


```

      Ha: mean < 100          Ha: mean != 100          Ha: mean > 100
Pr(Z < z) = 0.9999          Pr(|Z| > |z|) = 0.0003          Pr(Z > z) = 0.0001

. ztesti 144 104.7361 15.60437 100, level(99.9)

One-sample z test
-----+-----
      |      Obs      Mean    Std. Err.   Std. Dev. [99.9% Conf. Interval]
-----+-----
      x |      144      104.7361    1.300364    15.60437    100.4572    109.015

      mean = mean(x)                                z =    3.6421
Ho: mean = 100

      Ha: mean < 100          Ha: mean != 100          Ha: mean > 100
Pr(Z < z) = 0.9999          Pr(|Z| > |z|) = 0.0003          Pr(Z > z) = 0.0001

. mean pdi

Mean estimation              Number of obs   =           143

-----+-----
      |      Mean    Std. Err.   [95% Conf. Interval]
-----+-----
      pdi |      94.78322    1.325531    92.16289    97.40354

. mean mdi

Mean estimation              Number of obs   =           144

-----+-----
      |      Mean    Std. Err.   [95% Conf. Interval]
-----+-----
      mdi |      104.7361    1.300364    102.1657    107.3065

. cmd close
command cmd is unrecognized
r(199);

. cmdlog close
(cmdlog /Users/yushujiang/Desktop/EC0220/Labs/Problemset5/Analysis/jiang_ps5.do cl
> osed)

. log close
      name: <unnamed>
      log: /Users/yushujiang/Desktop/EC0220/Labs/Problemset5/Analysis/jiang_ps5.
> log
      log type: text
      closed on: 5 Nov 2018, 21:47:34
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```