Question Number: 263 Question Id: 640653445714 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 1

Question Label: Multiple Choice Question

What is called as efficiency?

Options:

6406531485085. ** Output/(1-input)

6406531485086. * 1 - (output/input)

6406531485087. **V** Output/Input

6406531485088. None of these

System commands

Yes

Section Id: 64065328989

Section Number: 15

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 12

Number of Questions to be attempted: 12

Section Marks: 100

Display Number Panel: Yes

Group All Questions: No

Enable Mark as Answered Mark for Review and

Clear Response:

Maximum Instruction Time: 0

Sub-Section Number: 1

Sub-Section Id: 64065363376

Question Shuffling Allowed: No

Is Section Default?: null

Question Number: 264 Question Id: 640653445715 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 0

Question Label: Multiple Choice Question

THIS IS QUESTION PAPER FOR THE SUBJECT "DIPLOMA LEVEL: SYSTEM COMMANDS"

ARE YOU SURE YOU HAVE TO WRITE EXAM FOR THIS SUBJECT?
CROSS CHECK YOUR HALL TICKET TO CONFIRM THE SUBJECTS TO BE WRITTEN.

(IF IT IS NOT THE CORRECT SUBJECT, PLS CHECK THE SECTION AT THE <u>TOP</u> FOR THE SUBJECTS REGISTERED BY YOU)

Options:

6406531485089. Ves

6406531485090. * No

Sub-Section Number: 2

Sub-Section Id: 64065363377

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 265 Question Id: 640653445716 Question Type: SA Calculator: None

Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Correct Marks: 6

Question Label: Short Answer Question

What will be output of the given command?

```
awk '/^[a-zA-Z]/ { c++ } END{ print c }' myfile.txt
```

The contents of myfile.txt are

Lorem ipsum dolor sit amet, consectetur adipisci elit, sed eiusmod tempor incidunt ut labore et dolore magna aliqua.

Ut enim ad minim veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur.

Quis aute iure reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

Excepteur sint obcaecat cupiditat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Response Type: Numeric

Evaluation Required For SA: Yes

Show Word Count: Yes

Answers Type: Equal

Text Areas: PlainText

Possible Answers:

14

Sub-Section Number: 3

Sub-Section Id: 64065363378

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 266 Question Id: 640653445717 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

What will be the output of the below script?

Note that a single negative argument to seq will not give any output.

```
for i in $(seq 9); do
    for j in $(seq $((5-i))); do
        echo -n '* '
    done
    for j in $(seq $((i-5))); do
        echo -n '* '
    done
    echo
done
```

Options:

```
* * * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * * *

* * * * *

* * * * *

* * * * *

* * * * *

* * * * *

* * * * * *

* * * * * *

* * * * * *

* * * * * *

* * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * *

* * * * * * * *

* * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * * * *

* * * * * *
```

6406531485094. **

```
*

* *

* *

* * *

* * *

* * * * *

* * * * * *

* * * * * *

* * * * * *

* * * * * *

* * * * *

* * * * *

* * * * *

* * * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * * *

* * *

* * * *

* * * *

* * * *

* * *

* * * *

* * *

* * *

* * *

* * * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* * *

* *

* * *

* * *

* * *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

* *

*
```

Question Number: 267 Question Id: 640653445720 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

How many lines will be printed if the following command is executed? Assume that **myfile.txt** contains more than 3 lines.

```
sed '
1 i ---START---
3 c ---THREE---
$ a ---END---
' myfile.txt
```

Options:

6406531485104. Same as the number of lines in myfile.txt

6406531485105. * Number of lines in myfile.txt + 1

6406531485106. V Number of lines in myfile.txt + 2

6406531485107. * Number of lines in *myfile.txt* + 3

Question Number: 268 Question Id: 640653445721 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

Choose the command that converts comma separated file named *data.csv* to a tab separated file named *data.tsv* Assume there is no comma in the field values.

