

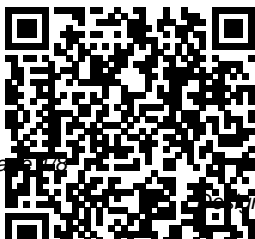
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For looking up a given entry in a given ordered list, both the binary and the linear search algorithm (which ignores ordering) can be used. The analysis of the former and the latter algorithm shows that it takes at most  $\log_2(n)$  and  $n$  check steps, respectively, for a list of length  $n$ . In the depicted example list of length 33, searching for "Morin, Arthur" takes 5 and 28 steps with binary ...

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Question 1  
Explain the differences

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between  
java.util.Vector  
and  
java.util.ArrayList.  
2 Explain the  
differences  
between  
java.util.ArrayList  
and java.util.Link  
edList. 3 Explain  
the differences  
between  
java.util.TreeMap  
and  
java.util.TreeSet. 4  
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differences  
between java.util  
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explores O, ,  
and notations,  
algorithm design

and correctness,  
and basic graph  
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Algorithm is the best way to represent a solution to a problem. -

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