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Problem:7
Sort the array of 0s,1s ans 2s.
Code:
#include <stdio.h>
void sort012(int arr[], int n) {
int low = 0, mid = 0, high = n - 1;
while (mid <= high) {
if (arr[mid] == 0) {
 arr[low++] = arr[mid];
arr[mid++] = 0; // Moving mid pointer forward
}
else if (arr[mid] == 1) {
mid++; // If it's 1, just move the mid pointer
}
else {
arr[mid] = arr[high];
arr[high--] = 2; // Moving high pointer backward
}
}
}
int main() {
int n;
printf("Enter the number of elements (0s, 1s, and 2s): ");
scanf("%d", &n);
int arr[n];
printf("Enter %d elements (only 0s, 1s, and 2s):\n", n);
for (int i = 0; i < n; i++) {
scanf("%d", &arr[i]);
}
sort012(arr, n);
printf("Sorted array: ");
for (int i = 0; i < n; i++)
printf("%d ", arr[i]);
printf("\n");
return 0;
}
```