

1. 137. Given two strings needle and haystack, return the index of the first occurrence of needle in haystack, or -1 if needle is not part of haystack.

Example 1:

Input: haystack = "sadbutsad", needle = "sad"

Output: 0

Code:

```
def strStr(haystack, needle):  
    return haystack.find(needle)  
haystack = "sadbutsad"  
needle = "sad"  
print("Index of the first occurrence:", strStr(haystack, needle))
```

output:

```
PS C:\Users\karth>  
PS C:\Users\karth> & c:/Users/karth/AppData/Local/Programs/Python/Python312/python.exe c:/Users/karth/OneDrive/Documents/OriginLab/problems.py  
Index of the first occurrence: 0  
PS C:\Users\karth>
```

Time complexity: $f(n)=o(n)$