Basic Code Complexity Analysis Report

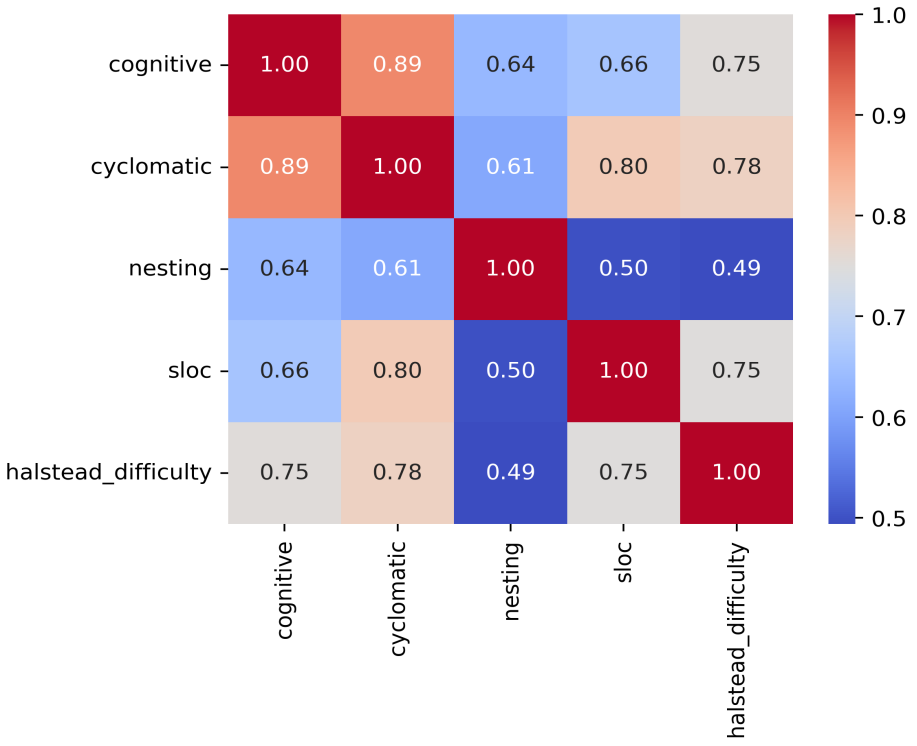
Descriptive Statistics

Description	sloc	nesting	cognitive	cyclomatic	halstead_difficulty
File count	36.0	36.0	36.0	36.0	36.0
Mean	42.889	2.694	5.111	4.528	55.168
Std	34.444	1.546	9.867	5.511	38.518
Min	6.0	1.0	0.0	0.0	12.444
25%	18.0	2.0	0.0	1.0	23.331
50%	32.5	2.0	1.0	2.0	52.824
75%	56.5	3.25	6.25	5.25	69.08
Max	145.0	7.0	42.0	27.0	196.302

