

# Principal Global Test Questions

## Question 1: String Transformation with Vowel Mapping

### Problem Statement

You are given a string **s** consisting of lowercase English alphabets. You need to transform the string by identifying the pattern:  
Return the final transformed string.

### Example 1

Input:  
s = "apple"

Output:  
1ppl5

### Example 2

Input:  
s = "Umbrella"

Output:  
21mbr5ll1

## Question 2: Reverse Array in Groups of K

### Problem Statement

You are given an array of integers **arr[]** and an integer **k**. You need to reverse the array in groups of **k** elements.

- For every group of **k** elements, reverse them.
- If the last group contains fewer than **k** elements, reverse all of them as well.

Return the final modified array.

### Example 1

Input:  
arr = [1, 2, 3, 4, 5, 6, 7, 8] , k = 3

Process:  
Group 1: [1, 2, 3] → [3, 2, 1]  
Group 2: [4, 5, 6] → [6, 5, 4]  
Group 3: [7, 8] → [8, 7] (less than k, still reversed)

Output:  
[3, 2, 1, 6, 5, 4, 8, 7]

### Example 2

Input:  
arr = [10, 20, 30, 40, 50, 60], k = 2

Process:  
Group 1: [10, 20] → [20, 10]  
Group 2: [30, 40] → [40, 30]  
Group 3: [50, 60] → [60, 50]

Output:

[20, 10, 40, 30, 60, 50]