

TodayTix Group (TTG) Tech Task

Thank you for your interest in TTG. The next step in the process is an opportunity for us to learn more about how you make skills and tools a reality. Please answer the below prompt and submit within 5 business days.

One feature of TodayTix is operating digital lotteries for top-selling shows. TodayTix customers can enter a lottery for a particular show, and our system will select a subset of winners to offer the tickets too. Winners are picked based on the number of tickets that are available.

Describe in a couple of paragraphs one method of implementing a lottery picking system. Feel free to describe in English, in pseudo-code, or both -- however you see fit.

Be creative! We're looking for you to demonstrate that you understand technical concepts and are able to explain them. This could include an algorithm for picking winners, an API design for entering the lottery, a database model, etc.

The screenshot displays the 'LOTTERY TICKETS' section for the show 'Burn This'. At the top, it indicates the lottery opens in 0d 8h 27m 58s. Below this, a section titled 'How Many Guests?' shows a dropdown menu set to '2'. A note states 'Tickets are non-transferable.' The lottery is divided into four parts, each with a checkbox and specific dates and times for Part One and Part Two. The total cost for 2 guests is \$80.00. At the bottom is an 'ENTER NOW' button. To the right, a section titled 'LOTTERY TICKETS' includes a warning that TodayTix and Burn This are thrilled to announce additional access with a daily Lottery for \$20 tickets. It also includes a disclaimer: 'Please note: guests who purchase two Lottery tickets may not be seated together. Lottery winners may also be seated in partial view locations.' Below this are three icons representing the process: 'ENTER THE LOTTERY' (ticket icon), 'WAIT FOR DRAWING' (hourglass icon), and 'CLAIM AND CHECKOUT' (star icon). A 'SET LOTTERY ALERT' button is at the bottom right.

Part	One	Two
1	Wed, Apr 24, 2:00PM EDT	Wed, Apr 24, 7:30PM EDT
2	Thu, Apr 25, 7:30PM EDT	Fri, Apr 26, 7:30PM EDT
3	Sat, Apr 27, 2:00PM EDT	Sat, Apr 27, 7:30PM EDT
4	Sun, Apr 28, 2:00PM EDT	Sun, Apr 28, 7:30PM EDT

WINNINGS FOR:
Total: \$40.00 x 2 Guests \$80.00

ENTER NOW