# HW 1

## Fill in your name

#### 17 JAN 2018

1.	(10 points)	What $\epsilon$	are the	three	componen	ts of a	u Unix :	system?	Provide	an e	$\mathbf{example}$	of the	intera	ction
	from a user	· perspe	ctive do	own to	the hard	ware a	nd bac	k up.						

### WRITE YOUR ANSWER HERE

2. (15 points) Consider the ls -l output below, label the output appropriately:

```
drwxr-xr-x 2 aviv scs 4096 2013-12-22 10:57 demo/
-rw-r--r- 1 aviv scs 13454 2013-12-22 10:56 text.dat
```

## WRITE YOUR ANSWER HERE

- 3. (15 points) For the following commands, determine in which bin directory they live by using which command on a lab machine
  - (a) ls

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- (b) which
  - WRITE YOUR ANSWER HERE
- (c) tac
  - WRITE YOUR ANSWER HERE
- (d) grep
  - WRITE YOUR ANSWER HERE
- (e) cut
  - WRITE YOUR ANSWER HERE
- (f) chmod
  - WRITE YOUR ANSWER HERE
- (g) head
  - WRITE YOUR ANSWER HERE
- (h) mv

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4. (10 points) Look up the tac command in the man pages. Describe its operations, and give an example usage.

#### WRITE YOUR ANSWER HERE

5.	(15 p	points) What are the three guiding principles of the Unix design philosophy?	
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6.	(10 p	points) What are the primary purpose of standard input, output, and error for different p	rograms?
	WRI	TE YOUR ANSWER HERE	
7.	(15 p	points) Consider the following command line with redirects:	
	grep	p PA < sample-db.csv 2> oops > sample-db.PA.csv	
	(a)	What is the output file?	
		WRITE YOUR ANSWER HERE	
	(b)	What is the input file?	
		WRITE YOUR ANSWER HERE	
	(c)	What is the error file?	
		WRITE YOUR ANSWER HERE	
	(d)	What is the error file?	
8.	(10 p outp	points) Using a pipeline as an example, why is it necessary to have standard error and out?	standard
	WRI	TE YOUR ANSWER HERE	