// Java program to rotate an array by

// d elements

class RotateArray {

/Function to left rotate arr[] of siz n by d/

void leftRotate(int arr[], int d, int n)

{

/\* To handle if d >= n \*/

d = d % n;

int i, j, k, temp;

int g\_c\_d = gcd(d, n);

for (i = 0; i < g\_c\_d; i++) {

/\* move i-th values of blocks \*/

temp = arr[i];

j = i;

while (true) {

k = j + d;

if (k >= n)

k = k - n;

if (k == i)

break;

arr[j] = arr[k];

j = k;

}

arr[j] = temp;

}

}

/UTILITY FUNCTIONS/

/\* function to print an array \*/

void printArray(int arr[], int size)

{

int i;

for (i = 0; i < size; i++)

System.out.print(arr[i] + " ");

}

/Function to get gcd of a and b/

int gcd(int a, int b)

{

if (b == 0)

return a;

else

return gcd(b, a % b);

}

// Driver program to test above functions

public static void main(String[] args)

{

RotateArray rotate = new RotateArray();

int arr[] = { 1, 2, 3, 4, 5, 6, 7 };

rotate.leftRotate(arr, 2, 7);

rotate.printArray(arr, 7);

}

}