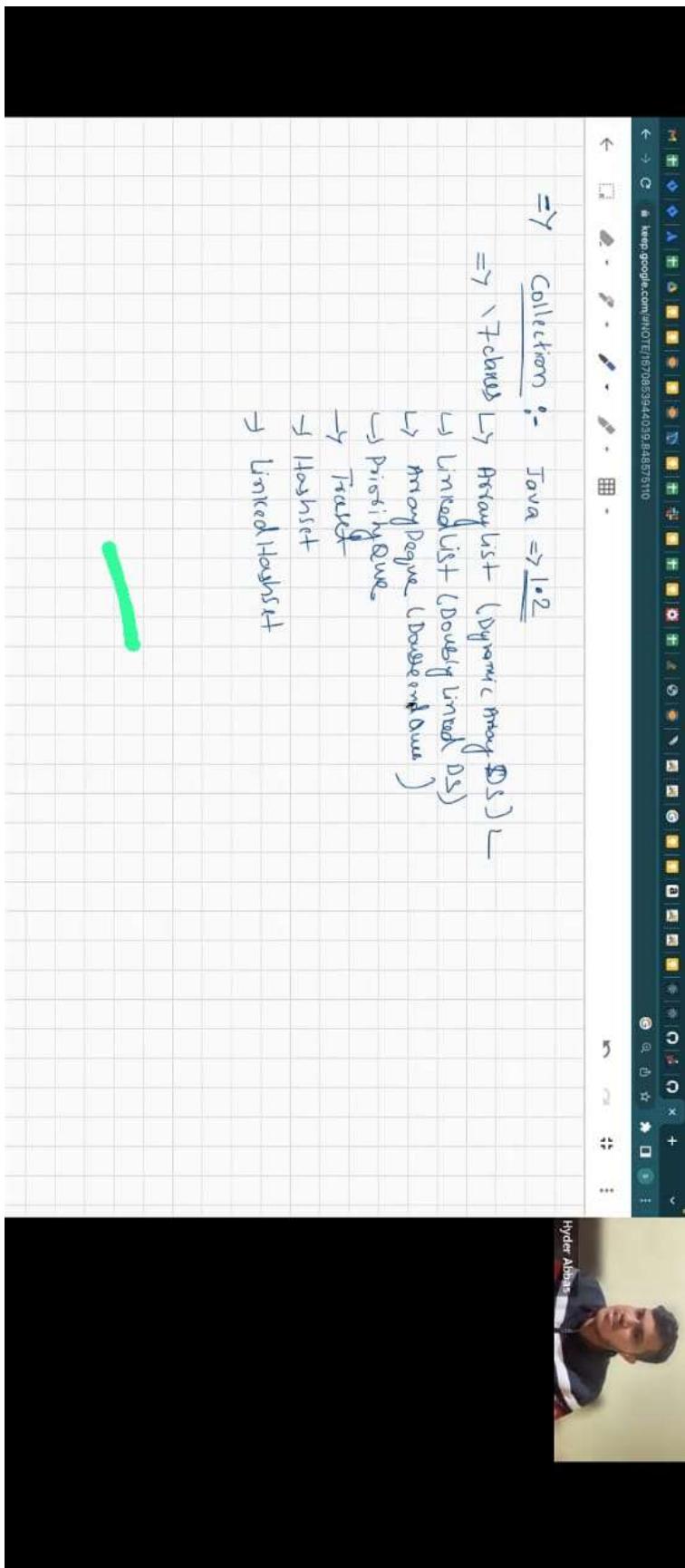
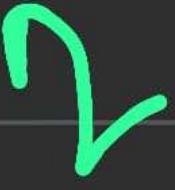


Java Collection Part-2





```
1 import java.util.*;
2 public class LaunchpQ
3 {
4     public static void main(String[] args)
5     {
6         Priorityqueue pq=new Priorityqueue();
7         pq.add
8     }
9 }
```

The code is a Java program named `LaunchpQ`. It imports the `java.util.*` package. The `main` method creates a new `Priorityqueue` object and calls its `add` method. The code is incomplete at the end of line 8.

Priorityqueue

Imports the specified element into this priority queue. Inserts the specified element into this priority queue. Returns: true if specified element was successfully inserted; false if the element to add is already present in this priority queue. Throws: `ComparableException` - if the specified element cannot be compared with elements currently in this priority queue according to the priority queue's ordering. `NotSupportedException` - if the specified element is not supported by this priority queue.

