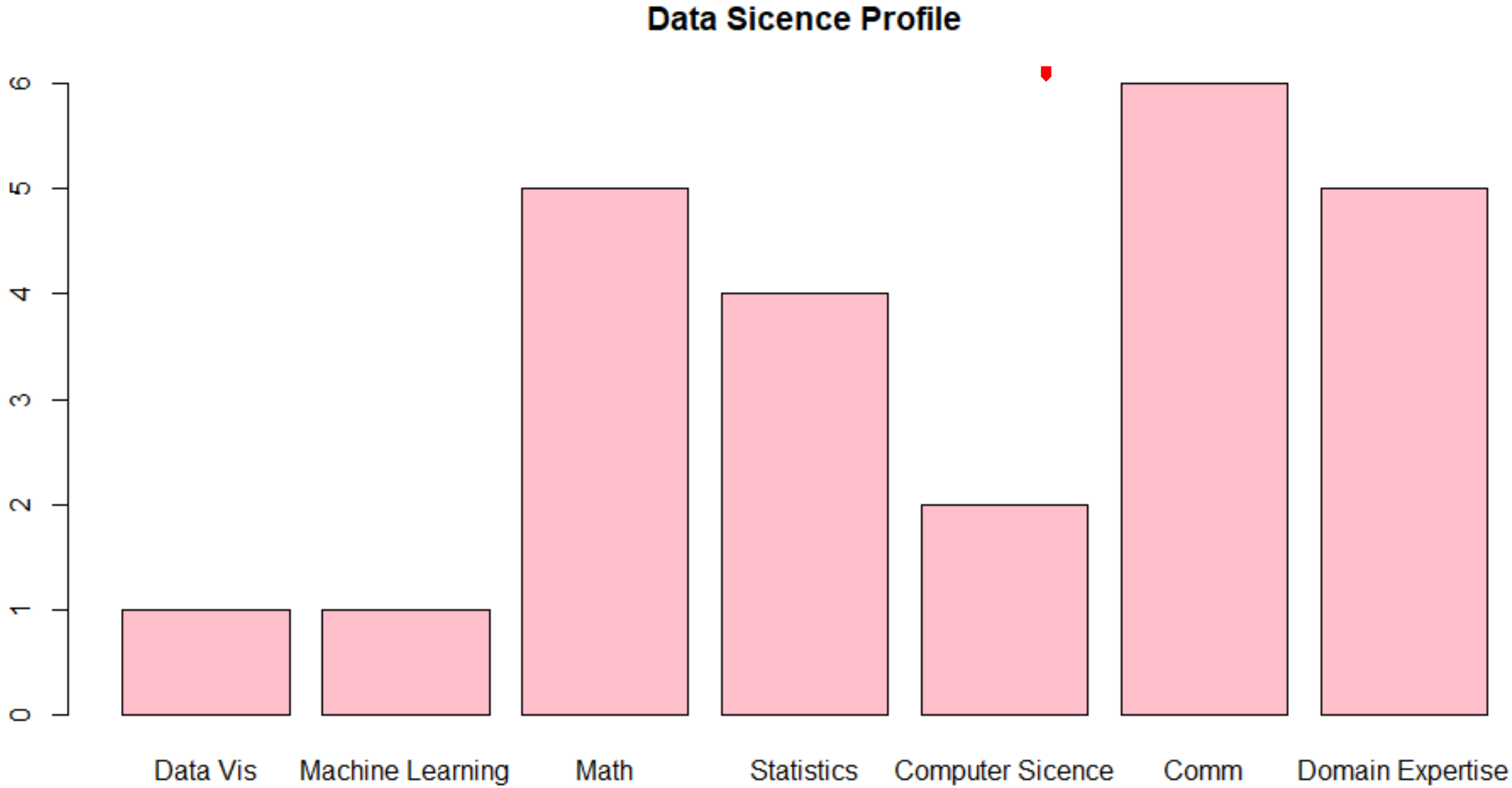
Data Sicence Profile
0
1
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