

## Lab3

### 1) Remove duplicates (with Set Object then without Set)

Input: [1, 2, 2, 3, 4, 4, 5]

Output: [1, 2, 3, 4, 5]

### 2) Reverse each word

Input: ["apple", "banana", "mango"]

Output: ["elppa", "ananab", "ognam"]

### 3) Get even numbers and multiply by 2

Input: [1, 2, 3, 4, 5, 6]

Output: [4, 8, 12]

### 4) Find second largest number (without sort)

Input: [10, 30, 50, 20, 40]

Output: 40

### 5) Split array into even-index & odd-index arrays

Input: ["a", "b", "c", "d", "e"]

Output:

Even index: ["a", "c", "e"]

Odd index: ["b", "d"]

### 6) Count numbers greater than 50

Input: [20, 60, 51, 75, 33, 99]

Output: 4

### 7) Find the longest word

Input: ["hi", "international", "cat", "sun"]

Output: "international"

### 8) Generate Random Array (Math.random method)

Write a function to create an array of random numbers between two given numbers.

Input: length = 5, min = 10, max = 50

Output: [12, 33, 47, 29, 10]

### 9) Round Array of Numbers (use Math Object)

Description: Write a function that rounds each number in an array to the nearest integer.

Input: arr = [1.2, 3.7, 4.5]

Output: [1, 4, 5]

### 10) Days Since Given Dates

Description: Write a function that takes an array of dates and returns an array of the number of days since each date until today.

Input: dates = ["2024-01-01", "2024-03-01", "2024-04-15"]

Output: [318, 257, 205]

### 11) Sort Array by Date

Description: Write a function that takes an array of dates and returns them sorted from oldest to newest.

Input: dates = ["2024-05-01", "2024-01-01", "2024-03-15"]

Output: ["2024-01-01", "2024-03-15", "2024-05-01"]