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HOME

October 08, 2021

## RADIX SORT USING 2D ARRAY

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```
1.
 2. #include <stdio.h>
 3. #include <conio.h>
 4.
 5. void radix(int array[], int n);
 6. void main()
 7. {
 8.
        int array[100], n, i;
 9.
10.
        printf("What's Your Limit ? ");
11.
        scanf("%d", &n);
12.
        for (i = 0; i < n; i++)
13.
        {
            printf("Enter %d Data ", i + 1);
14.
15.
            scanf("%d", &array[i]);
16.
        }
17.
18.
        radix(&array[0], n);
19.
20.
        printf("Sorted Successfully\n");
21.
        for (i = 0; i < n; i++)
22.
        {
23.
            printf("%d ", array[i]);
24.
        }
25. }
26.
27. void radix(int arr[], int n)
28. {
29.
        int bucket[10][5], buck[10], b[10];
```

```
30.
         int i, j, k, l, num, div, large, pass;
31.
32.
         div = 1;
33.
         num = 0;
34.
         large = arr[0];
35.
36.
        for (i = 0; i < n; i++)</pre>
37.
         {
38.
             if (arr[i] > large)
39.
             {
40.
                  large = arr[i];
41.
             }
42.
43.
             while (large > 0)
44.
             {
45.
                  num++;
46.
                  large = large / 10;
47.
             }
48.
49.
             for (pass = 0; pass < num; pass++)</pre>
50.
             {
51.
                  for (k = 0; k < 10; k++)
52.
                  {
53.
                      buck[k] = 0;
54.
                  }
55.
                  for (i = 0; i < n; i++)</pre>
56.
                  {
57.
                      l = ((arr[i] / div) % 10);
58.
                      bucket[1][buck[1]++] = arr[i];
59.
                  }
60.
61.
                  i = 0;
62.
                 for (k = 0; k < 10; k++)
63.
                  {
64.
                      for (j = 0; j < buck[k]; j++)
65.
                      {
66.
                           arr[i++] = bucket[k][j];
67.
                      }
68.
                  }
69.
                  div *= 10;
70.
             }
71.
         }
72. }
```

What's Your Limit ? 5
Enter 1 Data 30
Enter 2 Data 50
Enter 3 Data 20
Enter 4 Data 10
Enter 5 Data 40
Sorted Successfully
10 20 30 40 50

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Labels: bubble sort in c, Radix Sort, radix sort program in c, write a c program using quick sort

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```
What's your Limit ? 5
Enter 1 Data 10
Enter 2 Data 20
Enter 3 Data 30
Enter 4 Data 40
Enter 5 Data 50
What's your limit? 5
Enter 1 Data 5
Enter 2 Data 15
Enter 3 Data 25
Enter 4 Data 35
Enter 5 Data 45
Sorted successfully
    15 20 25 30 35 40 45 50
```

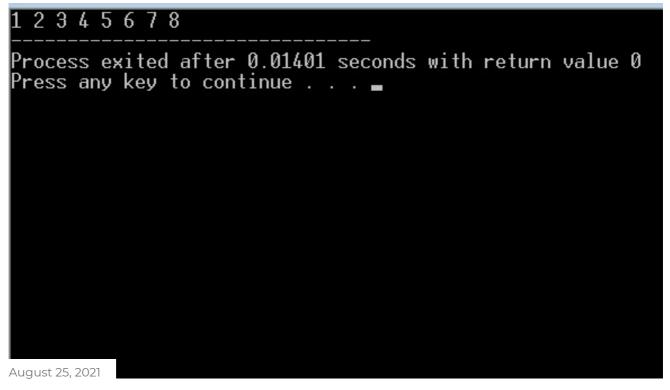
**MERGE SORT** 

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Enter your Limit 5
Enter 1 Data 20
Enter 2 Data 10
Enter 3 Data 40
Enter 4 Data 30
Enter 5 Data 25
Data Shorted Successfully
10 20 25 30 40

## WRITE A C PROGRAM FOR SORTING USING SHELL SORT

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### HOW TO IMPLEMENT MERGE SORT IN C

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What's Your limit ? 5
Enter 1 Data 50
Enter 2 Data 20
Enter 3 Data 60
Enter 4 Data 90
Enter 5 Data 10
Sorted successfully
10 20 50 60 90

WRITE A C PROGRAM USING QUICK SORT(PARTITION EXCHANGE SORT) METHOD

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Shorted array is
-5 15 30 40 50
------Process exited after 0.01619 seconds with return value 0
Press any key to continue . . .

# SELECTION SHORT PROGRAM IN C | SELECTION SHORT ALGORITHM

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