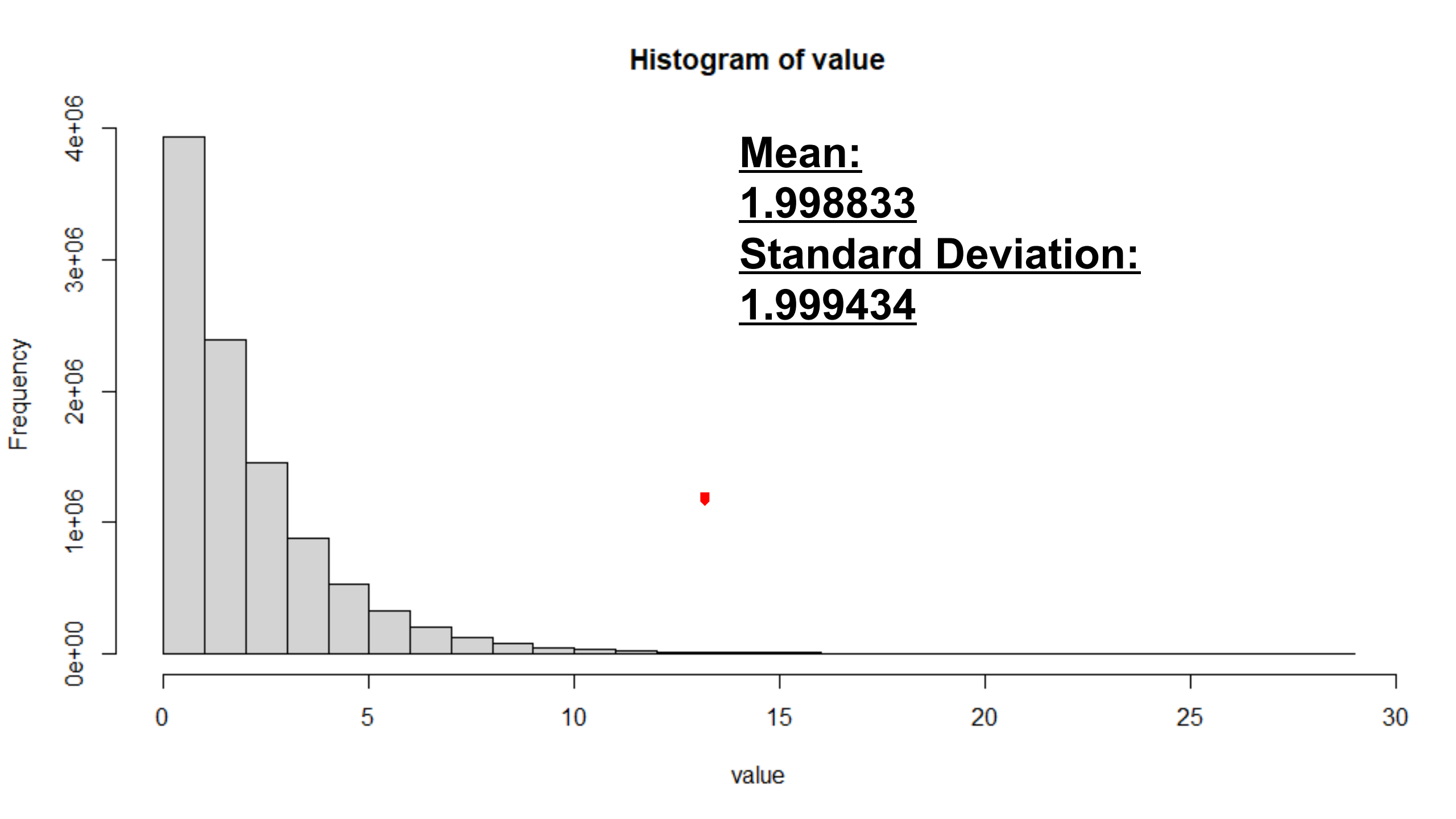
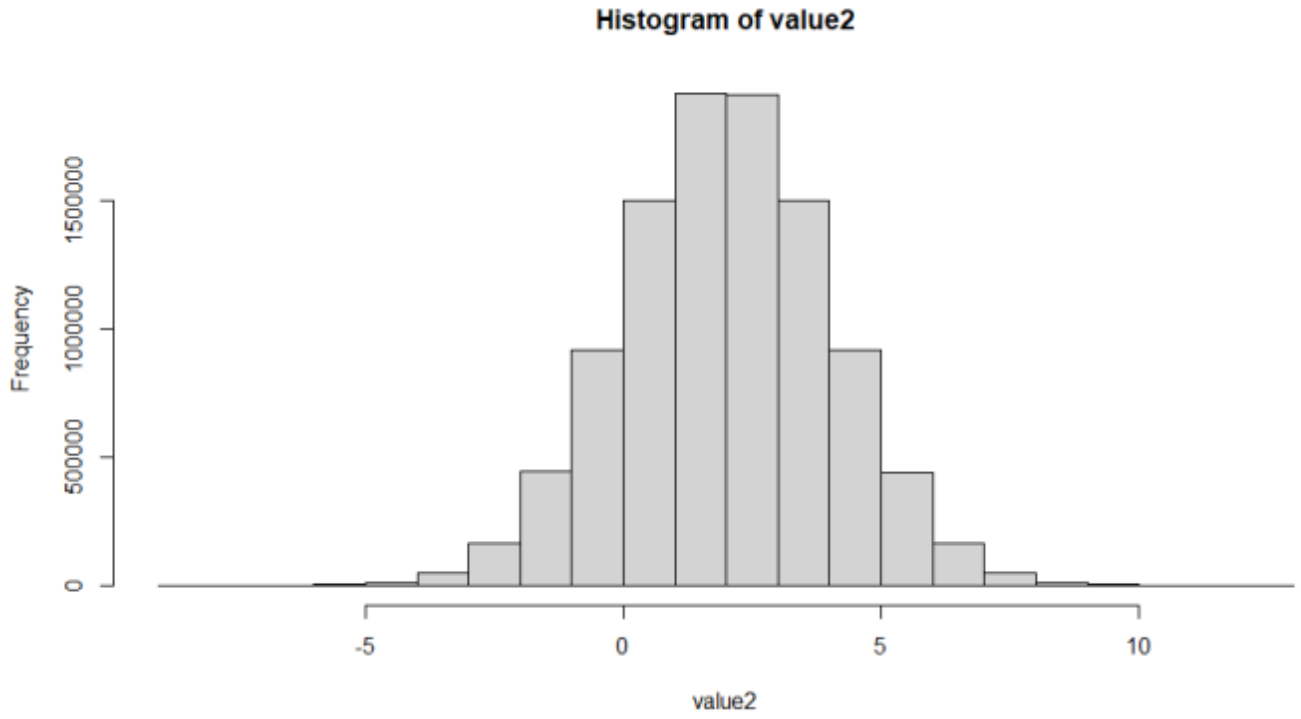
Data Vis
Machine Learning
Math
Statistics
Computer Sicence
Comm
Domain Expertise

