

# COMPUTER ARCHITECTURES (02LSEOV)

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## Problem solving session n°3 2016/2017

Note: the deadline for submitting this home work is 20th Jan 2017

Prepare a procedure in Assembly for Intel 8086 able to be called from a C program, that has as input a date and as output the number of weeks from the 1st January 2000 up to the date in input.

The prototype has to be the following:

```
unsigned int countweeks (char *date);
```

where date is a pointer to a character string containing the date in the form dd/mm/yy.

Please consider leap-years and suppose  $yyyy \geq 2000$ . Suppose dates are always correct and returned value can be always represented on 16 bits.

It is suggested using an array of 12 integers with the number of days for each month.