Hyder Abbas

Writable Smart Input 9:16:153



```
1 import java.util.*;
2 public class LaunchHPQ
3 {
4     public static void main(String[] args)
5     {
6         PriorityQueue pq=new PriorityQueue();
7         pq.add(100);
8         pq.add(150);
9         pq.add(125);
10        pq.add(25);
11        pq.add(75);
12        pq.add(125);
13        pq.add(175);
14        System.out.println(pq);
15    }
16 }
17
18
19 }
20 }
```

The screenshot shows a Java code editor with a dark theme. The code is a simple program named 'LaunchHPQ' that demonstrates the use of a Priority Queue. It imports the 'java.util.*' package, defines a class 'LaunchHPQ', and contains a 'main' method. Inside the 'main' method, it creates a new 'PriorityQueue' object, adds five integer values (100, 150, 125, 25, 75) to it, and then prints the queue to the console. The code is numbered from 1 to 20. In the bottom right corner of the screen, there is a small video feed of a person's face, with the name 'Hyder Abbas' displayed below it. The bottom left corner of the screen features a large, hand-drawn green heart.

4

\Rightarrow Priority Queue } \Rightarrow (min-heap Data Structure) }

↳ (Queue U)

\Rightarrow min-heap }

$\overbrace{\quad\quad\quad}$

1 2 3 4 5 6 7 8

(1)

$\overbrace{\quad\quad\quad}$

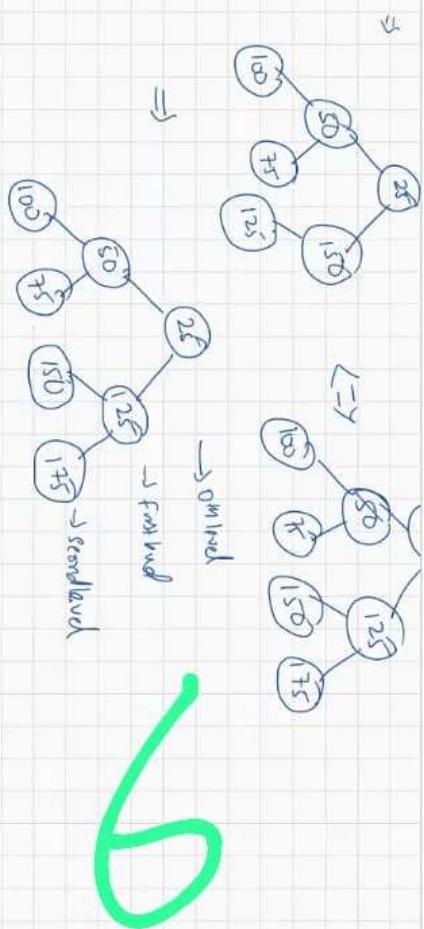
1 2 3 4 5 6 7 8

(1)





