```
#include <stdio.h>
#include <stdlib.h>
void seperateOand1(int arr[], int size)
       int leftIndex = 0, rightIndex = size-1;
       while( leftIndex < rightIndex)</pre>
               while((arr[leftIndex] == 0) && (leftIndex < rightIndex))
                       leftIndex++;
               while((arr[rightIndex] == 1) && (rightIndex > leftIndex))
                       rightIndex--;
               if(leftIndex < rightIndex)</pre>
               {
                       arr[leftIndex++] = 0;
                       arr[rightIndex--] = 1;
               }
       }
}
void printArray(int arr[], int size)
       for(int index = 0; index < size; index++)
               printf("%d\t", arr[index]);
}
int main()
       int *arr, size;
       printf("Enter size of the array\n");
       scanf("%d", &size);
       printf("Enter elements in array\n");
       for(int index = 0; index < size; index++)
               scanf("%d", &arr[index]);
       seperateOand1(arr, size);
       printArray(arr, size);
       return 0;
}
Time complexity: O(n)
Space Complexity: O(1)
```