

LZW_Dictionary_Encoding

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In [3]: def lzw_encode_file(input_file, output_file):  
    with open(input_file, 'r') as f:  
        text = f.read()  
  
    dictionary = {chr(i): i for i in range(256)}  
    result = []  
    current = ""  
  
    for char in text:  
        current += char  
        if current not in dictionary:  
            dictionary[current] = len(dictionary)  
            result.append(dictionary[current[:-1]])  
            current = char  
    result.append(dictionary[current])  
  
    with open(output_file, 'w') as f:  
        f.write(' '.join(map(str, result)))  
  
# Usage  
input_file = 'input.txt'  
output_file = 'encoded.txt'  
lzw_encode_file(input_file, output_file)
```

input.txt: ababbabababba

encoded.txt: 97 98 256 257 98 99 256 258 97