```
def maxProfit(price, n):
  profit = [0]*n
  max_price = price[n-1]
  for i in range(n-2, 0, -1):
    if price[i] > max_price:
       max_price = price[i]
    profit[i] = max(profit[i+1], max_price - price[i])
  min_price = price[0]
  for i in range(1, n):
    if price[i] < min_price:</pre>
       min_price = price[i]
    profit[i] = max(profit[i-1], profit[i]+(price[i]-min_price))
  result = profit[n-1]
  return result
price = [7,1,5,3,6,4]
print ("Maximum profit is", maxProfit(price, len(price)))
```

DAY 3 Q3 def numIdenticalPairs(self, nums: List[int]) -> int: return sum((n)*(n-1)//2 for n in Counter(nums).values())

```
def add_binary_nums(x, y):
     max_{len} = max(len(x), len(y))
    x = x.zfill(max_len)
    y = y.zfill(max_len)
     # initialize the result
     result = "
     # initialize the carry
     carry = 0
     # Traverse the string
     for i in range(max_len - 1, -1, -1):
       r = carry
       r += 1 if x[i] == '1' else 0
       r += 1 \text{ if } y[i] == '1' \text{ else } 0
       result = ('1' if r % 2 == 1 else '0') + result
       carry = 0 if r < 2 else 1 # Compute the carry.
     if carry !=0 : result = '1' + result
     return result.zfill(max_len)
```

```
a=int(input())
p=0
b=a
while(b>0):
    r=b % 10
    p=p*10+r
    b=b//10
if (p==a):
    print ("Mirror")
else:
    print("No Mirror")
```

```
class Solve():
 def Anagrams (self, li):
    dictionary = {}
    for word in li:
      sortedWord = ".join(sorted(word))
      if sortedWord not in dictionary:
        dictionary[sortedWord] = [word]
      else:
        dictionary[sortedWord] += [word]
    return [dictionary[i] for i in dictionary]
if __name__ == '__main__':
  li=[]
  n=int(input("enter number of words"))
  for i in range(1,n+1,1):
    ele=input("enter")
    li.append(ele)
  print(li)
print(Solve().Anagrams(li))
```