

Print Cost Management

A book publisher asks you to develop a program to automatically manage the generation of print costs for its customers. The information used by the program is stored in two different files. In the first file, called costipagine.txt, the cost of the pages is listed, one per line and characterized by the following information, separated by semicolons:

```
N_Pag_min;N_Pag_max;single_page_cost
```

Where N_Pag_min and N_Pag_max are the number of pages (minimum and maximum) that the single_page_cost in euros (the â,- symbol is present in the file) refers to.

The software must open a file (whose name is provided by the user) that contains a list of books to be quoted, one per line, and characterized by the following information, separated by semicolons:

```
Title;number_of_pages
```

where Title is the title of the book and number_of_pages is the number of pages in the book.

It is assumed that:

all files are correct there are no "overlaps" between page ranges in the costipagine.txt file BUT IT IS NOT SAID THAT THE ROWS ARE ORDERED semicolons do not appear in book titles the number of pages of the books to be priced always falls within one of the intervals in the costipagine.txt file. Based on this information, the program must:

Load the price list into memory in an appropriate data structure Print the price list IN ORDER OF INCREASING PAGES Display on the screen the forecast of the printing costs of each book, possibly ordered alphabetically by title, reporting for each on a single line, the title, the number of pages, and the calculated cost. Example File costipagine.txt

```
1;100;2.5â,-
101;200;2â,-
301;400;1.6â,-
201;300;1.8â,-
501;700;1.2â,-
1001;2000;0.8â,-
701;1000;1â,-
401;500;1.4â,-
```

libri.txt

```
Lights and Shadows in Python;232
Hidden Lists;125
Short Poems in Python;15
Python Dictionary;666
Python Wars;1342
```

print output

```
Price List:
Up to 100 pages: 2.5â,-/page
Up to 200 pages: 2.0â,-/page
Up to 300 pages: 1.8â,-/page
Up to 400 pages: 1.6â,-/page
Up to 500 pages: 1.4â,-/page
Up to 700 pages: 1.2â,-/page
Up to 1000 pages: 1.0â,-/page
Up to 2000 pages: 0.8â,-/page

PRINTING COSTS
Short Poems in Python - Pages: 15 - Cost: 37.50â,-
Python Dictionary - Pages: 666 - Cost: 799.20â,-
Hidden Lists - Pages: 125 - Cost: 250.00â,-
Lights and Shadows in Python - Pages: 232 - Cost: 417.60â,-
Python Wars - Pages: 1342 - Cost: 1073.60â,-
Total: 2577.
```