back

Solution to exercise 1.3

The data file can be downloaded from here: months.txt.gz. To unpack it, type:

```
gunzip months.txt.gz
```

There are several solutions to this exercise.

One can observe that the months which names end with 'er' are the last four months and can use `tail` command to select the four last lines from the file:

```
cat months.txt | tail -n 4 | numsum -c -x 3
```

This solution uses `numsum` command to calculate the sum of numbers in the third column (on Debian it requrires the package 'num-utils' to be installed).

One can also use the `grep` utility to select the lines with substring 'er':

```
cat months.txt | grep 'er' | numsum -c -x 3
```

If `numsum` utility is not available one can use one-liner[1], for instance in AWK language:

```
cat months.txt | grep 'er' | awk '{s=s+$3} END {print s}'
```

It is also possible to use Octave to calculate the sum, though in this case, one has to save the numbers in a temporary file:

```
cat months.txt | grep 'er' | cut -s -d " " -f 3 >  tmpMonths
octave -q --eval "disp(sum(load('tmpMonths'))); exit"
```

[1]

a program fitting in one line, see Wikipedia

From:
https://www.l5.pk.edu.pl/~putanowr/dokuwiki/ - **Roman Putanowicz Wiki**

Permanent link:
https://www.l5.pk.edu.pl/~putanowr/dokuwiki/doku.php?id=en:teaching:subjects:it:labs:sol_1_3

Last update: **2017/10/02 15:54**