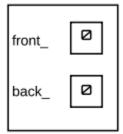
For insert draw over this image and modify all links that are changed as result of insertion. Add on new nodes in your drawing and show how they link up

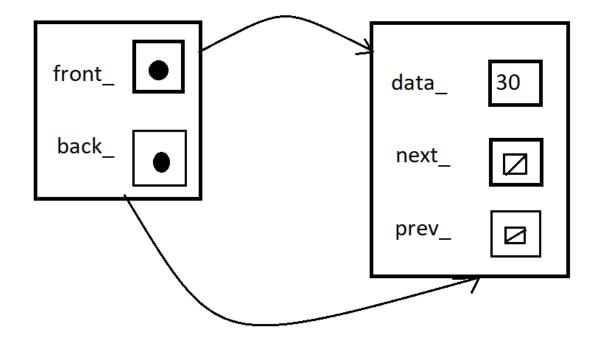
Ques 1)

insert(30);

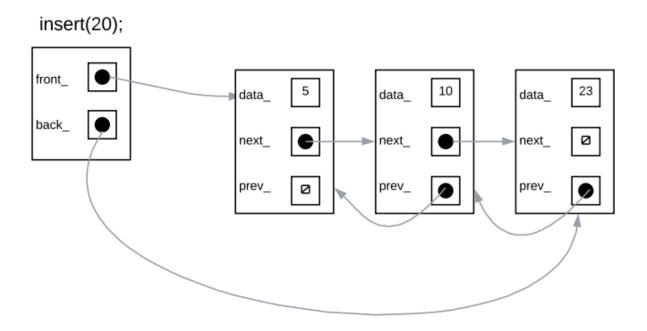


Ans 1)

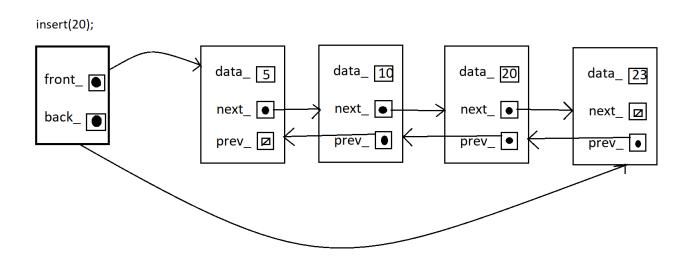
insert(30);



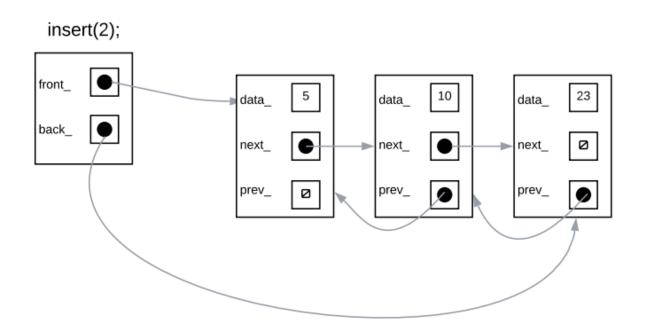
Ques 2)



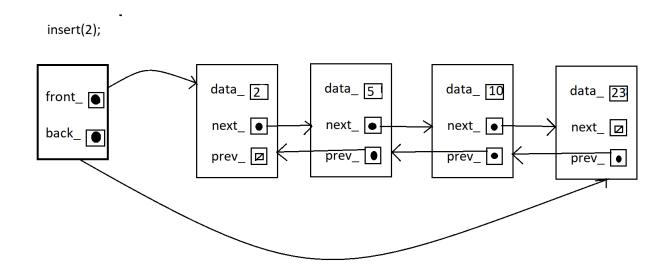
Ans 2)



Ques 3)

