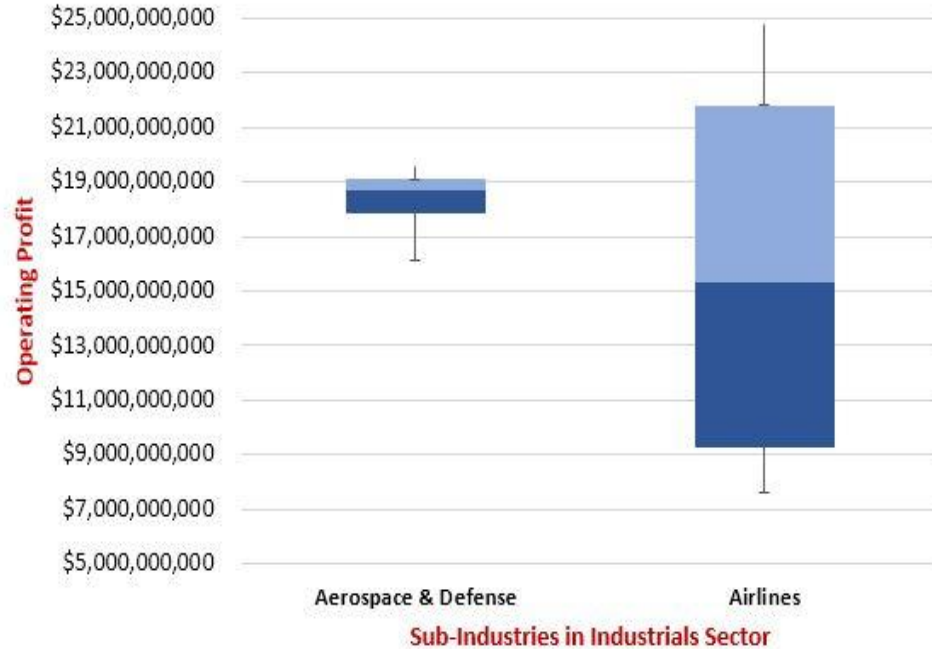


# ***Analyze NYSE Data***

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## Does the Operating Profit of Aerospace & Defense Industry Vary from Airlines Industry in the Industrials Sector throughout the 4 Years?

**Operating Profit in Aerospace & Defense and Airlines Industries in Industrials Sector throughout the 4 Years**



Here is boxplot illustrating the distribution range of the operating profit for Aerospace & Defense and Airlines Industries reported for Industrials sector for all 4 years.

In Aerospace & Defense Industry, the mean is less than the median. Therefore, the distribution is left-skewed. While the distribution in Airlines Industry is right-skewed as the mean is higher than the median.

According to the graph, 25% of the operating profit in Airlines Industry is more than \$21.7 billion compared to the operating profit generated by Aerospace & Defense Industry (more than \$19 billion) for the same.

The mean for Aerospace & Defense Industry's operating profit is about \$18.2 billion, which is higher than the mean for Airlines Industry (about \$15.7 billion). Same as the mean, the median for Aerospace & Defense (\$18.6 billion) is greater than the median of Airlines (\$15.3 billion). The interquartile range of the operating profit in Airlines Industry is \$12.5 billion while in Aerospace & Defense is \$1.2 billion. That means, the variability in generating the operating profit of Airlines companies is much more higher than Aerospace & Defense companies for all 4 years.