

CSAir Manual Test Plan

1. Running the Program:

- When pressing Run, this Text Menu should appear
 - Key Bindings:
 1. 'x' - Quit Program
 2. 'Menu' - Redisplay Menu
 3. '1' - City Information
 4. '2' - Longest Flight
 5. '3' - Shortest Flight
 6. '4' - Average Flight Distance
 7. '5' - Biggest Population
 8. '6' - Smallest Population
 9. '7' - Average Population
 10. '8' - Hub Cities
 11. '9' - All Cities
 12. '10' - See Route Map

```
/System/Library/Frameworks/Python.framework/Versions/2.6/bin/python2.6 "/Users/ShawnChung/Desktop/Spring 2015/CS242/CSAir/Executor.py"
Welcome to CSAir!
-----
Please Select a Choice or 'x' to quit
Enter 'Menu' to Redisplay Menu
1 - City Information
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10 - See Route Map
```

2. Exit:

- When 'x' is entered "Process finished with exit code 0"

```
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x

Process finished with exit code 0
```

3. Menu:

- When 'Menu' is entered the Menu should be redisplayed

```
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Menu
Welcome to CSAir!

Please Select a Choice or 'x' to quit
Enter 'Menu' to Redisplay Menu
1 - City Information
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|
```

4. City Information:

- When '1' is entered "Enter a country code for data about it:" User is prompted to enter code
- After City Code is entered, city information is displayed

```
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1
Enter a country code for data about it:
LAX
Code: LAX
Name: Los Angeles
Country: US
Continent: North America
Timezone: -8
Coordinates: {u'W': 118, u'N': 34}
Population: 17900000
Region: 1
```

5. Longest Flight:

- When '2' is entered, "From:_____ To:_____ Distance_____" is displayed

```
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2
From:SYD To:LAX Distance:12051
|
```

6. Shortest Flight

- When '3' is entered, "From:____ To:____ Distance:_____" is displayed

```
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Welcome to CSAir!

-----
Please Select a Choice or 'x' to quit
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3
From:WAS To:NYC Distance:334
|
```

7. Average Flight Distance:

- When '4' is entered, "Average Flight Distance:_____" will be displayed

```
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-----
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4
Average flight distance: 2300
```

8. Biggest Population:

- When '5' is entered, "Population: (CityCode, Distance)" are displayed

```
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5
Population: (u'TYO', 34000000)
|
```

9. Smallest Population

- When '6' is entered, "Population: (CityCode, Distance)" is displayed

```
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6
Population: (u'ESS', 589900)
|
```

10. Average Population

- When '7' is entered, "Population: _____" is displayed

```
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7
Population: 11796143
|
```

11. Hub Cities

- When '8' is entered, a list of Hub cities is displayed

```
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8
[u'CAI', u'HKG', u'SHA', u'MEX']
|
```

12. All Cities

- When '9' is entered, a list of all cities is displayed

```
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9
Paris, Code: PAR
Milan, Code: MIL
Miami, Code: MIA
Calcutta, Code: CCU
Lima, Code: LIM
Atlanta, Code: ATL
Beijing, Code: PEK
London, Code: LON
Istanbul, Code: IST
Lagos, Code: LOS
Cairo, Code: CAI
Delhi, Code: DEL
Mumbai, Code: BOM
Bagdad, Code: BGW
New York, Code: NYC
Bogota, Code: BOG
Santiago, Code: SCL
Sao Paulo, Code: SAO
San Francisco, Code: SFO
Jakarta, Code: JKT
Bangkok, Code: BKK
Karachi, Code: KHI
Manila, Code: MNL
Ho Chi Minh City, Code: SGN
Osaka, Code: OSA
Hong Kong, Code: HKG
Buenos Aires, Code: BUE
Taipei, Code: TPE
Essen, Code: ESS
Seoul, Code: ICN
Chicago, Code: CHI
Tehrah, Code: THR
Khartoum, Code: KRT
Shanghai, Code: SHA
Kinshasa, Code: FIH
Washington, Code: WAS
Riyadh, Code: RUH
Tokyo, Code: TYO
St. Petersburg, Code: LED
Sydney, Code: SYD
Algiers, Code: ALG
Moscow, Code: MOW
Toronto, Code: YYZ
Chennai, Code: MAA
Johannesburg, Code: JNB
Los Angeles, Code: LAX
Madrid, Code: MAD
Mexico City, Code: MEX
```

13. See Route Map:

- When '10' is entered, a prompt pops up asking for City Codes separated by '-'

```
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10
Enter City Codes Separated by '-': MEX-SFO
```

- When 'CityCode-CityCode' is entered, your web browser will pop up displaying the path between the two cities that you have specified

