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HOME

October 08, 2021

RADIX SORT USING 2D ARRAY

```
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.    {
14.        printf("Enter %d Data ", i + 1);
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++)
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++)
50.         {
51.             for (k = 0; k < 10; k++)
52.             {
53.                 buck[k] = 0;
54.             }
55.             for (i = 0; i < n; i++)
56.             {
57.                 l = ((arr[i] / div) % 10);
58.                 bucket[l][buck[l]++] = 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. }

```

OUTPUT

```
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
```

```
5 10 15 20 25 30 35 40 45 50
```

October 01, 2021

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 Sorted Successfully
10 20 25 30 40
```

September 21, 2021

WRITE A C PROGRAM FOR SORTING USING SHELL SORT

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```
1 2 3 4 5 6 7 8
-----
Process exited after 0.01401 seconds with return value 0
Press any key to continue . . . █
```

August 25, 2021

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
```

September 24, 2021

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 . . .
```

August 24, 2021

SELECTION SHORT PROGRAM IN C | SELECTION SHORT ALGORITHM

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