Javascript Questions

**Question 1**

Given an array of integers nums and an integer target, return *indices of the two numbers such that they add up to target*.

You may assume that each input would have ***exactly* one solution**, and you may not use the *same* element twice.

You can return the answer in any order.

**Example 1:**

**Input:** nums = [2,7,11,15], target = 9

**Output:** [0,1]

**Output:** Because nums[0] + nums[1] == 9, we return [0, 1].

**Question 2**

Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.

**Example 1:**

**Input:** s = "()"

**Output:** true

**Example 2:**

**Input:** s = "()[]{}"

**Output:** true

**Example 3:**

**Input:** s = "(]" **Output:** false

**Question 3**

Given head, the head of a linked list, determine if the linked list has a cycle in it.

There is a cycle in a linked list if there is some node in the list that can be reached again by continuously following the next pointer. Internally, pos is used to denote the index of the node that tail's next pointer is connected to. **Note that pos is not passed as a parameter**.

Return true*if there is a cycle in the linked list*. Otherwise, return false.

**Graphical user interface, text, application, email

Description automatically generated**

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\* Definition for singly-linked list.

\* function ListNode(val) {

\* this.val = val;

\* this.next = null;

\* }

\*/

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\* @param {ListNode} head

\* @return {boolean}

\*/

var hasCycle = function(head) {

};