Five Trains (one named Direct), arrive at the station on a different platform (A-E) at different times (one arrives at Train). From the clues provided can you determine the name of the Trains, their assigned platforms and arrival times?

**Clues:**

The earliest arrival is on platform C, but is not the Bullet, or the Express.

The Metro (not arriving at 8:15) arrives sometime after the Direct, which arrives before the Red-eye.

The Train that arrives on platform D, is at least 10 minutes later than the Train scheduled to arrive on platform B.

Red-eye (arriving before at least 3 other trains) is not scheduled to arrive on platform A.

Metro is scheduled for platform E (sometime after 801).

The Express (arriving on platform A), arrives before only one other Train.

<table>
<thead>
<tr>
<th>AT THE STATION</th>
<th>Direct</th>
<th>Metro</th>
<th>Express</th>
<th>Bullet</th>
<th>Red-eye</th>
<th>800</th>
<th>801</th>
<th>805</th>
<th>810</th>
<th>815</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>801</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>805</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>810</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>815</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Step-by-Step

This first clue: "The earliest arrival is on platform C but is not the Bullet, or the Express."

The earliest arrival would be 800, thus we have our first solution, namely, **C - 800**

and we are also given eliminations ("... not the Bullet, or Express.").

Locate row C and make the eliminations: C - Express, Bullet, 801, 805, 810, 815.

Then for Column **800** - A, B, D, E

and Row **800** - Bullet, Express.

•This next clue: "The Metro (not arriving at 8:15) arrives sometime after the Direct which arrives before the Red-eye."

Lets make the first elimination in Column Metro as follows: **Metro - 815**

The next part of the Clue ("... sometime after the Direct... ") will allow us to make

more eliminations in column **Metro - 800, Direct - 800, 815.**

The last part of the clue ("... Direct arrives before Red Eye") leads to the logical elimination **Metro - 801**
and (more importantly) in column **Red-Eye - 800, 815**, which leads to the solution **Direct - 800**.

From which we make the following eliminations for Column **Direct - 801, 805, 810, 815**.

Finally because we have (from the first clue) **C - 800**, it follows that **Direct - C** must also be true, and we can make the following eliminations (by consequence):

**C - Metro, Red-Eye** (and) in column **Direct - A, B, D, and E**.

- The next clue: "**The Train that arrives on platform D, is at least 10 minutes later than the Train scheduled to arrive on platform B.**"

  This means that the train on Plat. D cannot arrive before 815, (since the one on plat. B can only arrive at 801, or 805,) and by the clue ["... at least 10 minutes later ..."], limits our selection for the train on platform D (to the exclusion of all others), to the solution **D - 815**.

  (This also means we make the following eliminations in rows **B- 810, 815** and **D- 801, 805, 810**), and for column **815 - A, B, E**,

  Then in row **D- Metro, Red-Eye** (because from previous clues we know neither of these arrives at 815).

- The very next clue: "**The Red-eye (arriving before at least 3 other trains) is not scheduled to arrive on platform A.**"

  Lets make the first obvious elimination: **[Red-eye - A.]**

  and since we have "... arriving before at least 3 other..." this means **Red Eye** could not arrive at 805, 810, or 815, so by the logic of elimination, it could only have arrived at 801. Therefore make the eliminations in Column **Red-eye - 805, 810, 815**, followed by eliminations in Row **801- Express, Bullet.**
• Now our next clue states: "The Metro is scheduled for platform E (sometime after 801)."

Here, we are simply given a solution **Metro - E**, which leads to the eliminations starting with Column **Metro - A, B, and D**, and then in Row **E - Express, Bullet, Red-eye, and 801**.

• Finally the last clue is "The Express (arriving on platform A), arrives before only one other Train."

Which yields a solution **Express - A**, (allowing us to eliminate **A - Bullet**), and in Column **Express - B, and D**.

(Now revealing other solutions), beginning with **D - Bullet** and (by consequence) **B - Red-Eye**.

Lastly, we are told the Express is arriving ("... before only one other Train."), which, of course, means **Express could only have arrived at 810**, (which is before only one other train!)

(Which leads to the only remaining solution: **Metro - 805**.)

• Congratulations! Puzzle solved. To summarize:
  A-Express-810.
  B-Red-eye -801.
  C-Direct-800.
  D-Bullet-815.
  E-Metro-805.