Options:

6406531485108. * mv data.csv data.tsv

6406531485109. * sed 's/\t/,/' data.tsv > data.csv

6406531485110. ✓ sed 's/,/\t/g' data.csv > data.tsv

6406531485111. * sed '/,/ c \t' data.csv > data.tsv

Sub-Section Number: 4

Sub-Section Id: 64065363379

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 269 Question Id: 640653445718 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6 Selectable Option: 0

Question Label: Multiple Select Question

Select the command(s) that prints only the lines containing the string TODO in any part of the line in the file todo.txt

Options:

6406531485096. * awk '{print TODO}' todo.txt

6406531485097. * awk '/TODO/ {print}' todo.txt

6406531485098. * awk '{ if (\$1 ~ /TODO/) {print;} }' todo.txt

6406531485099. * awk '{ if (\$0 ~ /TODO/) {print;} }' todo.txt

Sub-Section Number: 5

Sub-Section Id: 64065363380

Question Shuffling Allowed : Yes

Is Section Default?: null

Question Number: 270 Question Id: 640653445719 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 8

Question Label: Multiple Choice Question

Which command will print only the multi-line strings from the python file named *myscript.py*?

Example:

```
my_multiline = """
a
b
c
d
"""
```

Note:

- 1. The multi-line string will start with """ and ends with """
- 2. There will be a single equal sign (=) before starting """ and there can be spaces in-between them.
- 3. There is no text after starting """

Question Shuffling Allowed:

Is Section Default?:

- 4. There is no text before and after at ending """ in the same line.
- 5. -v option in grep will print only the non-matched lines.

Options:

```
6406531485100.  sed -n ' = *"""/,/"""/ p' myscript.py | grep -v '"""'

6406531485101.  sed ' = *"""/,/"""/ d' myscript.py

6406531485102.  sed -n ' = *"""/,/"""/ p' myscript.py | grep '"""

6406531485103.  sed -n ' = *"""/,/"""/ p' myscript.py | grep """"

6406531485103.  sed -n ' = *"""/,/"""/ p' myscript.py | grep """"

Sub-Section Number: 6

Sub-Section Id: 64065363381
```

Question Number: 271 Question Id: 640653445722 Question Type: MSQ Is Question

Yes

null

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 8 Selectable Option: 0

Question Label: Multiple Select Question

Select the command(s) that list all regular users in the system. UID of regular users is greater than 999 and their default shell is bash (/usr/bin/bash).

Note: The option -E enables the Extended Regular Expression (ERE) in sed.

The file /etc/passwd contains the user information. The format of the file is specified below

username:x:UID:GID:Description:Home Directory:Full Path to Shell

Options:

```
6406531485112.  sed -nE '/.+:.:[[:digit:]]{4,}:.*bash/ p' /etc/passwd
6406531485113.  sed -nE '/.+:.:[[:digit:]]{3}:.*bash/ p' /etc/passwd
6406531485114.  awk '$3 > 999 & $7 ~ /.*bash/ {print $1}' /etc/passwd
6406531485115.  awk 'BEGIN{FS=":"} $3 > 999 & $7 ~ /.*bash/ {print $1}' /etc/passwd
```

Question Number : 272 Question Id : 640653445723 Question Type : MSQ Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Correct Marks: 8 Selectable Option: 0

Question Label: Multiple Select Question

The contents of the current working directory are given below.

```
$ ls -R
.:
a b
./a:
file0 file1 file2 file3 file4
./b:
file10 file3 file4 file5 file6
```

Select all the file(s) that will be present in the current working directory after executing the below script.

```
cd a
for i in *; do
    ls ../b | grep $i || mv $i ../b
done
```

Options:

```
6406531485116. * file0
6406531485117. ✓ file1
6406531485118. * file2
6406531485119. ✓ file3
6406531485120. ✓ file4
```

Question Number: 273 Question Id: 640653445728 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 8 Selectable Option: 0

Question Label: Multiple Select Question

Consider the below information to answer the question.

```
$ whatis kill
kill (1)
                    - send a signal to a process
kill (2)
                    - send signal to a process
$ kill --help
kill: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill
-l [sigspec]
    Send a signal to a job.
    Send the processes identified by PID or JOBSPEC the signal named by
    SIGSPEC or SIGNUM. If neither SIGSPEC nor SIGNUM is present, then
    SIGTERM is assumed.
    Options:
      -s sig
               SIG is a signal name
      -n sig
               SIG is a signal number
                list the signal names; if arguments follow '-l' they are
                assumed to be signal numbers for which names should be
listed
      -1
               synonym for -l
    Kill is a shell builtin for two reasons: it allows job IDs to be
   instead of process IDs, and allows processes to be killed if the
   on processes that you can create is reached.
    Exit Status:
   Returns success unless an invalid option is given or an error
$ whatis killall
killall (1)
                   - kill processes by name
$ killall --help
Usage: killall [OPTION] ... [--] NAME ...
      killall -l, --list
      killall -V, --version
  -e,--exact
                     require exact match for very long names
 -I,--ignore-case case insensitive process name match
 -g, -- process-group kill process group instead of process
  -y,--younger-than kill processes younger than TIME
  -o,--older-than
                    kill processes older than TIME
  -i,--interactive ask for confirmation before killing
  -l,--list
                     list all known signal names
  -q,--quiet
                    dont print complaints
                     interpret NAME as an extended regular expression
  -r,--regexp
  -s,--signal SIGNAL send this signal instead of SIGTERM
  -u,--user USER
                     kill only process(es) running as USER
                    report if the signal was successfully sent
  -v,--verbose
  -V,--version
                    display version information
  -w.--wait
                     wait for processes to die
  -n, --ns PID
                     match processes that belong to the same namespaces
                     as PID
  -Z, -- context REGEXP kill only process(es) having context
                     (must precede other arguments)
```

