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Project 1

CSC 316

The following is a chart with a comparison of the uncompressed, proj1.java compression, and the Windows 10 default compression files. The file sizes are all in Bytes.

File	Uncompressed	Proj1.java	Proj 1 Ratio	Windows 10 Compression	W10 Ratio
Input1.txt	61,440	50,426	0.82	28,672	0.47
Input2.txt	73,728	58,426	0.79	32,768	0.44
Input3.txt	102,400	82,371	0.80	45,056	0.44
Input4.txt	131,072	106,147	0.81	57,344	0.44
Input5.txt	122,880	100,533	0.82	53,248	0.43
Input6.txt	90,122	74,174	0.82	40,960	0.45
Input7.txt	159,744	130,245	0.82	69,632	0.44
Input8.txt	131,072	107,320	0.82	57,344	0.44
Input9.txt	188,416	150,796	0.80	77,824	0.41
Input10.txt	233,472	191,670	0.82	98,304	0.42

As seen in the table above, the default Windows 10 compression program did a much better job compressing the files than the proj1.java output. The average for the proj1.java output was a file size approximately 81% of the original file size. The average output for the default Windows 10 compression program was a file size approximately 44% of the original file size. On average, the default Windows 10 compression program was approximately 185% more effective at compressing files than the proj1.java program.