Shell Documentation

Command :- /bin/ls|/usr/bin/sort|/usr/bin/uniq

Flow of execution : -

- **getcmd()** takes the input()

- in main() child process will be created.

- Child process will call function **parsecmd()** which will tokenize the given command on the basis of **pipe** and store it in the array **parsed_cmd.**

- **parsecmd()** will call **runcmd()** which will recursively create the child process as many as there are piped commands and will start execution of first command from starting --> /bin/ls

  in the lowest child and recursively come up in the tree of child process to run the commands.

- To execute a single command, **execcmd()** will be called which tokenizes the command on the basis of whitespaces. **execcmd()** takes the help of **redirect()** function to help in IO redirection of currently executing cmd.

- And finally output is shown when last command --> /usr/bin/uniq is exceuted in topmost child.

How to Use: -

- to give IO redirection there must be atleast one space between the cmd and IO redirectio.

  Ex -

  ls >tmp   --- valid

  ls> tmp   --- invalid

  ls>tmp   --- invalid

  ls >tmp   --- valid

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