P=+he prop. of a grad. students that want campus housing Ho: p= .10 bon't need move housing
Ha: p>10 Recommend move housing

p = 62 = 13

cond.

SRS from pop. of interest

problem States round. problem states random sample of grad. students. V

 $\sigma_{p} = \sqrt{\frac{10(1-10)}{481}} = .0137 \cdot np \ge 10$  and  $n(1-p) \ge 10$  $Z = \frac{.13 - .10}{-0.137} = (2.19) \begin{array}{c} 481(.10) \ge 10 & 481(.90) \ge 10 \\ 48.1 \ge 10 & 432.9 \ge 10 \end{array}$ 

Pr (Z > 211) = -0173= p-value

The p-value of .0173 is sign. @ 2=.05. there is enough evid. to reject Ho. I would recommend building more housing.

interpret po-value:



where .13 or greater want housing,

if Ho tetrue Forly . 10want housing.

$$N=500$$
  $p=\frac{62}{481}=.13$  reject @  $X=.05$ 
 $19$  Aid Notlesp.

 $p=\frac{62}{481}=.13$  reject @  $X=.05$ 
 $p=\frac{62}{500}=.124$ 
 $Z=1.79$ 
 $p-value=0.368$ 

No.

