Move all negative numbers to beginning and positive to end with constant extra space

```
#include <stdio.h>

void rearrange(int arr[], int n) {
    int temp[n], j = 0; // Temp array to store rearranged elements and index for negatives

    // First loop: Add all negative numbers to the temp array
    for (int i = 0; i < n; i++)
        if (arr[i] < 0) temp[j++] = arr[i];

    // Second loop: Add all positive numbers to the temp array
    for (int i = 0; i < n; i++)
        if (arr[i] >= 0) temp[j++] = arr[i];

    // Copy rearranged elements back to the original array
    for (int i = 0; i < n; i++)
        arr[i] = temp[i];
}

int main() {
    int n;

    printf("Enter the number of elements: ");
    scanf("%d", &n);

    int arr[n];
    printf("Enter %d elements:\n", n);
```

```
    for (int i = 0; i < n; i++)
        scanf("%d", &arr[i]);

    rearrange(arr, n); // rearranging function

    printf("Rearranged array: ");
    for (int i = 0; i < n; i++)
        printf("%d ", arr[i]);

    printf("\n");
    return 0; /
}
```