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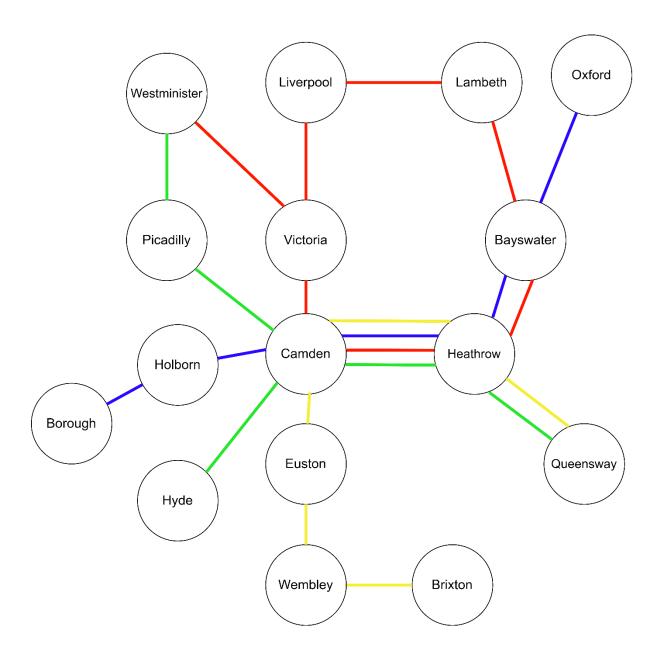
# Testing Document for COIS 3020 Assignment\_1.

(subway map has also been attached separately)

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# Subway Map



# Validating Input for Main

	Test 1	
Description	Testing for invalid option selection	
Input	99	
Expected	"Not a valid option"	
Output		
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Ass	
Output	Not a valid option  Here are your options:  1. Add Station  2. Remove Station  3. Insert Connection  4. Remove Connection  5. Fastest Route between 2 stations  6. Critical Connections  7. Print Connections  8. Print Stations  9. Exit	

	Test 2
Description	Testing for invalid format input
Input	"Foo"
Expected	"Input string was not in a correct format"
Output	
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/
Output	Here are your options:  1. Add Station  2. Remove Station  3. Insert Connection  4. Remove Connection  5. Fastest Route between 2 stations  6. Critical Connections  7. Print Connections  8. Print Stations  9. Exit  Foo  Input string was not in a correct format.

	Test 3
Description	Testing for wrong input when specifying a colour to insert a
	connection(edge).
Input	3, (for inserting a connection) then 5 for invalid colour choice
Expected	"Invalid Choice"
Output	
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Project
Output	Enter Station 1 : A Enter Station 2: B Colour options are; 1.BLUE 2.GREEN 3.RED 4.YELLOW  Please enter the colour(number) you want 5 Invalid choice  Here are your options: 1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit

	Test 4
Description	Testing for wrong input when specifying a colour when
	removing a connection(edge).
Input	4, (for removing a connection) then 5 for invalid colour choice
Expected	"Invalid Choice"
Output	
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_E
Output	Enter Station 1 A
	Enter Station 2
	B Colour options are;
	1.BLUE
	2.GREEN 3.RED
	4.YELLOW
	Please enter the colour(number) you wish to remove
	5 Invalid choice
	Invalld choice
	Here are your options:
	1. Add Station 2. Remove Station
	3. Insert Connection
	4. Remove Connection 5. Fastest Route between 2 stations
	6. Critical Connections
	7. Print Connections 8. Print Stations
	9. Exit