\Rightarrow 25 50 125 100 75 150 175



→ 0 min
↓ fahrtzeit

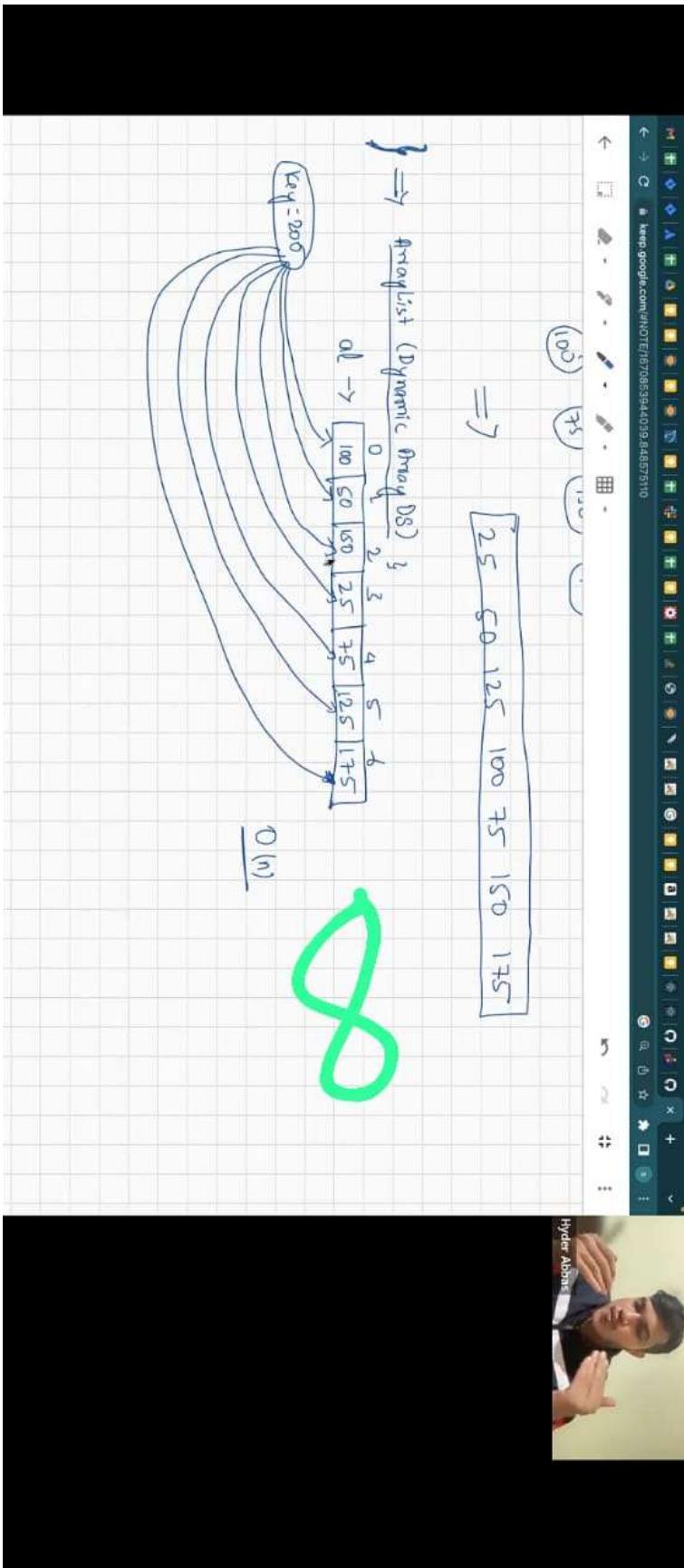
6

→ 0 min
↓ sendzeit



```
1 package LaunchQ;
2 import java.util.*;
3 public class LaunchPQ {
4     public static void main(String[] args) {
5         PriorityQueue pq=new PriorityQueue();
6         pq.add(100);
7         pq.add(50);
8         pq.add(150);
9         pq.add(25);
10        pq.add(75);
11        pq.add(125);
12        pq.add(175);
13        System.out.println(pq);
14        pq.add(25);
15        System.out.println(pq);
16        pq.add(25);
17        System.out.println(pq);
18    }
19 }
20
21
22 }
23 }
```

The screenshot shows a Java development environment with a code editor containing a simple program to demonstrate a Priority Queue. The code creates a `PriorityQueue` object and adds several elements with different priorities. A green arrow points from the code area to the JavaDoc for the `add` method in the `PriorityQueue` class. The JavaDoc provides details about the method's behavior, including its effect on the queue if the specified element is already present.

