Encode and Decode Strings.

Design an algorithm to encode a list of strings to a string. The encoded string is then sent over the network and is decoded back to the original list of strings.

Please implement encode and decode.

```
public class Solution {
    /*
     * @param strs: a list of strings
     * @return: encodes a list of strings to a single string.
   public String encode(List<String> strs) {
        // write your code here
    }
     * @param str: A string
     * @return: decodes a single string to a list of strings
    public List<String> decode(String str) {
        // write your code here
}
Example 1:
Input: ["lint", "code", "love", "you"]. 4#lint4#code4#love3#you
Output: ["lint", "code", "love", "you"].
Example 2:
Input: ["we", "say", ":", "yes"]. 2#we3#say1#:3#yes
Output: ["we", "say", ":", "yes"].
public static String encode(List<String> strs) {
             StringBuilder encodedString = new StringBuilder();
             for (String str : strs) {
      encodedString.append(str.length()).append("#").append(str);
             return encodedString.toString();
      public static List<String> decode(String str) {
            List<String> listAnswer = new ArrayList<>();
             int i = 0;
             while (i < str.length()) {</pre>
                   int sepIdx = str.indexOf('#', i);
                   int length = Integer.parseInt(str.substring(i, sepIdx));
                   String decodedString = str.substring(sepIdx + 1, sepIdx +
length + 1);
                   listAnswer.add(decodedString);
                   i = sepIdx + length + 1;
```

```
}
return listAnswer;
```