Project 9 文本美化

sample.txt 中有一些很长的行,需要在合适的位置换行。本程序应该包含如下两个功能:

(1) 首先那些超过 60 个字符的行需要 60 个字符之后换行。如果换行的位置正好位于一个单词中间,将导致这个单词出现在两行中。一种选择是在尾部附加一个连字符。本程序采取另外一种策略,允许某个长行在换行时,换行的位置小于 60 个字符,使得如果换行位置位于单词中间时,该单词出现在下一行。注意要考虑一个长行可能替代以多行的情形。

(2) 在步骤(1)的基础上,对于自动换行后的每行进行编号,每行最前面是行号,后面是行的内容,行号占 5 个字符的宽度。注意如果某行为空行,或者其内容全部是空格类字符,则该行不进行编号。

sample.txt 的内容在经过上述处理后,最后写入到文件 sample_out.txt 中。下面给出了输出文件中的前面多行内容。

```
1    The Python Tutorial

2    Python is an easy to learn, powerful programming language.
3    It has efficient high-level data structures and a simple but
4    effective approach to object-oriented programming. Python's
5    elegant syntax and dynamic typing, together with its
6    interpreted nature, make it an ideal language for scripting
7    and rapid application development in many areas on most
8    platforms.

9    The Python interpreter and the extensive standard library
10   are freely available in source or binary form for all major
11   platforms from the Python web site, https://www.python.org/,
12   and may be freely distributed. The same site also contains
13   distributions of and pointers to many free third party
14   Python modules, programs and tools, and additional
15   documentation.
```