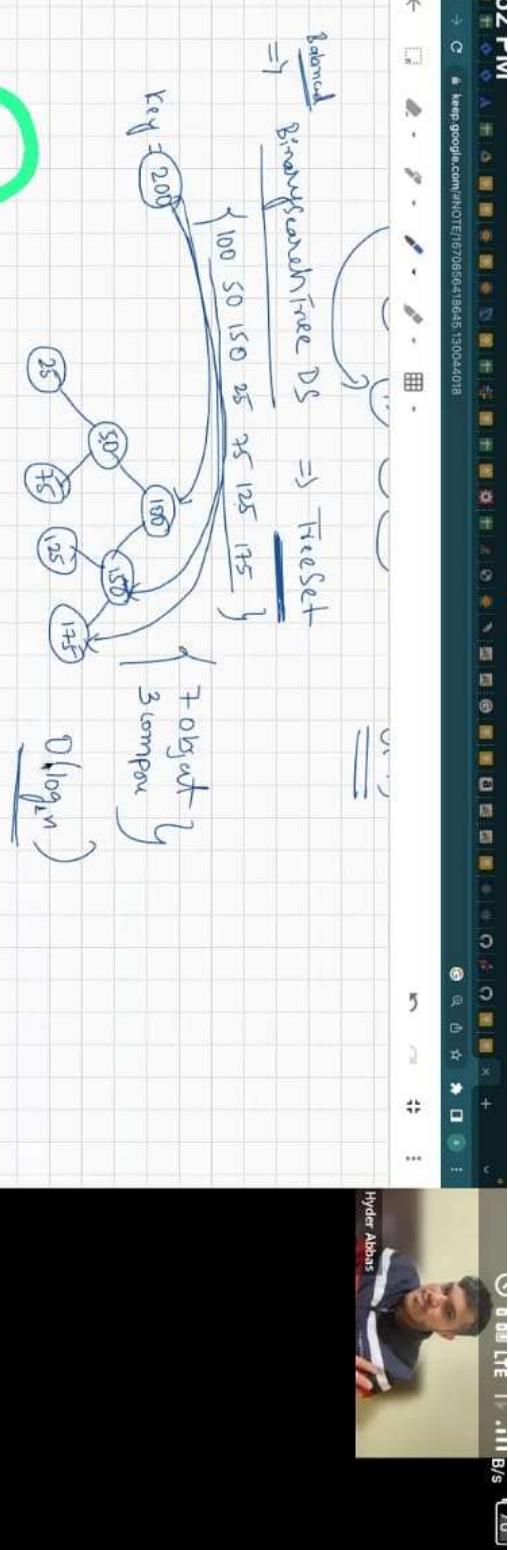




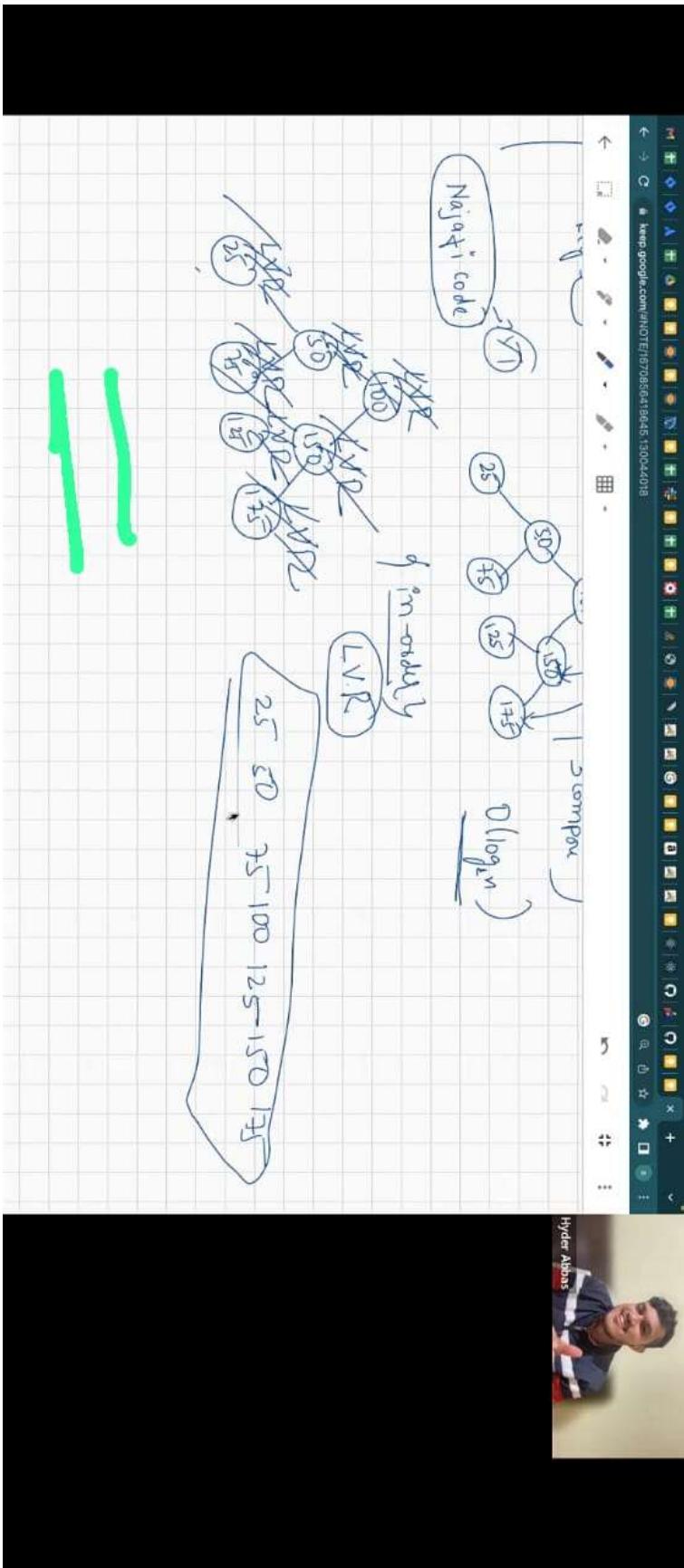
```
{  
    TreeSet ts=new TreeSet();  
    ts.add(100);  
    ts.add(50);  
    ts.add(150);  
    ts.add(25);  
    ts.add(75);  
    ts.add(125);  
    ts.add(175);  
    System.out.println(ts);  
}  
[25, 50, 75, 100, 125, 150, 175]  
  
Hyder Abbas
```

