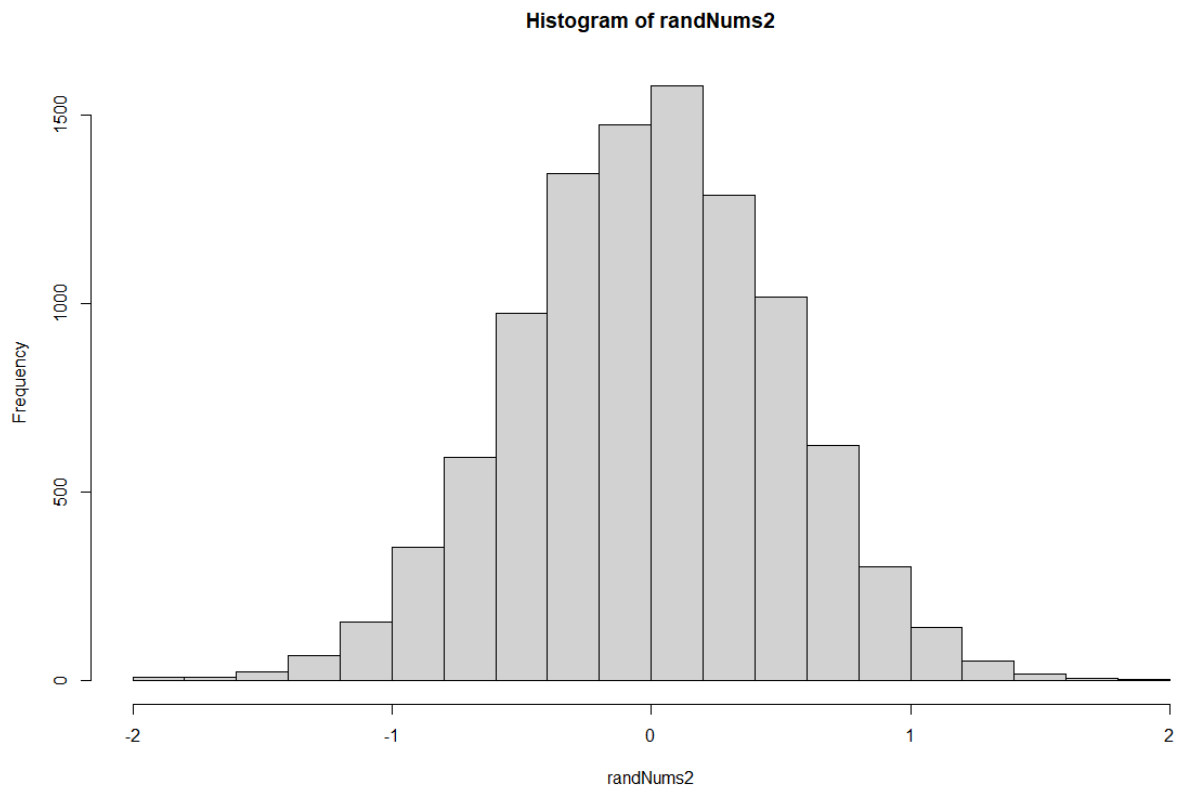
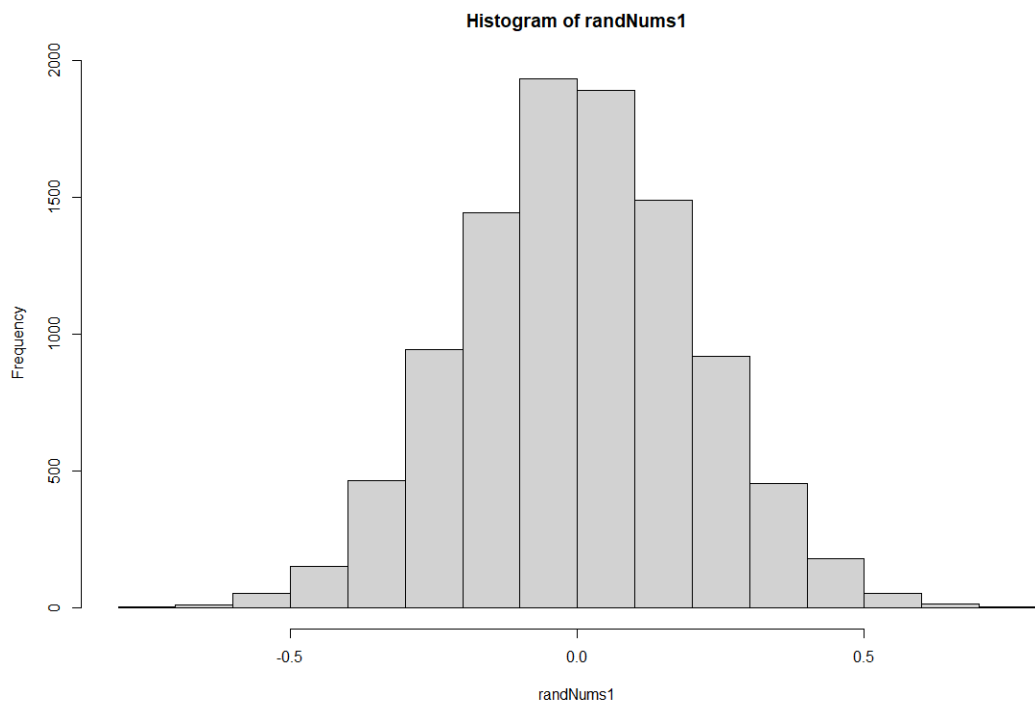
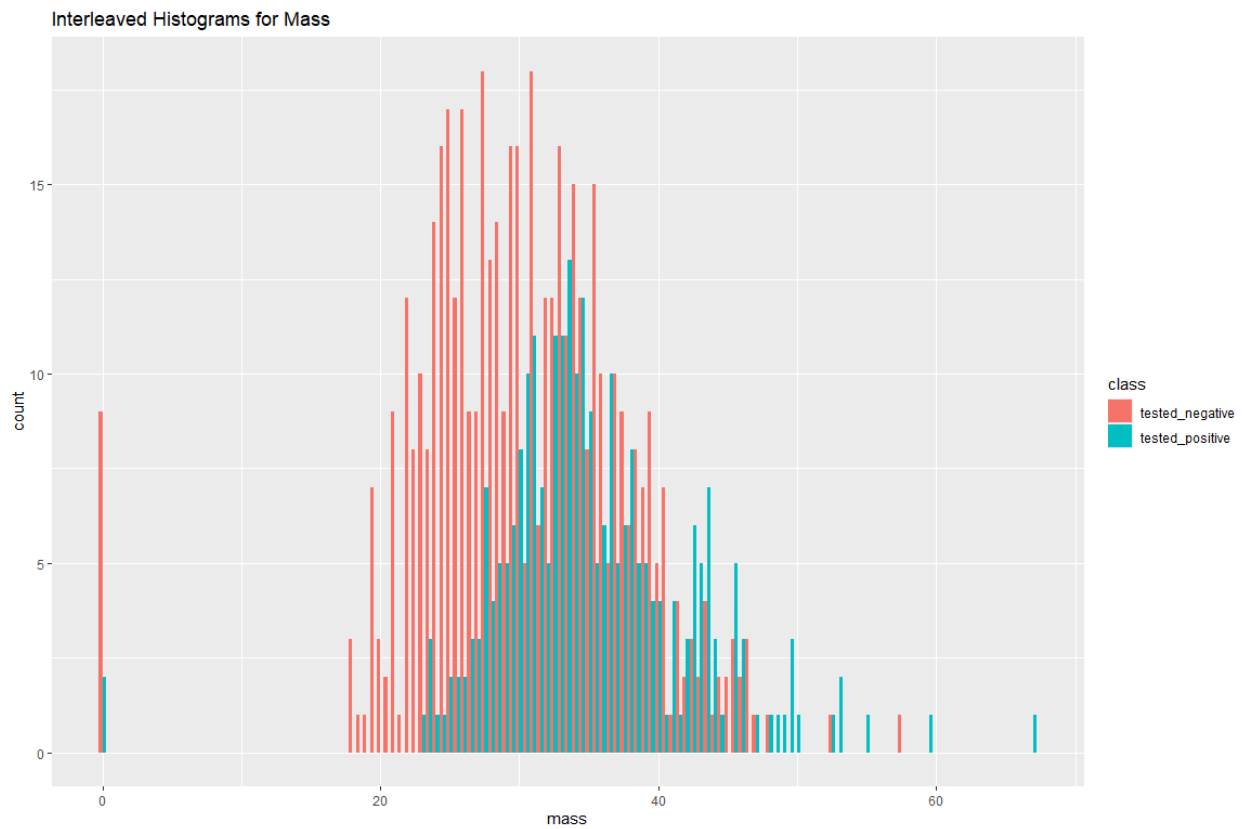
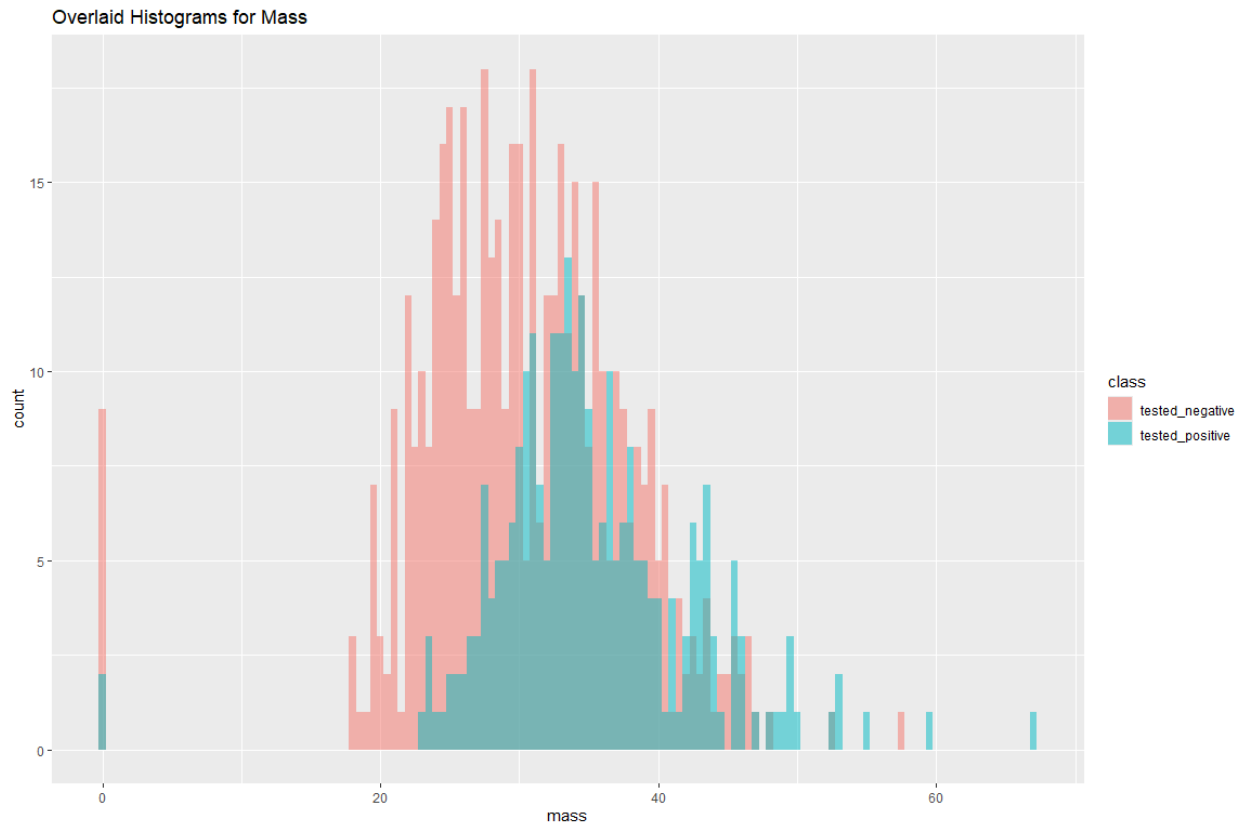
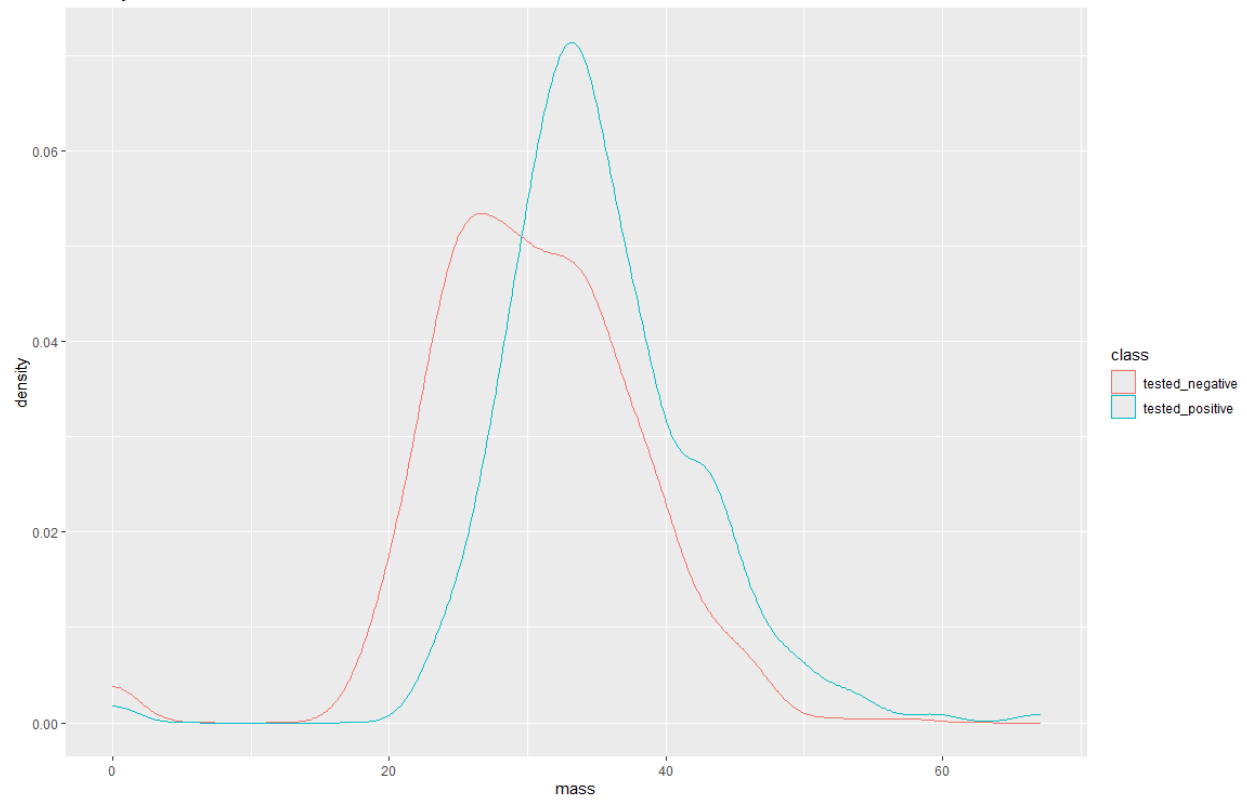


PLOTS

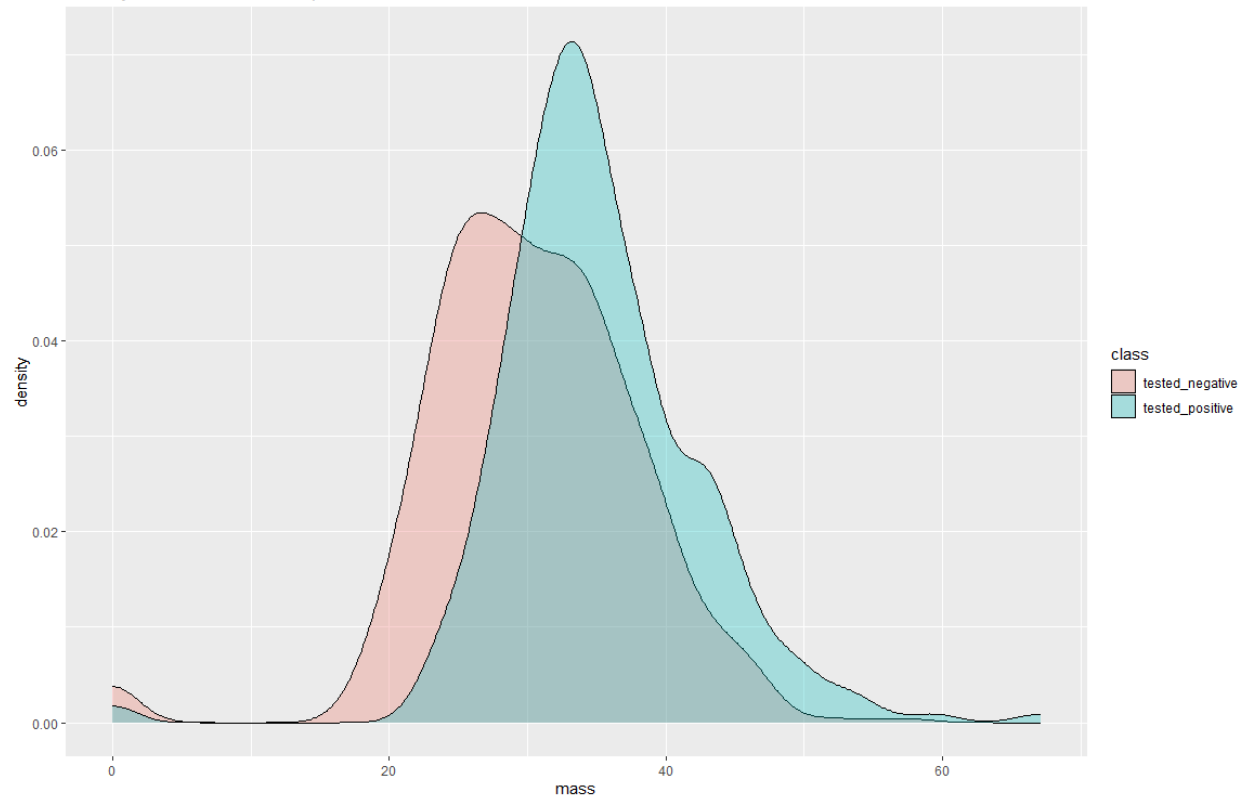




Density Plots for Mass



Density Plots with Semitransparent Fill for Mass



OUTPUT

```
[1] "Summary after dropping missing values:"
  X      PassengerId  Survived  Pclass
Min.   : 0.0      Min.   : 1.0    Min.   :0.0000   Length:714
1st Qu.:221.2    1st Qu.:222.2    1st Qu.:0.0000   Class :character
Median :444.0    Median :445.0    Median :0.0000   Mode  :character
Mean   :447.6    Mean   :448.6    Mean   :0.4062
3rd Qu.:676.8    3rd Qu.:677.8    3rd Qu.:1.0000
Max.   :890.0    Max.   :891.0    Max.   :1.0000

