

Classroom Assignment: Two Sum

Learning Objective:

Learn to identify and return pairs of indices whose elements sum up to a specific target using nested loops in JavaScript.

Expected Completion Time:

Best Case: 15 minutes

Average Case: 20 minutes

Assignment Details:

Given the array, `const nums = [2, 4, 7, 8, 11, 14];`

`const target = 18;`

return the indices that have matching targets >> 7+11 (2, 4), 4+14 (1, 5)

Assignment Requirements:

1. Initialize an empty array ``results``.
2. Use a nested loop to iterate over ``nums`` array elements.
3. Check if the sum of two distinct elements equals ``target``.
4. If true, add their indices to ``results``.
5. Return ``results`` containing pairs of indices.

Hints to Solve:

Iterate with two loops: one for each element, and another for elements ahead. Inside the second loop, check if two elements sum to the target.

Expected Outcome:

Upon completion, you should be able to:

- Understand the nested loops and the arrays in JavaScript