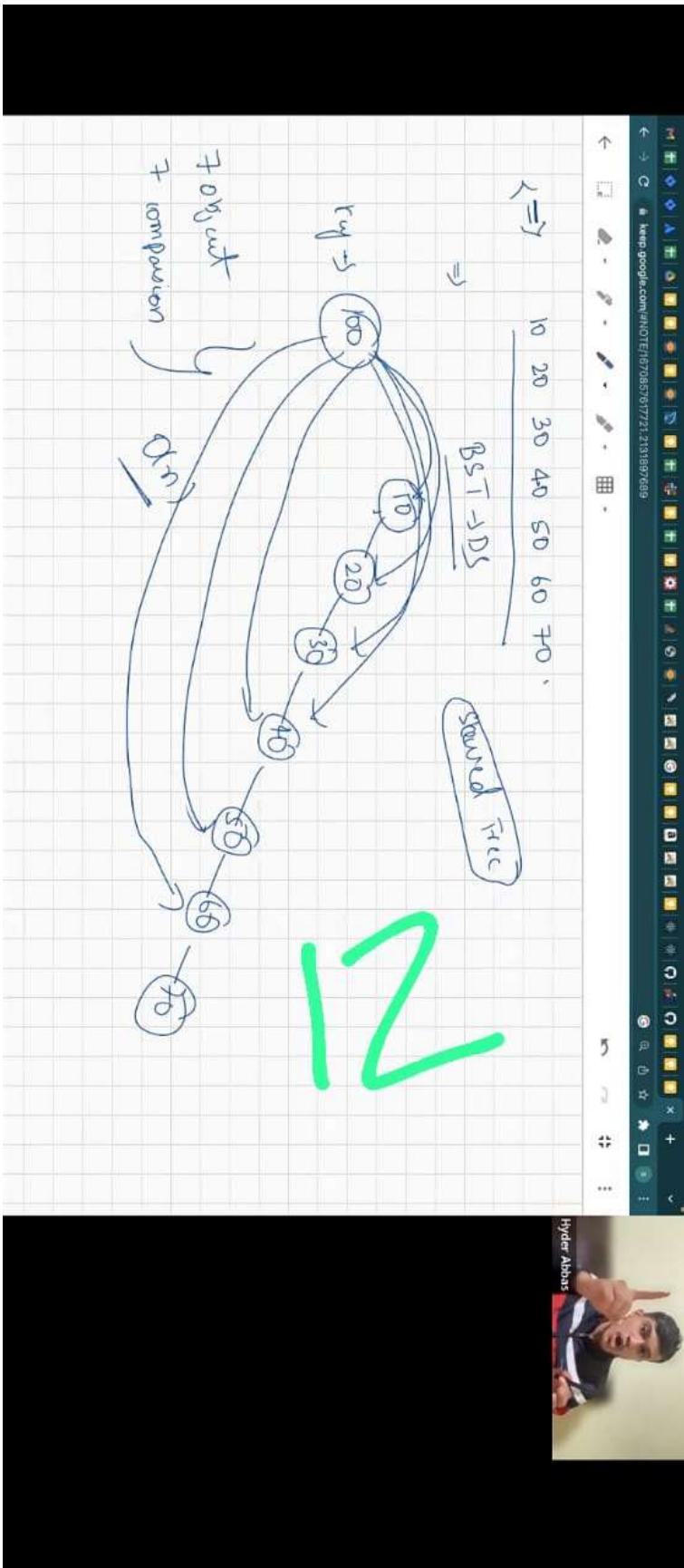
The image shows a Java code snippet demonstrating the use of a TreeSet. The code creates a TreeSet, adds elements (100, 50, 150, 25, 75, 125, 175), and then prints the set. The output is [25, 50, 75, 100, 125, 150, 175]. A large green hand-drawn question mark is overlaid on the left side of the slide.

— O



Hyder Abbas







```
TreeSet ts=new TreeSet();
ts.add(100);
ts.add(50);
ts.add(150);
ts.add(25);
ts.add(75);
ts.add(125);
ts.add(175);
System.out.println(ts);

```

The screenshot shows a Java code editor with the following code:

```
TreeSet ts=new TreeSet();
ts.add(100);
ts.add(50);
ts.add(150);
ts.add(25);
ts.add(75);
ts.add(125);
ts.add(175);
System.out.println(ts);
```

A tooltip for the `add` method is displayed, providing information about its behavior and parameters. The tooltip text is as follows:

Adds the specified element to this set if it is not already present. More formally, adds the specified element to this set unless this set already contains the element. More formally, adds the specified element to this set if and only if this set does not already contain the element. If this set does not already contain the element, it is added to the set, and `true` is returned; otherwise, `false` is returned. This operation is `O(n)` where `n` is the number of elements in this set at the time the operation is performed.

