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/* A simple illustration of exit handlers. Note that exit handlers
are
   * pushed onto a stack and thus execute in reverse order.
   * Illustrate exiting at different times by invoking
   * this program as
                                                                 exit handlers invoked after return from main
   * ./a.out
   * ./a.out 1 exit handlers invoked after return from main that with a sum of the sum of t
   * */
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
void
my exit1(void) {
                          (void)printf("first exit handler\n");
}
void
my exit2(void) {
                          (void)printf("second exit handler\n");
}
void
func(int argc) {
                          (void)printf("In func.\n");
                         if (argc == 2) {
                                                 exit(EXIT SUCCESS);
                         } else if (argc == 3) {
                                                 exit(EXIT SUCCESS);
                         } else if (argc == 4) {
                                               abort();
                         }
}
int
main(int argc, char **argv) {
                          (void) argv;
                         if (atexit(my exit2) != 0) {
                                                  perror("can't register my exit2\n");
                                                  exit(EXIT FAILURE);
                         }
                         if (atexit(my exit1) != 0) {
                                                  perror("can't register my exit1");
                                                  exit(EXIT FAILURE);
                         }
                         if (atexit(my exit1) != 0) {
                                                  perror("can't register my exit1");
```

```
exit(EXIT_FAILURE);
}

func(argc);

(void)printf("main is done\n");

return EXIT_SUCCESS;
}
```