**STAT 133 Fall 12**

**Section Worksheet: Regular Expressions**

Write down a regular expression to match the following:

Words with @ symbols in them, e.g., vi@gra

An ip address (4 sets of 1-3 digits separated by periods, e.g., 124.32.6.240)

A typical email address that ends with .com, .edu, .net, .org, or .gov

Consider the following character vector,

> movies

[1] "The Shawshank Redemption (1994)"

[2] "The Godfather (1972)"

[3] "The Godfather: Part II (1974)"

[4] "Pulp Fiction (1994)"

[5] "The Good, the Bad and the Ugly (1966)"

[6] "12 Angry Men (1957)"

What is the return expression from each of the following function calls:

> grep("I{2,}", movies)

> grep("Go+d", movies)

> gregexpr("\\(.\*\\)", movies[1])

> gsub("[0-9]", "", movies[6])

> gsub("[[:blank:]].\*$", "", movies[5])

> gsub(" \\(.\*$", "", movies[5])