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01 IPRsc - Review2 & Scripting Aneka Soal Ujian Sistem Operasi Rahmat M. Samik-Ibrahim et.al.

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1. **2016-1**

Circle or cross: "T" if True – "F" if False.

T / **F** A service-mark is a mark to identify a service rather than a product. For example MGM (Metro-Goldwyn-Mayer) uses the sound of a lion's roar.





will match this following string:

sate satu

^.[aiueo].[aiueo]\$

- **T** / **F** Free software is always free of charge.
- **T** / **F** Open Source Software is not always free of charge.
- **T** / **F** There are many Free Software licenses, however, there is only one copyleft license, i.e. the GNU / General Public Licenses.
- \mathbf{T} / \mathbf{F} The output of script:

echo a b c d | echo a b c d

is

a b c d a b c d

T / **F** The output of script:

for II in A B ${\tt C}$

do

echo X\$II

done

is

Α

В

С

2. **2016-2**a

Circle or cross: "T" if True – "F" if False.

- **T** / **F** EULA (End User License Agreement) is an example of a non-free software license.
- T / F You don't own the propriety software you have bought.
- ${f T}$ / ${f F}$ Public Domain software is not Free Software.



- **T** / **F** Free Software is not always Copy-left.
- T / F "[^c]at" matches all strings matched by "_at" except "cat".
- T / F "[a-z0-9]" matches any single letter or any single digit.

3. **2016-2**b

These following are some scripting examples. Fill remaining empty "output" cells.

Script (date=19 Oct 2016)	Output
echo "1 2 3 4 5" awk '{print \$1 " " \$5}'	
date +"%d %b %Y"	
echo abc tr '[a-z]' '[A-Z]'	
echo 0123456789 cut -c5-9	
VAR="hallo"	
case "\$VAR" in	
hallo) echo "Hallo too!"	
;;	
*) echo "What?"	
;;	
esac	
exit 0	
date +"%d %b %Y" awk '{print \$2 " " \$1 ", " \$3}'	
% ID=VWXYZ	
% echo "\$ID" cut -c1-3 tr '[a-z]' '[A-Z]'	
VAR="hello"	
case "\$VAR" in	
hallo) echo "Hallo too!"	
;;	
*) echo "What?"	
;;	
esac	
exit 0	



4. **2017-1**

Circle or cross: "T" if True – "F" if False.

- \mathbf{T} / \mathbf{F} Free Software means software you can get for free (gratis).
- T / F According to the Free Software Movement, free software developers should never be paid.
- **T** / **F** Free Software never has a license.



- **T** / **F** The Open Source Initiative (OSI) agrees with the Free Software Foundation (FSF) about how to promote the (Free or Open Source) software.
- **T** / **F** Both Free Software Licenses and Open Source Licenses may not discriminate against anyone. Giving everyone freedom means giving evil people freedom, too.
- \mathbf{T} / \mathbf{F} You don't own software, you just get a license to use software.
- **T** / **F** Public Domain Software is Free Software.
- T / F The Free Software Movement hates Microsoft and consider it the Great Satan.
- ${f T}$ / ${f F}$ Copyleft is method to keep a free-software and its modification to be free.
- **T** / **F** Most free software projects are developed by a single developer (or with no contributor).

```
Shell Script
                                                      023
001 #!/bin/bash
002 # (c) 2017 Rahmat M. Samik-Ibrahim
                                                      024 ONE='1'
003 # This is a free script, lah!
                                                      025 TEN='10'
                                                      026 REGEX='^[0-9]+$'
004 # REV01: Thu Mar 30 17:29:35 WIB 2017
                                                      027 VARIABLE='1234567892'
005 # START: Wed Mar 29 17:28:20 WIB 2017
                                                      028 HASH='echo "$VARIABLE" | sha1sum'
"$HASH"
                                                      029 echo
007 # cut
             remove sections from each line of files
008 # cut -c select only these characters
                                                      030 isADigit
                                                      031 TEXT2='echo "$HASH"
009 # sha1sum compute and check SHA1 message digest
                                                                              | cut -c1-3'
                                                      032 TEXT3='echo "$TEXT2" | tr '[a-z]' '[A-Z]'
010 # tr
             translate or delete characters
012 isADigit() {
                                                      033 echo "$TEXT1"
       [[ $VARIABLE =~ $REGEX ]] || {
013
                                                      034 echo "$TEXT2"
         TEXT1="VARIABLE $VARIABLE is not a digit."
                                                      035 echo "$TEXT3"
014
                                                      036 exit 0
015
         return
      }
016
      [[ ${#VARIABLE}} =~ $TEN ]] && {
017
018
         TEXT1="VARIABLE $VARIABLE has 10 digits."
019
      }
020
021
      TEXT1="VARIABLE $VARIABLE has no 10 digits."
022 }
```

Script Output (Line 029, 033, 034, 035):

5a3ce516f19aa888e8fd3e80e7d7cb0320253d25 -

5. **2017-2**

According to the Free Software Foundation (FSF), (01) terms allow the software users to run the software for any purpose as well as to study, change, and distribute the software and any adapted versions. (02) software has absolutely no ownership such as copyright, trademark, or patent. (03) software requires that information necessary for reproducing and modifying the work must be made available to recipients of the software. There is a difference between the terms (04) and (05): it is possible to use (06) code in (07) projects, but the inverse is not allowed. (08) protect the expression of ideas, whereas, (09) is a right to exclude others from making, using, or selling an invention.

	using, or soming air involvion.
	Match the number of the sentence above with these following phrases:
	$\left[\right] \ \text{Copyleft} \qquad \left[\right] \ \text{Free Software} \left[\right] \ \text{Free Software}$
	$\left[\right] \text{ Free Software } \left[\right] \text{ Open Source } \left[\right] \text{ Open Source } \left[\right] \text{ Public Domain } \left[\right] \text{ Patent}$
	What will be the output of these following "sed" commands? Consider, the content of thefile.txt is:
	Sukma's house is 10 km away.
	\$ sed -e s/"km "/"miles "/ thefile.txt
=	\$ sed -e s/"km "/"miles "/g thefile.txt
	<pre>\$ sed -e s/km/miles/g thefile.txt</pre>
	\$ sed -e s/[km]/miles/g thefile.txt