

Homework Set #2 Array Review

1. **UNIQUE METHOD:** Write a method that determines if a string has all unique characters. Be sure to comment your code and to test it with a full set of inputs that show it works for all possible incoming values. NOTE: there are many ways to do this problem. Present as many solutions as you can think of, not just one!
2. Consider the following data from Forbes:

Most Expensive Tours

Tour	Avg Price	Cheapest Ticket/Venue
One Direction	\$674.23	\$54/First Midwest Amphitheatre
The Rolling Stones	\$637.50	\$159/TD Garden
Beyoncé	\$358.97	\$35/Chesapeake Energy Center
Eagles	\$312.25	\$57/Rexall Place
Pink	\$299.90	\$52/Verizon Arena-Little Rock
Paul McCartney	\$273.73	\$49/Safeco Field
Fleetwood Mac	\$270.29	\$59/BB&T Center
Depeche Mode	\$263.30	\$33/DTE Energy Music
Bruno Mars	\$250.56	\$48/Scottrade Center
Black Sabbath	\$227.95	\$33/First Midwest Bank Amphitheatre
Justin Timberlake	\$221.88	\$40/Ford Field
Justin Bieber	\$214.12	\$14/Scotiabank Place
Taylor Swift & Ed Sheeran	\$214.03	\$58/Bridgestone Arena
John Mayer	\$208.09	\$37/Desert Sky Pavilion
Dave Matthews Band	\$202.53	\$47/DTE Energy Center
Lil Wayne	\$193.51	\$33/First Niagara Pavilion
Rush	\$192.04	\$29/Time Warner Cable Pavilion
Bon Jovi	\$191.68	\$25/MetLife Stadium
Matchbox 20	\$182.69	\$25/Farm Bureau Live

Create a one-dimensional array holding the cheapest ticket price data. Write a method to compute each of the following:

1. The average cheapest ticket price
2. The maximum ticket price
3. The minimum ticket price
4. The median ticket price– half the values fall below the median; half above

DISCUSSION: How would you do these same things if you wanted to keep the name of the tour associated with the ticket data? Research this topic and present as many different solutions as you can think of. If you have time, code the solutions.

REMINDER: There is one more part to complete the full homework set for the week. Look in the Final Project folder and solve the EPA API problem posted there. Include that code as well as answers to the questions asked in ONE final pdf document that you will submit for homework

ONE MORE REMINDER: You are welcome to work with the online tutors to solve this set ! Go to them with a plan however; try to solve the problem first. If you can't get started at all, come to the discussion board to ask for help ok ?