A, B, C inherit a car. The bids they place are $25,200, $21,600, $18,000 respectively. What is the fair division arrived at by Inheritance Procedure?

Since A has the highest bid, he gets the car, but he puts \( \frac{2}{3} \times 25,200 = 16,800 \) in a box.

From where he gives \( \frac{1}{3} \times 21,600 = 7,200 \) to B and \( \frac{1}{3} \times 18,000 = 6,000 \) to C. Hence he has \( 16,800 - 7,200 - 6,000 = 3,600 \) left over.

Which he divides equally (1200) among all.

Hence

A: car - 16,800 + 1200 - ear - 15,600

B: 7,200 + 1200 = 8,400

C: 6,000 + 1200 = 7,200.
Suppose A and B wants to allocate textbooks among themselves by bottoms-up strategy. Their preferences are as follows:

<table>
<thead>
<tr>
<th>Row</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Biology</td>
<td>Chemistry</td>
<td>Botany</td>
<td>Sociology</td>
<td>Ecology</td>
<td>Physiology</td>
</tr>
<tr>
<td>B</td>
<td>Botany</td>
<td>Sociology</td>
<td>Physiology</td>
<td>Biology</td>
<td>Ecology</td>
<td>Chemistry</td>
</tr>
</tbody>
</table>

How should the allocation be done if A goes first:


So A should open with Botany, then B should go for Sociology, then A with Biology, and so on.