**Testing Documentation**

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| **Test 1** | |
| **Description** | When user inputs invalid character |
| **Input** | S, a, q |
| **Expected Output** | Enter character, Invalid character, Enter character, Invalid character, Enter character, Thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  S  \*\*\* Invalid character  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  a  \*\*\* Invalid character  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |

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| **Test 2** | |
| **Description** | When user books a seat and quits |
| **Input** | b, Smith, q |
| **Expected Output** | Enter character, Enter your name, Seat, Enter character, Thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  Smith  Seat 0 : Smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |

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| **Test 3** | |
| **Description** | When user cancels a seat after booking |
| **Input** | B, Smith, c, Smith, q |
| **Expected Output** | Enter character, Enter your name, Seat, Enter character, Enter your name, Seat Cancelled, Enter character, Thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  Smith  Seat 0 : Smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  c  Enter your name:  Smith  Seat 0 Cancelled  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |

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| **Test 4** | |
| **Description** | When user cancels a seat without booking |
| **Input** | C, Smith, Q |
| **Expected Output** | Enter character, Enter your name, No seat, Enter character, Thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  C  Enter your name:  Smith  No one with name Smith has a seat in the plane  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  Q  Thank You!! |

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| **Test 5** | |
| **Description** | When user wants to cancel a seat, but no seat is under that name |
| **Input** | B, Smit, b, man, b, woman, b, child, c, dog, Q |
| **Expected Output** | Enter character, enter your name, seat, enter character, enter your name, seat, enter character, enter your name, enter character, enter your name, enter character, enter name, no seat, thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  Smith  Seat 0 : Smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  man  Seat 1 : man  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  woman  Seat 2 : woman  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  child  Seat 3 : child  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  c  Enter your name:  dog  No one with name dog has a seat in the plane  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  Q  Thank You!! |

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| **Test 6** | |
| **Description** | When user wants to print out all the seats |
| **Input** | p |
| **Expected Output** | seats |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  p  Seat 0 :  Seat 1 :  Seat 2 :  Seat 3 :  Seat 4 :  Seat 5 :  Seat 6 :  Seat 7 :  Seat 8 :  Seat 9 :  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  Q  Thank You!! |

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| **Test 7** | |
| **Description** | When user enters invalid character after entering valid characters |
| **Input** | C, smith, s, b, Mill, q |
| **Expected Output** | Enter character, enter name, no one, enter character, enter name, seat, enter character, thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  C  Enter your name:  smith  No one with name smith has a seat in the plane  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  Mill  Seat 0 : Mill  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |

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| **Test 8** | |
| **Description** | When user wants to quit |
| **Input** | Q |
| **Expected Output** | Thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  Q  Thank You!! |

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| **Test 9** | |
| **Description** | When all the seats have been booked |
| **Input** | B, smith, b, mill, b, nick, b, grim, b, Ron, b, harry, b, malfoy, b, Jim, b, duck, B, wolf, b, van, q |
| **Expected Output** | Sorry van, no seat available |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  smith  Seat 0 : smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  mill  Seat 1 : mill  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  nick  Seat 2 : nick  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  grim  Seat 3 : grim  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  Ron  Seat 4 : Ron  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  harry  Seat 5 : harry  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  malfoy  Seat 6 : malfoy  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  Jim  Seat 7 : Jim  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  duck  Seat 8 : duck  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  wolf  Seat 9 : wolf  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  van  van, sorry, no seat available, the plane is Full!  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |

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| **Test 10** | |
| **Description** | Booking seats then printing them |
| **Input** | B, mill, b, hill, b, wolf, P, Q |
| **Expected Output** | Enter character, enter name, seat, enter character, enter name, seat, enter character, enter name, seat, enter character, seats are printed, thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  mill  Seat 0 : mill  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  hill  Seat 1 : hill  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  wolf  Seat 2 : wolf  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  P  Seat 0 : mill  Seat 1 : hill  Seat 2 : wolf  Seat 3 :  Seat 4 :  Seat 5 :  Seat 6 :  Seat 7 :  Seat 8 :  Seat 9 :  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  Q  Thank You!! |

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| **Test 11** | |
| **Description** | When user wants to cancel a seat but enters in uppercase when he entered in small case while booking seat |
| **Input** | B, smith, c, SMITH, Q |
| **Expected Output** | Enter character, enter name, enter character, enter name, enter character, thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  smith  Seat 0 : smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  c  Enter your name:  smith  Seat 0 Cancelled  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |

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| **Test 12** | |
| **Description** | Two people with same names book seat |
| **Input** | B, smith, b, smith, Q |
| **Expected Output** | Enter character, Enter name, Enter character, sorry, Enter name, Enter character, thank you |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  smith  Seat 0 : smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  b  Hello! Enter your name:  smith  Sorry, a seat ia already booked under this name.  Hello! Enter your name:  Smith  Seat 1 : Smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  Q  Thank You!! |

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| **Test 9** | |
| **Description** | Uppercase and lowercase matters |
| **Input** | B, Smith, C, smith, c, Smith, q |
| **Expected Output** | Sorry no seat under the name |
| **Actual Output** | Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  B  Hello! Enter your name:  Smith  Seat 0 : Smith  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  C  Enter your name:  smith  No one with name smith has a seat in the plane  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  c  Enter your name:  Smith  Seat 0 Cancelled  Welcome to Air Canada  Enter what you want to do, (b/B) to book a seat, (c/C) to cancel a seat. (p/P) to print seating arrangement or (q/Q) to quit  q  Thank You!! |