CH. SREE RAM SREEKAR

CS3010

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Stack Machine Report

The class StackCommand provides the interface for a stack. The functionality is minimal. The stack can be a single string or a stack on top another stack.

Stack ——>Stack+Stack

Stack——>String

Push(string) pushes a string on top of the stack:

  This functionality is provided by the inherited class Push.

Pop() pops the top element of the stack

  This functionality is provided by the inherited class Pop.

main():

  Stack was initialised by first pushing '$' to the stack as a marker
  for the bottom of the stack. A while loop is executed as long as
  the input is not 'x'. If 'd' is the input, the contents of the
  stack are printed by calling the recursive print function. If the
  input is 'e', then the top of the stack is examined. Suitable
  action is taken depending on the element at the top of the stack.
  If the input 'x' is encountered, the control flow exits the while
  loop and prints the terminating message.