Problem – 4 Given a string, find all the possible subsequences of the string.

```
def find_subsequences(s, index, current_subsequence, result):
  if index == len(s):
    if current_subsequence:
      result.append(current_subsequence)
    return
  find_subsequences(s, index + 1, current_subsequence + s[index], result)
  find_subsequences(s, index + 1, current_subsequence, result)
def all_subsequences(s):
  result = []
  find_subsequences(s, 0, "", result)
  return result
string = "abc"
subsequences = all_subsequences(string)
print("Output:", " ".join(subsequences))
                                                   input
Output: abc ab ac a bc b c
 ...Program finished with exit code 0
Press ENTER to exit console.
```