

Brief: Your client manages a retail shop with multiple workers on shift work.

Requirement: Please write a program to perform work schedule arrangement with the following requirements and submit your application within 2 hours of given time.

1. Program is able to load data of workers from external source
2. Program is able to assign workers for each day of the week.
3. Program is able to assign 2 workers for each weekday and 3 workers for each weekend days (Saturday and Sunday).
4. Each of the workers has at least 2 days off every week, and he would not be happy to be assigned on his days off.
5. Program prints out the weekly schedule by displaying workers assigned for each day of the week.
6. Program also prints out the individual schedule of each worker by displaying duty days for each worker.
7. Retail shop can only afford to hire at most 4 workers.
8. Each allocation has to be random for each assignment.

Sample Data:

| Name | Off Days |
|---------|-------------------|
| Alpha | Sunday, Tuesday |
| Bravo | Monday, Saturday |
| Charlie | Tuesday, Friday |
| Delta | Wednesday, Monday |

Note: It is always good to keep your program code as flexible as possible, due to common requirement changes often seen in the software industry.