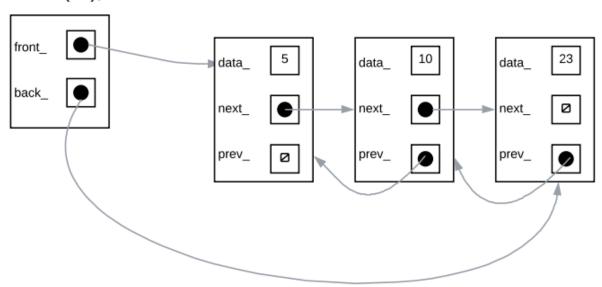


Ans 3)



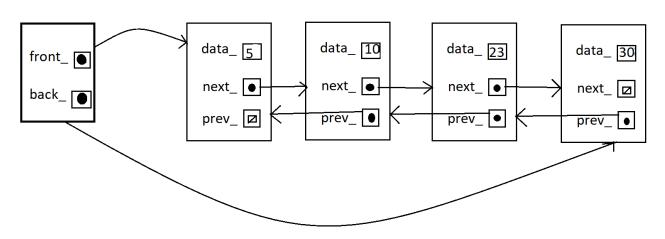
Ques 4)

insert(30);



Ans 4)

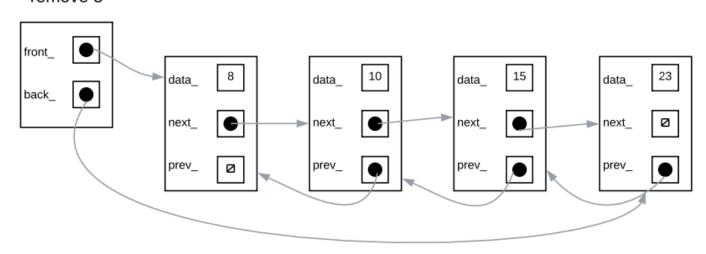
insert(30);



For remove() indicate how the list will change as well as return value.

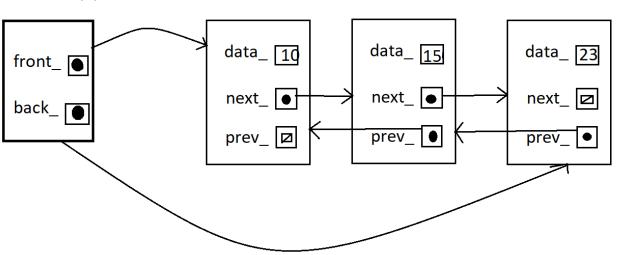
Ques 1)

remove 8



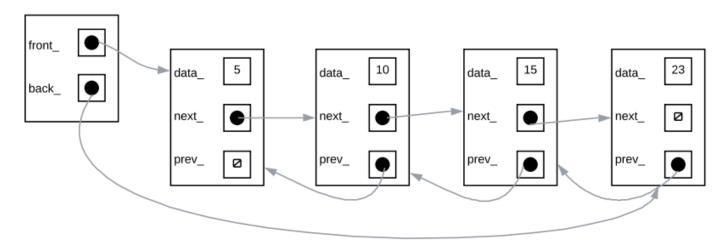
Ans 1)





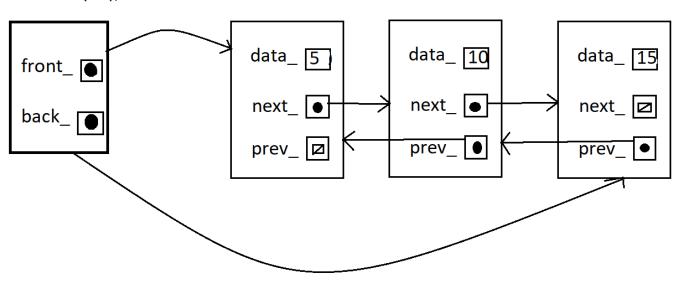
Ques 2)

remove 23



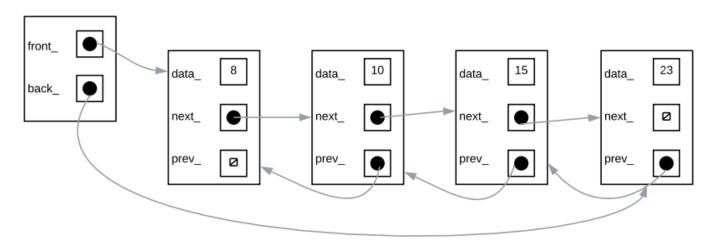
Ans 2)

remove(23);