# **Inserting Stations**

	Test 5
Description	Adding a few stations from the Subway map attached
Input	1, for adding stations and 7 to print them
Expected	List of stations that were added.
Output	
Actual	file:///C:/Users/yusuf/OneDrive - Trent Universit
Output	Enter name
	Liverpool
	Liverpool was added
	Here are your options:
	1. Add Station
	2. Remove Station
	3. Insert Connection
	4. Remove Connection
	<ol><li>Fastest Route between 2 stations</li><li>Critical Connections</li></ol>
	7. Print Connections
	8. Print Stations
	9. Exit
	Floring North Conference of the Conference of th
	ille:///C:/Users/yusuf/OneDrive - Trent University/Visu
	Enter name Camden
	Camden was added
	Here are your options:
	1. Add Station
	2. Remove Station
	3. Insert Connection 4. Remove Connection
	5. Fastest Route between 2 stations
	6. Critical Connections
	7. Print Connections
	8. Print Stations 9. Exit
	III file:///C:/Users/yusuf/OneDrive - Trent University/Visua
	Enter name
	Victoria
	Victoria was added
	Here are your options:
	1. Add Station
	2. Remove Station 3. Insert Connection
	4. Remove Connection
	5. Fastest Route between 2 stations
	<ul><li>6. Critical Connections</li><li>7. Print Connections</li></ul>
	8. Print Stations
	9. Exit

file:///C:/Users/yusuf/OneDrive - Trent University/Vis
Liverpool
Camden
Victoria

Here are your options:
1. Add Station
2. Remove Station
3. Insert Connection
4. Remove Connection
5. Fastest Route between 2 stations
6. Critical Connections
7. Print Connections
8. Print Stations
9. Exit

	Test 6	
Description	Trying to add a station which already exists	
Input	1, to add a station and "Liverpool" (again)	
Expected	"Such a station already exists!"	
Output		
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual S	
Output	Enter name Liverpool Sorry, such a station already exists!  Here are your options: 1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit	

	Test 7
Description	Replicating the Subway map attached by adding all the
	stations
Input	Adding all the stations and then entering 7 to print them
Expected	List of all the stations(16)
Output	
Actual	lile:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assig
Output	Liverpool
	Camden Victoria
	Lambeth
	Oxford
	Picadilly Bayswater
	Borough
	Holborn
	Heathrow Hyde
	Euston
	Queensway
	Wembley Brixton
	Westminister
	Here are your options: 1. Add Station
	2. Remove Station
	3. Insert Connection
	<ol> <li>Remove Connection</li> <li>Fastest Route between 2 stations</li> </ol>
	6. Critical Connections
	7. Print Connections
	8. Print Stations 9. Exit
	J. CAIC

# **Adding Connections**

	Test 8
Description	Adding a connection between stations
Input	3, for inserting a connection then selecting 'Camden' and 'Heathrow'
	as the stations' to insert a connection and then Colour Blue for the line
	between them
Expected	"BLUE line was added between Camden and Heathrow"
Output	
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign
Output	Enter Station 1 : Camden
	Enter Station 2: Heathrow
	Colour options are;
	1.BLUE 2.GREEN
	2.GREEN 3.RED
	4.YELLOW
	Please enter the colour(number) you want
	1
	BLUE line was added between Camden and Heathrow
	Here are your options:
	1. Add Station
	2. Remove Station
	3. Insert Connection 4. Remove Connection
	5. Fastest Route between 2 stations
	6. Critical Connections
	7. Print Connections
	8. Print Stations
	9. Exit

	Test 9
Description	Adding a connection between stations
Input	3, for inserting a connection then selecting 'Camden' and 'Heathrow' (again, but different colours )as the stations' to insert a connection and then Colour Green, Red, Yellow for the line between them
Expected	"GREEN,RED,YELLOW, line was added between Camden and
Output	Heathrow"
Actual Output	In file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Project Enter Station 1 : Camden Enter Station 2: Heathrow Colour options are;  1.BLUE 2.GREEN 3.RED 4.YELLOW  Please enter the colour(number) you want 2  GREEN line was added between Camden and Heathrow  Here are your options:  1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit
	If ile:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_ Enter Station 1 : Camden Enter Station 2: Heathrow Colour options are; 1.BLUE 2.GREEN 3.RED 4.YELLOW  Please enter the colour(number) you want 3  RED line was added between Camden and Heathrow  Here are your options: 1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit

```
Enter Station 1: Camden
Enter Station 2: Heathrow
Colour options are;
1.BLUE
2.GREEN
3.RED
4.YELLOW

Please enter the colour(number) you want
4

YELLOW line was added between Camden and Heathrow

Here are your options:
1. Add Station
2. Remove Station
3. Insert Connection
4. Remove Connection
5. Fastest Route between 2 stations
6. Critical Connections
7. Print Connections
8. Print Stations
9. Exit
```

