



Hi There!

Please attempt the following problem and send in your solutions to [tambola@roposo.com](mailto:tambola@roposo.com).

Have fun solving it!

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Tambola Ticket generator:

Write a program which prints a sheet (of 6 tickets) of Tambola tickets.

Requirements:

1. Each ticket contains exactly 15 numbers ranging from 1 to 90 in 3x9 matrix (see e.g. output).
2. No number should repeat within a sheet.
3. Every column of each ticket should have at least 1 number, i.e. no column should be completely blank.
4. First column should have numbers from 1..9, second from 10..19, third from 20..29 and so on to the ninth column having numbers from 80..90.
5. Every row should have exactly 5 numbers.
6. All numbers in a column of a ticket must be in increasing order.

Bonus : Extend the program to print a Tambola booklet containing multiple sheets and no two tickets across different sheets should have more than 8 common numbers.

Output Format:

Program should print 6 tickets separated by 2 blank rows each.

Each ticket must be represented by 3 rows of 9 comma separated columns.

Example:

```
1,,20,,42,,64,,86
,11,,32,,55,,72,88
5,,23,,44,57,,77,
```

```
2,,22,33,,51,,81
,12,24,,45,,61,78,
,15,,35,,,62,79,90
```

```
,10,27,30,,,65,71,
4,,,31,40,52,,,80
,13,,34,,58,,76,89
```

```
3,,21,,41,,60,70,
,17,,37,48,,63,,82
9,19,28,,,59,66,,
```

```
,16,,38,43,,67,73,
6,,25,,,50,68,,83
,18,26,,46,56,,,84
```

```
,14,,36,47,,69,85
7,,29,,,53,,74,87
8,,,39,49,54,,75,
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