

Tutorial Activity 7

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Concept Questions:

1. A signal is a interrupt that is sent to a process by the OS. These interrupts give instructions to the processes.
2. **SIGINT** interrupt the process.
SIGTSTP suspends a process that can be resumed with SIGCONT. This can be sent through tty (ctrl+Z). This can be ignored but SIGSTOP cannot.
SIGCONT resumes a suspended process.
3. **kill(pid_t pid, int sig)** is a function that sends a signal to a process or group of processes specified by the passed pid and the signal sent is specified by sig.
waitpid(pid_t pid, int *status, int options) is a function that waits for a state change. These two can be used to terminate a process and wait till it has ended before continuing by performing a waitpid() and then using kill() with SIGSTOP specifier. Once the state has changed then it will perform an action.
4. **Linked-list (queue)** is a data structure that orders elements by the **FIFO** method which means first in first out. This means that the first element to enter the queue with the enqueue() method will be the first element to be removed from the queue using the dequeue() method.
5. A linked list in c is a list that contains pointers to the next elements in the list. The first element is pointed to by the head, and the last element is pointed to by the tail. The elements are accessed by accessing the value of the memory address that is being pointed to.