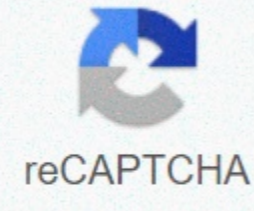




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## Bjp4 self check answers

Statement. We use basic cookies to perform basic functions of the website, e.g. they are used to connect you. Learn more We always actively use analytics cookies to understand how you use our websites so we can improve them, e.g. they are used to collect information about the pages you visit and how many clicks you need to complete a task. Learn more You can perform a sequential search over the table using a loop, or you can sort the table by using Arrays.sort, and then perform a binary search over it using Arrays.binarySearch. Closest value to the number of items that the binary search algorithm will need to examine in a one million integer table: e. less than 1% (10,000 or less) A sequential search should be used in a Table of Point objects because they do not implement comparable. Arrays.binarySearch and Collections.binarySearch can be used successfully if the table or collection contains items that are sorted according to either their physical order or a comparing order. Collections.sort in a list of strings would arrange them in alphabetical order, case sensitive. To change the order, you could pass a Comparative that defines a different order. Collections.sort will not work on a list of point objects by default because they do not implement the comparable interface. To make it you could pass a Comparator that sets an order for points. The Calculator account shown has a few errors: line 2: You need to apply Comparator and not just Comparator. line 3: The method should be called comparison, not comparison. You should also accept two BankAccount parameters, not just one. lines 5,7: The code must refer to the two parameters passed, not this one. line 7: You cannot return the removal of two duplicates from a comparison method. The result must be int type, and must still work even if the accounts differ by only a few minutes. Here is a corrected version of the code: import java.util.\*? public class AccountComparator extends Comparator<BankAccount> { public int compare(BankAccount a, BankAccount b) { if (!a.getName().equals(b.getName())) { return a.getName().compareTo(b.getName()); } else if (a.getBalance() > b.getBalance()) { return -1; } else if (a.getBalance() < b.getBalance()) { return 1; } else { return 0; } } } We could easily reverse the order of our LengthComparator using the built-in Collections.reverseOrder method, which accepts a Comparator and returns a new one in the opposite order to the one that passed through. complexity of these algorithms in terms of complexity classes N:O(N) O(N^2) O(N log B) O(N^3) O(N) O(N) of the specific declarations: O(N log N) O(N^2) O(N^2 log N) O(N) O(1) O(N) O(N!) Binary search requires a sorted data set because it uses the order to switch to the next index. If the items are down, the search is not guaranteed to find the target item. A binary search of 60 items looks at a top of 6 items because log2 60 (when rounded up) equals 6. The algorithm will examine indexes 4, 6 and 5 and return -1. The algorithm does not work correctly because the input panel is not sorted. The binary search algorithm will examine the following indexes and return the following values for each search: 42: examine 7, 11, 9. returns 9 11: examines 7, 3, 4; returns -5 74: examines 7, 11, 13, 14; returns 14 30: examines 7, 3, 5, 6; returns -8 The binary search algorithm will examine the following indexes and return the following values for each search: -5: examines the 6, 2, 4, 3. returns -4 0: examines 6; returns 6 11: examines 6, 10, 8, 9; returns -10 -100: examines 6, 2, 0; returns -1 The configuration table type must be changed to a duplicate. You will also need a new toggle method that accepts a double [] as the first parameter. Here is the new code: public static selection blankSort(double[] a) { for (int i = 0; i < a.length - 1; i++) { // find index of smallest int element less = i; for (int j = i + 1; j < a.length; j++) { if (a[j] < a[i]) { swap(a, i, j); } } swap(a, i, smallest); // swap smallest to front } } After a single pass of the selection sort algorithm (one rotation only), the status of the table is: d. [-4, 17, 3, 94, 46, 8, 29, 12] All steps of the sorting algorithm: [2] 