Problem 54. (4 points):

Consider the following C program. (For space reasons, we are not checking error return codes, so assume that all functions return normally.)

```
pid_t pid;
void handler1(int sig) {
 printf("zip");
 fflush(stdout); /* Flushes the printed string to stdout */
 kill(pid, SIGUSR1);
void handler2(int sig) {
 printf("zap");
  exit(0);
}
main() {
  signal(SIGUSR1, handler1);
  if ((pid = fork()) == 0) {
    signal(SIGUSR1, handler2);
   kill(getppid(), SIGUSR1);
   while(1) {};
  }
  else {
   pid_t p; int status;
    if ((p = wait(&status)) > 0) {
     printf("zoom");
  }
}
```

What is the output string that this program prints?

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