

# Problem 3232: Find if Digit Game Can Be Won

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 81.29%

**Paid Only:** No

**Tags:** Array, Math

## Problem Description

You are given an array of **positive** integers `nums`.

Alice and Bob are playing a game. In the game, Alice can choose **either** all single-digit numbers or all double-digit numbers from `nums`, and the rest of the numbers are given to Bob. Alice wins if the sum of her numbers is **strictly greater** than the sum of Bob's numbers.

Return `true` if Alice can win this game, otherwise, return `false`.

**Example 1:**

**Input:** `nums = [1,2,3,4,10]`

**Output:** `false`

**Explanation:**

Alice cannot win by choosing either single-digit or double-digit numbers.

**Example 2:**

**Input:** `nums = [1,2,3,4,5,14]`

**Output:** `true`

**\*\*Explanation:\*\***

Alice can win by choosing single-digit numbers which have a sum equal to 15.

**\*\*Example 3:\*\***

**\*\*Input:\*\*** nums = [5,5,5,25]

**\*\*Output:\*\*** true

**\*\*Explanation:\*\***

Alice can win by choosing double-digit numbers which have a sum equal to 25.

**\*\*Constraints:\*\***

**\*`1` <= nums.length <= 100` \*`1` <= nums[i] <= 99`**

## Code Snippets

**C++:**

```
class Solution {
public:
    bool canAliceWin(vector<int>& nums) {

    }
};
```

**Java:**

```
class Solution {
    public boolean canAliceWin(int[] nums) {

    }
}
```

**Python3:**

```
class Solution:
    def canAliceWin(self, nums: List[int]) -> bool:
```