Problem 1

1. As seen below, LoB 254, which accounts for employee benefits and compensation accounts for the biggest percentage of IT spending in FY14. The total amount is about $94 million. This makes sense to me because most public institution’s main cost is employee compensation and salaries.

<table>
<thead>
<tr>
<th>Line of Business</th>
<th>Sum of Total IT Spending FY2014 (PY) ($ M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>254 - Employee Benefits and Compensation</td>
<td>94.426995</td>
</tr>
<tr>
<td>143 - Goods and Services Acquisition</td>
<td>39.771016</td>
</tr>
<tr>
<td>124 - Accounting</td>
<td>26.625815</td>
</tr>
<tr>
<td>577 - Knowledge Distribution and Delivery</td>
<td>24.37</td>
</tr>
<tr>
<td>122 - Travel</td>
<td>21.959903</td>
</tr>
<tr>
<td>624 - Payroll</td>
<td>19.2456</td>
</tr>
<tr>
<td>618 - Employee Development and Training</td>
<td>18.298917</td>
</tr>
<tr>
<td>106 - Workforce Planning</td>
<td>18.278011</td>
</tr>
<tr>
<td>362 - Federal Financial Assistance</td>
<td>18.089291</td>
</tr>
<tr>
<td>673 - Community Management</td>
<td>12.012</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>293.077548</strong></td>
</tr>
</tbody>
</table>
2. In terms of total expenditures, Accounting, Acquisitions and Employee Compensation are the top 3 LoBs. The agencies on the left allow us to see how much each Agency expends on each of the three LoBs.

### Sum of Total IT Spending FY2014 (P) ($M)

<table>
<thead>
<tr>
<th>Agency</th>
<th>Line of Business</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>124 - Accounting</td>
</tr>
<tr>
<td>Department of Homeland Security</td>
<td>0.187</td>
</tr>
<tr>
<td>Department of the Interior</td>
<td>0.124236</td>
</tr>
<tr>
<td>General Services Administration</td>
<td>0.349887</td>
</tr>
<tr>
<td>Department of the Treasury</td>
<td>30.02073</td>
</tr>
<tr>
<td>Department of Transportation</td>
<td>25.041905</td>
</tr>
<tr>
<td>Department of Health and Human Services</td>
<td>0.230616</td>
</tr>
<tr>
<td>Department of Energy</td>
<td>0.418328</td>
</tr>
<tr>
<td>Nuclear Regulatory Commission</td>
<td>0.13</td>
</tr>
<tr>
<td>Department of Justice</td>
<td>2.359</td>
</tr>
<tr>
<td>Department of Labor</td>
<td>1.23976</td>
</tr>
<tr>
<td>Department of Education</td>
<td>0.106</td>
</tr>
<tr>
<td>National Science Foundation</td>
<td>0.067</td>
</tr>
<tr>
<td>Environmental Protection Agency</td>
<td>0.235</td>
</tr>
<tr>
<td>Department of Housing and Urban Development</td>
<td>0.067287</td>
</tr>
<tr>
<td>Social Security Administration</td>
<td>0.067</td>
</tr>
<tr>
<td>Office of Personnel Management</td>
<td>0.05287</td>
</tr>
<tr>
<td>Small Business Administration</td>
<td>0.057475</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>26.625815</strong></td>
</tr>
</tbody>
</table>

### Sum of Total IT Spending FY2014 (P) ($M)

- **124 - Accounting**
- **143 - Goods and Services Acquisition**
- **254 - Employee Benefits and Compensation**

### Graphical Representation

- **124 - Accounting**
- **143 - Goods and Services Acquisition**
- **254 - Employee Benefits and Compensation**
Problem 2

Based on the data provided below, I believe that Faber does discriminate against women. On the right column we can see the percentage of males vs. females that are accepted into each major. Assuming that they are equally qualified, there is no reason why 80% of men are accepted into the English program while only 60% of women are accepted into the same program. In addition, 41.4% of male applicants are accepted into the Science program while only 20% of females are accepted. If they are equally qualified, I would think that the same percentage of men and women would be accepted in relation to the total amount of applicants of each gender.

<table>
<thead>
<tr>
<th>Gender</th>
<th>Total Applications</th>
<th>Gender</th>
<th>Admitted</th>
<th>% Admitted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>100</td>
<td>Female</td>
<td>52</td>
<td>52.0%</td>
</tr>
<tr>
<td>English</td>
<td>80</td>
<td>English</td>
<td>48</td>
<td>60.0%</td>
</tr>
<tr>
<td>Science</td>
<td>20</td>
<td>Science</td>
<td>4</td>
<td>20.0%</td>
</tr>
<tr>
<td>Male</td>
<td>100</td>
<td>Male</td>
<td>53</td>
<td>53.0%</td>
</tr>
<tr>
<td>English</td>
<td>30</td>
<td>English</td>
<td>24</td>
<td>80.0%</td>
</tr>
<tr>
<td>Science</td>
<td>70</td>
<td>Science</td>
<td>29</td>
<td>41.4%</td>
</tr>
<tr>
<td>Grand Total</td>
<td>200</td>
<td>Grand Total</td>
<td>105</td>
<td></td>
</tr>
</tbody>
</table>