  Ticket      Fare      Cabin      Embarked
Length:714    Min.   : 0.00   Length:714   Length:714
Class :character 1st Qu.: 8.05   Class :character
Mode  :character Median :15.74   Mode :character
              Mean  :34.69
              3rd Qu.:33.38
              Max.  :512.33

[1] "First few rows of male passengers:"
  X PassengerId Survived Pclass      Name Sex Age SibSp Parch Ticket   Fare Cabin Embarked
1 0           1         0      3 Braund, Mr. Owen Harris male  22   1   0 A/5 21171  7.2500    S
2 4           5         0      3 Allen, Mr. William Henry male  35   0   0 373450  8.0500    S
3 5           6         0      3 Moran, Mr. James male   NA   0   0 330877  8.4583    Q
4 6           7         0      1 McCarthy, Mr. Timothy J male  54   0   0 17463 51.8625  E46    S
5 7           8         0      3 Palsson, Master. Gosta Leonard male  2   3   1 349909 21.0750    S
6 12          13         0      3 Saunderson, Mr. William Henry male  20   0   0 A/5. 2151  8.0500    S

[1] "First few rows arranged by descending Fare:"
  X PassengerId Survived Pclass      Name Sex Age SibSp Parch Ticket   Fare Cabin Embarked
1 258          259         1      1 Ward, Miss. Anna female  35   0   0 PC 17755 512.3292    C
2 679          680         1      1 Cardeza, Mr. Thomas Drake Martinez male  36   0   1 PC 17755 512.3292 B51 B53 B55    C
3 737          738         1      1 Lesurer, Mr. Gustave J male  35   0   0 PC 17755 512.3292    B101    C
4 27           28         0      1 Fortune, Mr. Charles Alexander male  19   3   2 19950 263.0000 C23 C25 C27    S
