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UNIVERSITI
TEKNOLOGI
MARA

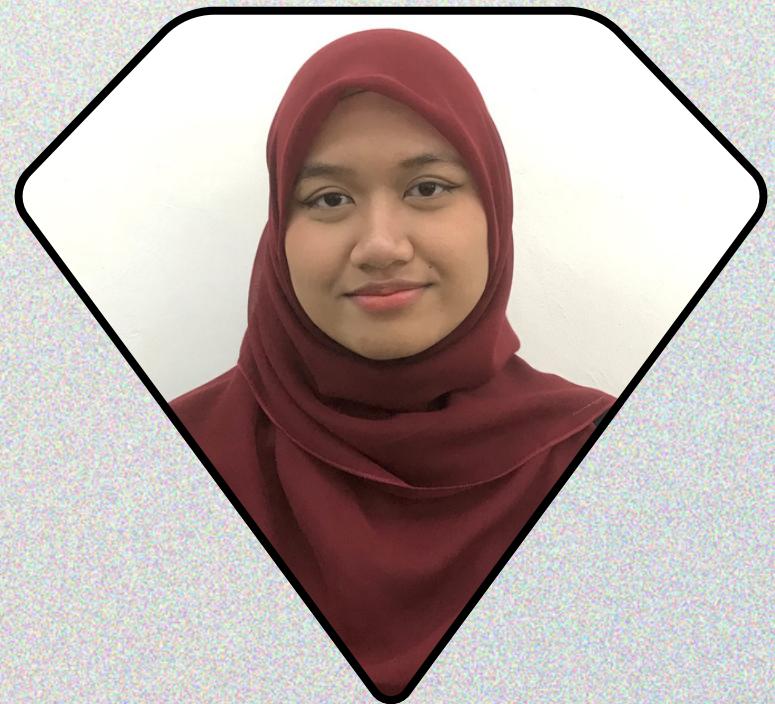
CSC248: FUNDAMENTALS OF DATA STRUCTURE

TICKET MANAGEMENT SYSTEM

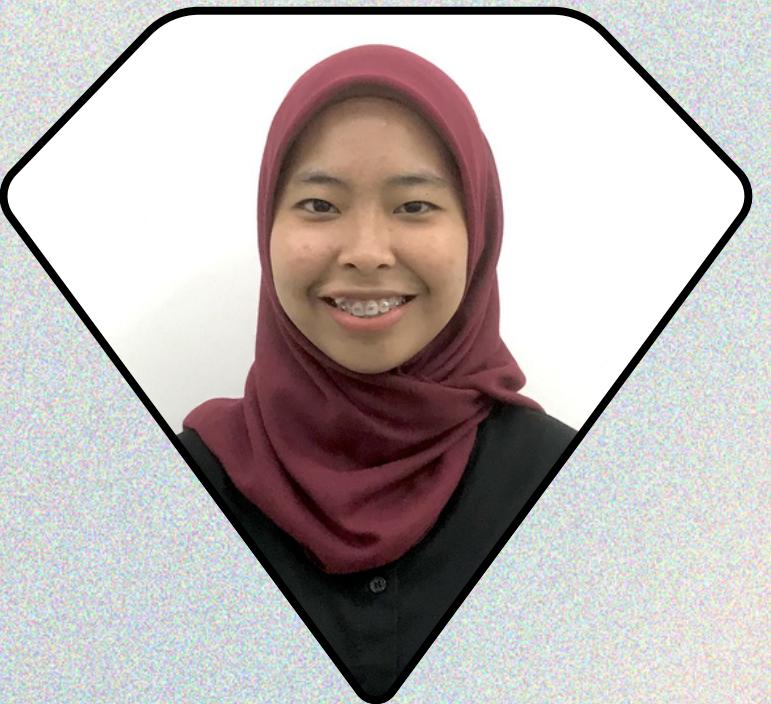
CDCS110 3D (GROUP 1)

