|  |
| --- |
| #include <stdio.h> |
|  | #include <sys/types.h> |
|  | #include <unistd.h> |
|  | #include <string.h> |
|  | #define MAX 20 |
|  | int a[100]; |
|  |  |
|  | void quick(int low, int high) |
|  | { |
|  | int i, j, pivot, temp; |
|  | if (low < high) |
|  | { |
|  | pivot = low; |
|  | i = low; |
|  | j = high; |
|  | while (i < j) |
|  | { |
|  | while (a[i] <= a[pivot] && i < high) |
|  | { |
|  | i++; |
|  | } |
|  | while (a[j] > a[pivot]) |
|  | { |
|  | j--; |
|  | } |
|  | if (i < j) |
|  | { |
|  | temp = a[i]; |
|  | a[i] = a[j]; |
|  | a[j] = temp; |
|  | } |
|  | } |
|  | temp = a[pivot]; |
|  | a[pivot] = a[j]; |
|  | a[j] = temp; |
|  | quick(low, j - 1); |
|  | quick(j + 1, high); |
|  | } |
|  | } |
|  |  |
|  | int main() |
|  | { |
|  | int i, n, ele, pid; |
|  | char \*str\_arr[MAX]; |
|  | char str[5]; |
|  |  |
|  | // get input from user... |
|  | printf("Enter size of Elements: "); |
|  | scanf("%d", &n); |
|  | printf("Enter %d Elements: ", n); |
|  | for (i = 0; i < n; i++) |
|  | { |
|  | scanf("%d", &a[i]); |
|  | } |
|  | // Create Process... |
|  | pid = fork(); |
|  | if (pid < 0) |
|  | { |
|  | printf("Error while creating new process...!!!!"); |
|  | } |
|  | else if (pid > 0) |
|  | { |
|  | quick(0, n); |
|  | printf("\nAfter sorting:\t"); |
|  | for (i = 1; i <= n; i++) |
|  | { |
|  | printf("%d ", a[i]); |
|  | } |
|  | printf("\n"); |
|  | for (i = 0; i < MAX; i++) |
|  | { |
|  | str\_arr[i] = NULL; |
|  | } |
|  | // Convert integer array to string for Passing... |
|  | for (i = 1; i <= n; i++) |
|  | { |
|  | sprintf(str, "%d", a[i]); |
|  | str\_arr[i - 1] = strdup(str); |
|  | } |
|  | // Call to execve... |
|  | execve("./reverse", str\_arr, NULL); |
|  | printf("EXECVE not called!"); |
|  | } |
|  | } |