5 88           89         1      1 Fortune, Miss. Mabel Helen female  23   3   2 19950 263.0000 C23 C25 C27    S
6 341          342         1      1 Fortune, Miss. Alice Elizabeth female  24   3   2 19950 263.0000 C23 C25 C27    S

[1] "First few rows with the new column FamSize:"
  X PassengerId Survived Pclass      Name Sex Age SibSp Parch Ticket   Fare Cabin Embarked FamSize
1 0           1         0      3 Braund, Mr. Owen Harris male  22   1   0 A/5 21171  7.2500    S      1
2 1           2         1      1 Cumings, Mrs. John Bradley (Florence Briggs Thayer) female  38   1   0 PC 17599 71.2833  C85    C      1
3 2           3         1      3 Heikinen, Miss. Laina female  26   0   0 STON/O2. 3101282  7.9250    S      0
4 3           4         1      1 Futrelle, Mrs. Jacques Heath (Lily May Peel) female  35   1   0 113803 53.1000  C123    S      1
5 4           5         0      3 Allen, Mr. William Henry male  35   0   0 373450  8.0500    S      0
6 5           6         0      3 Moran, Mr. James male   NA   0   0 330877  8.4583    Q      0

[1] "summary statistics grouped by Sex:"
# A tibble: 2 x 3
  Sex      meanFare numSurv
<chr>      <dbl>    <int>
1 female      44.5      233
2 male       25.5      109

[1] "Percentiles of the skin attribute:"
10% 30% 50% 60%
0 10 23 27
```

QUESTIONS

Comment on how these histograms are different from each other and state the reason:

The histogram plot for randnums1 is taller and narrower than randnums2 because the standard deviation is smaller and the numbers are centered more around the mean of zero.