Due date: Nov 30, Mon. Turn in the homework on papers in class. The total is 10 points.

1. (3 pt) For each of the following scenarios, parties A and B each claim a total amount from an estate. Explain how to divide it up according to equal division of the contested sum:

   a) estate of 1000. A claims 600, B claims 800. (Notice that the estate is greater than half of the total claim of two parties)
   b) estate of 500. A claims 300, B claims everything.
   c) estate of 100. A claims 60, B claims 40.

2. (4 pt) Alfred, Bertha, Claude, and David claim 100, 200, 300, and 400 units from an estate.

   a) If the estate is worth 400, how can you divide the estate so that the values given to any two people satisfies splitting via equal division of contested sum?
   b) If the estate is worth 800, how can you divide the estate so that the values given to any two people satisfies splitting via equal division of contested sum?

3. (3 pt) Agnes, Bertrand and Camille are heirs to an estate. The estate consists of:
   - Apartment in London, Great Britain
   - House in Paris, Pennsylvania
   - C. M. Coolidge painting
   - Yacht

   The heirs price the objects at (in $1000s):

<table>
<thead>
<tr>
<th></th>
<th>Agnes</th>
<th>Bertrand</th>
<th>Camille</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apartment</td>
<td>10,000</td>
<td>11,000</td>
<td>9000</td>
</tr>
<tr>
<td>House</td>
<td>200</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td>Painting</td>
<td>500</td>
<td>450</td>
<td>550</td>
</tr>
<tr>
<td>Yacht</td>
<td>1000</td>
<td>900</td>
<td>950</td>
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</tbody>
</table>
If they split the goods using the methods of sealed bids, what will each person end up receiving?