```
> #1. If Z is norm (mean = 0, sd = 1)
> #find P(Z > 2.64)
> pnorm(2.64)
[1] 0.9958547
> \#P(Z > 2.64) = 0.9958547
> #find P(|Z| > 1.39
> 2 *pnorm(-abs(2.64))
[1] 0.008290603
> #Suppose p = the proportion of students who are admitted to the graduate sc
hool
> #of the University of California at Berkeley, and suppose that a public rel
> #officer boasts that UCB has historically had a 40% acceptance rate for its
graduate
> #school. Consider the data stored in the table UCBAdmissions from 1973. Ass
uming
> #these observations constituted a simple random sample, are they consistent
with the
> #officerâ..s claim, or do they provide evidence that the acceptance
> #rate was significantly less than 40%?
  # Use an \hat{I} \pm = 0.01 significance level.
> UCBAdmissions
, , Dept = A
          Gender
Admit
           Male Female
  Admitted
            512
                    89
                    19
  Rejected
           313
, , Dept = B
          Gender
Admit
           Male Female
  Admitted
            353
                    17
  Rejected
           207
                     8
, , Dept = C
          Gender
Admit
           Male Female
                   202
  Admitted
            120
           205
                    391
  Rejected
, place{ Dept = D }
          Gender
Admit
           Male Female
  Admitted
            138
                   131
  Rejected 279
                   244
, , Dept = E
          Gender
Admit
           Male Female
             53
  Admitted
                    94
                   299
  Rejected
            138
, pept = F
          Gender
Admit
           Male Female
  Admitted
             22
                    24
           351
                    317
  Rejected
```