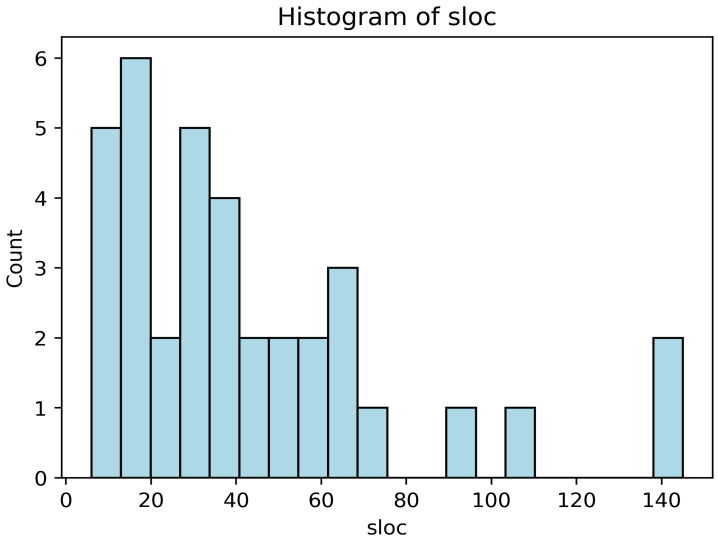
Correlation Matrix

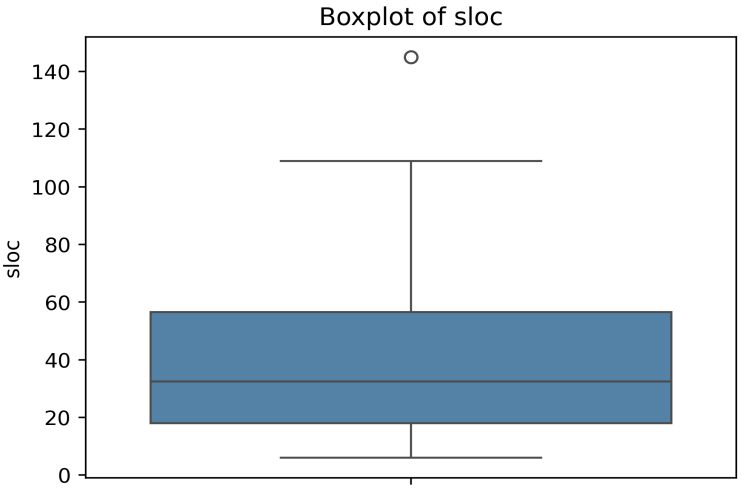
Description	cognitive	cyclomatic	nesting	sloc	halstead_difficulty
cognitive	1.0	0.894	0.635	0.657	0.752
cyclomatic	0.894	1.0	0.61	0.797	0.783
nesting	0.635	0.61	1.0	0.498	0.494
sloc	0.657	0.797	0.498	1.0	0.749
halstead_difficulty	0.752	0.783	0.494	0.749	1.0