Select the bash script(s) that kills all the processes of sleep.

Options:

```
6406531485135. ✓ killall sleep
```

```
while (ps | grep sleep); do kill sleep
```

6406531485136. * done

Sub-Section Number: 7

Sub-Section Id: 64065363382

Question Shuffling Allowed: No

Is Section Default?: null

Question Id: 640653445724 Question Type: COMPREHENSION Sub Question Shuffling

Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Question Numbers: (274 to 276)

Question Label: Comprehension

The file /etc/group stores the group information of the system in the format given below

```
GroupName:x:GID:Members(separated by comma)
```

An example line from /etc/group file is given below

```
student:x:214:ram,ahmed,robert,seema
```

The file /etc/passwd contains the user information. The format of the file is given below

username:x:UID:GID:Description:Home Directory:Full Path to Shell

From man awk,

```
split(s, a [, r [, seps]])

Split the string s into the array a and the separators array seps on the regular expression r, and return the number of fields. If r is omitted, FS is used instead. The arrays a and seps are cleared first. seps[i] is the field separator matched by r between a[i] and a[i+1]. If r is a single space, then leading whitespace in s goes into the extra array element seps[0] and trailing whitespace goes into the extra array element seps[n], where n is the return value of split(s, a, r, seps). Splitting behaves identically to field splitting, described above. In particular, if r is a single-character string, that string acts as the separator, even if it happens to be a regular expression metacharacter.
```

script_1

```
awk '
BEGIN {
    FS=":"
    A=0
    B= " "
    C= " "
}
1
    n = split($4, arr, ",")
    if (n > A) {
        A = n
        B = $1
        C = $4
}
END {
    print A,B,C # Line 17
' /etc/group
```

Based on the above data, answer the given subquestions.

Sub questions

Question Number: 274 Question Id: 640653445725 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

What will be the value of A when the

print statement in line 17 of the given

script is executed?

Options:

6406531485121. * The number of lines in the input file

6406531485122. * The number of groups having more than one users

6406531485123. ✓ The maximum number of users in any group

6406531485124. * The minimum number of users in any group

Question Number: 275 Question Id: 640653445726 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

What will be the value of B when the print statement in line 17 of the given

script is executed?

Options:

6406531485125. * The first field of last line

6406531485126. ✓ The last occurrence of group with the maximum number of users

6406531485127. * The last occurrence of group with the minimum number of users

6406531485128. * The last occurrence of group with no users

Question Number: 276 Question Id: 640653445727 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 8

Question Label: Multiple Choice Question

What will be the output if the output from the script **script_1** is piped to the script below?

```
awk '
{
    split($3, arr, ",")
    for (i in arr) {

        # Execute the string and get the first line of
        # the output in the variable u
        "grep ^"arr[i]": /etc/passwd" | getline u

        split(u, arr2, ":")
        print arr2[3]
    }
}
```

Options:

6406531485129. * The other group names in which the users from the largest group are present.

6406531485130. * The other group names in which the users from the smallest non-zero member group are present.

6406531485131. * The GIDs of the users belonging to the largest group.

6406531485132. * The GIDs of the users belonging to the smallest group.

6406531485133. ✓ The UIDs of the users belonging to the largest group.

6406531485134. * The UIDs of the users belonging to the smallest group.

