# Jan 10 Tutorial

#### Bash: file as input and output

```
> x # save output to x
< x # read input from x
# these two can be combined</pre>
```

### Bash: compile file.c

```
gcc hello.c -o hello # compile <hello.c> to output <hello>
./hello # you can run it in command line
```

#### Bash: more file stuff and diff

```
x | y: the eoutput of x as input of y
x && y: execute x and y from left to right
diff: compare two files; no outputs means the two files are the same.
# you can use diff to check if ur output is the same as expected.
```

## $\heartsuit$ Haskell $\heartsuit$ : pattern-matching

```
prepend :: Integer -> [[Integer]] -> [[Integer]]
prepend i [] = [i]
prepend i (n:ns) = [i n] : prepend i ns
```