

DSA456V1A

Assignment 1 Part 2 Drawings

Student: Chungon Tse

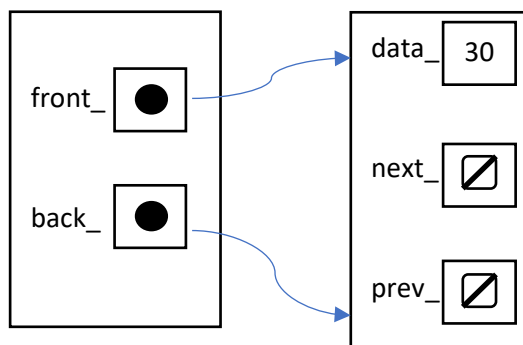
ID: 154928188

Date: 1 Mar 2023

[Insert function](#)

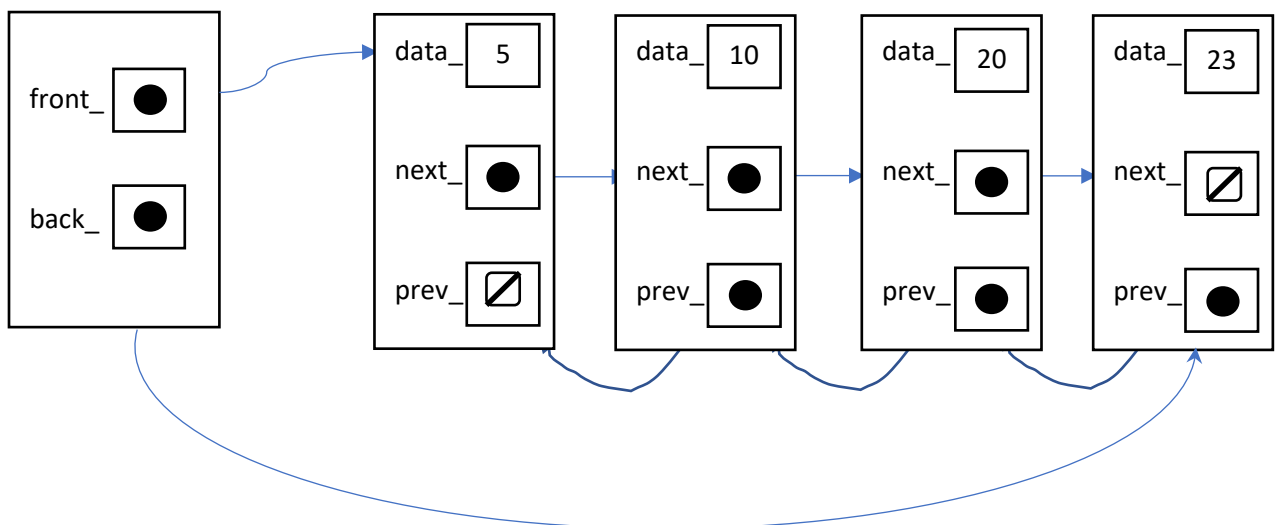
Q1

insert(30)



