Summary

1. Variable

$var/${var}; length = ${#var};

2. Array

${array\_var[$index]}; length = ${#array\_var[\*]}; echo ${array\_var[\*/@]}

3. Default Variable

$0 (shell name); $! (latest children shell PID); $$ (current shell PID); $- (flag); $? (return code for latest command executed, 0 is successful; not 0 is failed)

$n (nth parameter); $@/$\* (parameter list); $# (No of parameter)

4. Math Operation

$[$var1 + $var2]; $(($var1 + $var2))

5. Children Shell

var = `command`; var = (command); `command`; (command); echo `command`; echo $(command)

6. Condition Operation

[condition] && command (command executed if condition is true); [condition] || command (command executed if condition is false); commandA && commandB (B executed if A success); commandA || commandB (B executed if A failed)

7. Include

. /xx/file = source /xx/file

8. Redirect

0 - stdin; 1- stdout; 2- stderr

command 1>/>> stdout.txt 2>/>> stderr.txt; command >/>> output.txt 2>&1

command < file; command <<EOF *DATE* EOF; ‘-’ used as stdin, usually in script or function