```
#include <stdlib.h>
#include <stdio.h>
#include <string.h>
#include <unistd.h>
#include "proto.h"
struct builtin {
    char *name;
    void (*fn)(int, char **argv);
};
void bin_exit(int argc, char **argv) {
    int \overline{\text{code}} = (\text{argc} == 1) ? 0 : \text{atoi}(\text{argv}[1]);
    exit(code);
}
void bin_aecho(int argc, char **argv) {
    int print_nl = 1,
         i = 0;
    if (argc > 1 \& x strncmp("-n", argv[1], 2) == 0) {
         print_nl = 0;
         /* don't print the -n */
         argv++;
         argc--;
    }
    for(i = 1; i < argc; i++) {</pre>
         if (i != 1) {
             if (write(1, "", 1) < 0)
                  perror("write");
         }
         if (write(1, argv[i], strlen(argv[i])) < 0)</pre>
             perror("write");
    }
    if (print_nl) {
         if (\text{write}(1, "\n", 1) < 0)
             perror("write");
    }
}
const int NUM_BUILTINS = 2;
const struct builtin BUILTINS[] = {
    { "aecho", bin_aecho }, 
{ "exit", bin_exit }
};
int try_builtin(int argc, char **argv) {
    int i;
    char *name = argv[0];
    for (i = 0; i<NUM_BUILTINS; i++) {</pre>
         if (strcmp(name, BUILTINS[i].name) == 0) {
             /* matched builtin name, call it */
             BUILTINS[i].fn(argc, argv);
             return 1;
    /* didn't match */
    return 0;
}
```