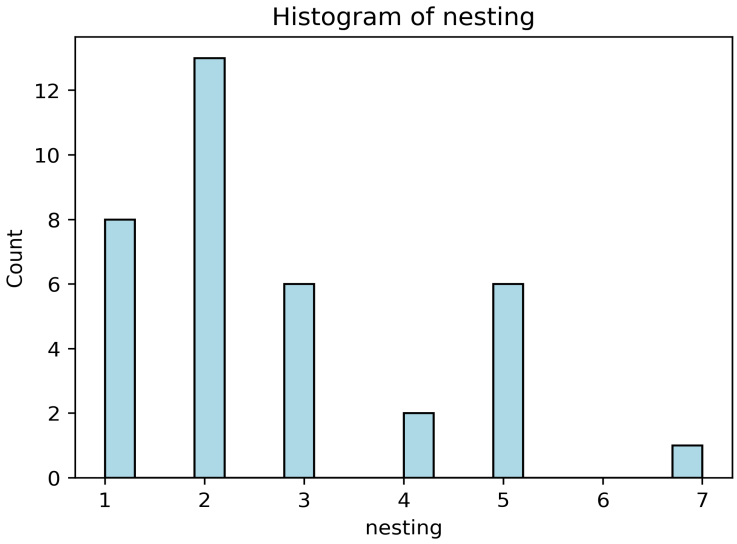
Correlation Heatmap

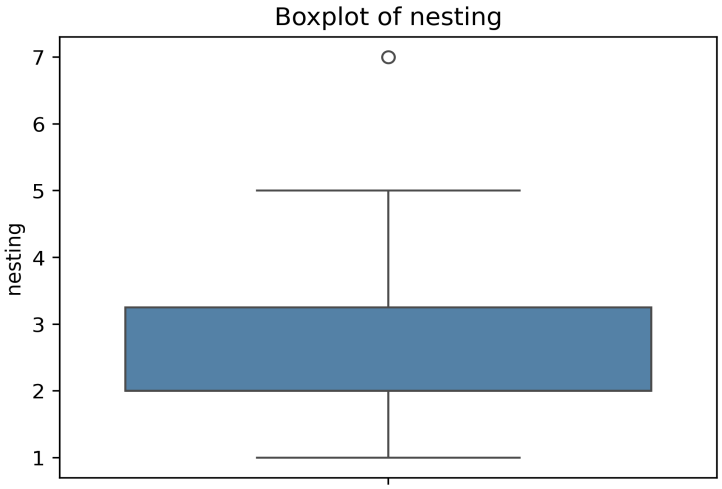


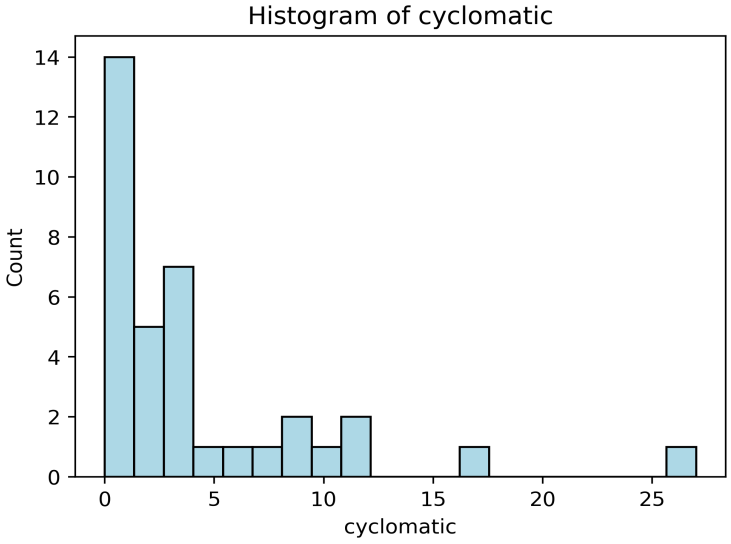
Boxplots + Histograms

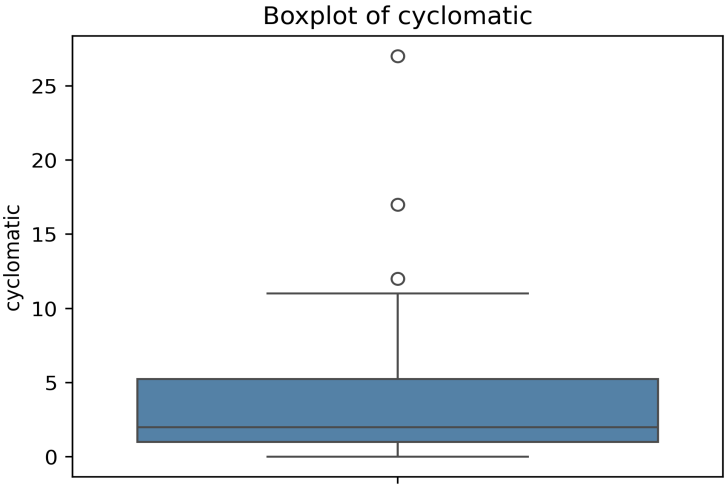


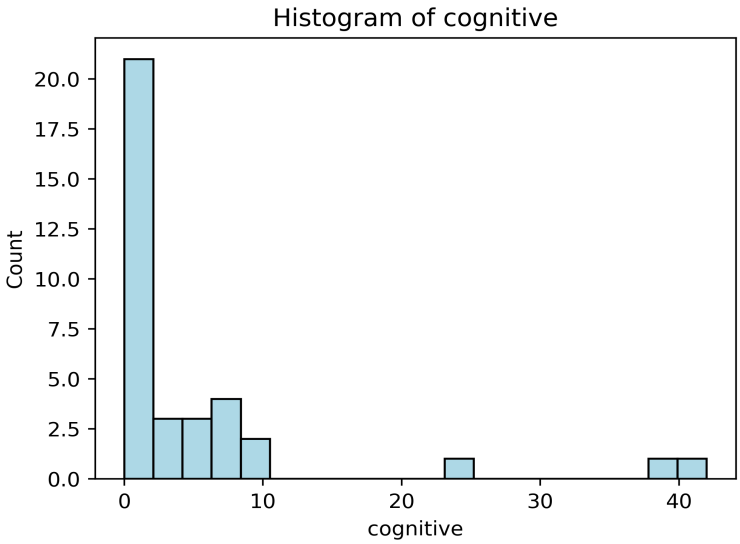


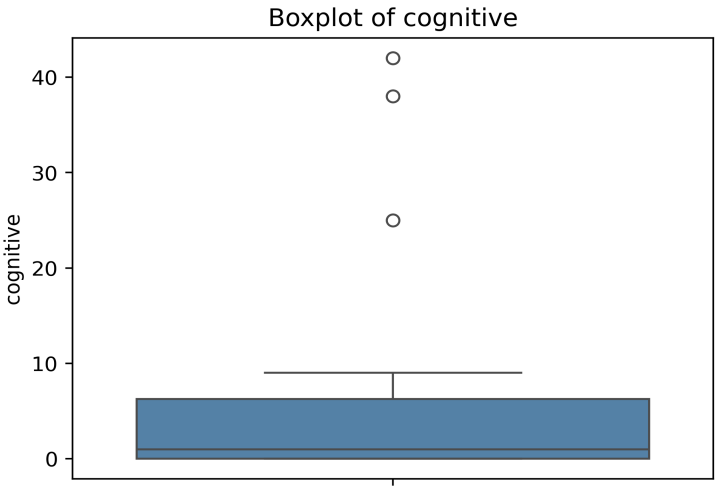


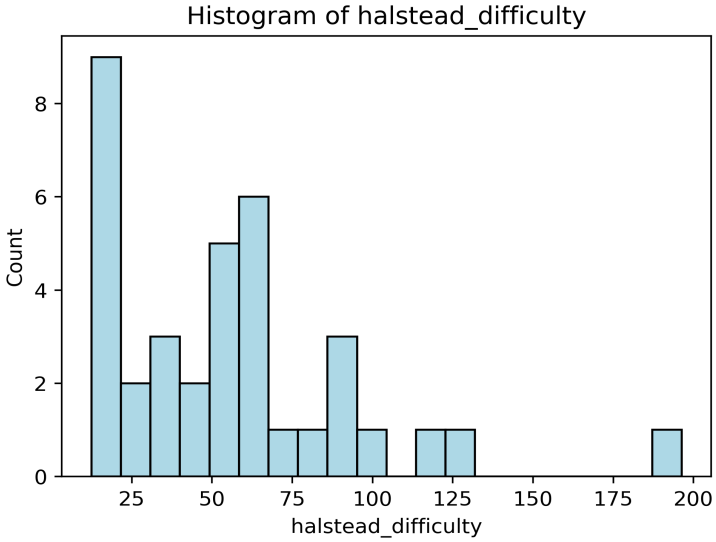


