

Hackerrank Challenge 1

Ans 1: Let's Echo

```
echo "HELLO"
```

Ans 2: Looping and Skipping

```
read c
if [[($c == 'y') || ($c == 'Y')]]
then
echo "YES"
else
echo "NO"
fi
```

Ans 3: A Personalized Echo

```
read name
echo "Welcome $name"
```

Ans 4: Looping with Numbers

```
for i in {1..50}
do
echo $i
done
```

Ans 5: The World of Numbers

```
read X
read Y
echo $((X+Y))
echo $((X-Y))
echo $((X*Y))
echo $((X/Y))
```

Ans 6: Comparing Numbers

```
read X
read Y
if (( $X > $Y ))
then
echo "X is greater than Y"
fi
if (( $X == $Y ))
then
echo "X is equal to Y"
fi
if (( $X < $Y ))
then
echo "X is less than Y"
fi
```

Ans 7: Getting started with conditionals

```
read word
if [[($word == 'y') || ($word == 'Y')]]
```

```

then
echo "YES"
elif [!($word == 'n') || ($word == 'N')]
then
echo "NO"
fi

```

Ans 8: More on Conditionals

```

read x
read y
read z
if ((($x == $y) && ($y == $z)))
then
echo "EQUILATERAL"
elif ((($x == $y) || ($x == $z) || ($y == $z)))
then
echo "ISOSCELES"
else
echo "SCALENE"
fi

```

Ans 9: Arithmetic Operations

```

read x
printf "%.3f\n" `echo "$x" | bc -l`

```

Ans 10: Compute the Average

```

read num
ctr=$num
sum=0
while [ $ctr -gt 0 ]
do
read x
sum=$((sum + x))
ctr=$((ctr - 1))
done
printf "%.3f\n" `echo "$sum/$num" | bc -l`

```

Hackerrank Challenge 2

Ans 1: Head of a Text File #1

```
head -c 20
```

Ans 2: Middle of a Text File

```
head -22 | tail -11
```

Ans 3: Tail of a Text File #2

```
tail -c 20
```

Ans 4: 'Tr' Command #3

```
tr -s ' '
```

Ans 5: Sort Command #4

```
sort -n -r
```

Ans 6: Sort Command #5

```
sort -k2 -n -r -t$'\t'
```

Ans 7: 'Uniq' command #4

```
uniq -u
```

Ans 8: Read in an Array

```
while read line
```

```
do
```

```
arr=(${arr[@]} $line)
```

```
done
```

```
echo ${arr[@]}
```

Ans 9: Slice an Array

```
arr=($(cat))
```

```
echo ${arr[@]:3:5}
```

Ans 10: Filter an Array with Patterns

```
arr=($(cat))
```

```
echo ${arr[@]/*[aA]*/}
```

Ans 11: Concatenate an array with itself

```
arr=($(cat))
```

```
arr=("${arr[@]}" "${arr[@]}" "${arr[@]}")
```

```
echo ${arr[@]}
```

Ans 12: Count the number of elements in an Array

```
arr=($(cat))
```

```
echo ${#arr[@]}
```

Ans 13: Remove the First Capital Letter from Each Element

```
arr=($(cat))
```

```
echo ${arr[@]/[A-Z]/.}
```

Ans 14: 'Grep' - A

```
grep -iwe "the\\|that\\|then\\|those"
```

Ans 15: 'Sed' command #5

```
sed -E 's/([0-9]{4}) ([0-9]{4}) ([0-9]{4}) ([0-9]{4})/\4 \3 \2 \1 /g'
```

Hackerrank Challenge 3

Ans 1: Sort Command #1

```
sort
```

Ans 2: Sort Command #2

```
sort -r
```

Ans 3: 'Uniq' Command #1

```
uniq
```

Ans 4: 'Uniq' Command #2

```
uniq -c | cut -c7-
```

Ans 5: Paste - 3

```
paste -s
```

Ans 6: Paste - 4

```
paste - - -
```

Ans 7: Lonely Integer - Bash

```
read  
arr=$(cat)  
echo "${arr[@]}" | tr ' ' '\n' | sort | uniq -u | tr '\n' ' '
```