```
/*
A4. rotate array every kth element
1 2 3 4 5 6 7 8 9
k= 3
3 2 1 6 5 4 9 8 7
*/



#include <stdio.h>
void revSeg(int arr[], int start, int end)
{
   while (start < end)
   {
      int temp = arr[start];
      arr[start] = arr[end];
      arr[end] = temp;
      start++;
      end--;
   }
}

void rotateArray(int arr[], int n, int k)
{
   for (int i = 0; i < n; i += k)
   {
     int end;
```

```
        if (i + k - 1 < n)
        {
            end = i + k - 1;
        }
        else
        {
            end = n - 1;
        }

        revSeg(arr, i, end);
    }
}

void printArray(int arr[], int n)
{
    for (int i = 0; i < n; i++)
    {
        printf("%d ", arr[i]);
    }
    printf("\n");
}

int main()
{
    int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9};
    int n = sizeof(arr) / sizeof(arr[0]);
    int k = 3;
```

```
    printf("Original array is: ");
    printArray(arr, n);

    rotateArray(arr, n, k);

    printf("Rotated array is: ");
    printArray(arr, n);

    return 0;
}
```