Programming Assignment Due 7/5/15

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| Homework 2 |
| **Instructions** |   |
| **Implementing Lists**A doubly linked list is a list for which besides the next element in the list, a pointer to the previous element is kept, at the level of each element.A circular list is a list in which the last element is linked to the first element in the list. **Requirements:**Design a circular doubly linked list, for which the following operations should be implemented:* + Search for a given element in the structure
	+ Insert an element after some element, specified as argument
	+ Delete an element specified as argument
	+ List (forwards and backwards) all the elements present in the doubly linked list.

**Approach:**You should show the functionality by repeatedly inserting a few (at least 5) elements, followed by at least one search and one delete operation. After ***each*** operation performed, display the elements in the list. The elements should be displayed either in the output window of the IDE, or in a GUI (however, designing a GUI is not mandatory; your work is considered for full grade without a GUI). **Deliverables**: You should submit (1) the souce (.java) files, (2) an output sample (screenshot showing program execution and the results of your testing) and (3) a document file describing your solution. The solution description document should include the following elements: a short problem analysis, main design decisions, user interface, testing and test cases, error handling and lessons learned. The size of the document should be of 1-2 pages, single spaced, font size 12. All solution description elements should be properly formatted using APA style. Wrapp all the files in a single .zip archive and name it Hw2\_your\_name.zip (if I were you, it would be Hw2\_Rodica\_Potolea.zip). |