

CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

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Started on Friday, 4 October 2024, 7:18 PM
                 State Finished
      Completed on Friday, 4 October 2024, 7:21 PM
          Time taken 3 mins 5 secs
                Marks 1.00/1.00
                Grade 10.00 out of 10.00 (100%)
                        Given an array of N integer, we have to maximize the sum of arr[i] * i, where i is the index of the element (i = 0, 1, 2, ..., N). Write an algorithm based on Greedy technique with a Complexity O(nlogn).
Correct
Mark 1.00 out of 1.00
                        First line specifies the number of elements-n
                        The next n lines contain the array elements.
P Flag question
                        Output Format:
                        Maximum Array Sum to be printed.
                        Sample Input:
                        25340
                        Sample output:
                         40
                         Answer: (penalty regime: 0 %)
                                  // Function to sort array in ascending order (using quicksort or any efficient sorting method)
void sort(int arr[], int n) {
   int i, j, temp;
   for (i = 0; i < n - 1; i++) {
      for (j = i + 1; j < n; j++) {
        if (arr[i]) arr[j]) {
            temp = arr[i];
            arr[i] = arr[j];
            arr[j] - temp;
      }
}</pre>
                                  Input Expected Got
                                 10
                                           191
                                                         191 🗸
                                                         45 🗸
                        Correct
Marks for this submission: 1.00/1.00.
                                                                                          Jump to...
    → 3-G-Burger Problem
                                                                                                                                                                                                               5-G-Product of Array elements-Minimum -
```