- 1. Write a program which implements a bounded stack (a Last-In-First-Out structure using sequential memory storage), aimed at storing real numbers, and a set of methods operating on this structure:
 - the constructor with the size of the stack as a parameter (with memory allocation),
 - the copy-constructor (with memory allocation),
 - the assignment operator= (with memory dellocation and allocation),
 - the comparison operator==,
 - the destructor (with memory deallocation),
 - push adding a real number to the stack or throwing a full stack exception,
 - pop removig from the stack a real number pushed there most recently or throwing an empty stack exception,
 - top returning the most recently pushed number or throwing an empty stack exception,
 - print printing the values which are on the stack currently, starting from the one pushed recently,
 - empty informing whether the stack is empty,
 - size returning the number of the items on the stack,
 - clear removing all the items from the stack.

The program should use all these methods to make the operations as follows:

- 1) create a stack containing the numbers given by the user,
- 2) print the contents of the stack,
- 3) remove two values from the stack and print them,
- 4) print the top number,
- 5) print the number of values on the stack if it is nonempty, or an appropriate message otherwise,
- 6) clear the stack.