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| --- |
| #include <stdio.h> |
|  | void selection(int arr[], int n) |
|  | { |
|  | int i, j, small; |
|  | for (i = 0; i < n-1; i++) // One by one move boundary of unsorted subarray |
|  | { |
|  | small = i; //minimum element in unsorted array |
|  | for (j = i+1; j < n; j++) |
|  | if (arr[j] < arr[small]) |
|  | small = j; |
|  | // Swap the minimum element with the first element |
|  | int temp = arr[small]; |
|  | arr[small] = arr[i]; |
|  | arr[i] = temp; |
|  | } |
|  | } |
|  | void printArr(int a[], int n) /\* function to print the array \*/ |
|  | { |
|  | int i; |
|  | for (i = 0; i < n; i++) |
|  | printf("%d ", a[i]); |
|  | } |
|  | int main() |
|  | { |
|  | int a[] = { 12, 31, 25, 8, 32, 17 }; |
|  | int n = sizeof(a) / sizeof(a[0]); |
|  | printf("Before sorting array elements are - \n"); |
|  | printArr(a, n); |
|  | selection(a, n); |
|  | printf("\nAfter sorting array elements are - \n"); |
|  | printArr(a, n); |
|  | return 0; |
|  | } |