C Programming

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Exercice 1:

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

```
char* read_lines(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 **read_lines** 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 from stdin. This value will be modified.
- $\bullet\,$ you can only use the following external functions: $\,$ malloc, free, read

Note: consider using static variables