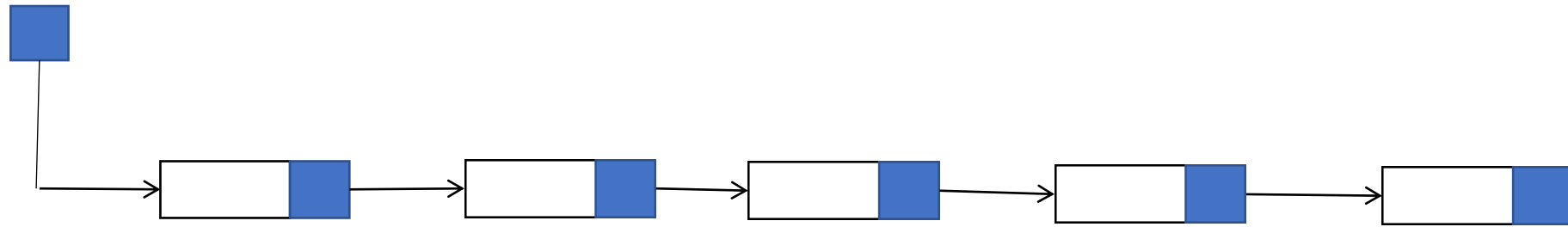# Linked Stack

Data structure, second stage, college of science for women, university of Baghdad.

Dr. Amer Al-Mahdawi

Linked implementation of the stack
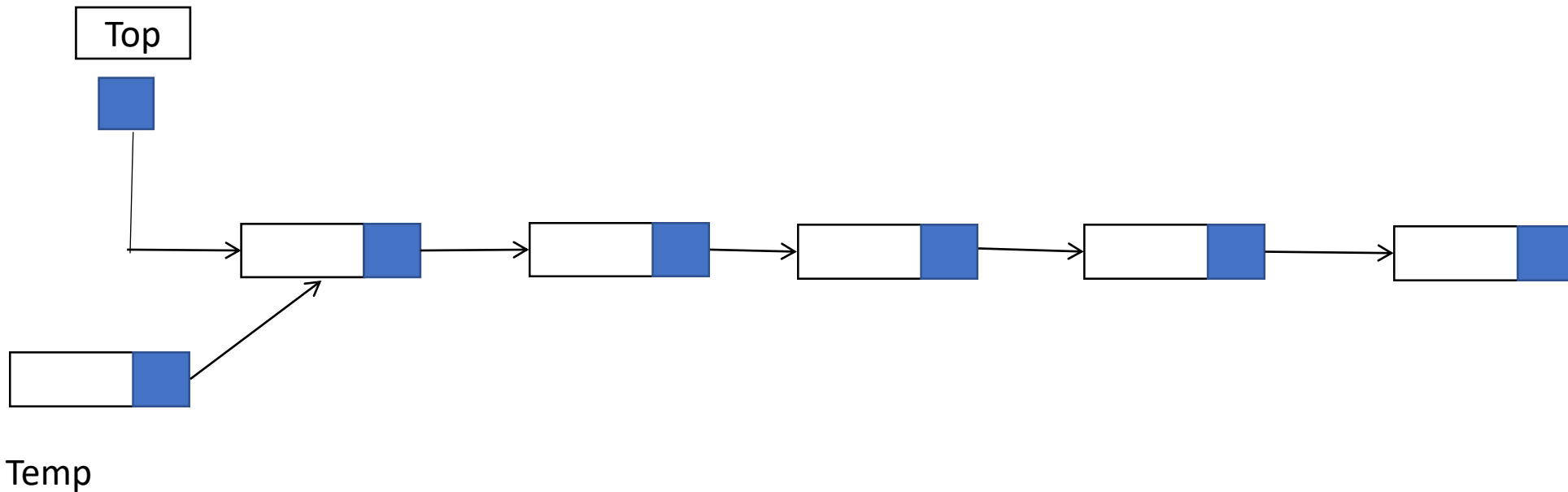
Push O(1)
Pop O(1)

