```
#include <stdio.h>
int main() {
  int n;
  printf("Enter the number of elements in the array: ");
  scanf("%d", &n);
  int arr[n];
  printf("Enter the elements of the array (0s, 1s, and 2s): ");
  for (int i = 0; i < n; i++) {
    scanf("%d", &arr[i]);
  }
  int low = 0, mid = 0, high = n - 1;
  while (mid <= high) {
    if (arr[mid] == 0) {
      int temp = arr[low];
      arr[low] = arr[mid];
      arr[mid] = temp;
      low++;
       mid++;
```

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} else if (arr[mid] == 1) {
    mid++;
  } else {
    int temp = arr[mid];
    arr[mid] = arr[high];
    arr[high] = temp;
    high--;
 }
}
printf("Sorted array: ");
for (int i = 0; i < n; i++) {
  printf("%d ", arr[i]);
}
printf("\n");
return 0;
```

}