## System Programming Assignment #7

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\*Assume that if a signal is caught in sigsuspend, sigsuspend return as soon as the signal handler returns. i.e. There is no window between the return of handler and the return of sigsuspend.

(1)

```
the program start empty

block SIGUSR1 by sigprocmask SIGUSR1

SIGUSR2 delivered at line A SIGUSR1 + SIGUSR2

return to main SIGUSR1

sigsuspend (change to waitmask) SIGUSR2

SIGUSR2 + SIGINT

SIGUSR1 delivered in sigsuspend SIGUSR2 + SIGINT

SIGUSR1 delivered in the handler of SIGINT SIGUSR2 + SIGINT

return to the handler of SIGINT SIGUSR2 + SIGINT

return to the handler of SIGINT SIGUSR2 + SIGINT

return to main SIGUSR1
```

(2)

```
the program start
block SIGUSR1 by sigprocmask
SIGUSR1

(SIGUSR1 generated but blocked)

sigsuspend (change to waitmask)
SIGUSR2

(SIGUSR2 generated but blocked)

SIGUSR1 delivered in sigsuspend
SIGUSR1 + SIGUSR2 + SIGINT

(SIGINT generated but blocked)

return to main
SIGUSR1

SIGUSR2 delivered
SIGUSR1 + SIGUSR2

SIGUSR2 + SIGUSR2

SIGUSR2 + SIGUSR2

SIGUSR3 + SI
```