```
============== Input ==============
solver = Solution()
a = '1011'
b = '001'
c = '11010001011'
print solver.prob6_2(a,b,c)

============== Output ==============
False
============== Python code =========
import numpy as np
class Solution(object):
	def prob6_2(self,a,b,c):
		p = len(a)
		q = len(b)
		r = len(c)
		#Init
		Memo = np.zeros((p,q,r+1),dtype=bool)
		Memo[0][0][r] = True
		#base case
		for k in range(r-1,-1,-1):
			for i in range(p):
				for j in range(q):
					if i < p-1 and j< q-1:
						Memo[i][j][k] = (Memo[i+1][j][k+1] and (c[k] == a[i]))
or (Memo[i][j+1][k+1] and c[k]==b[j])
					if i == p-1 and j<q-1:
						Memo[i][j][k] = (Memo[0][j][k+1] and (c[k] == a[i])) or
(Memo[i][j+1][k+1] and c[k]==b[j])
					if i < p-1 and j == q-1:
						Memo[i][j][k] = (Memo[i+1][j][k+1] and (c[k] == a[i]))
or (Memo[i][0][k+1] and c[k]==b[j])
					if i == p-1 and j == q-1:
						Memo[i][j][k] = (Memo[0][j][k+1] and (c[k] == a[i])) or
(Memo[i][0][k+1] and c[k]==b[j])
		return Memo[0][0][0]
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```