Sample midterm 2 key

1. a)

```
**("O")**
```

b)

<table>
<thead>
<tr>
<th>foo</th>
<th>baz</th>
<th>ant</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

```
ZEN GARDEN

A demonstration of...

The Road to Enlightenment
Littering a dark and dreary road lay...
Today, we must clear the mind...

Select Design
Under the Sea! by Eric Stoltz
Make 'em Proud by Michael McAghon and Scotty...

So What is This About?
There is clearly a need for CSS to be taken seriously...
CSS allows complete and total control over the style of a hypertext doc...

Participation
Graphic artists only please. You are modifying this page...
Zen editors modify the style sheet in any way you wish, but not...
<?php
if (!isset($_GET['profile'])) {
    
    <form action="">
        <p>Select an elevation profile:</p>
        <select name="profile">
            <?php
                foreach(glob("*.dat") as $name) {
                    <option><?= $name ?></option>
                }
            ?></select>
    
    <p><input type="submit" value="Elevate-It!" /></p>
    </form>
}
else {

    <p>Elevation data for <?= $_GET['profile'] ?>:</p>
    
    <table>
        <tr><th>distance</th><th>elevation</th></tr>
        <?php
            $sum = 0;
            foreach(file($_GET['profile']) as $line) {
                list($dist, $elev) = explode(',', $line);
                $sum += $elev;
                
                <tr><td><?= $dist ?></td><td><?= $elev ?></td></tr>
            }
        </table>
    
    <p>Total gain/loss: <?= $sum ?></p>

} else {

    </p>

}?>
-- NOTE: *DON'T* run this query on imdb; it takes too long and hangs.

-- Run it on imdb_small only, please.
-- all directors who have made >= 2 movies across >= 2 genres
SELECT DISTINCT d.id, d.last_name d.first_name 
FROM directors d 
JOIN movies_directors md1 ON md1.director_id = d.id 
JOIN movies_genres mg1 ON mg1.movie_id = md1.movie_id 
JOIN movies_directors md2 ON md2.director_id = d.id 
JOIN movies_genres mg2 ON mg2.movie_id = md2.movie_id 
WHERE mg1.genre <> mg2.genre AND mg1.movie_id <> mg2.movie_id 
ORDER BY d.last_name, d.first_name;

-- all directors who have made >= 2 movies across >= 2 genres
-- (includes movies table unnecessarily)
SELECT DISTINCT dir.id, dir.last_name, dir.first_name 
FROM directors dir 
JOIN movies_directors md1 ON md1.director_id = dir.id 
JOIN movies m1 ON m1.id = md1.movie_id 
JOIN movies_genres mg1 ON mg1.movie_id = m1.id 
JOIN movies_directors md2 ON md2.director_id = dir.id 
JOIN movies m2 ON m2.id = md2.movie_id 
JOIN movies_genres mg2 ON mg2.movie_id = m2.id 
WHERE m1.id <> m2.id AND mg1.genre <> mg2.genre 
ORDER BY dir.last_name, dir.first_name;