Name:	ID:	Section:	

(There is 1 question only. You must answer the complete java code.)

You are deciphering an alien message stored in a 2D array of Strings. However, the aliens have hidden fake symbols containing the letter 'b'. Your mission is to **extract and display only the valid strings from each column, excluding those with the character 'b'**. Write the complete **java code** to perform this task.

[No need to write code for taking array input, use the given array. But your code should work for any value in the array.]

Given Array	Output
<pre>String[][] arr = {</pre>	Column 1: camera over apple Column 2: no valid strings Column 3: tree

— Start your answer below this line —

```
public class AlienMessage {
  public static void main(String[] args) {
       String[][] arr = {
           {"camera", "bat", "tree"},
           {"over", "ball", "banana"},
           {"big", "cab", "blue"},
           {"apple", "bark", "grab"}
       };
       int rows = arr.length;
       int cols = arr[0].length;
       for (int col = 0; col < cols; col++) {</pre>
           String result = "";
           for (int row = 0; row < rows; row++) {</pre>
               if (!arr[row][col].contains("b")) {
                   if (!result.isEmpty()) {
                       result += " ";
                   result += arr[row][col];
               }
           }
           if (!result.isEmpty()) {
               System.out.println("Column " + (col + 1) + ": " + result);
               System.out.println("Column " + (col + 1) + ": no valid strings");
           }
       }
  }
}
```

Name:	 ID:	 Section:	

(There is 1 question only. You must answer the complete java code.)

Archaeologists have discovered an ancient stone tablet covered in mysterious symbols, arranged in a 2D grid. However, some symbols contain a strange marking - represented by the letter 'a' - which corrupts their meaning. To decipher the true message, you must iterate through each row from bottom to top and extract only the valid symbols that do not contain 'a'. Write the complete java code to perform this task. [No need to write code for taking array input, use the given array. But your code should work for any value in the array.]

Given Array	Output		
<pre>String[][] arr = {</pre>	Row 4: sun Row 3: all words corrupted Row 2: light moon Row 1: shine		

— Start your answer below this line —

```
public class AncientSymbols {
   public static void main(String[] args) {
       String[][] arr = {
           {"eagle", "shine", "man"},
           {"light", "ball", "moon"},
           {"bag", "cat", "blank"},
           {"arm", "sun", "water"}
       };
       int rows = arr.length;
       int cols = arr[0].length;
       for (int row = rows - 1; row >= 0; row--) {
           String result = "";
           for (int col = 0; col < cols; col++) {</pre>
               if (!arr[row][col].contains("a")) {
                   if (!result.isEmpty()) {
                       result += " ";
                   result += arr[row][col];
               }
           }
           if (!result.isEmpty()) {
               System.out.println("Row " + (row + 1) + ": " + result);
               System.out.println("Row " + (row + 1) + ": all words corrupted");
           }
       }
  }
}
```