

Prob.3. Given an array, the task is to cyclically rotate the array clockwise by one time

Solve:

```
#include <stdio.h>
```

```
void rotateByOne(int arr[], int n) {
```

```
    int last = arr[n - 1]
```

```
    for (int i = n - 1; i > 0; i--) {
```

```
        arr[i] = arr[i - 1];
```

```
    }
```

```
    arr[0] = last;
```

```
}
```

```
int main() {
```

```
    int arr[] = {1, 2, 3, 4, 5};
```

```
    int n = sizeof(arr) / sizeof(arr[0]);
```

```
    printf("Original array: \n");
```

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

```
        printf("%d ", arr[i]);
```

```
    }
```

```
    rotateByOne(arr, n);
```

```
    printf("\nArray after cyclically rotating by one: \n");
```

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

```
        printf("%d ", arr[i]);
```

```
    }
```

```
    return 0;
```

```
}
```