

1121009

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Sec A

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```
3) def genmatchkey (string, key):  
    key = list (key)  
    if len(string) == len(key)  
        return (key)  
    else  
        for i in range (len(string)-len(key)):  
            key.append (key[i] + len(key))  
  
        return (" ".join(key))  
  
def cipher_text (string, key):  
    cipher_text = []  
    for i in range (len(string)):  
        x = (ord (string[i]) + ord (key[i])) % 26  
        x += ord ('A')  
        cipher_text.append (chr(x))  
    return (" ".join (cipher_text))  
  
def original_text (cipher_text, key):  
    orig_text = []  
  
    for i in range (len(cipher_text)):  
        y = (ord (cipher_text[i]) - ord (key[i])  
              + 26) % 26  
        x += ord ('A')
```