

# 12371 - LAB 07

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## Instructions

1. Access the auto-grader at <https://c200.luddy.indiana.edu>
2. Please write the code for the problems in python language
3. The code should be readable with variables named meaningfully
4. Plagiarism is unacceptable and we have ways to find it, so do not do it
5. Don't change the function signature (name of the function and number and types of arguments) provided in this file.
6. Once you pass all the tests on the auto grader, show your work to the teaching assistant

## Problem

### Question

Given an array Arr of size N containing integers. Find the maximum sum of non-empty subsequence that can be formed so that no three consecutive elements are present from the array.

### Test cases

Input: arr = [1, 2, 3]

Output: 5

Explanation: All three element present in the array is consecutive, hence we have to consider just two element sum having maximum, which is  $2+3 = 5$

Input: arr = [3000, 2000, 1000, 3, 10]

Output: 5013

Explanation:  $3000 + 2000 + 3 + 10 = 5013$ .

Here no three consecutive elements are in that subsequence.

### Function signature

```
def findMaxSum(arr):  
    # Your implementation here
```