

## Majority Element

```
#include <stdio.h>

int main()
{
    int n;

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

    int arr[n];

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

    int candidate = arr[0], count = 1;
    for (int i = 1; i < n; i++) {
        if (arr[i] == candidate) {
            count++;
        } else {
            count--;
            if (count == 0) {
                candidate = arr[i];
                count = 1;
            }
        }
    }

    count = 0;
    for (int i = 0; i < n; i++) {
        if (arr[i] == candidate) {
```

```
        count++;
    }
}
if (count > n / 2) {
    printf("Majority element: %d\n", candidate);
} else {
    printf("Majority element: -1\n");
}
return 0;
}
```