commands; done				
Arrays					
Arr_name	=('el1' ' el2' 'el3')	define			
Arr_name	[index]		Element #index		
Arr_name[-1]			Last element		
Arr_name	[@]	All elements, space-separated			
#Arr_name[@]			Array length		
#Arr_nam	e[index]		String length of		
Arr_name[@]:m:n			the Nth element Range (from		
			position m, length n		
!Arr_name	[@]		Keys of all elements		
_	=("\${Arr_name[@	9]}"	Push		
"newElement") Arr_name+=('newElement')			Also Push		
unset Arr_	name[n]		Remove one item		
Dictionar	ies		item		
Dictionar		Define	rem		
	dict		ralue of a key		
declare –A	dict		value of a key		
declare –A	dict	Define v	alue of a key		
declare -A dict[key]=' dict[key]	dict	Define v	alue of a key		
declare -A dict[key]=' dict[key] dict[@a]	dict	Define v Value of All value	alue of a key		
dict[key]= dict[key] dict[@a] !dict[@]	dict "value"	Define v Value of All value	alue of a key  a key  ss  of elements		
declare -A dict[key]=' dict[key] dict[@a] !dict[@] #dict[@]	dict "value"	Define v Value of All value All keys Number	alue of a key  a key  ss  of elements		
declare -A dict[key]=' dict[key] dict[@a] !dict[@] #dict[@]	a dict "value"  [key]	Define v Value of All value All keys Number Delete t	alue of a key  a key  ss  of elements		
dict[key]= dict[key]= dict[@a] ldict[@] #dict[@] unset dict[ Useful Co	[key]  Detern -a; display	Define v Value of All value All keys Number Delete t	alue of a key  a key  of elements  he key  of command: e locations		
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	%Y – Year, %m – month, %d –
	day, %H – hours, %M –
	minutes, %S – seconds, (%A uppercase for full name) %a –
	DayOfTheWeek, (%B) %b - Month
	Options (-d "yesterday"):
	"yesterday", "next Monday",
read <options></options>	Read input from user or file and
<variable></variable>	store into variable (read var1).
	Options:
	-p "Text" : print before input
history	-a : store the input in array  Display the command history for
<options></options>	that session. Options:
· ·	-c : clear the history
	-X : print the last X commands
	-a : appends history to bash history
	file
	-d X : deletes the command with index X from history
sleep	Delay the execution of a script.
<num_time></num_time>	Num_time:
	Xs : delay for X second(s) (default)
	Xm : delay for X minute(s)
	Xh : delay for X hour(s)
man	Opens the manual pages for the
<pre><command/></pre>	opens the manual pages for the <command/> .
ls <options></options>	List the files and directories in the
<path></path>	current working directory or given
	path. Options:
	-l : list detailed view for files
	-a : show all files, even hidden
pwd	-alp: ??? Display the current working
	directory.
cd <directory></directory>	Change the current working
	directory. <directory>:</directory>
	'/path' : changes directory to path
	'': changes to parent directory of
	the current one '~username' : changes to home
	directory for username
	'-' : changes to previous working
	directory used
mkdir	Creates new directory. <directory></directory>
<directory></directory>	can be:
	'd1' : creates new directory called d1
	'd1' 'd2' 'd3' : creates more
	directories in the current one
	-p 'd1/d2' : creates d1 and another
1.	directory d2 as d1's child
rmdir	Works the same as mkdir, but it deletes the directory if it is empty.
	deletes the directory in it is empty.
<directory></directory>	Display the contents of the file on
cat <file></file>	Display the contents of the file on the terminal. <file>:</file>
	the terminal. <file>:  'file.txt' : displays file.txt</file>
	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files</file>
	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively</file>
	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with</file>
cat <file></file>	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively</file>
	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines</file>
more, less, od, hexdump	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines  More and less are both text viewers, od gives octal output and hexdump hexadecimal.</file>
more, less, od, hexdump vi, vim, emacs,	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines  More and less are both text viewers, od gives octal output and hexdump hexadecimal.  File editors. Use 'man file_editor'</file>
more, less, od, hexdump vi, vim, emacs, nano	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines  More and less are both text viewers, od gives octal output and hexdump hexadecimal.  File editors. Use 'man file_editor' to learn how to use them.</file>
more, less, od, hexdump  vi, vim, emacs, nano cp <source/>	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines  More and less are both text viewers, od gives octal output and hexdump hexadecimal.  File editors. Use 'man file_editor' to learn how to use them.  Copy files or directories from</file>
more, less, od, hexdump vi, vim, emacs, nano	the terminal. <file>:  'file.txt' : displays file.txt  'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines  More and less are both text viewers, od gives octal output and hexdump hexadecimal.  File editors. Use 'man file_editor' to learn how to use them.</file>
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more, less, od, hexdump  vi, vim, emacs, nano cp <source/>	the terminal. <file>:  'file.txt' : displays file.txt 'f1.txt' 'f2.txt' : displays files consecutively -n 'file.txt' : displays file.txt with numbered lines  More and less are both text viewers, od gives octal output and hexdump hexadecimal.  File editors. Use 'man file_editor' to learn how to use them.  Copy files or directories from source to destination. cp file /path : copy file to path cp -r directory /path : copy directory with all its contents to</file>
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## OS Cheat Sheet | Full version | v1.0

rev <file></file>	Reverse the characters in each line
	of the input stream or file
tr <options></options>	Translate or delete characters.
<set1> <set2></set2></set1>	Set1 is translated to Set2.
<file></file>	-d : removes the characters
	-c : complement the Set1
wc <options></options>	Counts the number of lines, words,
<file></file>	bytes. Options:
	-l : only counts the lines
	-w : only counts the words
	-c : only counts the bytes
grep <options></options>	Search for specific pattern or
<pattern> <file></file></pattern>	regular expression. Options:
	-i : ignore case
	-v: invert the match (print only
	the lines not matching the pattern)
	-w : match only whole words
	-n : print the line numbers for each
	match
	<ul><li>-r : search recursively through</li></ul>
	directories
shift <x></x>	Shift the positional parameters to
	the left. X is number of positions to
	shift.
jobs <options></options>	Display a list of jobs that are
	currently running in the
	background or are suspendedl:
	also displays PID of a job
	-p : displays only the PIDs
	-r : displays the running jobs
	-s : displays the stopped jobs
fg <jid></jid>	Bring a job that is running in the
	background to the foreground.
bg <jid></jid>	Start a suspended job in the
	background.
disown	Remove jobs from shell's job
% <jid></jid>	control. (disown %2 : removes job
	with JID 2)
ulimit <options></options>	Display the resource limits of the
	current shell and its children.
	-a : displas all current limits