1. Develop a simple program of reservation system for a concert. The specification of the system is as follows.

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- There are three seat types: S type, A type, B type.
- There are four menu for reservation system: Reserve, Search, Cancel, Quit
- For **Reserve** menu, only one seat can be reserved for each reservation. The program should receive the seat type, the name, and the seat number.
- For **Search** menu, all seat statuses are printed.
- For **Cancel** menu, the program should receive the name and cancel the reservation. You need to print the error message for the name that is not reserved.
- If users write invalid menu or invalid seat type or invalid seat number, you need to print the error message.

This is a reservation system for music concert. Reserve: 1, Search: 2, Cancel: 3, Quit: 4 >> 1 Seat Type S(1), A(2), B(3) >> 1Name >> Mike Seat Number >> 1 Reserve: 1, Search: 2, Cancel: 3, Quit: 4 >> 1 Seat Type S(1), A(2), B(3) >> 2 A >> --- --- ---Name >> Tony Seat Number >> 10 Reserve: 1, Search: 2, Cancel: 3, Quit: 4 >> 2 S >> Mike --- --- --- --- --- --- ---A >> --- --- --- --- Tony --- --- ---This is the end of the search. Reserve: 1, Search: 2, Cancel: 3, Quit: 4 >> 3 Seat Type S(1), A(2), B(3) >> 2 A >> --- --- --- --- Tony --- --- ---Name >> Tony Reserve: 1, Search: 2, Cancel: 3, Quit: 4 >> 2 S >> Mike --- --- --- --- --- --- ---B >> --- --- --- --- ---This is the end of the search. Reserve: 1, Search: 2, Cancel: 3, Quit: 4 >> 4 Thank you!

Figure 1: Example Console Window