## binary social distancing

Write a Python program to count the combinations for non-consecutive 1's numbers patterns in a binary number string where the width of the binary given by the user.

for exmample

n = 4

all binary string combinations at width 4

0000

0001

0010

0011

0100

0101

0110

0111

1000

1001

1010

1011

1100

1101

1110

1111

here non-consecutive 1's (consider char 0 is social distance) patterns are:

0001, 0010, 0100, 0101, 1000, 1001, 1010

total count of these patterns is 7

Output at width 4 is 7

**Input Format**

positive integer n

**Constraints**

width >= 0

**Output Format**

integer

**Sample Input 0**

3

**Sample Output 0**

4

**Explanation 0**

for width 3, binary string total combinations patterns

000

001

010

011

100

101

110

111

valid patterns 001, 010, 100, 101

total count is 4

**list of anagram**

Given an arrays of strings, find all the anagram pairs matches in the given arrays.

for example

array1(list1) : ['abc', 'mdkr', 'polt', 'gcf', 'mcd']

array2(list2 ): ['bca', 'mfr', 'dkmry', 'cgf', 'cdm']

'bca' == 'abc' anagram match 1

'cgf' == 'gcf' anagram macth 2

'cdm' == 'mcd' anagram match 3

total number of matches 3

Output is 3 for both arrays

**Input Format**

input line1 array1 final list form input line2 array2 final list form

**Constraints**

None

**Output Format**

integer number

**Sample Input 0**

['blue', 'silver', 'tan', 'ruby', 'teal']

['bore', 'lube', 'vets', 'late', 'taco']

**Sample Output 0**

2

**Explanation 0**

'lube' match with 'blue'

'late' match with 'teal'

total matches 2 Output is 2

## prime sort 1

There is a string of digits only, sort the string so that all prime digits comes forward. the prime digits will be arrange in lexicographical order.

Example

string input

"0123456789"

string output

"2357014689"

**Input Format**

single line string

**Constraints**

None

**Output Format**

string

**Sample Input 0**

"2345234"

**Sample Output 0**

"2233544"

**Sample Input 1**

"200022494"

**Sample Output 1**

"222000494"