

# Operating Systems CO-562

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Assignment 2

## Problem 2.1

So, the text segment of the following code: `main()`, `strdup(const char*)`  
The text segment stores the code we run, but only the textual code. The variables are stored in stack (local variables) and data (global and static variables) segments.

The data segment: `m[]` (line 22);

The stack segment: `*s` (line 5), `*p` (line 7), `len` (line 8), `*p` (line 23);  
The mentioned `p*`'s are not the same pointer (one in `main()` and another in `strdup(const char*)`), they are stored in different stack frames.

The heap segment: `p` (line 12), since we allocate it dynamically.

## Problem 2.2

Please see code, "xargs.c", attached.