

CONTROL FLOW

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4:41 PM

SWITCH CASE PATTERN:

The Case Statement

```
case $ans in
yes|YES|y|Y|y.x ) echo "Will do!";;
n*|N*) echo "Will NOT do!";;
*) echo "Oops!";;
esac
```

IF-ELSE:

The If-Then-Else Statement

```
if
grep -q important myfile
then
    echo myfile has important stuff
else
    echo myfile does not have important
stuff
fi
```


TEST COMMAND IN BASH:

Tests in Bash

- The builtin `test` is used to check various conditions and set the return code with the result.
- Loops and conditionals often use the result of `test`.
- An alternative to `test` is `[[]]` or `(())`.

Test Examples

- ```
if
 test -f afile
```
- ```
if [[ -f bfile ]]
```
- ```
if
 test $x -gt 5
```



TEST OPERATORS:

## Test Operators

```
[[ex1 -eq ex2]] [[ex1 -ne ex2]]
[[ex1 -lt ex2]] [[ex1 -gt ex2]]
[[ex1 -le ex2]] [[ex1 -ge ex2]]
```

OR

## Test Operators

```
((ex1 == ex2)) ((ex1 != ex2))
((ex1 < ex2)) ((ex1 > ex2))
((ex1 <= ex2)) ((ex1 >= ex2))
((ex1 && ex2)) ((ex1 || ex2))
```

MORE USAGE OF TESTS IN IF-ELSE STATEMENTS

## More Tests



.....

```
test -d X
success if X is a directory
test -f X
success if X is a regular file
test -s X
success if X exists and not empty
```

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## More Tests

```
test -x X
success if you have x permission on X
test -w X
success if you have w permission on X
test -r X
success if you have r permission on X
```

