# 13march2017

March 14, 2017

Rearrange characters in a string such that no two adjacent are same

```python
In [29]: def adj_chars_not_same(inpt):
             st = list(inpt)
             q = 0
             p = q - 1
             while q < len(st) and p < len(st):
                 p += 1
                 q += 1
                 while q < len(st) and st[p] == st[q]:
                     q += 1
                 if q < len(st):
                     p += 1
                     st[p], st[q] = st[q], st[p]
                     q = p + 1
                 else:
                     break
             if p == q - 1:
                 return "".join(st)
             else:
                 return "Not Possible"
```

```python
In [30]: adj_chars_not_same("aaabc")
```

```
Out[30]: 'abaca'
```

```python
In [31]: adj_chars_not_same("aa")
```

```
Out[31]: 'Not Possible'
```

```python
In [32]: adj_chars_not_same("aaabb")
```

```
Out[32]: 'ababa'
```

```python
In [33]: adj_chars_not_same("aaaabc")
```

```
Out[33]: 'Not Possible'
```