System Programming **Quiz #3** **2016-11-16**
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Name: _____ Student ID: _____

Score : _____/ 50

1. (6 points) There are three things the kernel can do when a signal is received, what are they?

2. (4 points) There are two signals can never be ignored, what are they?

3. (10 points) Fill in the blanks in the figure

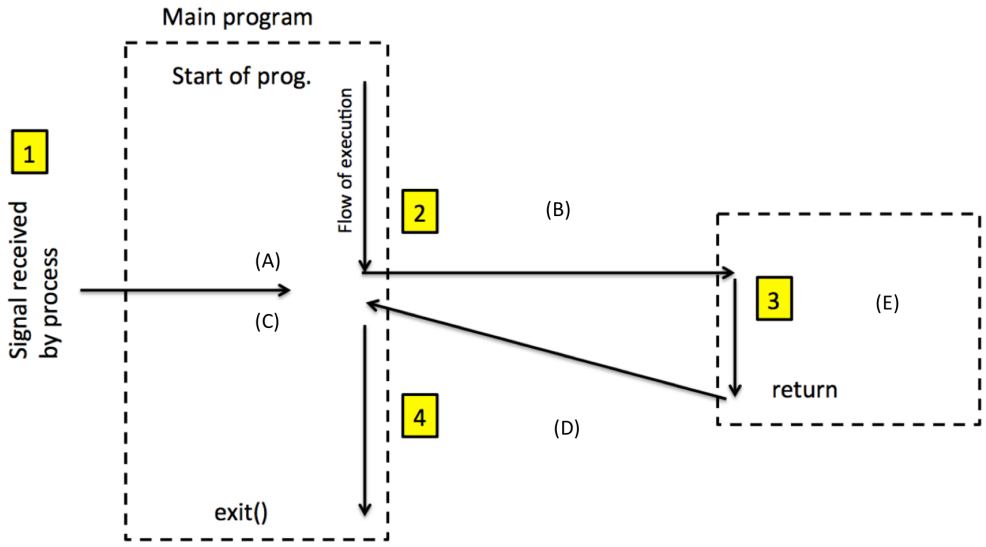

Figure 1: Signal Handling Concept

(A) _____

(B) _____

(C) _____

(D) _____

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(E) _____

4. (2 points) _____ are guarnateed to be safe to call from within a signal hanlder. They are also called *async-signal safe*.

5. (6 points) Fill in the following blanks

    1. We say a signal is _____ for a process, it means that a event that cases the signal occurs
    2. When the action for a signal is taken, we say signal is _____
    3. A process has the option to _____ the delievery of a signal

6. (8 points) kill recieves two arguments (`int kill(pid_t pid, int signo)`). You have four choices for the second argument. Distinguish the differences of the following four choices

    1. `pid > 0` _____
    2. `pid == 0` _____
    3. `pid < 0` _____
    4. `pid == -1` _____

7. (2 points) What header do you need to use `sigaddset()` function?

8. (6 points) How does the following three options change the behavior of `sigprocmask(int how, const sigset_t *restrict set, sigset_t *restrict oset)`

    1. `SIG_BLOCK`_____
    2. `SIG_UNBLOCK`_____
    3. `SIG_SETMASK`_____

9. (6 points) Give at least two different exmaples of sengding signal using the command prompt