We chose to do too extensive testing and was un-able to finish all test cases within the alloted time for all people but have attached all testing files and necessary scripting To test we had seven test cases:

Case	Input
1	''abra.txt''
2	''bible.txt''
3	''chromosome11-human.txt''
4	''moby1.txt''
5	""muchado.txt"
6	"'pi-1million.txt"
7	"'pi-10million.txt"
8	<pre>''sedgewick-algc.txt''</pre>
9	"world192.txt"

The reasoning behind each case is as follows:

- 1. Base case
- 2. 2
- 3. Check for many repeating characters
- 4. 4
- 5. 5
- 6. Check for random characters
- 7. Should be proportional to Case 6 for random chars
- 8.8
- 9. 9

1 Compression

1.1 Correctness:

The results were:

Collaborators: Page 1 of 9

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Passed								
Brenda & Josh	Passed								
Brendan & Christian	Failed								
Colin & Derek	Failed								
Jiri & Ronak	Passed								
Lyle & Jonathan	Passed	Failed	Failed	Passed	Passed	Failed	Failed	Passed	Failed
Parker & Rafael									
Trung & Viet									
Tudo									

1.2 Timing:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	0.533	23.664	43.733	1.059	1.679	5.784	57.538	1.147	14.485
Brenda & Josh	0.582	25.680	47.456	0.748	1.366	5.329	55.258	1.897	15.865
Brendan & Christian									
Colin & Derek									
Jiri & Ronak	0.442	25.974	59.538	1.662	1.439	7.638	74.603	1.593	18.068
Lyle & Jonathan	0.552			1.555	80.578			53.415	
Parker & Rafael									
Trung & Viet									
Tudo									

The results were (percent used of total memory CSA:Burrows:MTF):

Group name	Class	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	CSA	1.04%	49.73%	70.92%	2.08%	7.90%	36.11%	64.71%	6.86%	48.06%
	Burrows	1.04%	49.73%	71.00%	2.10%	8.42%	36.38%	64.80%	7.38%	48.06%
	MTF	1.04%	1.63%	10.67%	2.08%	6.25%	14.54%	22.69%	5.21%	19.25%
Brenda & Josh	CSA	1.56%	73.62%	64.83%	2.55%	9.45%	46.88%	83.21%	8.27%	52.38%
	Burrows	1.56%	67.91%	60.25%	2.55%	10.37%	50.25%	68.01%	8.59%	55.32%
	MTF	1.04%	29.44%	87.08%	1.56%	3.06%	15.30%	82.18%	2.92%	32.40%
Brendan & Christian	CSA									
	Burrows									
	MTF									
Colin & Derek	CSA									
	Burrows									
	MTF									
Jiri & Ronak	CSA									
	Burrows	1.04%	67.08%	63.36%	2.72%	14.40%	23.23%	82.80%	12.54	37.04%
	MTF	1.04%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%
Lyle & Jonathan	CSA	1.04%			35.69%	46.58%			52.67%	
	Burrows	1.04%			35.69%	48.26%			52.67%	
	MTF	1.04%			35.73%	29.64%			8.80%	
Parker & Rafael	CSA									
	Burrows									
	MTF									
Trung & Viet	CSA									
	Burrows									
	MTF									
Tudo	CSA									
	Burrows									
	MTF									

For this section,

2 De-Compression

2.1 Correctness:

The results were:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Passed								
Brenda & Josh	Passed								
Brendan & Christian	Passed	Failed	Passed	Failed	Failed	Failed	Failed	Failed	Failed
Colin & Derek	Failed								
Jiri & Ronak	Passed	Failed	Passed	Passed	Passed	Failed	Failed	Passed	Failed
Lyle & Jonathan	Passed								
Parker & Rafael									
Trung & Viet									
Tudo									

2.2 Timing:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	0.437	9.889	18.641	0.634	0.957	1.754	31.304	0.963	9.159
Brenda & Josh	0.752	5.285	9.138	0.762	0.813	2.209	12.653	0.996	3.831
Brendan & Christian	0.626	3.030	5.887	0.815	0.891	1.555	7.244	1.241	2.296
Colin & Derek									
Jiri & Ronak	0.646			0.711	13.795			7.830	
Lyle & Jonathan	0.514	8.499	15.508	0.716	0.846	3.170	22.990	1.004	6.563
Parker & Rafael									
Trung & Viet									
Tudo									

