

Command Line Arguments

Program #1: Echo, Version 1

This program echos its command line arguments on a separate line..

```
/*
 * print arguments followed by a newline
 */
#include <stdio.h>

int main(int argc, char *argv[])
{
    int i;                                /* counter in a for loop */

    /*
     * go through the argument list, skipping arg 0 (it's
     * the program name)
     */
    for(i = 1; i < argc-1; i++)
        printf("%s ", argv[i]);

    /*
     * now print the last argument, UNLESS it is arg 0
     */
    if (argc > 1)
        printf("%s\n", argv[argc-1]);

    /*
     * return success!
     */
    return(0);
}
```

Program #2: Echo, Version 2

This also echos its command line arguments, but if the first argument is -n, it suppresses the trailing newline and does not print that argument.

```
#include <stdio.h>

int main(int argc, char *argv[])
{
    int prnl = 1;                      /* 1 to print newline, 0 not to */
    int i;                            /* counter in a for loop */

    /*
     * if argument 0 is -n, set prnl to suppress newline
     * skip it in the printing; otherwise, print beginning with arg 1
     */
    if (argc > 1 &&
        argv[1][0] == '-' && argv[1][1] == 'n' && argv[1][2] == '\0'){
        prnl = 0;
        i = 2;
    }
    else
        i = 1;

    /*
     * go through the argument list, skipping arg 0 (it's
     * the program name) and arg 1 if needed
     */
    for( ; i < argc-1; i++)
printf("%s ", argv[i]);

    /*
     * now print the last argument, UNLESS it is arg 0, or arg 1 and -n
     */
    if ((prnl && argc > 1) || (!prnl && argc > 2)){
        printf("%s", argv[argc-1]);
        /* put out the newline */
        if (prnl)
            putchar('\n');
    }

    /*
     * return success!
     */
    return(0);
}
```