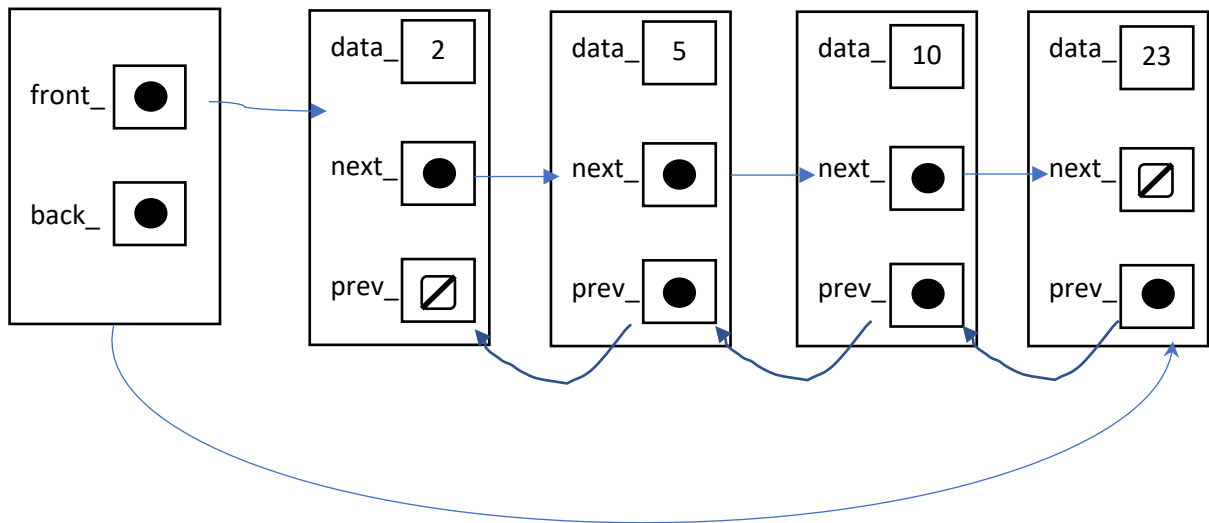
Q2

insert(20)



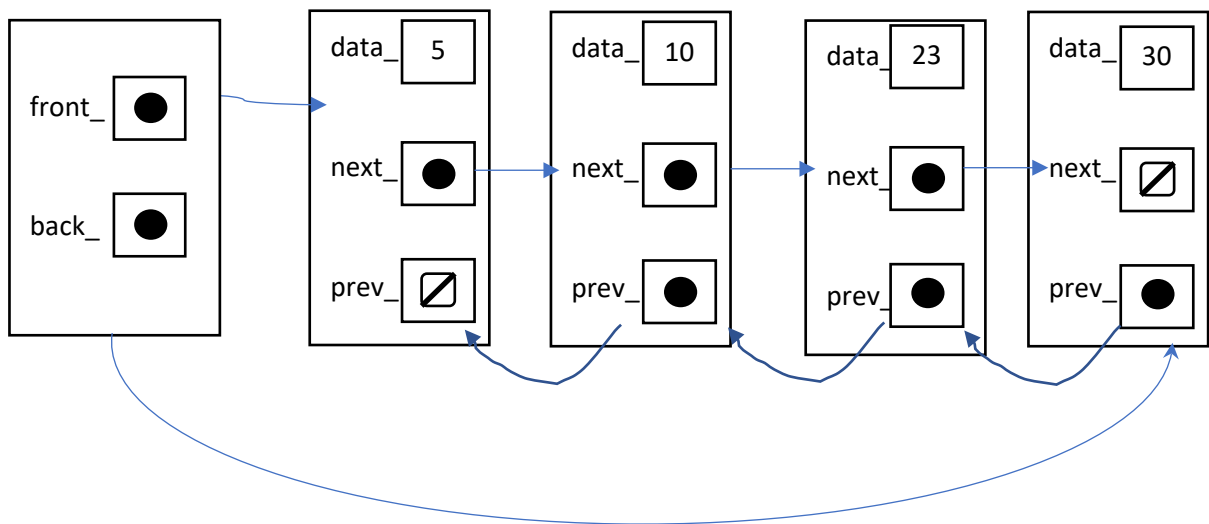
Q3

insert(2)



Q4

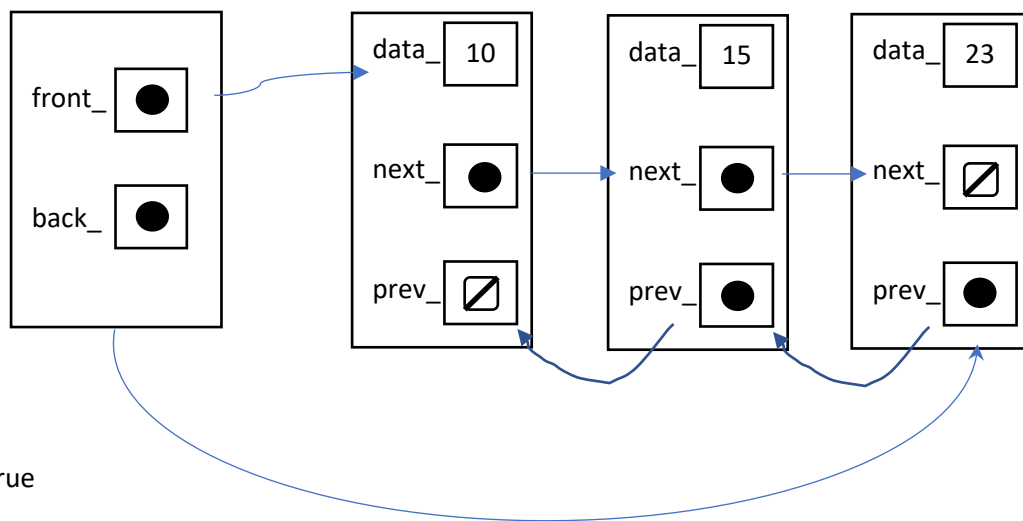
insert(30)



