DAY 11

REGULAR EXPRESSION

```
Anchors - ^ and $
   ^The
                    matches any string that starts with The
  end$
                    matches a string that ends with end
   ^The end$
                   exact string match (starts and ends with The end)
                    matches any string that has the text roar in it
  roar
Quantifiers - * + ? and {}
  abc*
                   matches a string that has ab followed by zero or more c
                   matches a string that has ab followed by one or more c
  abc+
                   matches a string that has ab followed by zero or one c
  abc?
  abc{2}
                   matches a string that has ab followed by 2 c
                   matches a string that has ab followed by 2 or more c
  abc{2,}
  abc\{2,5\}
                   matches a string that has ab followed by 2 up to 5 c
OR operator -
                   or []
  a(b|c)
                  matches a string that has a followed by b or c
  a[bc]
                  same as previous
```

GREP

• grep: Unix utility that searches a pattern through either information piped to it or files.

• egrep: extended grep, same as grep -E

• zgrep: compressed files.

-i	gnore case during search			
-r,-R	search recursively			
-v	invert match i.e. match everything except pattern			
-1	list files that match pattern			
-L	list files that do not match pattern			
-n	prefix each line of output with the line number within its input file.			
-A num	print num lines of trailing context after matching lines.			
-B num	print num lines of leading context before matching lines.			

100	Thomas	Manager	Sales	\$5,000
200	Jason	Developer	Technology	\$5,500
300	Raj	Sysadmin	Technology	\$7,000
500	Randy	Manager	Sales	\$6,000

grep OR

```
grep 'Man\|Sales' employee.txt
-> 100 Thomas Manager Sales $5,000
```

300 Raj Sysadmin Technology \$7,000

500 Randy Manager Sales \$6,000

grep AND

\$(grep -oE "\b([0-9]{1,3}\.){3}[0-9]{1,3}\b" \$file_path)