IT24102544
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Lab 09

```
 2
 3  ##Part 1
 4
 5  x <- rnorm(25, mean = 45, sd = 2)
 6  x
 7
 8  ##Part 2
 9  t.test(x, mu = 46, alternative = "less")
10
```

```
> x <- rnorm(25, mean = 45, sd = 2)
> x
 [1] 44.61071 47.32872 43.71784 46.35186 42.86374 45.07070 48.02207 46.05688 45.63001 45.707
[11] 45.36114 45.91221 45.61028 47.79257 42.64930 46.75889 47.02418 45.00744 45.03741 43.883
[21] 45.40361 39.61695 48.28272 44.66690 42.88692
> t.test(x, mu = 46, alternative = "less")

        One Sample t-test

data:  x
t = -1.9276, df = 24, p-value = 0.03291
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 45.91571
sample estimates:
mean of x
 45.25019
```

Values

x	num [1:25] 44.3 46.5 46.3 42.3 44.4 ...