	Test 10
Description	Printing the connections inserted so far. (Camden &
	Heathrow)
Input	7, for printing connections
Expected	List of all the connections in the graph, so far. It will show up
Output	twice because the Graph is undirected.
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012
Output	Camden to Heathrow via [BLUE] line Camden to Heathrow via [GREEN] line Camden to Heathrow via [RED] line Camden to Heathrow via [YELLOW] line Heathrow to Camden via [BLUE] line Heathrow to Camden via [GREEN] line Heathrow to Camden via [RED] line Heathrow to Camden via [YELLOW] line  Here are your options:  1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit

	Test 11
Description	Adding a connection which already exists between two stations
Input	3, for inserting a connection then selecting 'Camden' and 'Heathrow' and trying to insert Colour Blue again
Expected Output	"Sorry, BLUE line already exists between these two stations.
Actual Output	In file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_30:  Enter Station 1 : Camden Enter Station 2: Heathrow Colour options are;  1.BLUE 2.GREEN 3.RED 4.YELLOW  Please enter the colour(number) you want  Sorry, BLUE line already exists with these two stations  Here are your options:  1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit

	Test 12
Description	Adding a connection between a station that doesn't exist.  Zurich doesn't exist in the system
Input	3, for inserting a connection then selecting 'Liverpool' and 'Zurich'.
Expected Output	"Such station/stations don't exist"
Actual Output	file:///C:/Users/yusuf/OneDrive - Trent University/Visual Stu Enter Station 1 : Liverpool Enter Station 2: Zurich Colour options are;  1.BLUE 2.GREEN 3.RED 4.YELLOW  Please enter the colour(number) you want 1 Such station/stations don't exist  Here are your options: 1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit

### **Fastest Route**

	Test 14
Descriptio	Fastest Route (Breadth First Search)
n	
Input	5, for option and, 'Holborn' as my origin and 'Bayswater' as my destination.
	(There are multiple ways to get there but BFS will enable us to find the
	fastest one i.e the first time I hit 'Bayswater', that's the fastest path.
Expected	The fastest route. (I added all the possible lines you can take to, if available,
Output	from a station to another.
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/
Output	Enter Origin
	Holborn Enter Destination
	Bayswater
	Here is your fastest route
	Go from Holborn -> Camden via these connections:
	BLUE
	Go from Camden -> Heathrow via these connections:
	BLUE GREEN
	RED
	YELLOW
	Co from Heathree > Bayayatan wie those corrections
	Go from Heathrow -> Bayswater via these connections: BLUE
	RED
	You will have reached Bayswater in the fastest way possible
	Here are your options:
	1. Add Station
	2. Remove Station
	3. Insert Connection 4. Remove Connection
	5. Fastest Route between 2 stations
	6. Critical Connections
	7. Print Connections
	8. Print Stations
	9. Exit

Expected Output from a stati Actual Output Enter Orig Westminist Enter Dest Heathrow	nore cases, now origin is Westminister & Destination is Heathrow route. (I added all the possible lines you can take to, if available, on to another.  sers/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Ain er
Input Trying for not be a state of the fastest from a state of the fastest from a state of the fastest from a state of the file:///C:/U  Actual Inter Origonal file:///C:/U  Enter Origonal file:///C:/U  Enter Dest Heathrow	route. (I added all the possible lines you can take to, if available, on to another.  sers/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Ain er
Expected Output  Actual Output  Dutput  Inter Original Mestminist Enter Dest Heathrow	route. (I added all the possible lines you can take to, if available, on to another.  sers/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Ain er
Output from a stati  Actual Output File:///C:/U Enter Orig Westminist Enter Dest Heathrow	on to another. sers/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/A in er
Actual Output Enter Orig Westminist Enter Dest Heathrow	sers/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/A in er
Output Enter Orig Westminist Enter Dest Heathrow	in er
Westminist Enter Dest Heathrow	er
Go from We RED  Go from Vi RED  Go from Ca BLUE GREEN RED YELLOW  You will h  Here are y 1. Add Sta 2. Remove 3. Insert 4. Remove 5. Fastest	Station Connection Connection Route between 2 stations l Connections

