

CP109L 110-1 HW7 assignment

Organize your questions and the solutions (including the source code listing using Roboto Mono font, input/output for programming-writing questions) to *all six* questions, into a document of a word processor. Google Doc is recommended, because it allows you and your teammate to co-edit a document. Put the following files (with your student ID numbers as the file name prefix).

1103790_110379_hw7.pdf,
1103790_1103799_hw7_q1.py,
1103790_1103799_hw7_q2.py,
1103790_1103799_hw7_q3.py,
1103790_1103799_hw7_q4.py,
1103790_1103799_hw7_q5.py,
1103790_1103799_hw7_q6.py

into a folder named as 1103790_1103799_hw7, compress this folder into 1103790_1103799_hw7.zip, and then upload this file to portal's homework section

1. Ch2 #12 (p.184) (to find leap years)
2. Ch2 #14 (p.184). (Assign / define X by yourself in the first line)
3. Ch2 #18 (a) (p.185), but the calculation is changed to compute
$$\sum_{k=1}^X \frac{1}{k}$$
Also, figure out a way to verify the calculation result.
4. Ch2 #18(b), and the calculation is the one given in the textbook. In addition, the expressions are required to be displayed, but the equal sign symbols are not required to align to one another.
5. Ch2 #22 (p.186)
6. Ch2 #29 (p.188)