In the last worksheet we wrote a program that forked one child for each commandline argument. The child computed the length of the commandline argument and exits with that integer as the exit status. The parent sums these return codes and reports the total length of all the commandline arguments together. For this worksheet, we will do the same program, except that each child will communicate the string’s length to the parent through a pipe.

```c
int main(int argc, char **argv) {
    // Declare any new variables you need

    // Write the code to loop over the command line arguments.
    for (int i = 1; i < argc; i++) {
        // Before we call fork, call pipe
        int result = fork();
        if (result < 0) {
            perror("fork");
            exit(1);
        } else if (result == 0) { // child process
            // Child only writes to the pipe, so close reading end
            // Before we forked, parent had open the reading ends to
            // all previously forked children; so close those.
        } else { // parent process
            // Parent will sum the return codes
        }
    }
}
```
// Now do the work - write the value in binary to the pipe
int len = strlen(argv[i]);

// Close the pipe since we are done with it.
exit(0); // Don’t fork children on next loop iteration
} else {
    // In the parent, but before doing the next loop iteration,
    // close the end of the pipe that we don’t want open

    }

    // Only the parent gets here
    int sum = 0;
    // Read one integer from each child, print it and add to sum

    printf("The length of all the args is %d\n", sum);
    return 0;
}