Push O(n)
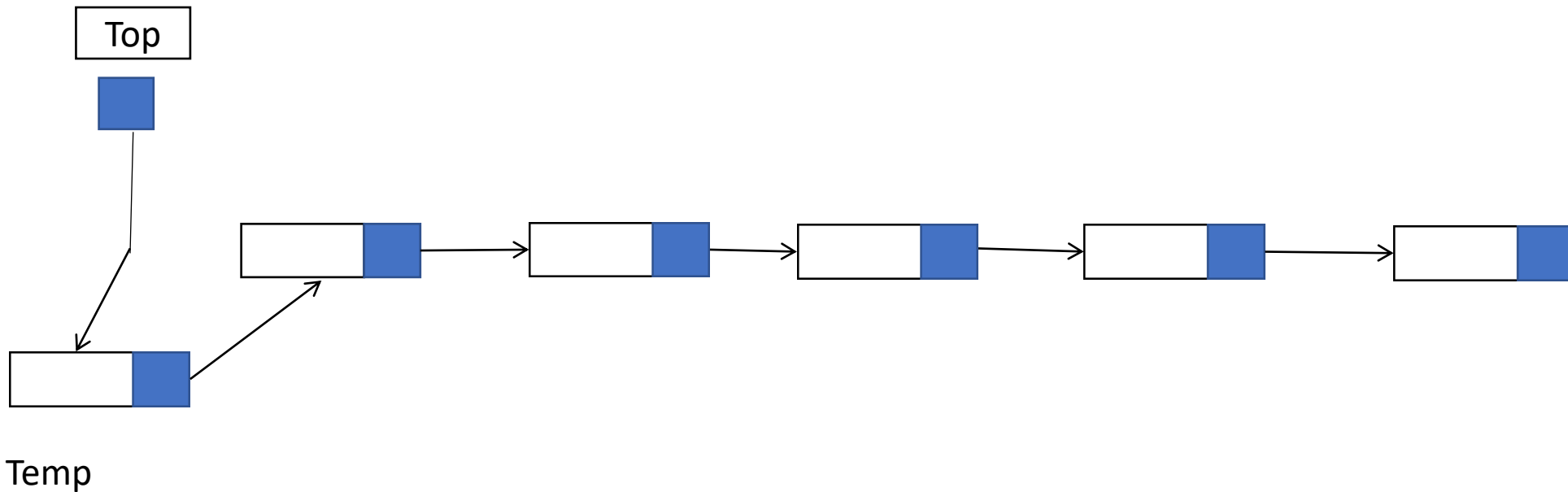Pop O(n)

Linked implementation of the stack

Push operation

Node is inserted in the beginning of the list

Linked implementation of the stack

Temp.link = self.top

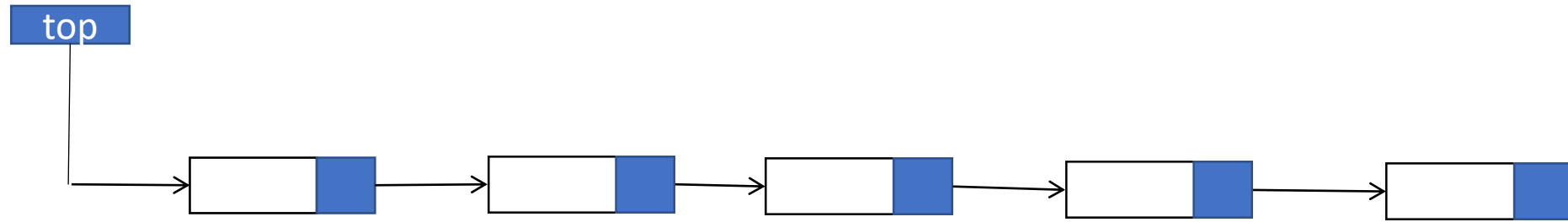Self.top = temp

Top

Temp

Linked implementation of the stack

Pop operation   Popped_element = self.top.info

First node of the list is deleted

Linked implementation of the stack

Pop operation

First node of the list is deleted

Popped_element = self.top.info

Self.top = self.top.link
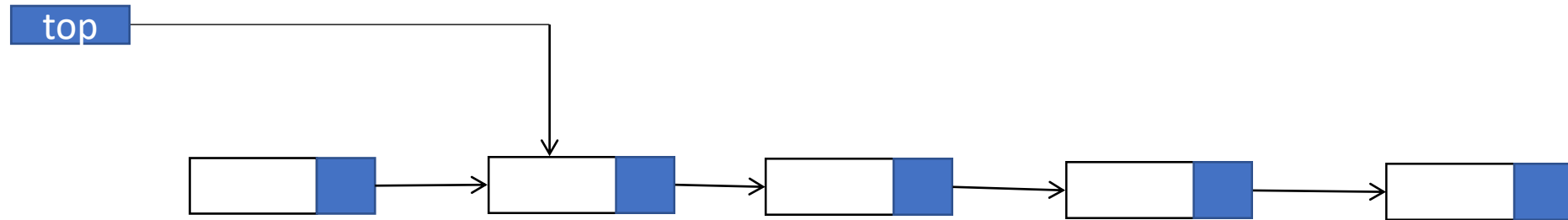
Linked implementation of the stack

Pop operation

Popped_element = self.top.info

First node of the list is deleted

Self.top = self.top.link