Sub-Section Number: 8

Sub-Section Id: 64065363383

Question Shuffling Allowed: No

Is Section Default?: null

Question Id: 640653445729 Question Type: COMPREHENSION Sub Question Shuffling

Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

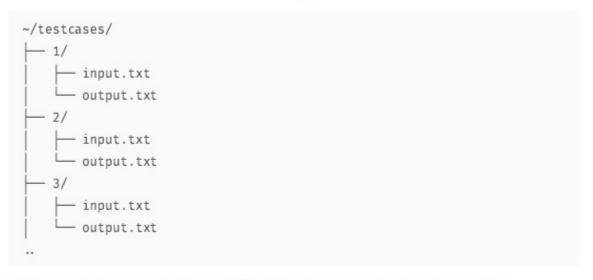
Question Numbers : (277 to 279)

Question Label: Comprehension

In a computer science project, the students are asked to provide their remote git repository URLs. The URLs are then stored in the file named data.csv. There is a bash script written to validate the programs(which they submitted as git repository) written by the students. The project was structured such that main.sh in the project's root directory takes standard input and provides the standard output that is used for validation.

Note:

- 1. The fields of data.csv are roll number and repository URL respectively.
- The test cases are located in the directory testcases which is located in home directory.
- 3. The structure of testcases directory is given below



4. All the required packages (git, diff, ...) are already installed in the system.

```
#!/bin/bash
# PART-1 Getting the project files using git
# Input Field Separator (IFS)
IFS="," # Line 1-a
while read rollno url; do # Line 1-b
   # Clone files to a new directory named with rollno
   git clone $url $rollno # Line 1-c
done # Line 1-d
# ************
# PART-2 Evaluating the project using test cases
# and generate a log file with evaluation results
TESTCASE_DIR=~/testcases # Line 2-a
LOG_FILE=~/log.csv; echo "" > $LOG_FILE
while read rollno url; do # Line 2-c
    cd $rollno # Line 2-d
    for tc in $TESTCASE DIR/*; do
       bash main.sh < $tc/input.txt > /tmp/tmp_output # Line 2-f
       diff $tc/output.txt /tmp/tmp_output > /dev/null 2>61 # Line 2-g
       if [ \$? = 0 ]; then # Line 2-h
           echo "$rollno,$tc,PASS" >> $LOG_FILE # Line 2-i
       else
           echo "$rollno,$tc,FAIL" > $LOG_FILE # Line 2-k
       fi
   done
   cd ...
done < data.csv
# ************
# PART-3 Generating results to terminal
TOTAL TESTCASES=$(ls $TESTCASE DIR | wc -l) # Line 3-a
echo "SUMMARY"
while read rollno url; do # Line 3-c
   passed_tc=$(grep PASS $LOG_FILE | wc -l) # Line 3-d
   echo "$rollno $passed_tc/$TOTAL_TESTCASES" # Line 3-e
done < data.csv
```

Based on the above data, answer the given subquestions.

Sub questions

Question Number: 277 Question Id: 640653445730 Question Type: MSQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks : 6 Selectable Option : 0

Question Label: Multiple Select Question

Identify all the mistakes in the PART-1 of the script.

Options:

6406531485139. Line 1-a: The value of the IFS variable is wrong

Line 1-b: No standard input is provided, thus replacing Line 1-a with cat data.txt 6406531485140.

| while read rollno url; do will resolve the issue.

Line 1-c: git clone \$url \$rollno is an invalid statement because no command named git is installed in the system.

Line 1-d: No standard input is provided, thus replacing this with <code>done < data.txt</code> 6406531485142. \checkmark will resolve the issue.

Question Number: 278 Question Id: 640653445731 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

Read the description given in the comments and identify all the mistakes in the PART- 2 of the script.

Options:

6406531485143. Line 2-c: Standard input not provided

6406531485144. Line 2-f: Incorrect IO redirection

6406531485145. * Line 2-g: Incorrect IO redirection

6406531485146. * Line 2-h: Incorrect condition

6406531485147. Line 2-i: Incorrect IO redirection

6406531485148. ✓ Line 2-k: Incorrect IO redirection

Question Number: 279 Question Id: 640653445732 Question Type: MCQ Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Correct Marks: 6

Question Label: Multiple Choice Question

Read the description given in the comments and identify all the mistakes in the PART- 3 of the script.

Options:

6406531485149. * Line 3-a: Incorrect calculation of the total test cases

6406531485150. * Line 3-c: Standard input not provided

Line 3-d: Incorrect calculation of the passed test cases, it should be

6406531485151.

passed_tc=\$(grep "^\$rollno," \$LOG_FILE | grep PASS | wc -l)

6406531485152. * Line 3-e: Some of the referred variables are not defined