

# Stack Queue Solutions

- Describe the stack data structure
  - A stack is a data structure in which elements are removed in the reverse order in which they were added
- How are elements added to a stack, stored in it and removed from the queue?
  - Elements are added at the top of the stack
  - As elements are added, the other elements are moved down
  - Elements are removed from the top of the stack
  - As elements are removed, the other elements are moved up

- Give some examples of operations that can be performed on the C++ Standard stack
  - push, pop, top, size, empty

- Write a simple program that creates a stack instance and adds some elements to it
- Print out as much information about the stack as you can
- Remove an element from the stack
- Now print out the information again

- Give an example of a programming problem where a stack would be useful
  - Adding undo/redo functionality to an application