## C Programming

Noureddine Hamid - Nouredine Ouhaddou - Redone Mahjoubi ${\rm TP}~00$ 

## Exercice 1:

Write a function which return a line read from a file descriptor. your function must be declared as follows:

char\* get\_next\_line(int fd);

Input: is a file descriptor to read from.

Output: next line, or NULL if nothing else to read, or an error occurred.

## Behavior:

- Calling your function **get\_next\_line** in a loop will then allow you to read the text available on the file descriptor one line at a time until the end of it.
- Your function should return the line that has just been read. If there is nothing else to read or if an error has occurred it should return NULL.
- Make sure that your function behaves well when it reads from a file and when it reads from the standard input.
- Your program must compile with the flag -D BUFFER\_SIZE=xx which will be used as the buffer size for the read calls in your get\_next\_line. This value will be modified.
- Your read must use the BUFFER\_SIZE defined during compilation to read fromva file or from stdin. This value will be modified.
- you can only use the following external functions: malloc, free, read

Note: consider using static variables