The tooltip also includes a note about overriding the method in subclasses:

Specified by: `add` in interface `Collection`

Overrides: `Object#add`

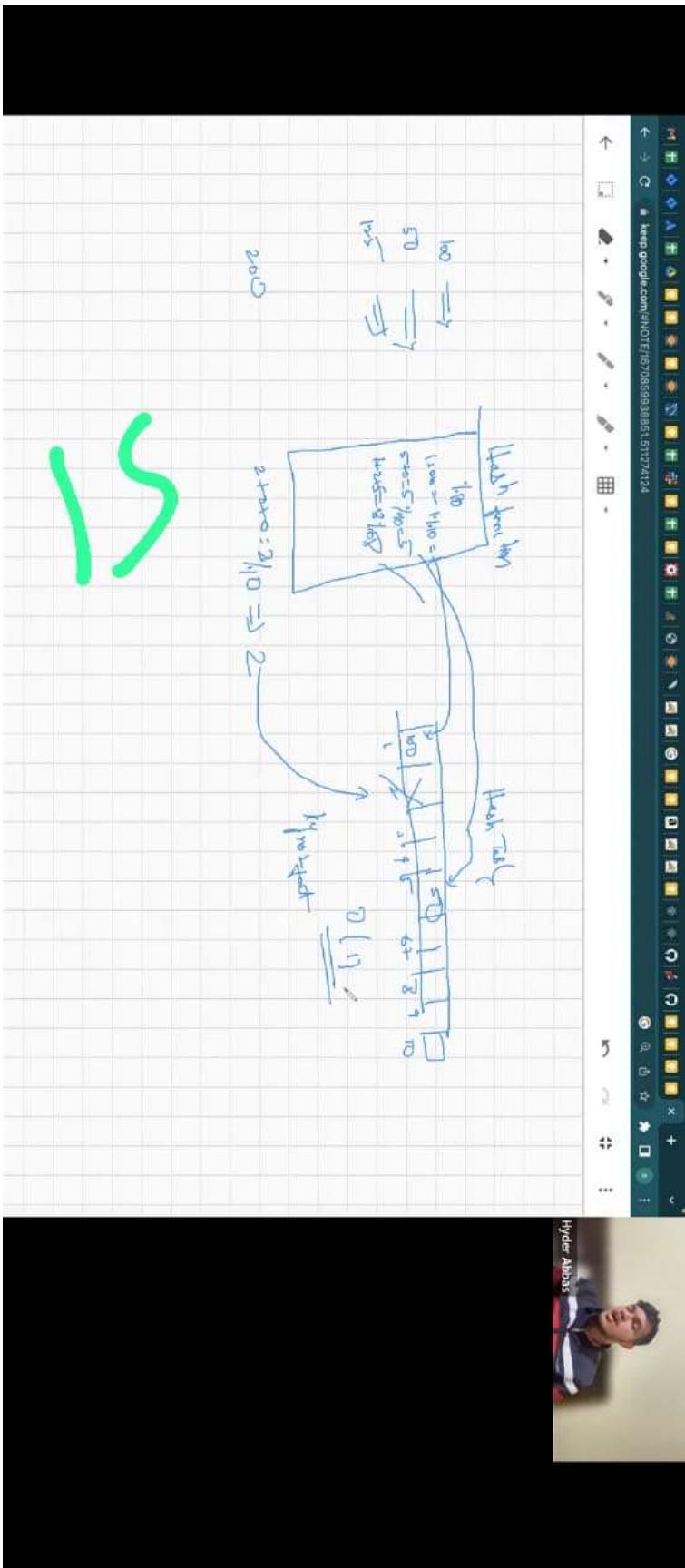
Parameters: `o` - the object to be added to this set.

Returns: `true` if this set did not already contain the specified element; `false` otherwise.

Throws: `ClassCastException` - if the specified element does not implement the `Comparable` interface.

The Java code editor interface is visible, showing the code structure and various Java libraries and packages listed in the sidebar.