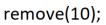


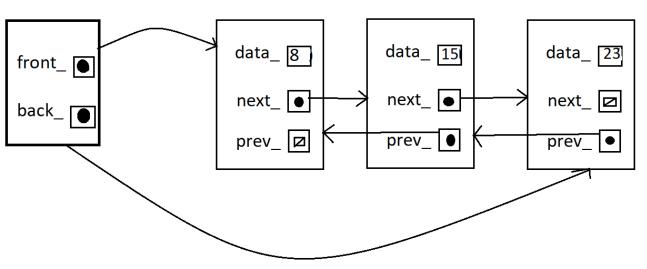
Ques 3)

remove(10)



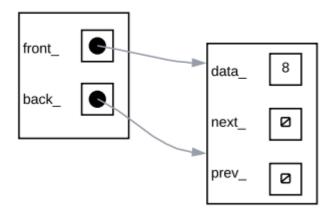
Ans 3)





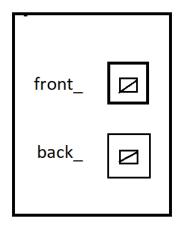
Ques 4)

remove(8)



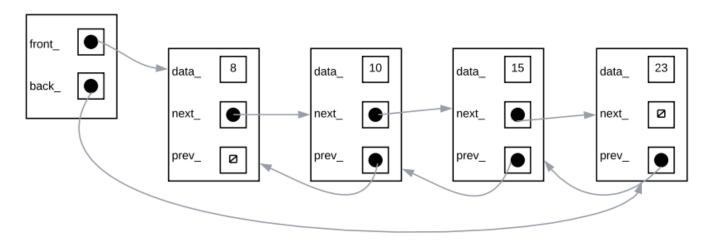
Ans 4)

remove(8);

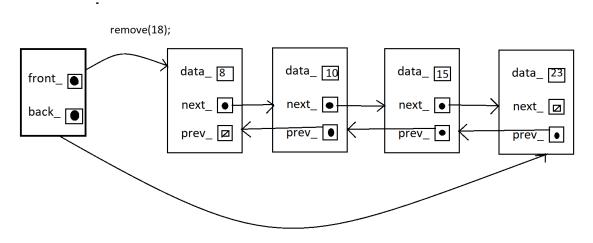


Ques 5)

remove(18)



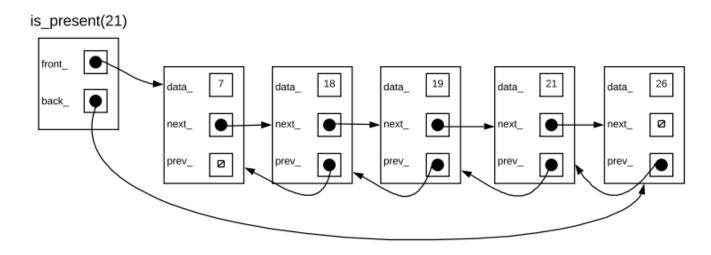
Ans 5)



return false;

For is present list will not change, mark out which nodes you will be looking at and in what order. Indicate what you will return

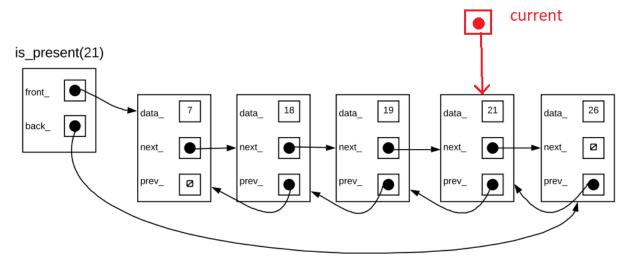
Ques 1)



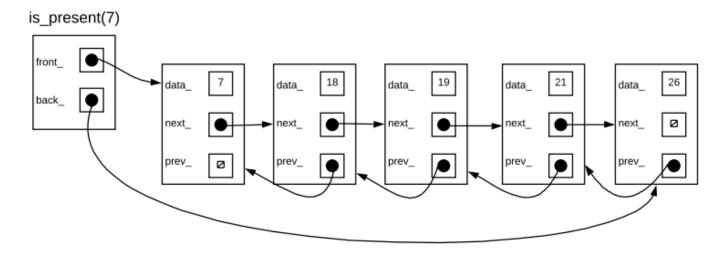
Ans 1)

Is current == data?

