Python Assignment

1)

class Solution:

def twoSum(self, nums: List[int], target: int) -> List[int]:

for a,i in enumerate(nums):

for b,j in enumerate(nums):

if i+j == target and a!=b:

return [a,b]

2)

class Solution:

def reverse(self, x: int) -> int:

x = str(x)

if x[0] == '-':

a = int('-' + x[-1:0:-1])

if a >= -2147483648 and a<= 2147483647:

return a

else:

return 0

else:

a = int(x[::-1])

if a >= -2147483648 and a<= 2147483647:

return a

else:

return 0

3)

class Solution:

def romanToInt(self, s: str) -> int:

dictionary = {

"I" : 1,

"V" : 5,

"X" : 10,

"L" : 50,

"C" : 100,

"D" : 500,

"M" : 1000

}

prev = 0

result = 0

for i in s:

if dictionary [i] > dictionary:

print(dictionary [i])

result += dictionary [i] - (2 \* prev)

prev = dictionary [i]

else:

result += dictionary [i]

prev = dictionary [i]

return result

4)

class Solution:

def longestCommonPrefix(self, strs: List[str]) -> str:

if len(strs) == 0:

return ""

current = strs[0]

for i in range(1,len(strs)):

temp = ""

if len(current) == 0:

break

for j in range(len(strs[i])):

if j<len(current) and current[j] == strs[i][j]:

temp+=current[j]

else:

break

current = temp

return current

or

class Solution:

def longestCommonPrefix(self, strs: List[str]) -> str:

import os

return os.path.commonprefix(strs)