# 1388. Greatest Sum Divisible by Three

# Difficulty : Medium

https://leetcode.com/problems/greatest-sum-divisible-by-three

Given an integer array `nums`, return *the* ***maximum possible sum*** *of elements of the array such that it is divisible by three.*

### Example 1:

```
Input: nums = [3,6,5,1,8]
Output: 18
Explanation: Pick numbers 3, 6, 1 and 8 their sum is 18 (maximum sum divisible by 3).
```

### Example 2:

```
Input: nums = [4]
Output: 0
Explanation: Since 4 is not divisible by 3, do not pick any number.
```

### Example 3:

```
Input: nums = [1,2,3,4,4]
Output: 12
Explanation: Pick numbers 1, 3, 4 and 4 their sum is 12 (maximum sum divisible by 3).
```

### Constraints:

- `1 <= nums.length <= 4 * 10^4`
- `1 <= nums[i] <= 10^4`