# Telerik QA Track – Intermediate Exam #2 – November 2014

## Problem 1. Pairwise testing

Suppose you need to buy a new TV, considering the following options:

* TV Brand: Sony, LG, Samsung, Philips, Panasonic
* Resolution: HD, HD+, Full HD, Ultra HD
* Size: 40", 42", 47", 50"
* Colour: Silver, Black, White
* Create all-pairs table using PICT tool.  
  (<http://blogs.msdn.com/b/nagasatish/archive/2006/11/30/pairwise-testing-pict-tool.aspx>).
* Choose the most appropriate orthogonal array using the orthogonal arrays database (<http://digitalabacus.com/tools/oafinder/>). Map array's options with their concrete values.

## Problem 2. Telerik Testing Framework

1. Make functional web tests using Telerik Testing Framework. The tests should navigate to the following URL: <http://demos.telerik.com/aspnet-ajax/>

* Search for “Grid Filtered by Combo” demo and click on some of the results
* Verify that the correct demo is loaded
* Test filtering

Select “Regina Murphy” from the combo box and verify that 3 rows are displayed in the grid

* Test paging

Change the page size and verify the rows number in the table

1. Navigate to <http://demos.telerik.com/aspnet-ajax/>

* Search for “Automatic Operations” demo and click on the result
* Verify the correct demo is loaded
* Verify Contact Title column by Contact Name column

Select some contact name and verify its contact title  
Hint: You may use XPath Axes ☺

* Test paging

Change the page size and verify the rows number in the table

Think how to reuse your code.

## Problem 3. Sikuli

Make the following test using Sikuli with basic framework.

* Open Paint
* Select circle from Shapes and green from Colors
* Draw a green circle
* Save the picture
* Open Paint again and load the picture. Verify that the correct picture is loaded

Report your test results in HTMLTestRunner format.

### Terms and Conditions:

During the exam you are allowed to use any teaching materials, lectures, books, existing source code, and other paper or Internet resources.

Direct or indirect communication with anybody in class or outside is forbidden. This includes but does not limit to technical conversations with other students, using mobile phones, chat software (Skype, ICQ, etc.), email, forum posts, etc.

### Exam Duration:

Students are allowed to work up to 4 hours.