

### **Problem 3: Write a Program to Cyclically Rotate an Array by One**

#### **Code:**

```
#include <stdio.h>

int main() {
    int n, i, last;

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

    int arr[n];

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

    last = arr[n-1];
    for(i = n-1; i > 0; i--) {
        arr[i] = arr[i-1];
    }

    arr[0] = last;

    printf("Array after cyclic rotation by one:\n");
    for(i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }

    return 0;
}
```