**Approach 1:**

1. For each letter in the haystack:
   1. Check if it matches, start of the needle:
      1. If yes, move to match next character

Do this until char’s match

* 1. If end of needle reached, all char’s matched return start index

1. Return -1

**Code:**

n = len(haystack)

m = len(needle)

j = 0

i=0

while i + m <= n:

start = i

while j < m and haystack[i] == needle[j]:

j+=1

i+=1

if j==m:

return start

else:

j = 0

i = start+1

return -1

Time-> O(n\*m)

Space -> O(1)

Approach 2: KMP Algo

Time-> O(n+m)

Space -> O(m)