```c
#include <stdio.h>

int main() {
    int i, j, n, arr[10000];
    int temp = 0;
    printf("Enter the size of array: ");
    scanf("%d", &n);
    printf("Enter the elements of array: ");
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Duplicate elements are:\n");
    for (i = 0; i < n; i++) {
        int flag = 0;
        for (j = 0; j < i; j++) {
            if (arr[i] == arr[j]) {
                flag = 1;
                break;
            }
        }
        if (!flag) {
            for (j = i + 1; j < n; j++) {
                if (arr[i] == arr[j]) {
                    printf("%d ", arr[i]);
                    break;
                }
            }
        }
    }
    printf("\n");
    return 0;
}
```