**Does a household with a large population have a higher per capita income level than a household with a small population?**

**Description:**

The state encourages people to have children, which is good for the country's economic development. But for the family, will it have the same effect? Therefore, I want to see if the larger the family population, the higher the per capita income level?

**Data:**

NHANES 2015-2016 Demographics Data

**Variables:**

DMDHHSIZ(Total number of people in the Household)

INDHHIN2(Total household income (reported as a range value in dollars))

**Analysis:**

According to the classification of the family population, calculate point estimates and confidence intervals separately.

The per capita income is sorted by the number of family members from small to large, and the graph is drawn. See if there is a significant increase or decrease trend.

If the above analysis, there is no obvious conclusion. Try to create a new variable to divide the number of households into three categories: small, medium, and high. According to the new variable, repeat the above steps to find the relationship between the number of households and the level of per capita income.

**Software:**

R, R studio