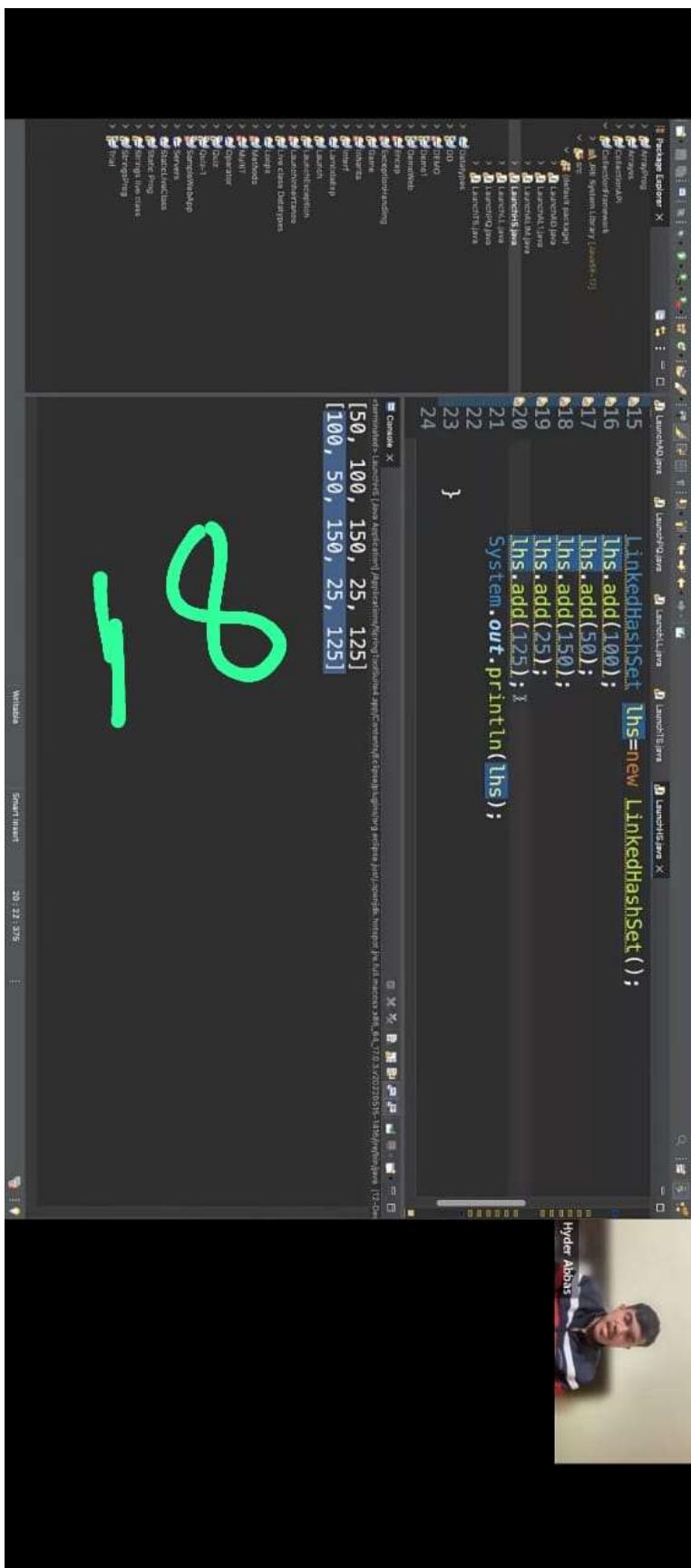
14



The screenshot shows a Java code editor with a video player overlay. The video player displays a man named Hyde Abbas, and the progress bar is at 0:12 of 160 seconds.

```
1 import java.util.*;
2 public class LaunchHHS {
3     4     public static void main(String[] args) {
4.         // TODO Auto-generated method stub
5             HashSet hs = new HashSet();
6             7             }
7             8             }
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998            999            }
999            1000            }
```





```
1 package Explore;
2
3 import java.util.ArrayList;
4
5 public class LaunchImp {
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8         ArrayList al=new ArrayList();
9         al.add(10); // al.add(new Integer(10));
10        al.add(10.5); // al.add(new Double(10.5));
11        al.add('c');//al.add(new Character('c'));
12        al.add(10.5f); // auto boxing
13
14        ArrayList al2=new ArrayList();
15        al2.add(10);
16        al2.add(20);
17        al2.add(30);
18        al2.add(40);
19        al2.add(50);
20        System.out.println(al2);
21
22    }
23
24
25
26 }
```



```
1 package Explorer;
2
3 import java.util.*;
4
5 public class ArrayList {
6     public static void main(String[] args) {
7         ArrayList<Object> al = new ArrayList<Object>();
8
9         al.add(10.5); // al.add(new Double(10.5));
10        al.add('c');//al.add(new Character('c'));
11        al.add(10.5f); // auto boxing
12
13        //System.out.println(al);
14
15        ArrayList al2=new ArrayList();
16        al2.add(10);
17        al2.add(20);
18        al2.add(30);
19        al2.add(40);
20        System.out.println(al2); //
21        //diff. ways to access data present within collection
22        //loop normal
23        System.out.println(al2.size());
24        for(int i=0;i<al2.size();i++)
25        {
26            Object o=al2.get(i);
27            System.out.println(o);
28        }
29    }
30 }
31
32
33
34
35 }
```