remove function

Q1

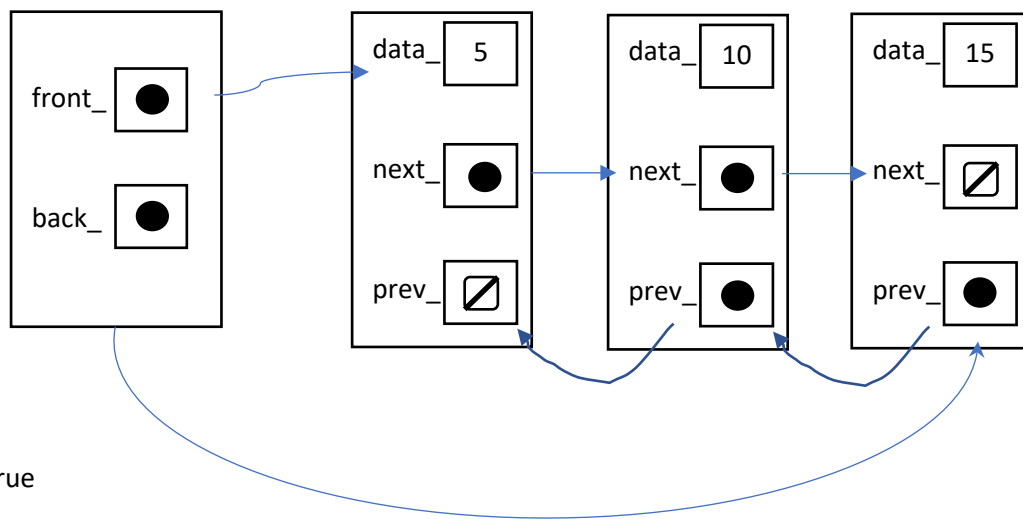
remove(8)



return True

Q2

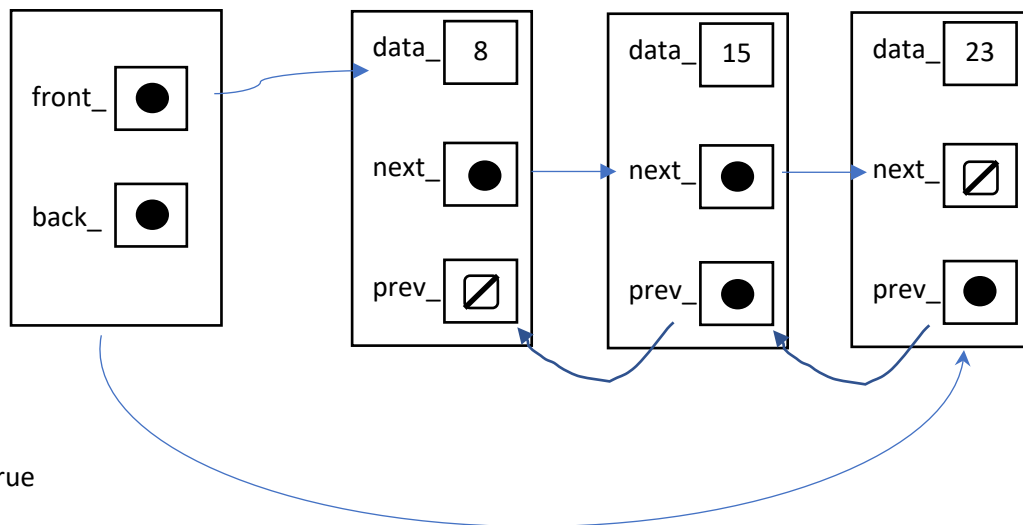
remove(23)



return True

Q3

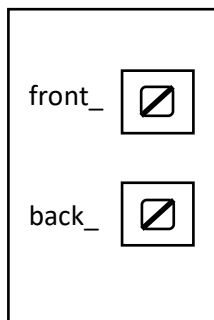
remove(10)