	Test 16
Description	Fastest Route
Input	Trying for more cases, now origin is Brixton & Destination is Lambeth
Expected	The fastest route. (I added all the possible lines you can take to, if
Output	available, from a station to another). Note: There are multiple ways
	which are both fastest in this example, the program will pick a path that
	first came across to the destination using BFS.
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3
Output	Enter Origin
	Brixton Enter Destination
	Lambeth
	Here is your fastest route
	Go from Brixton -> Wembley via these connections:
	YELLOW
	Go from Wembley -> Euston via these connections: YELLOW
	YELLOW
	Go from Euston -> Camden via these connections:
	YELLOW
	Go from Camden -> Heathrow via these connections:
	BLUE
	GREEN
	RED
	YELLOW
	Go from Heathrow -> Bayswater via these connections:
	BLUE
	RED
	Go from Bayswater -> Lambeth via these connections:
	RED
	You will have reached Lambeth in the fastest way possible

	Test 17
Description	Fastest Route
Input	Trying for more cases, now origin is Oxford & Destination is Hyde
Expected	The fastest route. (I added all the possible lines you can take to, if
Output	available, from a station to another).
Actual	I file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/As
Output	Enter Origin Oxford Enter Destination Hyde
	Here is your fastest route
	Go from Oxford -> Bayswater via these connections: BLUE
	Go from Bayswater -> Heathrow via these connections: BLUE RED
	Go from Heathrow -> Camden via these connections: BLUE GREEN RED YELLOW
	Go from Camden -> Hyde via these connections: GREEN
	You will have reached Hyde in the fastest way possible

	Test 18
Description	Fastest Route & Removing Connection
Input	Trying to calculate a fastest route which doesn't exist due to a
	connection being removed.
	Let's try removing the connection between Camden and
	Hyde(Green) for the moment and input a destination to Hyde.
Farmantani	(This ties in with Critical Connections which shall be next)
Expected	"There is no route you can take to Hyde"
Output	If ile:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020
Actual	Enter Station 1
Output	Camden Enter Station 2
	Hyde Colour options are;
	1.BLUE 2.GREEN
	3.RED 4.YELLOW
	Please enter the colour(number) you wish to remove
	2
	GREEN line was removed between Camden and Hyde
	Here are your options:
	1. Add Station 2. Remove Station
	3. Insert Connection 4. Remove Connection
	5. Fastest Route between 2 stations
	<ul><li>6. Critical Connections</li><li>7. Print Connections</li></ul>
	8. Print Stations 9. Exit
	ll file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects,
	Enter Origin
	Oxford
	Enter Destination
	Hyde There is no route that can take you to Hyde
	There is no route that can take you to hyue
	Here are your options:
	1. Add Station
	2. Remove Station 3. Insert Connection
	4. Remove Connection
	5. Fastest Route between 2 stations
	6. Critical Connections
	<ul><li>7. Print Connections</li><li>8. Print Stations</li></ul>
	8. Print Stations 9. Exit

### **Critical Connections**

	Test 19	
Descriptio	Critical Connections. These are connections between stations(edges), if	
n	removed, will break the Graph/Map into two 2 parts. Like the previous test	
	case where removing a connection meant that we can no longer visit that	
	station	
Input	No input required, just select option 7	
Expected	All the critical connections in the map.	
Output		
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Assign	
Output	Removing these connection/connections will break the map into 2 parts	
	Bayswater <-> Oxford	
	Heathrow <-> Queensway	
	Wembley <-> Brixton	
	Euston <-> Wembley	
	Camden <-> Euston	
	Camden <-> Hyde	
	Holborn <-> Borough	
	Camden <-> Holborn	
	Here are your options:  1. Add Station  2. Remove Station  3. Insert Connection  4. Remove Connection  5. Fastest Route between 2 stations  6. Critical Connections  7. Print Connections  8. Print Stations  9. Exit	