Presented for: Madam Zalina bt Ismail

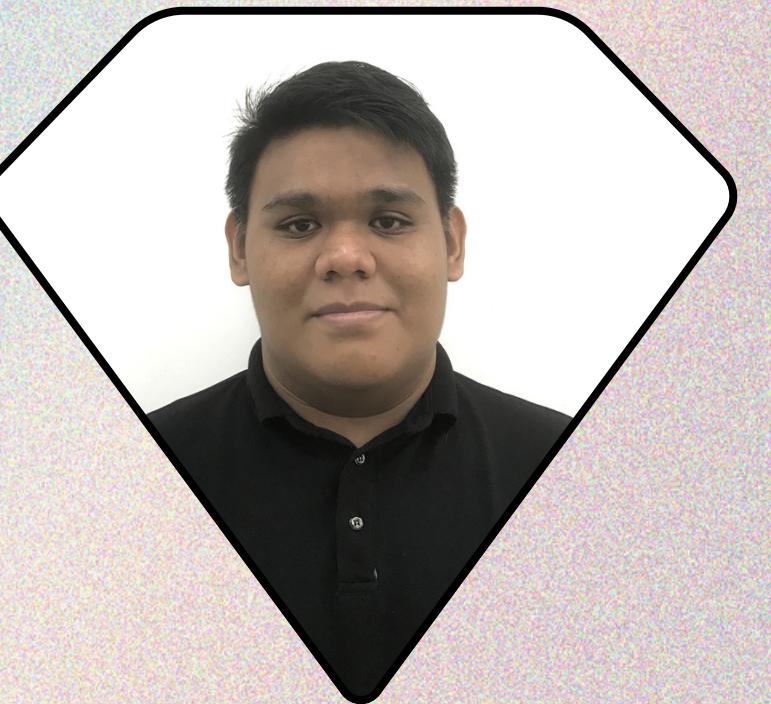
TEAM MEMBERS



Nurin
Iman



Shazwana
Husna



Muhammad
Aidiel



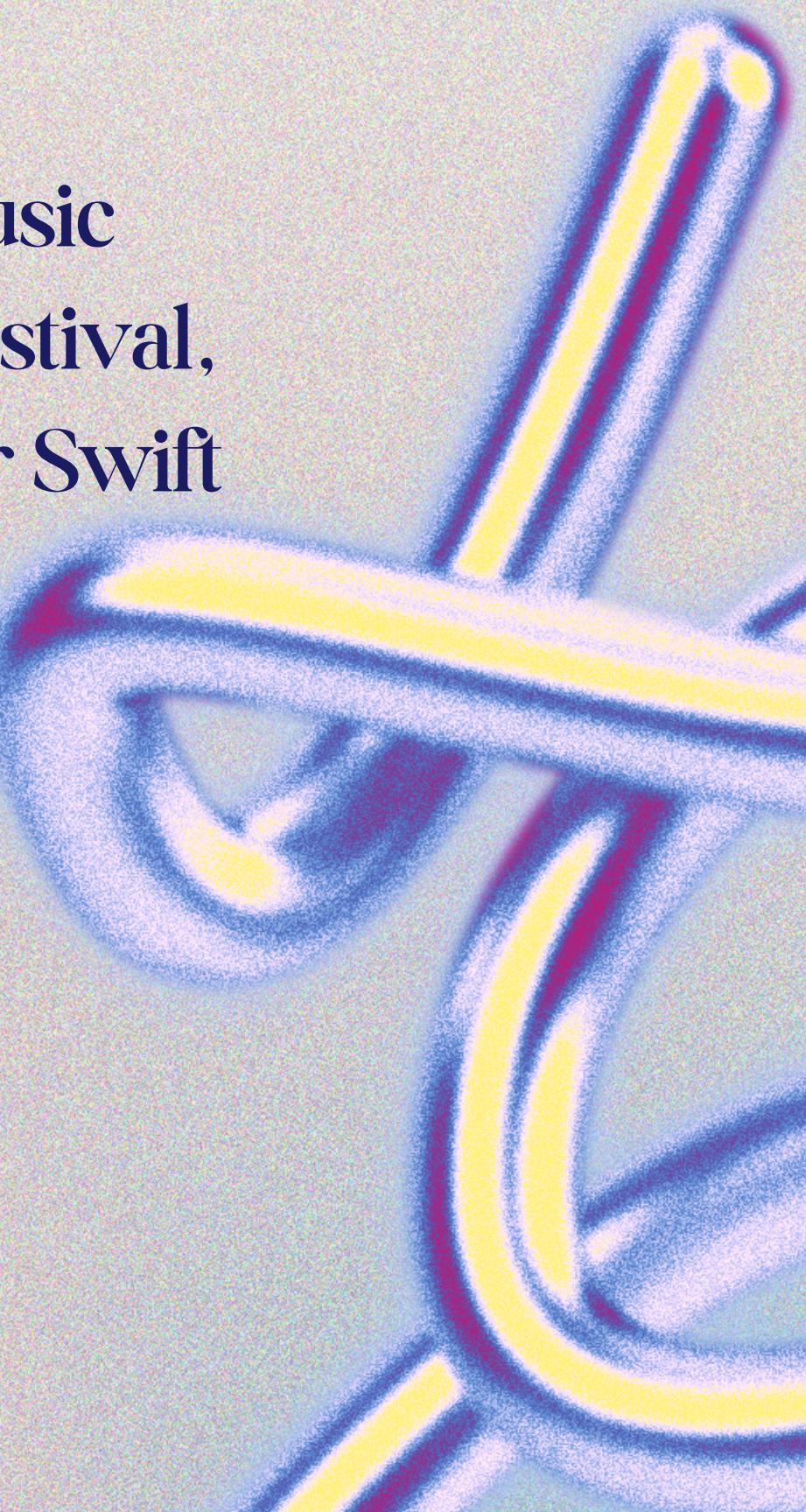
Muhammad
Nazhan

INTRODUCTION TO PROJECT

In this project, we build a ticket management system for a music festival called Mummy Music Festival. In the Mummy Music Festival, there are only three performers invited which is, Mitski, Taylor Swift and Blackpink

Purpose:

- To be utilized by the staff of the festival
- To organize customers' tickets into manageable data
- Allow staff manipulate data by deleting or updating inputs.



In this system:

- We used linked list and queue to draw comparison.
- We include multiple processes that would potentially be essential in the ticket management system.
- We obtained customer's data from an input file
- We use the date of the festival to determine the performers
- We determine pricing based on the selected stage zone that customer wants which is :
 - zone 1 - nearest with stage
 - zone 2 - Basic zone
 - zone 3 - furthest from the stage
- We determine pricing based on the selected ticket category which is VVIP, VIP, Basic and No Concert

DISTRIBUTION OF TEAM MEMBERS

**NURIN IMAN -
LEADER**

- Divide task of each person
- Fix the coding error for each member
- Do the part of LinkedList coding which is the processing of ticket sales. The processing is inserting the data from input file, copy the details of tickets that picked to watch and how to remove the ticket to be more efficient system.

**SHAZWANA
HUSNA**

- Do the class definition
- Do the part of linked list coding which update the ticket with phone number. Not only that, also calculate and display the total price for each ticket. Other than that, display the details of tickets done by the customer.
- Make comments for each coding to make it easier to understand and make the system look more efficient

