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> # Exercise: baking time (reproducible)
> set.seed(12345)
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>
> # i) generate sample
> bake_time <- rnorm(25, mean = 45, sd = 2)
> print(bake_time)
 [1] 46.17106 46.41893 44.78139 44.09301 46.21177 41.36409 46.26020 44.44763 44.43168 43.16136
[11] 44.76750 48.63462 45.74126 46.04043 43.49894 46.63380 43.22728 44.33684 47.24143 45.59745
[21] 46.55924 47.91157 43.71134 41.89373 41.80458
>
> # ii) one-sample t-test: H0 mu=46 vs Ha mu<46
> t_result <- t.test(bake_time, mu = 46, alternative = "less", conf.level = 0.95)
> t_result

        One Sample t-test

data:  bake_time
t = -2.6514, df = 24, p-value = 0.006988
alternative hypothesis: true mean is less than 46
95 percent confidence interval:
     -Inf 45.64444
sample estimates:
mean of x
 44.99765
```