The results were (percent used of total memory CSA:Burrows:MTF):

	l ou	١			~ .	~ -	~ -	~ -	~ -	~ -
Group name	Class	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	MTF	1.04%	1.77%	10.66%	2.08%	6.25%	14.56%	46.03%	5.21%	19.21%
	Burrows	1.04%	56.03%	79.61%	2.76%	14.29%	68.46%	75.55%	11.41%	41.91%
Brenda & Josh	MTF	1.56%	29.44%	87.08%	1.56%	3.06%	15.30%	82.17%	2.92%	32.40%
	Burrows	1.56%	49.07%	92.00%	2.59%	5.07%	17.40%	88.23%	4.62%	64.11%
Brendan & Christian	MTF	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%
	Burrows	1.56%	81.82%	59.66%	2.61%	10.97%	24.77	70.80	9.76	57.88
Colin & Derek	MTF									
	Burrows									
Jiri & Ronak	MTF	1.04%			1.56%	1.56%			1.56%	
	Burrows	1.04%			2.51%	5.92%			5.52%	
Lyle & Jonathan	MTF	1.04%	64.70%	82.00%	2.09%	4.90%	4.90%	25.20%	87.46%	3.87%
	Burrows	1.04%	67.12%	67.12%	2.53%	10.26%	10.25%	41.52%	82.04%	8.86%
Parker & Rafael	MTF									
	Burrows									
Trung & Viet	MTF									
	Burrows									
Tudo	MTF									
	Burrows									

For this section,

3 Burrows Transform

3.1 Correctness:

The results were:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Passed								
Brenda & Josh	Passed								
Brendan & Christian	Passed								
Colin & Derek	Failed								
Jiri & Ronak	Passed								
Lyle & Jonathan	Passed	Failed	Failed	Passed	Passed	Failed	Failed	Passed	Failed
Parker & Rafael									
Trung & Viet									
Tudo									

3.2 Timing:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	0.225	20.286	37.788	0.315	0.696	4.043	47.375	0.702	12.273
Brenda & Josh	0.299	21.959	41.325	0.368	0.803	4.196	49.473	0.873	11.945
Brendan & Christian	0.274	18.133	32.374	0.411	1.123	4.862	45.602	0.747	10.850
Colin & Derek	0.319	20.307	139.702	0.311	1.711	5.147	52.007	1.557	11.274
Jiri & Ronak	0.165	24.147	45.944	0.378	0.823	6.467	62.763	1.332	17.149
Lyle & Jonathan	0.192			0.742	40.453			27.408	
Parker & Rafael									
Trung & Viet									
Tudo									

The results were (percent used of total memory CSA:Burrows:MTF):

Group name	Class	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	CSA	1.04%	56.57%	63.26%	2.08%	7.90%	36.11%	64.41%	6.86%	46.56%
	Burrows	1.04%	56.57%	63.26%	2.10%	8.42%	36.38%	64.50%	7.38%	46.56%
Brenda & Josh	CSA	1.04%	48.19%	65.94%	2.55%	9.45%	46.88%	81.96%	8.33%	52.22%
	Burrows	1.04%	51.27%	61.26%	2.55%	10.37%	50.25%	66.98%	8.66%	55.15%
Brendan & Christian	CSA	2.08%	71.89%	66.56%	3.04%	10.59%	57.58%	83.69%	9.40%	52.66%
	Burrows	2.08%	71.94%	66.56%	3.04%	11.11%	55.39%	83.733%	9.40%	52.75%
Colin & Derek	CSA	2.08%	59.98%	69.69%	3.68%	8.43%	52.05%	80.67%	7.10%	52.90%
	Burrows	2.08%	62.73%	76.87%	3.68%	9.20%	57.13%	76.48%	7.99%	59.64%
Jiri & Ronak	CSA									
	Burrows	1.04%	66.56%	73.82	2.76%	14.40%	22.07%	82.239%	12.54%	36.82%
Lyle & Jonathan	CSA	1.56%			40.35%	55.32%			73.83%	
	Burrows	1.56%			40.35%	55.32%			73.83%	
Parker & Rafael	CSA									
	Burrows									
	MTF									
Trung & Viet	CSA									
	Burrows									
	MTF									
Tudo	CSA									
	Burrows									
	MTF									

For this section,

4 Burrows Inverse Transform

4.1 Correctness:

The results were:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Passed								
Brenda & Josh	Passed								
Brendan & Christian	Passed	Failed							
Colin & Derek	Passed	Failed	Failed	Failed	Failed	Passed	Passed	Failed	Failed
Jiri & Ronak	Passed	Passed	Failed	Passed	Passed	Failed	Failed	Passed	Failed
Lyle & Jonathan	Passed	Failed	Failed	Passed	Passed	Failed	Failed	Passed	Failed
Parker & Rafael									
Trung & Viet									
Tudo									

4.2 Timing:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	0.160	7.332	14.059	0.206	0.450	0.965	25.527	0.681	7.387
Brenda & Josh	0.248	1.940	3.473	0.378	0.476	0.555	3.666	0.299	1.367
Brendan & Christian	0.283	1.621	2.884	0.194	0.438	0.743	3.672	0.364	1.199
Colin & Derek	0.341	28.542	46.741	0.490	1.561	7.278	69.240	1.157	15.578
Jiri & Ronak	0.197			0.327	12.519			6.812	
Lyle & Jonathan	Passed								
Parker & Rafael									
Trung & Viet									
Tudo									