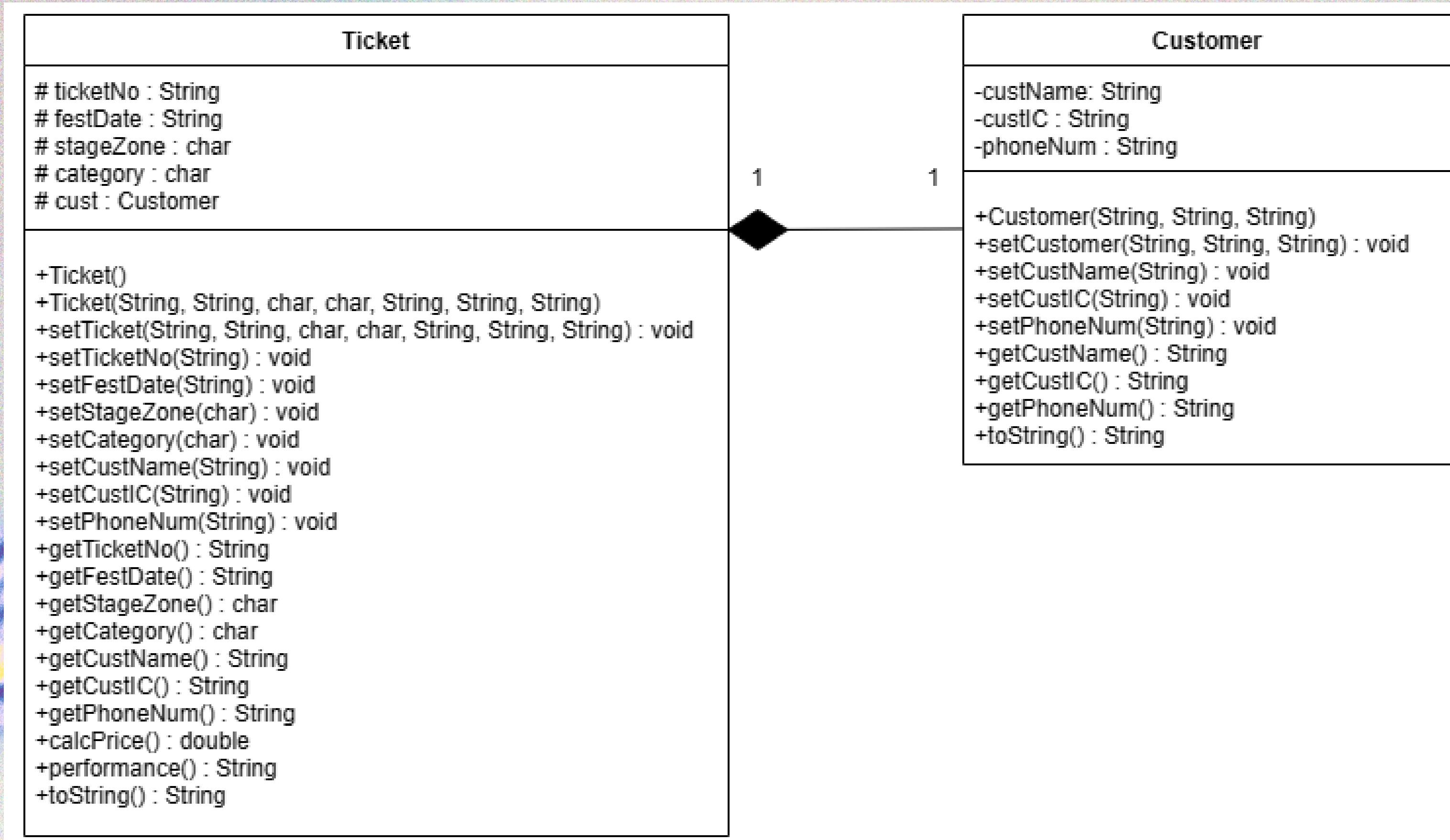
**MUHAMMAD
AIDIEL**

- Edit coding if there is something wrong .
- Do the part of queue coding, create a program that reads ticket details from an input file, processes ticket requests (which include the number of tickets and preferred zones), and copies the details to a queue. Also Display all the current data and the ticket that which concert to watch.

**MUHAMMAD
NAZHAN**

- Do the class definition also.
- Do the part of queue coding to ensure a smooth distribution of tickets. Other than that, use the enqueue and dequeue operations to add ticket or remove ticket and allow people to proceed. Also do the calculate and display the total price.
- Make comments for each coding to make it easier to understand and make the system look more efficient

UML DIAGRAM



LIST OF PROCESSING

1. Insert the data from input file.
2. Copy the details of tickets that picked to watch Mitski into concertMitski, those watch Taylor Swift into concertSwiftie and those that watch BlackPink into concertBp.
3. Display the details of tickets done by the customers that choose VVIP.
4. Update the ticketDate into 03042024 for customer with phone number 0173669682.
5. Display the customer's details in concertMitski.
6. Calculate and display the total price for each ticket.
7. Remove ticket order based on customer name “Aidiel Adha”.

SAMPLE INPUT DATA

```
Siti Nurin*070530141498*0173669682*2334*01042024*1*1
Nur Wana*040904252222*0122344221*1223*03042024*2*2
Aidiel Adha*980402105444*0133432122*0033*03042024*3*3
Nazhan Nazreen*070530231498*0173669862*9987*01042024*1*2
Fiqri Adam*041113222322*0173667482*3535*02042024*2*3
Rihanna Sabrina*980402150334*0133432122*6570*02042024*3*1
Siti Nur Jemah*021231231498*0173669862*9876*01042024*1*3
Mazni Alisa*040523222322*0122344221*1234*03042024*2*1
Siti Nur Sabrina Alesya Annisa*870402150334*0943*0133432122*02042024*3*1
Ahmad Ali*981012141196*0132012622*4372*02042024*2*3
Amirul Razak*150725456789*0198765432*1234*02042024*3*1
Nor Aishah*110502987654*0101234567*7890*01042024*1*3
Wong Tze Schwen*081210123456*0112345678*2345*03042024*2*2
Mohd Faisal*030313876543*0154321098*4321*02042024*2*1
Nurul Amani*170909654321*0134567890*5678*01042024*1*2
Syed Azman*200201345678*0178901234*3456*03042024*2*3
Nor Nafsiri*041203210987*0198765432*8765*02042024*3*2
Tan Ting Zhang*060605432109*0167890123*7890*03042024*3*1
Aina Abdullah*221207876543*0123456789*2345*01042024*1*1
Ismail Ahmad*080802567890*0154321098*5678*03042024*2*2
Nurul Huda*121212123456*0145678901*1234*02042024*2*3
Wong Jia Yi*090507654321*0178901234*3456*01042024*1*2
Azlan Mohamad*110614987654*0167890123*4321*03042024*2*1
Siti Suraya*070704876543*0112345678*7890*02042024*3*3
Ahmad Hakimi*101011234567*0198765432*8765*01042024*1*1
```

25 Sample Input data

Name*IC Number*Number Phone*Ticket ID*Date Concert*Stage Zone*Category

DEMONSTRATION OF PROJECT

