Alignment methods

- 1. ljust
- 2. rjust
- 3. center

str.center(width[, fillchar])

Return centered in a string of length *width*. Padding is done using the specified *fillchar* (default is an ASCII space). The original string is returned if *width* is less than or equal to len(s).

str.ljust(width[, fillchar])

Return the string left justified in a string of length *width*. Padding is done using the specified *fillchar* (default is an ASCII space). The original string is returned if *width* is less than or equal to len(s).

str.rjust(width[, fillchar])¶

Return the string right justified in a string of length *width*. Padding is done using the specified *fillchar* (default is an ASCII space). The original string is returned if *width* is less than or equal to len(s).

Example:

```
>>> str1="nit"
>>> str1.ljust(15)
'nit
>>> str1.ljust(15,'*')
'nit*********
>>> str1.ljust(15,'$')
'nit$$$$$$$$$$$
>>> str1.rjust(15)
        nit'
>>> str1.ljust(15,'*')
'nit*********
>>> str1.rjust(15,'*')
'******nit'
>>> str1.center(15)
>>> str1.center(15,'*')
'*****nit*****
```

Example:

```
namesList=['naresh','ramesh','kishore','suresh','kiran']
for name in namesList:
  print(name.center(20,'*'))
studList=[['naresh','python'],
      ['kishore','java'],
      ['ramesh','oracle'],
      ['kiran','mysql']]
for stud in studList:
  name,course=stud
  print(name.ljust(15,'#'),course.center(15,'*'))
Output
******naresh*****
******ramesh*****
*****kishore*****
******suresh*****
******kiran******
naresh####### *****python****
kishore###### *****java*****
ramesh####### *****oracle****
kiran####### *****mysql*****
https://www.hackerrank.com/challenges/swap-
case/problem?isFullScreen=true
def swap_case(s):
  s1="
  for ch in s:
     if ch.islower():
       s1=s1+ch.upper()
    elif ch.isupper():
       s1=s1+ch.lower()
     else:
       s1=s1+ch
```

```
if __name__ == '__main__':
    s = input()
    result = swap_case(s)
```

print(result)

https://www.hackerrank.com/challenges/python-string-split-and-join/problem?isFullScreen=true

```
def split_and_join(line):
    # write your code here
    list1=line.split()
    str1="-".join(list1)
    return str1

if __name__ == '__main__':
    line = input()
    result = split_and_join(line)
    print(result)
```

str.find(sub[, start[, end]])

Return the lowest index in the string where substring *sub* is found within the slice s[start:end]. Optional arguments *start* and *end* are interpreted as in slice notation. Return -1 if *sub* is not found.

Example:

```
>>> str1="python"
>>> str1.find('h')
3
>>> str2="java"
>>> str2.find('a')
1
>>> str2.find('p')
-1
>>> str2.find('a',2)
3
```

str.join(iterable)

Return a string which is the concatenation of the strings in iterable.

```
>>> list1=['a','b','c','d']
>>> str1=".join(list1)
>>> print(list1)
['a', 'b', 'c', 'd']
>>> print(str1)
abcd
>>> str2=','.join(list1)
>>> print(str2)
a,b,c,d
>>> str3='-'.join(list1)
>>> print(str2)
a,b,c,d
>>> print(str3)
a-b-c-d
https://www.hackerrank.com/challenges/python-
mutations/problem?isFullScreen=true
def mutate string(string, position, character):
   list1=list(string)
  list1[position]=character
  str1=".join(list1)
  return str1
if __name__ == '__main__':
  s = input()
  i, c = input().split()
  s new = mutate string(s, int(i), c)
  print(s_new)
```

String examine methods

str.endswith(suffix[, start[, end]])

Return True if the string ends with the specified *suffix*, otherwise return False. *suffix* can also be a tuple of suffixes to look for. With optional *start*, test beginning at that position. With optional *end*, stop comparing at that position

```
Example:
>>> str1="python"
>>> str1.endswith('n')
True
>>> str2="java"
>>> str2.endswith('a')
True
>>> str2.endswith('A')
False
>>> str2.endswith(('a','A'))
True
>>> str3="programming"
>>> str3.endswith('g',0,3)
False
>>> str3.endswith('i',3,9)
True
Example:
names=['naresh',
    'suresh',
    'kishore'.
    'rajesh',
    'kiran',
    'raman']
for name in names:
  if name.endswith('h'):
     print(name)
for name in names:
  if name.endswith(('h','n')):
    print(name)
Output:
naresh
suresh
rajesh
naresh
```

suresh rajesh kiran raman

str.startswith(prefix[, start[, end]])

Return True if string starts with the *prefix*, otherwise return False. *prefix* can also be a tuple of prefixes to look for. With optional *start*, test string beginning at that position. With optional *end*, stop comparing string at that position.

Example:

```
>>> str1="python"
>>> str1.startswith('p')
True
>>> str2="java"
>>> str2.startswith('j')
True
>>> str2.startswith('J')
False
```

Example:

```
for name in names: if name.startswith(('r','k')) and name.endswith('n'): print(name)
```

Output:

rajesh raman

kishore rajesh kiran

kiran raman

raman

Example:

>>> str1="rama rao"
>>> str1.endswith('rao')
True
>>> str2="Mr.Rama"
>>> str2.startswith('Mr.')
True

Partition methods

- 1. partition
- 2. rpartition