

Coding Problem

We want to build an intelligent system that can calculate the monthly subscription expenses of essential items for a household. For the sake of this assignment, we will go with the daily newspaper subscription. Following table demonstrate prices of some of the prominent newspapers on a daily basis, all prices in Indian rupees.

Based on the choice of papers one wants to subscribe, the program should calculate the monthly expense for the household.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
TOI	3	3	3	3	3	5	6
Hindu	2.5	2.5	2.5	2.5	2.5	4	4
ET	2	2	2	2	2	2	10
BM	1.5	1.5	1.5	1.5	1.5	1.5	1.5
HT	2	2	2	2	2	4	4

The input to the program should be a comma separated list of papers that the consumer wants to subscribe.

Calculate the total subscription price for the current month. **You could use the calendar to arrive at the total number of specific weekdays in the month and hard code the same.**

The evaluation will happen on the following criteria:

- Demonstrate your **understanding of OOPS** concepts through the solution.
- Use **relevant data structure** to solve the problem efficiently.
- **Think scalability.** Currently we have only newspaper under Books & Periodical category, Now if we want to add more items to the subscription list across different categories at varying frequency (Daily, Weekly, BiWeekly etc). e.g. we add milk under Dairy Category with a daily frequency, any magazine under Books Category with a weekly frequency etc. The solution that you submit should be easily extendible to add new items under different categories at given frequency to arrive at total subscription cost.