9, 17, 3, 94, 46, 8, -4, 12 [-4, 17, 3, 94, 46, 8, 29, 12] [-4, 3, 8, 94, 46, 8, 29, 12] [-4, 3, 8, 94, 46, 17, 29, 12] [-4, 3, 8, 12, 46, 17, 29, 2, 94] [-4, 3, 8, 12, 17, 29, 46, 94] [33, 14, 3, 95, 47, 9, -42, 13] [-42, 14, 95, 47, 9, 33, 13] [-42, 3, 14, 95, 47, 9, 33, 13] [-42, 3, 9, 95, 47, 14, 33, 13] [-42, 3, 9, 13, 47, 14, 33, 95] [-42, 3, 9, 13, 14, 47, 33, 95] [-42, 3, 9, 13, 14, 33, 47, 95] [7, 1, 6, 12, -3, 8, 4, 21, 2, 30, -1, 9] [-3, 1, 6, 12, 7, 8, 4, 21, 2, 30, -1, 9] [-3, -1, 6, 12, 7, 8, 4, 21, 2, 30, 1, 9] [-3, -1, 1, 12, 12, 8, 4, 21, 2, 30, 6, 9] [-3, -1, 1, 2, 7, 8, 4, 21, 12, 30, 6, 9] [-3, -1, 1, 2, 4, 6, 7, 21, 12, 30, 8, 9] [-3, -1, 1, 2, 4, 6, 7, 21, 12, 30, 8, 9] [-3, -1, 1, 2, 4, 6, 7, 8, 12, 30, 21, 9] [-3, -1, 1, 2, 4, 6, 7, 8, 9, 30, 21, 12] [-3, -1, 1, 2, 4, 6, 7, 8, 9, 12, 21, 30] [6, 7, 4, 8, 11, 1, 10, 3, 5, 9] [1, 7, 4, 8, 11, 6, 10, 3, 5, 9] [1, 3, 4, 8, 11, 6, 10, 7, 5, 9] [1, 3, 4, 5, 11, 6, 10, 7, 9] [1, 3, 4, 5, 6, 11, 10, 7, 8, 9] [1, 3, 4, 5, 6, 7, 10, 11, 8, 9] [1, 3, 4, 5, 6, 7, 8, 9, 10, 11] A type of 32-item merger would create a total of 63 calls to merge The Sort and will perform the merge operation 31 times. Status of data after five passages of the outermost loop of the type of selection have occurred: [1, 2, 3, 4, 5, 11, 9, 7, 8, 10] Trace of the merge sorting algorithm: [7, 2, 8, 4, 1, 11, 9, 5, 3, 10] [7, 2, 8, 4, 1], [11, 9, 5, 3, 10] [7, 2], [8, 4, 1], [11, 9], [5, 3, 10] [7] [7], [2], [8], [4, 1], [11], [9], [5], [3, 10] [4], [1], [3], [10] [8], [1, 4], [5], [3, 10] [2, 7], [1, 4, 8], [9], [11], [3, 5, 10] [1, 2, 4, 7, 8], [3, 5, 9, 10, 11] [1, 2, 3, 4, 5, 7, 8, 9, 10, 11] Status of data after five passes of the outermost selection loop of the species: [-3, -1, 1, 2, 4, 8, 7, 21, 12, 30, 6, 9] Merge Sort algorithm trace: [7, 1, 6, 12, -3, 8, 4, 21, 2, 30, -1, 9] [7, 1, 6, 12, 12, -3, 8], [4, 21, 2, 30, -1, 9] [7, 1, 6], [12, -3, 8], [4, 21, 2], [30, -1, 9] [7], [1, 6], [-3, 8], [4], [4], [21], [12], [-3, 8], [4], [4], [21], 1, 2], [30], [-1, 9] [1], [6], [-3], [8], [21], [2], [-1], [9] [7], [1, 6], [12], [-3, 8], [4], [2, 21], [30], [-1, 9] [1, 6, 7], [-3, 8, 12], [2, 4, 21], [-1, 9, 30] [-3, 1, 6, 7, 8, 12], [-1, 2, 4, 9, 21, 30] [-3, -1, 1, 2, 4, 6, 7, 8, 9, 12, 21, 30] The following statement on sorting and big-Oh is true: b. The merge classification achieves an O(N log N) runtime by dividing the table in half at each step and then sorting and merging the halves back together. Merge Sort Algorithm Traces: [29, 17, 3, 94, 46, 8, -4, 12] [29, 17, 3, 94], [46, 8, -4, 12] [29, 17], [3, 94], [46, 8], [-4, 12], [17], [3], [94], [46], [-4], [12] [17, 29], [3, 94], [8, 46], [-4, 12] [3, 17, 29, 94], [-4, 8, 12, 46] [-4, 3, 8, 12, 17, 29, 46, 94] [6, 5, 3, 7, 1, 8, 4, 2] [6, 5, 3, 7], [1, 8, 4, 2] [6, 5], [3, 7], [1, 8], [4, 2] [6], [5], [3], [7], [1], [8], [4], [2] [5, 6], [3, 7], [1, 8], [2, 4] [3, 5, 6, 7], [1, 2, 4, 8] [1, 2, 3, 4, 5, 6, 7, 8] [33, 14, 3, 95, 47, 9, -42, 13] [33, 14, 3, 95], [47, 9, -42, 13] [33, 14], [3, 95], [47, 9], [-42, 13] [33], [14], [3], [95], [47], [9], [-42], [13] [14, 33], [3, 95], [9, 47], [-42, 13] [14, 33], [3, 3, 95], [9, 47], [-42, 13] [3, 14, 33, 95], 9, 13, 47] [-42, 3, 9, 13, 14, 33, 47, 95] Are online classes better? Students taking part in online courses do the same or better than those Installation. ... And other studies show that students who take courses online score better in standardized exams. Can I get a job with an electronic certificate? Yes, it is possible to get a job using online courses. Online courses are sometimes better than traditional courses and even better when they both work in parallel. In this way, we can deal with different types of field in the same field and we can expand our knowledge to a better extent. Are the scholarships available? The scholarships are offered by a wide range of organisations, companies, citizens' organisations and even small businesses. Some scholarships require students to meet specific criteria, such as a certain grade point average or extracurricular interest. Applications for scholarships should be submitted well before the school enrolment deadline, so students have a better idea of how much of an award, if any, they will receive. 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