

Problem:8

An array contains both positive and negative numbers in random order. Rearrange the array elements so that all negative numbers appear before all positive numbers.

Ans:

Code:

```
#include <stdio.h>

void rearrange(int arr[], int n) {
    int temp[n], j = 0;
    for (int i = 0; i < n; i++) {
        if (arr[i] < 0) {
            temp[j++] = arr[i];
        }
    }
    for (int i = 0; i < n; i++) {
        if (arr[i] >= 0) {
            temp[j++] = arr[i];
        }
    }
    for (int i = 0; i < n; i++) {
        arr[i] = temp[i];
    }
}

int main() {
    int arr[] = {-12, 11, -13, -5, 6, -7, 5, -3, -6};
    int n = sizeof(arr) / sizeof(arr[0]);
    rearrange(arr, n);
    for (int i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }
    return 0;
}
```