- 1) 7 != 21, false
- 2) 18 != 21, false
- 3) 19 != 21, false
- 4) 21 == 21, true

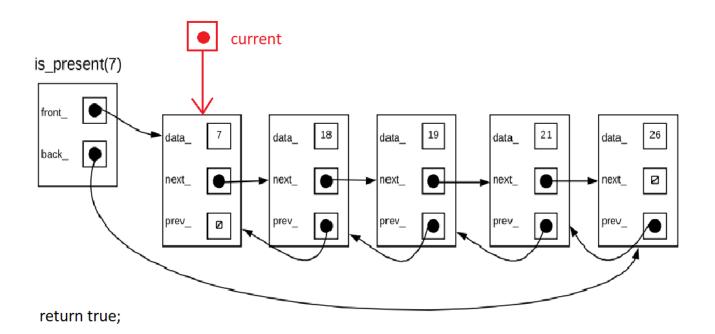


Ques 2)



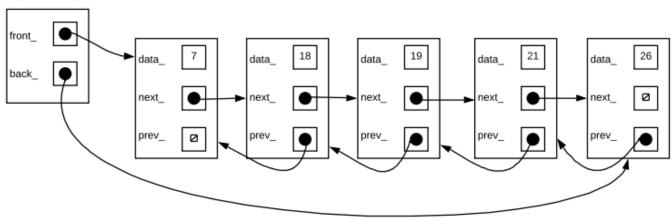
Ans 2)

Is current == data? 1) 7 == 7, true



Ques 3)

is_present(11)

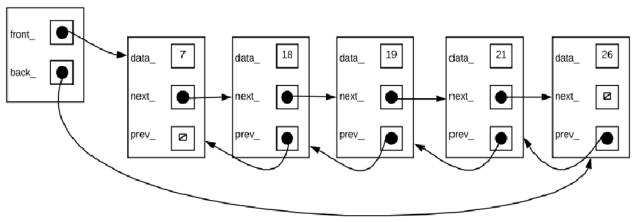


Ans 3)

Is current == data?

- 1) 7 != 11, false
- 2) 18 != 11,false
- 3) 19 != 11, false
- 4) 21 != 11, false
- 5) 26 != 11, false

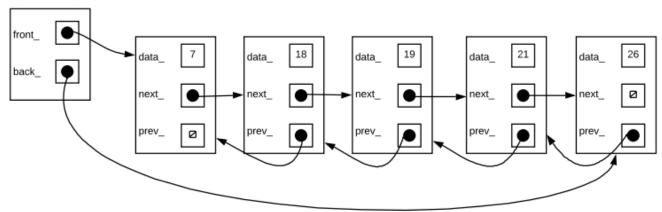
is_present(11)



return false;

Ques 4)

is_present(30)

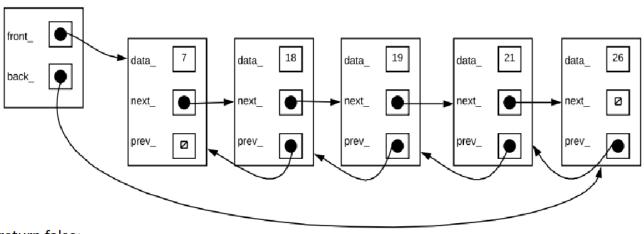


Ans 4)

Is current == data?

- 1) 7 != 30, false
- 2) 18 != 30, false
- 3) 19 != 30, false
- 4) 21 != 30, false
- 5) 26 != 30, false

is_present(30)



return false;