Writable Smart Input 25 | 10 | 694

```
1 package Explore;
2
3 import java.util.*;
4
5 public class ArrayListExample {
6     public static void main(String[] args) {
7         // Create an empty ArrayList
8         ArrayList<Integer> al1 = new ArrayList<Integer>();
9
10        // Add elements to the ArrayList
11        al1.add(10);
12        al1.add(20);
13        al1.add(30);
14        al1.add(40);
15        al1.add(50);
16
17        // Print the size of the ArrayList
18        System.out.println(al1.size());
19
20        // Print all elements of the ArrayList
21        System.out.println(al1);
22
23        // Loop through the ArrayList
24        for(int i=0;i<al1.size();i++) {
25            Object o=al1.get(i);
26            System.out.println(o);
27        }
28
29        // Print the size of the ArrayList again
30        System.out.println(al1.size());
31
32        // for each
33        // we can do
34        for(Object obj:al1) {
35            System.out.println(obj);
36        }
37
38    }
39
40 }
41
```

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```
34
35     {
36         System.out.print(obj+ " ");
37     }
38 // iterator
39
40     Iterator itr1=al2.iterator();
41     // 
42     if(itr1.hasNext()==true)
43     {
44         // 
45         itr1.next();
46     }
47     while(itr1.hasNext())
48     {
49         Integer i=(Integer)itr1.next();
50         //Object o=itr1.next();
51         System.out.println(itr1.next());
52     }
53 }
54
55
56
57
58
59
60 }
```

22



```
1 LaunchDDMS 2 LaunchDPM 3 LaunchLWP 4 LaunchTSPipe 5 LaunchHSPipe 6 LaunchHSJava X
37
38 System.out.println("*****");
39 // iterator
40
41 Iterator itr1=al2.iterator();
42 //
43 if(itr1.hasNext())
44 {
45   //
46   //
47   itr1.next();
48   while(itr1.hasNext())
49   {
50     Integer i=(Integer)itr1.next();
51     //Object o=itr1.next();
52     System.out.println(itr1.next());
53   }
54 }
55 System.out.println("reverse");
56
57 ListIterator litr = al2.listIterator(al2.size());
58 while(litr.hasPrevious())
59 {
60   System.out.println(litr.previous());
61 }
62
63
```

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13 s

23

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```
54 //Object o=itr1.next();
55 System.out.println(itr1.next());
56
57 System.out.println("reverse");
58 {
59     ListIterator litr = al2.listIterator(al2.size());
60     while(litr.hasPrevious())
61     {
62         System.out.println(litr.previous());
63     }
64
65
66 // what if I want to reverse or access data of other classes in reverse dir?
67
68 TreeSet ad=new TreeSet();
69 ad.add(10);
70 ad.add(20);
71 ad.add(30);
72 ad.add(40);
73 ad.add(50);
74 Iterator it=ad.iterator();
75
76 while(it.hasNext() == true)
77 {
78     Integer i=(Integer) it.next();
79     System.out.println("Array De" + i);
80 }
```

24

```
66 // what if I want to reverse or access data of other classes in reverse dir?
67
68
69 TreeSet ad=new TreeSet();
70 ad.add(10);
71 ad.add(20);
72 ad.add(30);
73 ad.add(40);
74 Iterator it=ad.iterator();
75
76 while(it.hasNext() == true)
77 {
78     Integer i=(Integer) it.next();
79     System.out.println("Array De" + i);
80 }
81
82 System.out.println("added linked list");
83 LinkedList ll=new LinkedList();
84 ll.addAll(ad);
85 System.out.println(ll);
86
87 ListIterator litr2=ll.listIterator(ll.size());
88 System.out.println("Accessing treeSet data in reverse");
89 while(litr2.hasPrevious())
90     System.out.println(litr2.previous());
91
92 System.out.println(litr2.previous());
```

Handwritten notes:

- A handwritten diagram shows a linked list structure with four nodes. The nodes are labeled 10, 20, 30, and 40. The list is represented as 10 → 20 → 30 → 40. A blue arrow points from the handwritten code to this diagram.
- A large green 'ns' is written vertically on the left side of the screen.

