



CODERS HOME

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HOME

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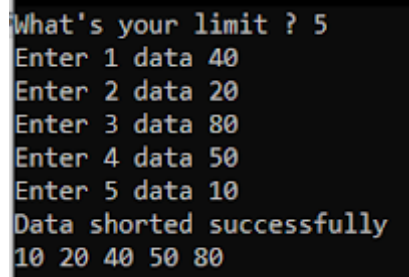
WRITE A C PROGRAM FOR SORTING USING STRAIGHT SELECTION SORT

—

```
1. #include<stdio.h>
2.
3. void selection(int a[],int n);
4.
5. int main(){
6.     int a[100],i,n;
7.
8.     printf("What's your limit ? ");
9.     scanf("%d",&n);
10.    for(i=1;i<=n;i++){
11.        printf("Enter %d data ",i);
12.        scanf("%d",&a[i]);
13.    }
14.    selection(a,n);
15.    printf("Data sorted successfully\n");
16.    for(i=1;i<=n;i++){
17.        printf("%d ",a[i]);
18.    }
19.    return 0;
20. }
21.
22. void selection(int a[],int n){
23.     int i,pass,min,temp;
24.
25.     for(pass=1;pass<=n-1;pass++){
26.         min=pass;
27.         for(i=pass+1;i<=n;i++){
28.             if(a[i]<a[min]){
```

```
29.         min=i;
30.     }
31.     if(pass!=min){
32.         temp=a[pass];
33.         a[pass]=a[min];
34.         a[min]=temp;
35.     }
36. }
37. }
38. }
```

OUTPUT

A screenshot of a terminal window showing the output of a C program. The text is as follows:
What's your limit ? 5
Enter 1 data 40
Enter 2 data 20
Enter 3 data 80
Enter 4 data 50
Enter 5 data 10
Data sorted successfully
10 20 40 50 80

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