Every following tasks need to write complete code, not exactly system design, like homework.

Print a book

Design and implement a printer algorithm, the input will be a very large text, you need to print the text as a book. The text may contains blank, tab (take 4 positions), new-line and other printable words.

hint:

1. The text may have arbitrary format, for example: many leading blanks, tabs or newlines, many trailing blanks, tabs or newlines, and many blanks, tabs or newlines between words

2. Can't split a single word into different lines, you can assume a single word length will not exceeds the book's width

3. At the beginning of a line, ignore all the blanks, tabs and newlines. So the beginning of a line should always be some word

4. At the end of a line, also ignore all the blanks, tabs and newlines. So the end of a line should always be some word, you can't print trailing blanks or tabs at the end of a line, except 1 new-line

5. According to rule 3 and rule 4, you will expect not to print consecutive newlines

6. At the same line, you should print all the blanks and tabs between 2 words

7. The book should support different sizes, for example: A3 paper or A4 paper

dejun@visenze.com

dupeng@visenze.com