return True

Q4

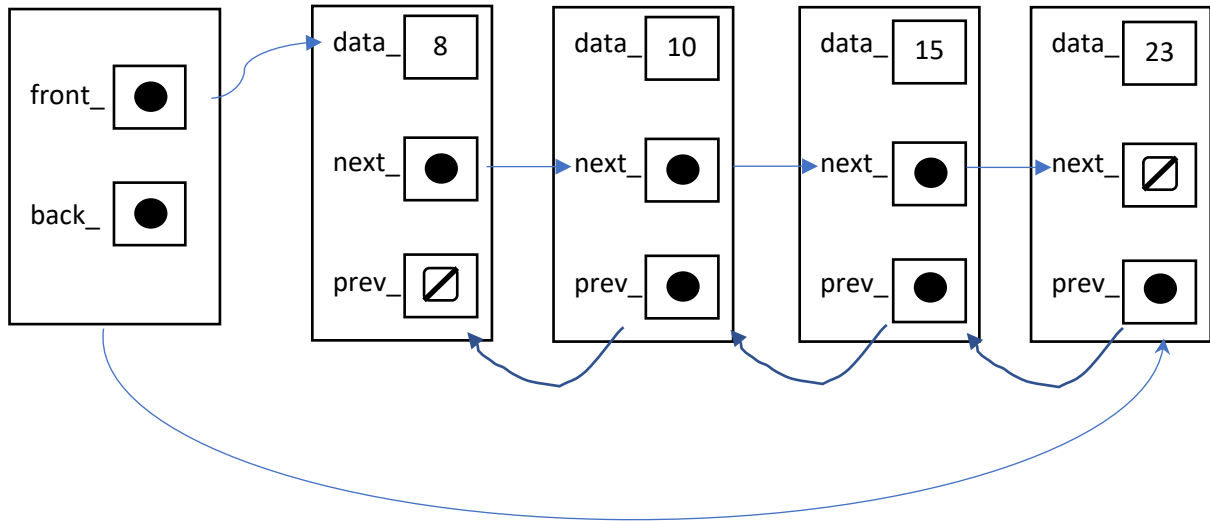
remove(8)



return True

Q5

remove(18)



return False

is_present function

Q1

is_present(21)

