Your Name:		
Names of pe	ople you worked with:	

- 1. What is your favorite book of all time?
- 2. What is the hardest topic that will be on next week's exam?
- 3. An ANOVA-like test was run (to compare the means of three classes) on data from 5221 genes.

Use each of the Bonferroni and Holm methods to identify which (if any) genes would be considered significant at a FWER of 0.05. The p-values are sorted, and the top 15 most significant genes are shown here. Are any significant at a FWER of 0.05?

	p-value	Unique ID	Description
1	3.6e-06	YLL047W	Yll047wp,XII
2	6e-06	YNL058C	Ynl058cp,XIV
3	3.51e-05	YAL064W	Yal064wp,I
4	5.59 e-05	YKL164C	Protein containing tandem internal repeats,XI
5	7.03e-05	YLR312C	Ylr312cp,XII
6	0.0001675	YLR194C	Ylr194cp,XII
7	0.0003151	YMR046C	TyA Gag protein.,XIII
8	0.0003532	YNR057C	dethiobiotin synthetase,XIV
9	0.0003674	YCR041W	Ycr041wp,III
10	0.0003982	YOL092W	Yol092wp,XV
11	0.0004571	YDR473C	snRNP from U4/U6 and U5 snRNPs,IV
12	0.0005199	YOR306C	Yor306cp,XV
13	0.0006831	YGR153W	Tos10p,VII
14	0.000764	YPR099C	Ypr099cp,XVI
15	0.000806	YCR101C	Ycr101cp,III

Solution:

3. Only the first two would be significant at FWER of 0.05, using either method.

	p-value	Bonferroni	Holm	Unique ID	Description
1	3.6e-06	0.0187956	0.0187956	YLL047W	Yll047wp,XII
2	6e-06	0.031326	0.03132	YNL058C	Ynl058cp,XIV
3	3.51 e-05	0.1832571	0.1831869	YAL064W	Yal064wp,I
4	5.59 e-05	0.2918539	0.2916862	YKL164C	Protein containing tandem internal repeats,XI