ECS 140B -- Erlang Homework Assignment
Due no later than 6:00pm **Tuesday**, May 29, 2018

For each of the following problems, provide a pattern-matching solution in Erlang. Do not resort to just giving a new name to an existing Erlang function that already does what we want your function to do.

This is not an Erlang project, so you do this assignment on your own, not with your partner. Submit your solutions as a single file named "funs.erl".

Grading will be on a 3-point scale for each solution (5 problems x 3 points maximum per solution = 15 points maximum).

And now, here are your homework problems:

1) myremoveduplicates

```
myremoveduplicates("abacad") => "bcad"
myremoveduplicates([3,2,1,3,2,2,1,1]) => [3,2,1]
```

2) myintersection

```
myintersection("abc", "bcd") => "bc"
myintersection([3,4,2,1], [5,4,1,6,2]) => [4,2,1]
myintersection([], [1,2,3]) => []
myintersection("abc", "") => ""
```

3) mylast

```
mylast("") => ""
mylast("b") => "b"
mylast("abcd") => "d"
mylast([1,2,3,4]) => [4]
mylast([]) => []
```

4) myreverse

```
myreverse("") => ""
myreverse("abc") => "cba"
myreverse([1,2,3]) => [3,2,1]
myreverse([]) => []
```

5) myreplaceall

```
myreplaceall(3,7,[7,0,7,1,7,2,7]) => [3,0,3,1,3,2,3]
myreplaceall(3,9,[7,0,7,1,7,2,7]) => [7,0,7,1,7,2,7]
```