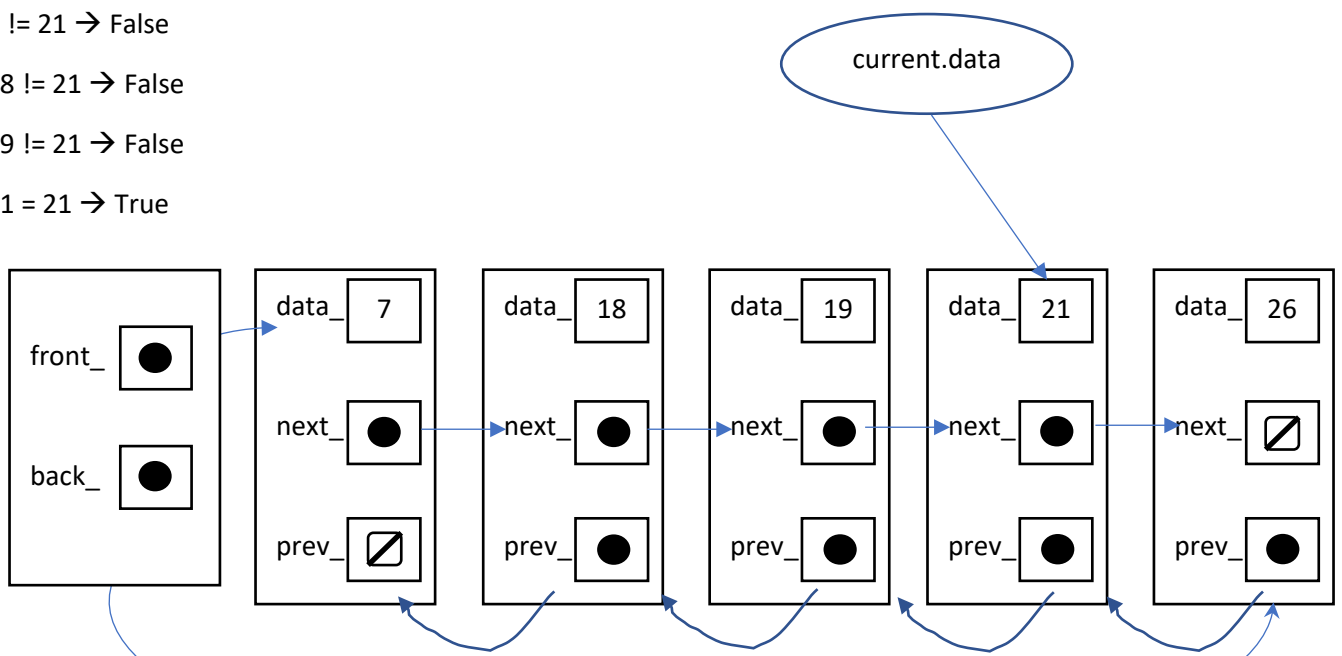
if current.data == data

7 != 21 → False

18 != 21 → False

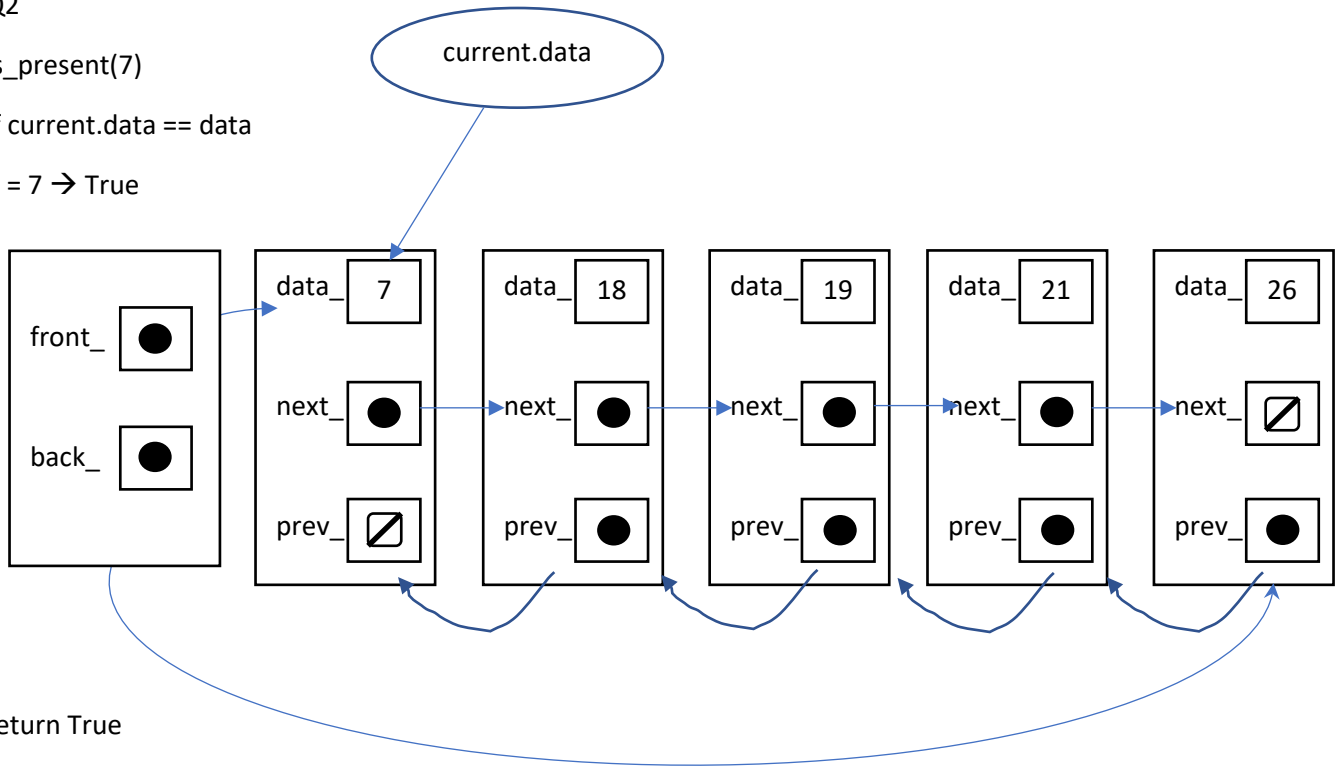
19 != 21 → False

21 = 21 → True

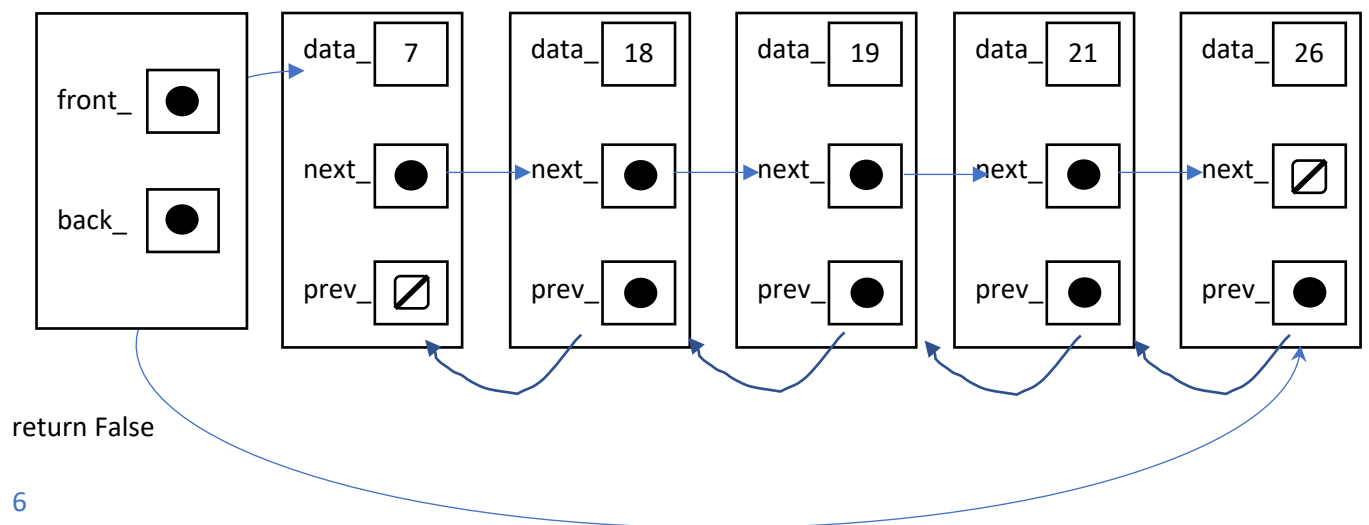


return True

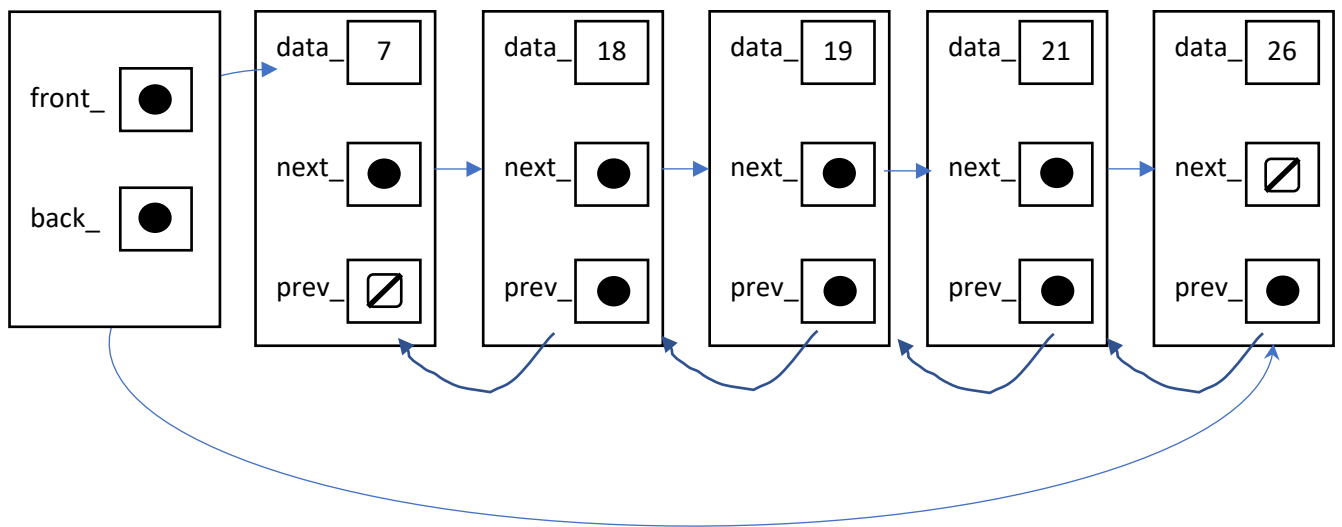
Q2

`is_present(7)``if current.data == data``7 = 7 → True``return True`

Q3

`is_present(11)``if current.data == data``7 != 11 → False``18 != 11 → False``19 != 11 → False``21 != 11 → False``26 != 11 → False``return False`

Q4

`is_present(30)``if current.data == data``7 != 30 → False``18 != 30 → False``19 != 30 → False``21 != 30 → False``26 != 30 → False``return False`