

## Solution of serie 7

**Exercise 1** *One notices that using the linear algebra operations allows to increase slightly the performance of the code.*

**Exercise 2** *The driver for solving the linear system with errors and condition number estimates is called `dgesvx`. The code is in the file `lape.c` and the makefile in `Makefile1`. It is worth noticing that, contrarily to the driver `dgesv` (or to a call to `dgetrf`, and then to `dgetrs`), one needs twice the memory space for the matrix; this is due to the error estimates! For the proposed system, the matrix is quite well conditioned and the backward error is of the order of the machine precision.*