

Analyze Divvy bike ride information using September trip data.
First select option 1 to read and clean the data.

Select a menu option:

1. Select datafile, display rides totals and clean data
2. Display overall trip information
3. Display percentage of members vs. casual riders
4. Display weekday vs weekend usage
5. Extra Credit: find closest station
6. Exit

Your choice --> 2

First read in data by selecting menu option 1

Select a menu option:

1. Select datafile, display rides totals and clean data
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Your choice --> 1

Select datafile:

1. Small subset of data with 14 rides to help create your program
2. Week day vs weekend rides
3. All September 2021 data (not tested in Zybooks)

Your selection--> 1

Total # of trips found in datafile: 13

Total # of trips in clean data: 10

Select a menu option:

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Your choice --> 2

Total # of miles traveled: 13

Average length of trips in miles: 1.3

Longest trip information below:

Trip ID: B465E78B601DB5A8

Trip start location: Broadway & Belmont Ave

Trip end location: Broadway & Thorndale Ave

Trip distance in miles: 3.5

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Your choice --> 3

Casual Rider Percentage: 40.0%

Member Rider Percentage: 60.0%

Select a menu option:

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3. Display percentage of members vs. casual riders
4. Display weekday vs weekend usage
5. Extra Credit: find closest station
6. Exit

Your choice --> 4

Select type of display:

1. Counts of rides per hour in the day
2. Proportional 50 column graph with @ for weekday and + for weekend

Your selection--> **1**

LargestNumberOfRides is: 3

Rides per hour for weekday and weekend:

0:	1	0
1:	0	0
2:	0	0
3:	0	0
4:	0	0
5:	1	0
6:	0	0
7:	0	0
8:	0	0
9:	0	0
10:	1	0
11:	0	0
12:	1	2
13:	0	0
14:	0	0
15:	0	0
16:	0	0
17:	0	0
18:	0	0
19:	0	1
20:	0	3
21:	0	0
22:	0	0
23:	0	0

Select a menu option:

1. Select datafile, display rides totals and clean data
2. Display overall trip information
3. Display percentage of members vs. casual riders
4. Display weekday vs weekend usage
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Your choice --> **4**

Select type of display:

1. Counts of rides per hour in the day
2. Proportional 50 column graph with @ for weekday and + for weekend

Your selection--> **2**

0: @@@@@@@@@@@@@@@@@@

1:

2:

3:

4:

5: @@@@@@@@@@@@@@@@@@

6:

7:

8:

9:

10: @@@@@@@@@@@@@@@@@@

11:

12: @@@@@@@@@@@@@@@@@@

+++++

13:

14:
15:
16:
17:
18:
19:
20: +++++
21: +++++
22:
23:

Select a menu option:

1. Select datafile, display rides totals and clean data
2. Display overall trip information
3. Display percentage of members vs. casual riders
4. Display weekday vs weekend usage
5. Extra Credit: find closest station
6. Exit

Your choice --> 1

Select datafile:

1. Small subset of data with 14 rides to help create your program
2. Week day vs weekend rides
3. All September 2021 data (not tested in Zybooks)

Your selection--> 2

Total # of trips found in datafile: 25887

Total # of trips in clean data: 21634

Select a menu option:

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5. Extra Credit: find closest station
6. Exit

Your choice --> 2

Total # of miles traveled: 29378

Average length of trips in miles: 1.4

Longest trip information below:

Trip ID: ADD6EEF5F6743BE7

Trip start location: Western Ave & Walton St

Trip end location: Burnham Greenway & 105th St

Trip distance in miles: 15.7

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Your choice --> 3

Casual Rider Percentage: 51.3%

Member Rider Percentage: 48.7%

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Your choice --> **4**

Select type of display:

1. Counts of rides per hour in the day
2. Proportional 50 column graph with @ for weekday and + for weekend

Your selection--> **1**

LargestNumberOfRides is: 1317

Rides per hour for weekday and weekend:

0:	66	324
1:	26	245
2:	18	122
3:	7	55
4:	16	36
5:	86	42
6:	301	70
7:	565	144
8:	556	275
9:	382	437
10:	311	671
11:	402	770
12:	495	915
13:	428	852
14:	436	819
15:	602	881
16:	845	876
17:	1317	822
18:	1093	751
19:	821	611
20:	533	461
21:	442	376
22:	305	477
23:	174	375

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Your choice --> **4**

Select type of display:

1. Counts of rides per hour in the day
2. Proportional 50 column graph with @ for weekday and + for weekend

Your selection--> **2**

0:	@@
	+++++
1:	+++++
2:	+++++
3:	++
4:	+
5:	@@@
	+
6:	@@@@@@@@
	++
7:	@@@@@@@@@@@@@@@@
	+++++
8:	@@@@@@@@@@@@@@@@
	+++++
9:	@@@@@@@@

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+++++
10: @@@@@@@@@@
+++++
11: @@@@@@@@@@@@@@
+++++
12: @@@@@@@@@@@@@@@@@
+++++
13: @@@@@@@@@@@@@@@@@
+++++
14: @@@@@@@@@@@@@@@@@
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15: @@@@@@@@@@@@@@@@@@@@@
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16: @@@@@@@@@@@@@@@@@@@@@
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17: @@@@@@@@@@@@@@@@@@@@@@@@@
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18: @@@@@@@@@@@@@@@@@@@@@@@@@
+++++
19: @@@@@@@@@@@@@@@@@@@@@@@@@
+++++
20: @@@@@@@@@@@@@@@@@@@@@
+++++
21: @@@@@@@@@@@@@@@@@
+++++
22: @@@@@@@@@@
+++++
23: @@@@
+++++

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Your choice --> **5**

Input latitude and longitude of the home: **41.92839911055126 -87.64446979389763**

You entered: 41.9 for latitude and -87.6 for longitude

Closest Divvy station is: Clark St & Wrightwood Ave at 41.92949383, -87.6433255, 0.1 miles away.

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Your choice --> **6**