Assumptions made:

- One co-ordinate/location can only have 1 event.
- An event has 0 or more tickets and all tickets are priced the same for that event.
- There is a random amount of events in the grid. This is generated upon execution of the app.

How might I change my program to support multiple events at the same location?

- I would make use of the linked list data structure for this. The Event object would act as a linked list by referring to other Events in the same location. This will be ideal as the linked list is far more efficient in terms of adding and deleting within the linkedlist compared to arrays. For example:
 - Event A is in location (4,4). Event B and C is also in location (4,4). Thus, Event A would point to event B and Event B would point to Event C.
- The downside of using linkedlist is that it will use more memory compared to arrays although this is a good trade off as with cloud computing is in the rise giving customers more memory to work with.
- To improve this method, you could even use a doubly linkedlist so you'd be able to traverse
 the list of events more quicker because it would allow you to search forwards and
 backwards.

How would you change your program if you were working with a much larger world size?

- I would use data structures that would be the most efficient given the situation. For this I would use a red-black tree structure as it has a general time complexity of log(n).
- I would also use threads on my application and make use of the structures that are catered towards concurrency such as the ConcurrentHashMap found in the concurrency collections package in Java.