Loretta works at the ice cream parlor in town, yesterday afternoon four people (one was named Ben) came into her shop and each ordered a house special (including Pink jubilee surprise). If no two people ordered the same special at the same time, can you determine from the clues below who ordered which sundae and at what time?

**CLUES:**
1. Sadie didn't come in first.
2. Ben came in before at least one other person, he like Reba, didn't order rocky nut.
3. The woman who ordered Alamo fudge came in before Jerry, (who didn't come in before 2 pm).
4. The one who ordered Lot so Choc came in at 2 pm.
5. The two women, in some order, entered the shop at least 3 hours apart.
6. Rocky nut was ordered somewhere between 2 and 3 pm.

<table>
<thead>
<tr>
<th>ICE CREAM SHOP</th>
<th>Pink jubilee</th>
<th>Rocky nut</th>
<th>Alamo fudge</th>
<th>Lot so choc</th>
<th>1 pm.</th>
<th>2 pm.</th>
<th>3 pm.</th>
<th>4 pm.</th>
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<tbody>
<tr>
<td>Ben</td>
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<td>Sadie</td>
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**NOTES:**

(SEE SOLUTIONS STEP_BY_STEP PAGE 2)
ICE CREAM TREATS

Ben - Lotso choc- 2pm.
Jerry - Rocky nut-3pm.
Reba - Alamo fudge-1pm.
Sadie - Pink jubilee-4pm

step-by-step:

• Lets look at the first clue "Sadie did not come in First."
  Locate the row labeled 'Sadie' and find the column '1pm'
  Now click the grid square [Sadie-1pm] until the 'red xx'
  appears.

• Our next clue "Ben came in before at least one other
  person he, like Reba did not order Rocky nut."
  Lets evaluate the second part first, ( "...he, like Reba did not
  order Rocky nut").
  Locate and eliminate the grid squares [Ben-Rocky Nut, Reba-
  Rocky nut].
  Now the clue "...before at least one other person",
  translates to , he didnt come in last, so eliminate grid square[Ben-4pm].

• The next clue is "The woman who ordered Alamo
  fudge came in before Jerry , (who didn't come in before 2
  pm) ."

  First since only a woman ordered Alamo fudge, we can eliminate
  the grid squares
  [Ben-Alamo-Fudge, Jerry-Alamo-Fudge].
  This woman also came in before Jerry, who did not come in prior
  to 2pm.
  Lets eliminate the following grid squares :[Jerry-1pm, Jerry-
  2pm], and [Alamo-Fudge-4pm].

• Our next clue "The one who ordered Lot so Choco came in
  at 2 pm".
  Simple. Locate grid square [2pm-Lotso-Choco] and click until
the 'green box' appears. This will lead to the following eliminations: [2pm-Pink-Jub, 2pm-Rocky nut, 2pm-Alamo fudge] as well as [1pm-Lotso Choco, 3pm-Lotso Choco, 4pm-Lotso choco].

- The clue "The two women in some order, entered the shop at least 3 hours apart".
  Requires a bit of logical math, first we know that Sadie didn't come in at 1pm, therefore let's assume Sadie came in at 2pm, that means Reba would have had to come in at 11am or 5pm (at least 3 hours apart), which is not possible. The only possible way that this can be true is if Reba came in at 1pm, then Sadie comes in at 4pm. Locate the grid squares [Reba-1pm, Sadie-4pm] and fill them in with 'green boxes'.

This will result in the following grid square eliminations: [Reba-2pm, Reba-3pm, Reba-4pm, Sadie-2pm, Sadie-3pm, Ben-1pm, Jerry-4pm].
Which results in the grid square [Ben-2pm] becoming the only solution, for 2pm, and thus it follows that grid square [Jerry-3pm] as a remaining solution - highlight both squares green.
We can also make some more logical conclusions -
Since the one who ordered lotso choco came in at 2pm, then Ben must have ordered lotso choco! (find [Ben-Lotso choco] fill it in with a 'green box'), which in turn results in the following eliminations: [Ben-Pink Jub, Reba-Lotso, Sadie-Choco, Jerry-Lotso].

- Lets look at our last clue "Rocky nut was ordered somewhere between 2 and 3 pm."
  With a previous clue ("...Lotso Choco.....2pm") already claiming the 2pm time slot, then Rocky nut could have only been ordered at 3pm.
Find grid square [Rocky nut-3pm] and click until the 'green box' appears.

Let's make the following eliminations [Pink Jub-3pm, Alamo fudge-3pm, 1pm-Rocky nut, 4pm-Rocky nut]
This reveals the following solution squares [4pm-Pink jub, 1pm-Alamo fudge], which can be made 'green'.

The rest of the grid-solution-combos can be solved without additional clues, by employing some logical deduction.

Reba came in at 1pm and Alamo Fudge was purchased at 1pm, thus Reba purchased Alamo Fudge. (If Reba purchased Alamo fudge we eliminate grid square [Reba-Pink jub, Sadie-Alamo fudge].) The one who came in at 3pm purchased Rocky Nut, therefore Jerry came in at 3pm and purchased Rocky nut! If Jerry purchased Rocky nut, he 'DID NOT' purchase Pink Jub (eliminate grid square [Jerry-Pink jub], Sadie 'MUST' have purchased it!

- Congratulations! Puzzle solved. To summarize:

  Ben purchased Lotso Choco at 2pm.
  Reba purchased Alamo fudge at 1pm.
  Sadie purchased Pink jub at 4pm.
  Jerry purchased Rocky nut at 3pm.