	Test 20
Description	Adding a station and critical connection to test CriticalConnections() again temporarily.
Input	Zurich as the new Station & Victoria and Zurich as the new connection(RED). If
	this connection is removed, it will break the graph in 2 parts
Expected	Zurich and Victoria will show up as a critical a connection.
Output	
Actual	file:///C:/Users/yusuf/OneDrive - Trent University
Output	Liverpool Camden Victoria Lambeth Oxford Picadilly Bayswater Borough Holborn Heathrow Hyde Euston Queensway Wembley Brixton Westminister Zurich  (Zurich has been added, I printed the list of stations).  Westminister to Picaulity via [URCEN] line Zurich to Victoria via [RED] line (Zurich and Victoria connection added, done by printing list of connections)
	### file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Assign1_3020/b  Removing these connection/connections will break the map into 2 parts  Bayswater <-> Oxford  Heathrow <-> Queensway  Wembley <-> Brixton  Euston <-> Wembley  Camden <-> Euston  Camden <-> Hyde  Holborn <-> Borough  Camden <-> Holborn  Victoria <-> Zurich

	Test 21
Description	Adding a back-edge(alternative way to get to Zurich besides
	Victoria) to test CriticalConnection() again.
Input	Adding a connection between Zurich and Bayswater
Expected	Zurich and Victoria or Bayswater and Zurich will NOT show up
Output	as a Critical Connection because there are alternative paths to
	get to Zurich and removing them won't break the graph/map.
Actual	
Output	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_
	Enter Station 1 : Bayswater Enter Station 2: Zurich
	Colour options are; 1.BLUE
	2.GREEN 3.RED
	4.YELLOW
	Please enter the colour(number) you want
	BLUE line was added between Bayswater and Zurich
	Zurich to Bayswater via [BLUE] line
	(printed the connection)
	II file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_3020/Assign1_
	Removing these connection/connections will break the map into 2 parts
	Bayswater <-> Oxford
	Heathrow <-> Queensway
	Wembley <-> Brixton
	Euston <-> Wembley
	Camden <-> Euston
	Camden <-> Hyde
	Holborn <-> Borough
	Camden <-> Holborn
	(Zurich doesn't show up as a Critical Connection as expected).

### **Remove Station**

Test 22	
Description	Testing RemoveStation() by removing Zurich from the
	previous test case
Input	2, to remove Connection and then specifying Colour.
Expected	Zurich will no longer appear when printing the stations as well
Output	as when printing the all the connections.
Actual	lile:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio
Output	Enter name
	Zurich
	Zurich has been removed
	Here are your options:
	1. Add Station
	2. Remove Station
	3. Insert Connection
	4. Remove Connection
	<ol><li>Fastest Route between 2 stations</li></ol>
	6. Critical Connections
	7. Print Connections
	8. Print Stations 9. Exit
	J. EXIC

```
III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign
Camden to Hyde via [GREEN] line
Camden to Holborn via [BLUE] line
Camden to Nortoria via [RED] line
Camden to Picadilly via [GREEN] line
Victoria to Liverpool via [RED] line
Victoria to Camden via [RED] line
Victoria to Westminister via [RED] line
Lambeth to Liverpool via [RED] line
Lambeth to Bayswater via [RED] line
Oxford to Bayswater via [BLUE] line
Picadilly to Westminister via [GREEN] line Picadilly to Camden via [GREEN] line
Bayswater to Lambeth via [RED] line
Bayswater to Oxford via [BLUE] line
Bayswater to Heathrow via [BLUE] line
Bayswater to Heathrow via [RED] line
Borough to Holborn via [BLUE] line
Holborn to Camden via [BLUE] line
Holborn to Borough via [BLUE] line
Heathrow to Camden via [BLUE] line
Heathrow to Camden via [GREEN] line
Heathrow to Camden via [RED] line
Heathrow to Camden via [YELLOW] line
Heathrow to Bayswater via [BLUE] line
Heathrow to Bayswater via [RED] line
Heathrow to Queensway via [GREEN] line
Heathrow to Queensway via [YELLOW] line
Hyde to Camden via [GREEN] line
Euston to Camden via [YELLOW] line
Euston to Wembley via [YELLOW] line
Queensway to Heathrow via [GREEN] line
Queensway to Heathrow via [YELLOW] line
Wembley to Euston via [YELLOW] line
Wembley to Brixton via [YELLOW] line
Brixton to Wembley via [YELLOW] line
Westminister to Victoria via [RED] line
Westminister to Picadilly via [GREEN] line
```

