←   🔍

CODERS HOME

Learn Html, Learn Css, Learn Java Script, Learn C language, Learn C++ Language, Best Ways To learn Coding At Home, Learn Coding At home, How To learn coding free, learn coing from scrach, Best websites to learn Coding free, Learn Python SQl Ruby Php etc coding languages at Home,

HOME

October 01, 2021
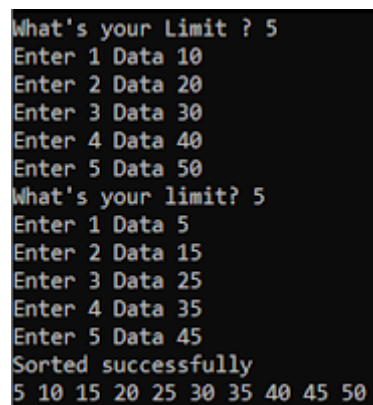
MERGE SORT

—

```c
1.  #include<stdio.h>
2.
3.  void merge(int a[],int b[],int i,int j,int n1,int n2);
4.
5.  int main(){
6.          int a[100],b[100],i,j,n1,n2;
7.          printf("What's your Limit ? ");
8.          scanf("%d",&n1);
9.          for(i=0;i<n1;i++){
10.                 printf("Enter %d Data ",i+1);
11.                 scanf("%d",&a[i]);
12.         }
13.         printf("What's your limit? ");
14.         scanf("%d",&n2);
15.         for(j=0;j<n2;j++){
16.                 printf("Enter %d Data ",j+1);
17.                 scanf("%d",&b[j]);
18.         }
19.
20.
21.         merge(&a[0],&b[0],i,j,n1,n2);
22.
23.
24.         return 0;
25. }
26. void merge(int *a,int *b,int i,int j,int n1,int n2){
27.         int c[100],k;
28.         i=j=k=0;
29.         while(i<n1 && j<n2){
```

```c
30.            if(a[i]<=b[j]){
31.                    c[k]=a[i];
32.                    i+=1;
33.                    k+=1;
34.            }
35.            else{
36.                    c[k]=b[j];
37.                    j+=1;
38.                    k+=1;
39.            }
40.        }
41.        if(i>n1){
42.            while(j<n2){
43.                    c[k]=b[j];
44.                    j+=1;
45.                    k+=1;
46.            }
47.        }
48.        else{
49.            while(i<n1){
50.                    c[k]=a[i];
51.                    i+=1;
52.                    k+=1;
53.            }
54.        }
55.        printf("Sorted successfully \n");
56.        for(k=0;k<n1+n2;k++){
57.                printf("%d ",c[k]);
58.        }
59. }
```

OUTPUT

Share

Labels: merge sort, sorting methods

COMMENTS

Enter your comment...

POPULAR POSTS

```
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
```

September 21, 2021

WRITE A C PROGRAM FOR SORTING USING SHELL SORT

Share   Post a Comment

```
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

Share   Post a Comment

```
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

Share   Post a Comment