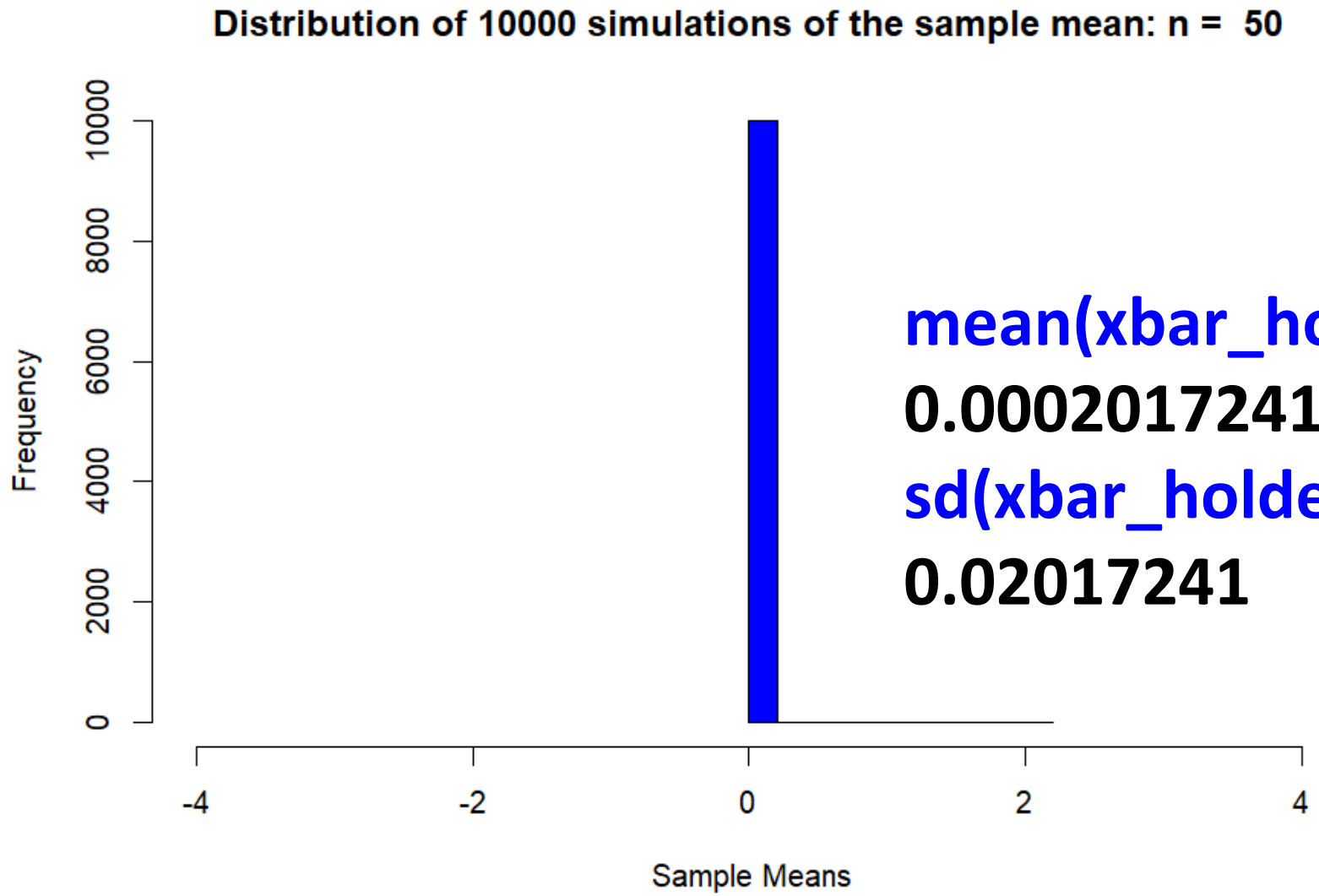

Histogram of value
Frequency
0e+00
1e+06
2e+06
3e+06
4e+06
0
5
10
15
20
25
30
value
Mean:
1.998833
Standard Deviation:
1.999434

According to the central limit theorem, what should be the approximate distribution of sample means of size 50 from this right skewed population? What should be the mean and standard error of the mean (standard deviation of the distribution of sample means)?

Answer:
It should be a normal distribution when n=50

Xbar=1.998971
S=1.998734





mean(xbar_holde) [1]
0.0002017241 >
sd(xbar_holder1) [1]
0.02017241

T-Test

Step 1: Establish Hypothesis
H0: $\bar{x}=21$, H1: $\bar{x}\neq 21$

Step 2: Find Critical level
df=6, 95%condifence level, t=2.447

Step 3: Test Statistics
t = 3.3093

step 4: find p value
p-value = 0.01622

step5: conclusion
Fail to reject H0

Step 6: Explanation
There is not enough evidence suggesting that the mean of the patron passing the bay is equal to 21

Takeaways and/or Questions:

1. How to adjust space between variables in a bar plot.
2. How to store for loop values in the xbarholder?
3. Xbar=xbarholder[l] seems to return "0" on 10000 of my simulations