```
R version 3.4.2 (2017-09-28) -- "Short Summer"
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Platform: x86_64-apple-darwin15.6.0 (64-bit)

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  Natural language support but running in an English locale

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[R.app GUI 1.70 (7434) x86_64-apple-darwin15.6.0]

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> length
function (x)  .Primitive("length")
> cd44kd_length=c(286.29,
+ 120.33,
+ 151.44,
+ 140,
+ 177.87,
+ 241.29,
+ 185.26,
+ 218.81,
+ 210.97,
+ 170.19,
+ 319.19,
+ 143.78,
+ 207.45,
+ 188.57,
+ 129.87);
> normal_flow_day5=c(227.58,
+ 223.98,
+ 187.74,
+ 303.96,
+ 141.46,
+ 275.19,
+ 260.27,
+ 189.44,
+ 195.16,
+ 169.04,
```

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+ 180.5,
+ 189.7,
+ 181.56,
+ 175.05,
+ 178.38);
> t.test(cd44kd_length, normal_flow_day5)

    Welch Two Sample t-test

data:  cd44kd_length and normal_flow_day5
t = -0.67203, df = 26.453, p-value = 0.5074
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -50.75598  25.72931
sample estimates:
mean of x mean of y
 192.7540  205.2673

> blebbi_length=c(259.63,
+ 160.65,
+ 201.86,
+ 159.49,
+ 203.89,
+ 148.26,
+ 170.97,
+ 203.06,
+ 254.9,
+ 145.92,
+ 193.46,
+ 142.41,
+ 237.77,
+ 171.25,
+ 186.54);
> t.test(blebbi_length, normal_flow_day5)

    Welch Two Sample t-test

data:  blebbi_length and normal_flow_day5
t = -1.0545, df = 27.368, p-value = 0.3009
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -46.90543  15.04543
sample estimates:
mean of x mean of y
 189.3373  205.2673

> inner_diameter_flow_day5=c(12.91,
+ 11.16,
+ 15.64,
+ 9.07,
+ 11.45);
```

```
> outer_diameter_flow_day5=c(19.93,
+ 17.57,
+ 28.9,
+ 23.51,
+ 25.96);
> inner_diameter_flow_cd44kd=c(10.35,
+ 6.52,
+ 7.84,
+ 7.72,
+ 6.52);
> outer_diameter_flow_cd44kd=c(17.28,
+ 18.1,
+ 24.59,
+ 17.64,
+ 12.53);
> inner_diameter_flow_blebbi=c(6.04,
+ 7.54,
+ 9.34,
+ 9.92,
+ 8.05);
> outer_diameter_flow_blebbi=c(14.05,
+ 19.57,
+ 18.75,
+ 16.41,
+ 15.58);
> t.test(inner_diameter_flow_day5,inner_diameter_flow_cd44kd)

    Welch Two Sample t-test

data:  inner_diameter_flow_day5 and inner_diameter_flow_cd44kd
t = 3.2911, df = 6.8257, p-value = 0.01377
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 1.182182 7.329818
sample estimates:
mean of x mean of y
   12.046     7.790

> t.test(inner_diameter_flow_day5,inner_diameter_flow_blebbi)

    Welch Two Sample t-test

data:  inner_diameter_flow_day5 and inner_diameter_flow_blebbi
t = 3.0094, df = 6.7407, p-value = 0.02059
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 0.8049063 6.9310937
sample estimates:
mean of x mean of y
   12.046     8.178
```

```
> t.test(outer_diameter_flow_day5,outer_diameter_flow_cd44kd)

    Welch Two Sample t-test

data:  outer_diameter_flow_day5 and outer_diameter_flow_cd44kd
t = 1.8391, df = 7.976, p-value = 0.1033
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -1.309931 11.601931
sample estimates:
mean of x mean of y
   23.174    18.028

> t.test(outer_diameter_flow_day5,outer_diameter_flow_blebbi)

    Welch Two Sample t-test

data:  outer_diameter_flow_day5 and outer_diameter_flow_blebbi
t = 2.7737, df = 5.8828, p-value = 0.03294
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
  0.7155673 11.8884327
sample estimates:
mean of x mean of y
   23.174    16.872

>
```