

# Advanced Programming Techniques in Health Care

## Health Care IT WS 2018

### Small Programming Example No Assignment

In Austria the number of seats for a party in the national parliament is calculated with the D'Hondt method<sup>1</sup>. Write a small console-application which calculates the allocation of seats in the Austrian parliament.

As an input your program should read a file containing:

- In the first line the number of seats  $s$ ,
- in the second line the number of parties  $p$ ,
- the following  $p$ -lines contain the name of the party and the number of votes (the number of votes and the name are separated with a space).

An example file could look like the following:

```
183
5
SPOE 1351918
OEVP 1586106
FPÖE 1310614
NEOS 264317
PILZ 220088
```

Your output should contain the name of the party and the assigned seats.

```
Party: SPOE Votes: 1351918 Seats:52
Party: OEVP Votes: 1586106 Seats:62
Party: FPÖE Votes: 1310614 Seats:51
Party: NEOS Votes: 264317 Seats:10
Party: PILZ Votes: 220088 Seats:8
```

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<sup>1</sup> [https://en.wikipedia.org/wiki/D'Hondt\\_method](https://en.wikipedia.org/wiki/D'Hondt_method)