Use per\_capita\_income.csv file to do the following instructions.

1. Sort it in the descending order of the income
2. Display the first five rows and last five rows.
3. Use the appropriate function to calculate the global mean of 'Income per Capita'.
4. Use the appropriate function to calculate the global median of 'Income per Capita'.
5. Using broadcasting, create a new column 'Income per Capita (,000)'equal to income['Income per Capita'] // 1000. Then use the appropriate function to calculate the mode for this new column.