#### (All connection TO and FROM Zurich shall be removed)

```
III file:///C:/Users/yusuf/OneDrive - Trent Universit
```

```
Liverpool
Camden
Victoria
Lambeth
Oxford
Picadilly
Bayswater
Borough
Holborn
Heathrow
Hyde
Euston
Queensway
Wembley
Brixton
Westminister
```

(No Zurich when printing the listing of stations)

Test 23	
Description	Testing Fastest Route by removing a station temporarily.
	After removing a station, there should be no route to that
	station
Input	2, to remove a station, 5 for fastest route between Oxford
Input	, , , , , , , , , , , , , , , , , , ,
	and Hyde
Expected	No route to Hyde
Output	
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio
Output	Enter name
	Hyde Hyde has been removed
	.,
	Here are your options: 1. Add Station
	2. Remove Station
	3. Insert Connection
	4. Remove Connection
	<ol> <li>Fastest Route between 2 stations</li> <li>Critical Connections</li> </ol>
	7. Print Connections
	8. Print Stations
	9. Exit
	file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Proje
	Enter Origin
	Oxford Enter Destination
	Hyde
	No such station/stations exists
	There is no route that can take you to Hyde
	Here are your options:
	1. Add Station
	<ol> <li>Remove Station</li> <li>Insert Connection</li> </ol>
	4. Remove Connection
	5. Fastest Route between 2 stations
	6. Critical Connections 7. Print Connections
	8. Print Stations
	9. Exit

	Test 24
Description	Trying to remove a station which doesn't exist.
Input	2, to remove a station and 'Lusaka' for station to be removed
Expected	'Sorry Lusaka doesn't exist'.
Output	
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studic
Output	Enter name Lusaka Sorry Lusaka doesn't exist  Here are your options:  1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 8. Print Stations 9. Exit

### **Remove Connection**

Test 25		
Description	Trying to remove a connection which doesn't exist.	
Input	4, to remove a connection and then Westminister and Liverpool (In the	
	map and in the system, this connection doesn't exist).	
Expected	No such connection exists between these two stations to remove.	
Output		
Actual	III file:///C:/Users/yusuf/OneDrive - Trent University/Visual Studio 2012/Projects/Assign1_	
Output	Enter Station 1 Westminister	
	Enter Station 2	
	Liverpool Colour options are;	
	1.BLUE	
	2.GREEN	
	3.RED	
	4.YELLOW	
	Please enter the colour(number) you wish to remove	
	No such connection exists between these two stations to remove	
	Here are your options:  1. Add Station  2. Remove Station  3. Insert Connection  4. Remove Connection  5. Fastest Route between 2 stations  6. Critical Connections  7. Print Connections  8. Print Stations  9. Exit	

Test 26		
Description	Trying to remove a connection which does exist between two stations but not one with the Colour specified.	
Input	4, to remove a connection, and then Heathrow and Queensway as stations. (Only yellow and green line exists between them). So we input Red line to be removed.	
Expected Output	No such connection exists between these two stations to remove.	
Actual Output	Heathrow to Queensway via [GREEN] line Heathrow to Queensway via [YELLOW] line  (To show Green & Yellow Line exists between them)	
	(Trying to remove a Red Line)	
	Inter Station 1 Heathrow Enter Station 2 Queensway Colour options are; 1.BLUE 2.GREEN 3.RED 4.YELLOW  Please enter the colour(number) you wish to remove  Here are your options: 1. Add Station 2. Remove Station 3. Insert Connection 4. Remove Connection 5. Fastest Route between 2 stations 6. Critical Connections 7. Print Connections 7. Print Connections 7. Print Stations 9. Exit	