The results were (percent used of total memory CSA:Burrows:MTF):

Group name	Class	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Burrows	1.56%	57.40%	7.867%	2.76%	14.29%	68.46%	73.81%	11.40%	42.67%
Brenda & Josh	Burrows	1.04%	47.87%	92.00%	2.59%	5.07%	17.39%	88.23%	4.63%	64.07%
Brendan & Christian	Burrows	1.56%	65.31%	28.65%	2.61%	10.98%	32.85%	64.00%	9.75%	42.47%
Colin & Derek	Burrows	1.56%	41.61%	30.22%	5.15%	26.05%	56.77%	30.31%	25.35%	42.94%
Jiri & Ronak	Burrows	1.56%			2.51%	5.93%			6.83%	
Lyle & Jonathan	Burrows	1.04%		Passed						
Parker & Rafael	Burrows									
Trung & Viet	Burrows									
Tudo	Burrows									

For this section,

5 Move-To-Front Encode

5.1 Correctness:

The results were:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Passed								
Brenda & Josh	Passed								
Brendan & Christian	Passed	Failed							
Colin & Derek	Failed								
Jiri & Ronak	Passed								
Lyle & Jonathan	Passed	Failed	Failed	Passed	Failed	Failed	Failed	Failed	Failed
Parker & Rafael									
Trung & Viet									
Tudo									

5.2 Timing:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	0.198	1.364	1.411	0.245	0.268	0.497	0.2367	0.302	0.936
Brenda & Josh	0.241	2.869	4.112	0.351	0.353	0.838	6.792	0.481	2.376
Brendan & Christian	0.305								
Colin & Derek									
Jiri & Ronak	0.146	1.356	2.008	0.257	0.296	0.467	2.897	0.252	0.974
Lyle & Jonathan	0.157			0.705					
Parker & Rafael									
Trung & Viet									
Tudo									

The results were (percent used of total memory CSA:Burrows:MTF):

Group name	Class	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	MTF	1.56%	1.31%	39.64%	2.08%	6.25%	14.56%	43.26%	5.21%	19.21%
Brenda & Josh	MTF	1.56%	29.44%	87.08%	1.56%	3.06%	15.30%	82.17%	2.92%	32.40%
Brendan & Christian	MTF	1.04%								
Colin & Derek	MTF									
Jiri & Ronak	MTF	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%
Lyle & Jonathan	MTF	1.56%			35.69%					
Parker & Rafael	MTF									
Trung & Viet	MTF									
Tudo	MTF									

For this section,

6 Move-To-Front Decoding

6.1 Correctness:

The results were:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	Passed								
Brenda & Josh	Passed								
Brendan & Christian	Passed	Failed							
Colin & Derek	Failed								
Jiri & Ronak	Passed								
Lyle & Jonathan	Passed	Failed	Failed	Passed	Failed	Failed	Failed	Failed	Failed
Parker & Rafael									
Trung & Viet									
Tudo									

6.2 Timing:

Group name	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	0.160	1.260	1.379	0.209	0.487	0.897	2.674	0.251	0.702
Brenda & Josh	0.257	3.716	5.156	0.387	0.522	1.013	7.679	0.354	2.106
Brendan & Christian	0.315	0.303	0.198	0.186	0.249	0.190	0.215	0.246	0.342
Colin & Derek									
Jiri & Ronak	0.218	0.846	1.098	0.203	0.250	0.401	1.712	0.253	0.670
Lyle & Jonathan	0.177	0.150	0.145	0.262	0.163	0.165	0.226	0.195	0.215
Parker & Rafael									
Trung & Viet									
Tudo									

The results were (percent used of total memory CSA:Burrows:MTF):

Group name	Class	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
Annamalis & Lukas	MTF	1.04%	1.46%	39.61%	2.08%	6.25%	14.56%	43.26%	5.21%	35.73%
Brenda & Josh	MTF	1.56%	23.90%	87.08%	1.56%	3.06%	15.30%	82.17%	2.92%	32.34%
Brendan & Christian	MTF	1.56%%	1.56%	1.56%	1.04%	1.56%	1.04%	1.56%	1.04%	1.56%
Colin & Derek	MTF									
Jiri & Ronak	MTF	1.04%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%
Lyle & Jonathan	MTF	1.56%		1.56%	1.56%	1.56%	1.56%	1.56%	1.56%	1.56%
Parker & Rafael	MTF									
Trung & Viet	MTF									
Tudo	MTF									

For this section,

7 Summary:

The only groups to pass all cases were Lyle & Derek and Josh & Parker.