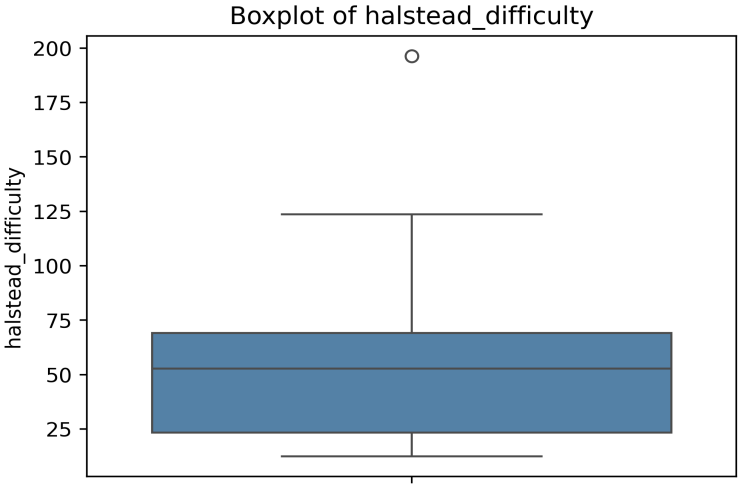





Histogram of cognitive
Count
cognitive
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
0
10
20
30
40


Boxplot of cognitive
cognitive
0
10
20
30
40


Histogram of halstead_difficulty
Count
halstead_difficulty
0
2
4
6
8
25
50
75
100
125
150
175
200


Boxplot of halstead_difficulty
halstead_difficulty
25
50
75
100
125
150
175
200