Problem and code

A ransom note can be formed by cutting words out of a magazine to form a new sentence. How would you figure out if a ransom note (represented as a string) can be formed from a given magazine (string)?

Example

Note ->Some ransom note

Magazine->The magazine contains some words that some of them are repeated notes, others are random or ransom, nevertheless, this is funny

Supposing no comas

Brute Force n\*m\*k

def ransom(note, magazine):

splitted\_note = note.split(“ ”)

splitted\_magazine = magazine.split(“ ”)

for word in splitted\_note:

found =false

for maga in splitted\_magazine:

If word == maga:

splitted\_magazine.remove(maga)

found= true

Break

If not found :

return false

Return true

Optimize k\*(n+m)

def ransom(note, magazine):

splitted\_note = note.split(“ ”)

splitted\_mag = magazine.split(“ ”)

count\_mag =dict.fromkeys(splitted\_mag, 0)

count\_note =dict.fromkeys(splitted\_note , 0)

for maga in splitted\_mag:

count\_mag[maga]+=1

for word in splitted\_note :

If count\_mag[word]>0:

count\_mag[word]-=1

Else:

Return false

Return true