

Problem 8: Move All the Negative Elements to One Side of the Array

Code:

```
#include <stdio.h>

int main() {
    int n;

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

    int arr[100];

    printf("Enter the elements of the array:\n");
    for(int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    int result[100];
    int index = 0;
    for(int i = 0; i < n; i++) {
        if(arr[i] < 0) {
            result[index++] = arr[i];
        }
    }

    for(int i = 0; i < n; i++) {
        if(arr[i] >= 0) {
            result[index++] = arr[i];
        }
    }

    for(int i = 0; i < n; i++) {
```

```
    arr[i] = result[i];  
}  
    printf("Array after moving negative elements:\n");  
    for(int i = 0; i < n; i++) {  
        printf("%d ", arr[i]);  
    }  
  
    return 0;  
}
```