



Shell Programming

Lec-06



The case Statement

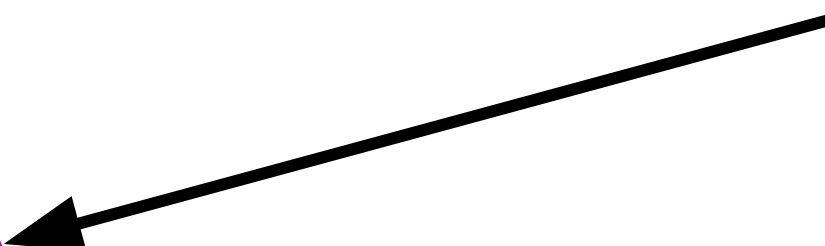
- The case statement supports multiway branching based on the value of a single string.
- General form:

```
case string in
    pattern1)
        command_set_11
        ;;
    pattern2)
        command_set_2
        ;;          (similar to break in C prog.)
    ...
esac
```

case Example

```
#!/bin/sh
echo -n 'Choose command [1-4] > '
read reply
echo
case $reply in
    "1")
        date
        ;;
    "2"|"3")
        pwd
        ;;
    "4")
        ls
        ;;
    *)
        echo Illegal choice!
        ;;
esac
```

Use the pipe symbol "|" as a logical or between several choices.



Provide a default case when no other cases are matched.



Redirection in Bourne Shell Scripts (2)

- **Input redirection:**
 - **wc -l users.txt**
 - **Output: 2 users.txt**
 - **Wc -l < userx.txt**
 - **Output: 2**
 - **'<<' operator as an instruction to read input until it finds a line containing the specified delimiter. All the input lines up to the line containing the delimiter are then fed into the standard input of the command.**
 - **E.g. wc -l << EOF**
 - **This is a simple lookup program**
 - **for good (and bad) restaurants**
 - **in Cape Town.**
 - **EOF**
 - **Output: 3**

Redirection in Bourne Shell Scripts (3)

Another example:

```
#!/bin/sh
```

```
cat << EOF
```

**This is a simple lookup program
for good (and bad) restaurants
in Cape Town.**

EOF

- **Output:**

**This is a simple lookup program
for good (and bad) restaurants
in Cape Town.**

Redirection in Bourne Shell Scripts (4)

Discard the output:

command > /dev/null

e.g. grep “UNIX” file.txt > /dev/null

Assignment-1 Additional Questions

3. Write a shell program to concatenate two strings and find the length of the resultant string (Hint: `s3 = $s1$s2`).

s3 will become the concatenation of s1 and s2).

4. Write a shell program to display the alternate digits in a given 7-digit number starting from the first digit.