OS Problem Sheet #2

Problem 2.1:

Look at the following program and write down what is stored in the text segment, the data segment, the heap segment, and the stack segment.

- The whole machine instructions(program) are in the text segment.
- **static char m[]** is in the data segment since it's the static variable.
- **p = malloc(len+1)** is in the heap segment since it is a dynamically allocated data structure
- **char *p** (*on line 7)*, **size_t len, char *p** *(on line 23)* is in stack segment since they are automatically allocated local variables.
  const char *s is also in the stack segment since it's an argument of a function. (*management of function calls*)