

# RSL syntax

## Programming exercises:

1) Please create a script that would show the name of the current day in a message. The message type should be "Notice".

Example of the message would be "Today is Tuesday."(today,message,day2weekday)

2) Add following name strings to Native Array:

"Vorgal, Kelly"

"Quart, Piter"

"Tooro, David T"

"Bataque, Taylor"

Last name is before ",". Middle name is the last word in string.

Write a script that would change the string so that names would be formatted like: "firstname middlename lastname"

For example "Vorgal, Kelly" should become "Kelly

Vorgal".(repeat,explode,pos,copy,clearvar,foreach)

3) Create a file to script path, write current time to it and then delete the file.

The filename should contain users lanid(writefile,loop file,deletefile,time,lanid)

4) Write a script includes patient.lib from rsLib plugin and calls Patient.getDefaultPn() function.

After the function call it should output

the default patient number in a message.

5) Write a function that takes 2 parameters. First parameter will be a string that contains comma separated list of codes.

The second parameter will be a code string that is searched for in the first parameter. If the code does not exist, then the second parameter should be cleared.

For example for parameters "TEST,WWW,LLA,ZZZ" and "WWW" the value of second parameter should remain "WWW".(pos,explode,repeat)

6) Write a script that will show the next 4 leap years in a message.(changeyear)

7) Write a RSL function where the first argument is one dimensional Native Array and second argument will be the value of the largest element in the Array.

8) Write a RSL function where the first argument is one dimensional Native Array and second argument will be sum of numbers in the array.

You can assume that the array will always contain numbers.

9) Write a function with 3 arguments. First 2 arguments are sorted RSL arrays (look to `emr\rsLib\array.lib`) and the third returned argument should be sorted array that is the result of merging the first 2 arrays.

10\*) Write a function that would get a Native array as a parameter and will sort the array by key values. Array keys are from string datatype. Please also comment what sorting algorithm was used and why was it selected.

## Questions:

11) What is the value of %a after following code lines?

```
set %a := "a"
if 1 = "1" then set %a := "b"
```

12) What is the value of %a after following code lines? `chr()` converts a number to character based on ascii table.

```
set %a := 1
if 1 > (chr(48)) then set %a := 2
```

13) What is the value of %a after following code lines?

```
set %a := 1
if ("02-02-16" > "12-02-15") then set %a := 2
```

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set %a := 1
if "02-02-16" > "12-02-15" then set %a := 2
```

14) Let's say that you need to write a RSL script that will run when user goes to scheduler and it will create a temporary file at the beginning of the script. At the end of the script it will read to file for processing and delete it. Which of the following statements are true:

1. File name can be `temp.txt`, then we know that is just a temporary file.
2. File should be unique per station, because there might be multiple agents running in the same database.

15) What text will be shown in the message box after following lines of code:

```
set %msg:= "Hello"
if (%msg) then
begin
    set %msg := %msg . " World!"
```

```
end.  
message "Notice" %msg
```

- a) "Hello"
- b) "Hello World!"
- c) " World!"
- d) Message is not shown.

16) What will be value of %a after following lines of code

```
set %a := 0  
repeat  
    set %a := %a + 2  
until %a > 12
```