

CSC209H Worksheet: Error Checking

Type in the following program and run it to find out what happens when you try to call `strtol` on different strings.

```
#include <stdlib.h>
#include <stdio.h>
#include <errno.h>
#include <string.h>

int main(int argc, char **argv) {
    char *next = NULL;
    errno = 0;
    long longi = strtol(argv[1], &next, 0);
    int i = longi;

    printf("longi: %ld\n", longi);
    printf("i: %d\n", i);
    printf("next is |%s|\n", next);

    if(errno != 0) {
        perror("strtol");
    }
    return 0;
}
```

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| <code>argv[1]</code> | <code>longi</code> | <code>i</code> | <code>next</code> | <code>errno / perror()</code> |
|-----------------------|--------------------|----------------|-------------------|-------------------------------|
| "42" | | | | |
| "209S" | | | | |
| "0" | | | | |
| "zero" | | | | |
| "seven" | | | | |
| "B52" | | | | |
| "9876543219876543219" | | | | |
| "-32" | | | | |
| "0x41" | | | | |