8. You are given an array nums consisting of integers. You are also given a 2D array queries, where queries[i] = [posi, xi]. For query i, we first set nums[posi] equal to xi, then we calculate the answer to query i which is the maximum sum of a subsequence of nums where no two adjacent elements are selected. Return the sum of the answers to all queries. Since the final answer may be very large, return it modulo 109 + 7. A subsequence is an array that can be derived from another array by deleting some or no elements without changing the order of the remaining elements.

```
MOD = 10**9 + 7
def max sum no adjacent(nums):
  incl, excl = 0, 0
  for num in nums:
    new excl = max(incl, excl)
    incl = excl + num
    excl = new excl
  return max(incl, excl)
def solve(nums, queries):
  total sum = 0
  for pos, val in queries:
    nums[pos] = val
    max_sum = max_sum_no_adjacent(nums)
    total sum = (total sum + max sum) % MOD
  return total sum
nums = [1, 2, 3, 4]
queries = [[1, 5], [0, 2], [3, 6]]
print(solve(nums, queries))
INPUT:[,2,3,4],[1,5],[0,2],3,6]
TIME COMPLEXITY:
O(q.n)
```

Output:

```
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PS C:\Users\surya> & C:\Users\surya/AppData/Local/Programs/Python/Python312/python.exe c:\Users\surya/Untitled-1.py
```