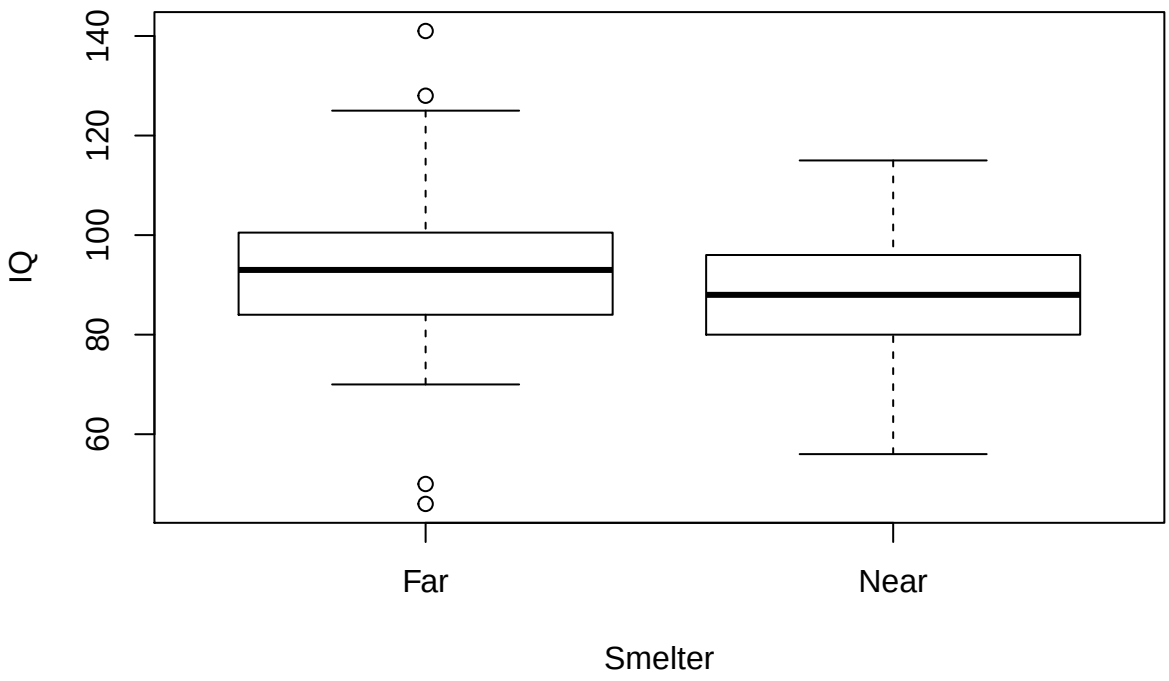
# Lead IQ data set description

Jiayuan Shi

2022-10-07

```
library(knitr)
dataset=read.csv('C:/UCHealth/FALL 2022/BIOS 6621 Statistical Consulting I/Week 6/lead-iq-01.csv')
dataset$IQ[which(dataset$IQ == 999)] <- 99
boxplot(IQ ~ Smelter, data = dataset)
```




```
kable(table(dataset$IQ, dataset$Smelter))
```

| | Far | Near |
|---|---|---|
| 46 | 1 | 0 |
| 50 | 1 | 0 |
| 56 | 0 | 1 |

| | Far | Near |
|---|---|---|
| 70 | 1 | 0 |
| 71 | 0 | 1 |
| 72 | 2 | 0 |
| 73 | 0 | 1 |
| 74 | 0 | 1 |
| 75 | 1 | 2 |
| 76 | 3 | 3 |
| 77 | 1 | 2 |
| 78 | 1 | 1 |
| 79 | 2 | 0 |
| 80 | 2 | 4 |
| 82 | 1 | 1 |
| 83 | 1 | 1 |
| 84 | 0 | 1 |
| 85 | 3 | 4 |
| 86 | 3 | 2 |
| 87 | 1 | 1 |
| 88 | 1 | 5 |
| 89 | 2 | 2 |
| 90 | 1 | 0 |
| 91 | 1 | 3 |
| 92 | 3 | 1 |
| 93 | 2 | 1 |
| 94 | 3 | 1 |
| 95 | 0 | 1 |
| 96 | 4 | 4 |
| 97 | 3 | 0 |
| 98 | 1 | 1 |
| 99 | 3 | 1 |
| 100 | 2 | 0 |
| 101 | 3 | 1 |
| 102 | 1 | 0 |
| 104 | 2 | 2 |
| 105 | 1 | 1 |
| 106 | 0 | 1 |
| 107 | 2 | 2 |
| 108 | 1 | 0 |
| 111 | 1 | 1 |
| 112 | 0 | 1 |
| 114 | 0 | 1 |
| 115 | 1 | 1 |
| 118 | 1 | 0 |
| 120 | 1 | 0 |
| 125 | 1 | 0 |
| 128 | 1 | 0 |
| 141 | 1 | 0 |

```
mean(dataset$IQ)
```

```
## [1] 91.08065
```

The boxplot shows the IQ levels by location status. The table displays the frequency of the IQ levels by

location status from the dataset.