**7 kyu**

**Find the nth occurrence of a word in a string!**

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Python

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**Description**

You are required to implement a function find\_nth\_occurrence that returns the index of the nth occurrence of a substring within a string (considering that those substring could overlap each others). If there are less than n occurrences of the substring, return -1.

**Example**

string = "This is an example. Return the nth occurrence of example in this example string."

find\_nth\_occurrence("example", string, 1) == 11

find\_nth\_occurrence("example", string, 2) == 49

find\_nth\_occurrence("example", string, 3) == 65

find\_nth\_occurrence("example", string, 4) == -1

Multiple occurrences of a substring are allowed to overlap, e.g.

find\_nth\_occurrence("TestTest", "TestTestTestTest", 1) == 0

find\_nth\_occurrence("TestTest", "TestTestTestTest", 2) == 4

find\_nth\_occurrence("TestTest", "TestTestTestTest", 3) == 8

find\_nth\_occurrence("TestTest", "TestTestTestTest", 4) == -1

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*'''*

*Created on 13 jun. 2018*

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*'''*

import string

def **find\_nth\_occurrence**(substring, string, occurrence):

# insert code here

#pass

i = 0

oc = 0

while i < len(string):

i = string.find(substring, i)

oc += 1

if oc == occurrence:

return i;

i += 1

return -1

s = *"This is an example. Return the nth occurrence of example in this example string."*

substring = *"example"*

print (find\_nth\_occurrence(substring, s, 1))

# == 11;

print (find\_nth\_occurrence(substring, s, 2))

# 49;

print (find\_nth\_occurrence(substring, s, 3))

# 65;

print (find\_nth\_occurrence(substring, s, 4))

# == -1;