

Memory is not volatile  
only the dirty bit is reset  
every time its turned on/off.

### Array

read n

i=0

while [ \$i -lt \$n ]

do

read a[\$i]

i='expr \$i + 1'

done

\${a[\$i]} → Accn

echo \${#a[@]} → total of elements

echo \${a[@]} → all elements

### Addressing Parameters

By value

By name → which OS do

By reference

By copy restore linkage

### Emulating DOS commands in bash

Ⓢ a.sh

# → comment

copy()

{

cp \$1 \$2

}

mv()

{

mv \$3 \$4

}

dir()

{

ls -l

}

\$ a.sh

\$ unset dir → to clear defn

read a → echo -n

n='echo \$a | wc -c'

echo \$n

→ string length + 1

i=5

y='echo \$a | cut -c 1-\$i'

// return i<sup>th</sup> character

\$i, \$j // (i-j)<sup>th</sup> character

substring

Q1. Write a shell script from any base to any base. User should give as input the no., the inp base, output base.

Q2. Palindrome