

问答题

1. 给定一个 for 条件, for i in range(1,100,2), 请把它改为 while 语句。

解答:

```
1 i = 1
2 while i < 100:
3     ...
4     i = i + 2
```

2. “for i in range(a,b,step)”和“for i in range(len(L))”结构中的参数能不能在循环体内被执行的语句改变呢?

解答:

不能。如果在循环体内编写了同名参数, 则会暂时性在循环体中修改该参数, 但是本次循环结束后, 参数就会恢复成修改前的数据。

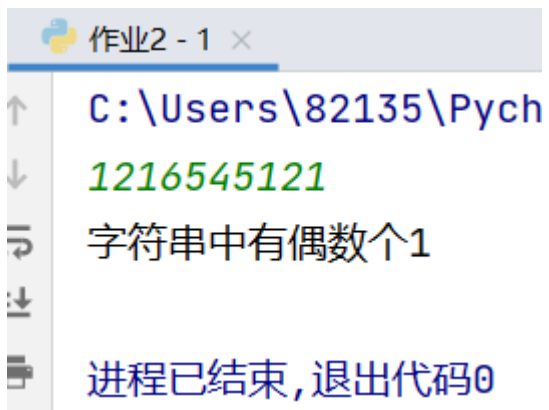
上机题

1

源代码:

```
1 type = input()
2 a = type.count('1')
3 if a == 0:
4     print('字符串中没有1')
5 elif a % 2 == 0:
6     print('字符串中有偶数个1')
7 elif a % 2 == 1:
8     print('字符串中有奇数个1')
```

运行结果:



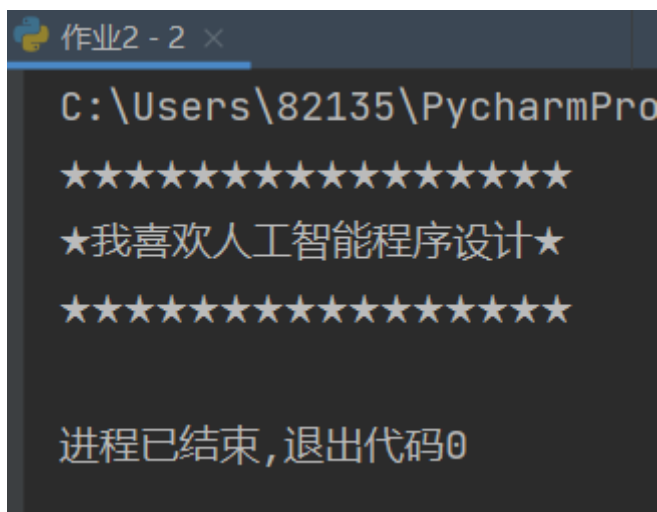
```
作业2 - 1 ×
C:\Users\82135\Pycho
1216545121
字符串中有偶数个1
进程已结束,退出代码0
```

2

源代码:

```
1 text = '我喜欢人工智能程序设计'
2 l = len(text)
3 print(chr(0x2605) * (l+5))
4 print(chr(0x2605), text, chr(0x2605), sep='')
5 print(chr(0x2605) * (l+5))
```

运行结果:



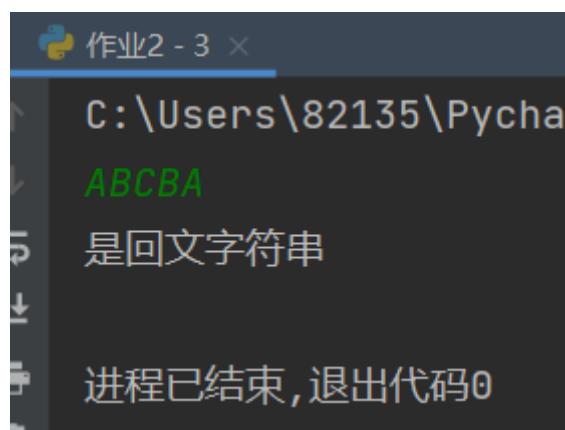
```
作业2 - 2 ×
C:\Users\82135\PycharmPro
★★★★★★★★★★★★★
★我喜欢人工智能程序设计★
★★★★★★★★★★★★★
进程已结束,退出代码0
```

3

源代码:

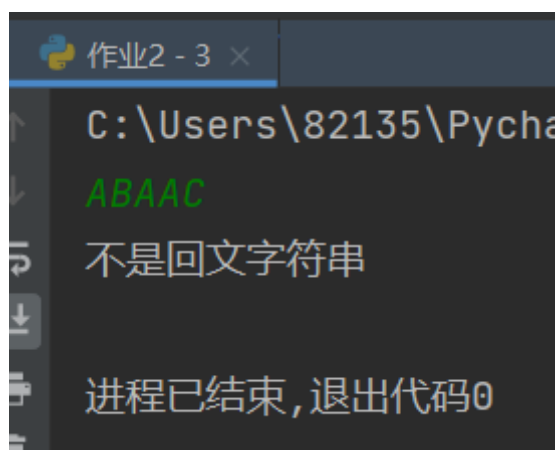
```
1 text = list(input())
2 re_text = list(reversed(text))
3 if list(text) == list(re_text):
4     print('是回文字符串')
5 else:
6     print('不是回文字符串')
```

运行结果：



```
作业2 - 3 ×
C:\Users\82135\Pycha
ABCBA
是回文字符串
进程已结束,退出代码0
```

A screenshot of a Python terminal window titled '作业2 - 3'. The prompt is 'C:\Users\82135\Pycha'. The user has entered 'ABCBA', and the program has responded with '是回文字符串' (It is a palindrome string). The terminal then shows '进程已结束,退出代码0' (Process ended, exit code 0).



```
作业2 - 3 ×
C:\Users\82135\Pycha
ABAAC
不是回文字符串
进程已结束,退出代码0
```

A screenshot of a Python terminal window titled '作业2 - 3'. The prompt is 'C:\Users\82135\Pycha'. The user has entered 'ABAAC', and the program has responded with '不是回文字符串' (It is not a palindrome string). The terminal then shows '进程已结束,退出代码0' (Process ended, exit code 0).