



```
public void printRec () {
    System.out.println ("The list is: ");
    private void printRec (IntNode p) {
    if (p == null) {
        System.out.println (" null ");
        return;
    }
    else {
        System.out.print (p.getValue() + " --> ");
        printRec (p.getNext());
    }
}
```

```
### AIC | Comparison of the property of the p
```

```
הדפסת רשימה ברקורסיה — סימולציה

private void printlec (IntNode p) {
    if (p == null) {
        system.out.println (" null ");
        return;
    }
    else {
        System.out.print (p.getValue() + " --> ");
        printlec (p.getNext());
    }
}

aredu:

Betu:

Betu
```

```
מחספת החיכרון:

private void printRec (IntNode p) {
    if (p == null) {
        System.out.println (" null ");
        return;
    }
    else {
        System.out.print (p.getValue() + " --> ");
        printRec (p.getNext());
    }
}

ared:

ared:

ared:

ared:

printRec (p.getNext());
}

ared:

ar
```

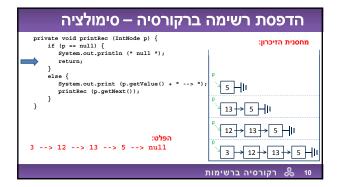
```
private void printRec (IntNode p) {
    if (p == null) {
        System.out.println (* null *);
        return;
    }
    else {
        System.out.print (p.getValue() + " --- ");
        printRec (p.getNext());
    }
}

Below

3 --> 12 --> 13 --> 5 -->

8 --- 12 --> 13 --> 5 -->

8 --- 12 --> 13 --> 5 -->
```



```
private void printRec (IntNode p) {

private void printRec (IntNode p) {

if (p == null) {

System.out.println (" null ");

return;
}
else {

System.out.print (p.getValue() + " --> ");

printRec (p.getNext());
}
}

3 --> 12 --> 13 --> 5 --> null
```

```
מחסנית הזיכרון:

private void printRec (IntNode p) {
    if (p == null) {
        System.out.println (* null *);
        return;
    }
    else {
        System.out.print (p.getValue() + " --> ");
        printRec (p.getNext());
    }
}

and Deviation

and Deviation

and Deviation

and Deviation

private void private (in the private of the private
```

```
private void printRec (IntNode p) {
    if (p == null) {
        System.out.println (" null ");
        return;
    }
    else {
        System.out.print (p.getValue() + " --> ");
        printRec (p.getNext());
    }
}

3 --> 12 --> 13 --> 5 --> null

3 --> 12 --> 13 --> 5 --> null
```

```
public void add(int num) {
    head = add(head, num);
}

private IntNode add(IntNode node, int num) {
    if (node == null) {
        return new IntNode(num, null);
    }
    else {
        node.setNext(add(node.getNext(), num));
        return node;
    }
}
```

```
private void printRec (IntNode p) {
    if (p == null) {
        System.out.println (" null ");
        return;
    }
    else {
        System.out.print (p.getValue() + " --> ");
        printRec (p.getNext());
    }
}

aredo:

aredo:
```

```
הוספת איבר לסוף הרשימה - סימולציה
public class Driver
                                                    מחסנית הזיכרוו:
   public static void main(String args)
       IntList list = new IntList();
                                          num = 5
       list.add(5);
list.add(8);
                                          list
                                                       head =
       list.add(7);
                                                          null
}
                        במחלקה IntList:
public void add(int num)
                                                          null
    _head = add(_head, num);
                                        רקורסיה ברשימות &
```

```
public class Driver (

public static void main(String args) {

public static void main(String args) {

IntList list = new IntList();

list.add(5);

list.add(8);

list.add(7);

}

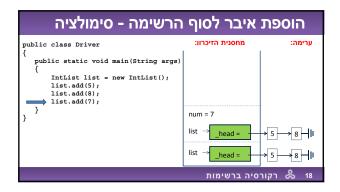
public void add(int num) {

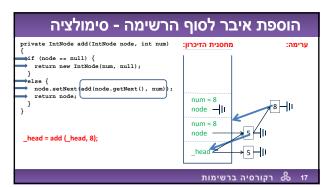
head = add(head, num);

}

list — head = null

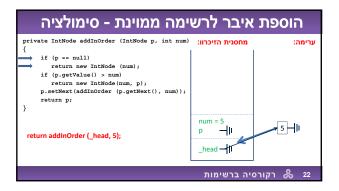
head = Add(head, num);
```





```
public IntNode addInOrder (int num)
{
    return addInOrder (_head, num);
}

private IntNode addInOrder (IntNode p, int num)
{
    if (p == null)
        return new IntNode (num);
    if (p.getValue() > num)
        return new IntNode(num, p);
    p.setNext(addInOrder (p.getNext(), num));
    return p;
}
```



```
public static void main(String args)
{

public static void main(String args)
{

IntList list = new IntList();

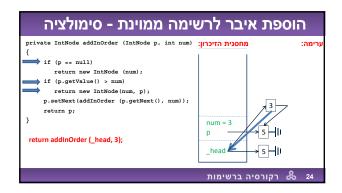
list_head = list.addInOrder(5);

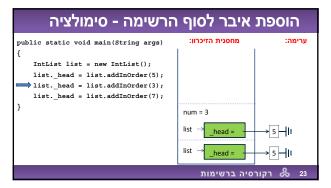
list_head = list.addInOrder(3);

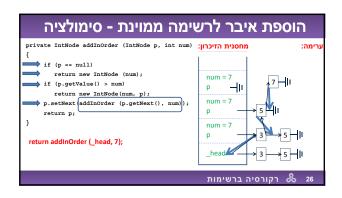
list_head = list.addInOrder(7);
}

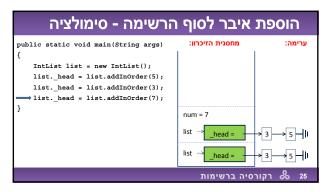
public IntNode addInOrder(int num) {

return addInOrder(head, num);
}
```









```
public static void main(String args)
{

IntList list = new IntList();

list.addInOrder(5);

list.addInOrder(7);
}
```

```
addInOrder השיטה הציבורית

IntList מחלקה candinorder (int num)

public IntNode addInOrder (int num)

return addInorder (_head, num);

ctyle can be addinorder (_head, num);

public void addInorder (int num)

head = addInorder (_head, num);

}
```