```
Input: "Madam"
Output: true
Hint for Students:

  If all match → Palindrome. Otherwise, not.

Q2. Given an array of integers, find the second largest element. Assume array
length \geq 2.
Input: [10, 20, 4, 45, 99]
Output: 45
Hint for Students:

		← Make sure second does not equal first.

Q3. You are given two sorted arrays. Merge them into a single sorted array.
Input: arr1 = [1,3,5], arr2 = [2,4,6]
Output: [1,2,3,4,5,6]
Hint for Students:
Compare elements → insert smaller one into result.
Continue until one array is exhausted.
Copy remaining elements.
Q4.Implement a stack data structure using an array. Support push, pop, and peek.
Input (sequence of operations):
push 10
push 20
peek
pop
pop
pop
Output:
20
20
10
Stack Underflow
Hint for Students:
👉 Use an array to store stack elements.

→ On push, increment top and insert.

👉 On pop, return element at top and decrement.
Handle overflow and underflow cases.
```

Q1. Given a string, check whether it is a palindrome (reads the same forwards and

backwards). Ignore case