LUKE, Jane
16/ENG03/060
CVE 403 Assignment
Network Analysis

	Line	D	L	Sign	Assumed Q	S	LH	LH/Q	error	error+extra correction	New Q	
	AB	0.508	915	1	0.235	0.002790162	2.552998	10.86382	-0.002585	-0.002585	0.232415	
	BE	0.406	1220	1	0.055	0.000564582	0.688791	12.52346	-0.002585	-0.008124	0.046876	
	EF	0.406	915	-1	0.09	-0.0014054	-1.285944	14.28827	-0.002585	-0.026267	-0.116267	
	FA	0.61	1220	-1	0.265	-0.00142964	-1.744157	6.581726	-0.002585	-0.002585	-0.267585	
	BC	0.508	915	1	0.15	0.001214959	1.111687	7.411249	0.005539	0.005539	0.155539	
	CD	0.406	1220	1	0.088	0.001348116	1.644702	18.68979	0.005539	0.005539	0.093539	
	DE	0.305	915	-1	0.066	-0.00318704	-2.916137	44.1839	0.005539	0.002937	-0.063063	
	EB	0.406	1220	-1	0.055	-0.00056458	-0.688791	12.52346	0.005539	0.008124	-0.046876	
	FE	0.406	915	1	0.09	0.001405404	1.285944	14.28827	0.023682	0.026267	0.116267	
	EH	0.305	1220	1	0.056	0.002350966	2.868178	51.21747	0.023682	0.02108	0.07708	
	HG	0.406	915	-1	0.098	-0.00164547	-1.505602	15.36329	0.023682	0.023682	-0.074318	
	GF	0.406	1220	-1	0.205	-0.00645445	-7.874428	38.41184	0.023682	0.023682	-0.181318	
	ED	0.305	915	1	0.066	0.003187035	2.916137	44.1839	0.002602	-0.002937	0.063063	
	DI	0.305	1220	1	0.045	0.001568071	1.913047	42.51215	0.002602	0.002602	0.047602	
	IH	0.305	915	-1	0.065	-0.00309819	-2.834844	43.61298	0.002602	0.002602	-0.062398	
	HE	0.305	1220	-1	0.056	-0.00235097	-2.868178	51.21747	0.002602	-0.02108	-0.07708	

First Iteration

	Line	D	L	Sign	Q1	S	LH	LH/Q	error	error+extra correction	New Q	
	AB	0.508	915	1	0.232415	0.002733582	2.501227	10.76192	0.009714	0.009714	0.242129	
	BE	0.406	1220	1	0.046876	0.000419933	0.512318	10.92931	0.009714	0.008628	0.055504	
	EF	0.406	915	-1	0.116267	-0.00225817	-2.066224	17.7713	0.009714	0.010017	-0.106251	
	FA	0.61	1220	-1	0.267585	-0.00145557	-1.775801	6.636388	0.009714	0.009714	-0.257871	
	BC	0.508	915	1	0.155539	0.001299344	1.1889	7.643746	0.001086	0.001086	0.156625	
	CD	0.406	1220	1	0.093539	0.001509452	1.841532	19.68733	0.001086	0.001086	0.094625	
	DE	0.305	915	-1	0.063063	-0.0029294	-2.680402	42.50347	0.001086	-0.007189	-0.070252	
	EB	0.406	1220	-1	0.046876	-0.00041993	-0.512318	10.92931	0.001086	-0.008628	-0.055504	
	FE	0.406	915	1	0.116267	0.002258168	2.066224	17.7713	-0.000302	-0.010017	0.106251	
	EH	0.305	1220	1	0.07708	0.004248125	5.182712	67.23812	-0.000302	-0.008577	0.068503	
	HG	0.406	915	-1	0.074318	-0.00098588	-0.902076	12.13806	-0.000302	-0.000302	-0.07462	
	GF	0.406	1220	-1	0.181318	-0.00514199	-6.273229	34.59795	-0.000302	-0.000302	-0.18162	
	ED	0.305	915	1	0.063063	0.002929402	2.680402	42.50347	0.008275	0.007189	0.070252	
	DI	0.305	1220	1	0.047602	0.001740106	2.122929	44.5974	0.008275	0.008275	0.055877	
	IH	0.305	915	-1	0.062398	-0.00287244	-2.628278	42.12125	0.008275	0.008275	-0.054123	
	HE	0.305	1220	-1	0.07708	-0.00424812	-5.182712	67.23812	0.008275	0.008577	-0.068503	

Second Iteration

	Line	D	L	Sign	Q2	S	LH	LH/Q	error	error+extra correction	New Q	
	AB	0.508	915	1	0.242129	0.00294893	2.698271	11.14394	9.5E-05	9.5E-05	0.242224	
	BE	0.406	1220	1	0.055504	0.000574199	0.700523	12.62114	9.5E-05	-0.005438	0.050065	
	EF	0.406	915	-1	0.106251	-0.00191118	-1.748729	16.45848	9.5E-05	-0.005512	-0.111763	
	FA	0.61	1220	-1	0.257871	-0.00135923	-1.658263	6.430592	9.5E-05	9.5E-05	-0.257776	
	BC	0.508	915	1	0.156625	0.001316197	1.204321	7.689193	0.005533	0.005533	0.162159	
	CD	0.406	1220	1	0.094625	0.001542072	1.881327	19.8819	0.005533	0.005533	0.100159	
	DE	0.305	915	-1	0.070252	-0.00357769	-3.273582	46.59755	0.005533	0.005382	-0.064871	
	EB	0.406	1220	-1	0.055504	-0.0005742	-0.700523	12.62114	0.005533	0.005438	-0.050065	
	FE	0.406	915	1	0.106251	0.001911179	1.748729	16.45848	0.005607	0.005512	0.111763	
	EH	0.305	1220	1	0.068503	0.003414432	4.165608	60.80949	0.005607	0.005455	0.073957	
	HG	0.406	915	-1	0.07462	-0.00099331	-0.908878	12.18008	0.005607	0.005607	-0.069013	
	GF	0.406	1220	-1	0.18162	-0.00515787	-6.292599	34.64705	0.005607	0.005607	-0.176013	
	ED	0.305	915	1	0.070252	0.003577686	3.273582	46.59755	0.000152	-0.005382	0.064871	
	DI	0.305	1220	1	0.055877	0.002341439	2.856555	51.12189	0.000152	0.000152	0.056029	
	IH	0.305	915	-1	0.054123	-0.0022071	-2.019498	37.31336	0.000152	0.000152	-0.053971	
	HE	0.305	1220	-1	0.068503	-0.00341443	-4.165608	60.80949	0.000152	-0.005455	-0.073957	

Third Iteration

	Line	D	L	Sign	Q2	S	LH	LH/Q	error	error+extra correction	New Q	
	AB	0.508	915	1	0.242224	0.002951073	2.700232	11.14766	0.003484	0.003484	0.245708	
	BE	0.406	1220	1	0.050065	0.00047438	0.578744	11.55974	0.003484	0.003299	0.053365	
	EF	0.406	915	-1	0.111763	-0.00209882	-1.920418	17.18302	0.003484	0.003471	-0.108291	
	FA	0.61	1220	-1	0.257776	-0.00135831	-1.657132	6.428575	0.003484	0.003484	-0.254292	
	BC	0.508	915	1	0.162159	0.001403603	1.284296	7.920004	0.000185	0.000185	0.162344	
	CD	0.406	1220	1	0.100159	0.001713213	2.09012	20.86811	0.000185	0.000185	0.100344	
	DE	0.305	915	-1	0.064871	-0.00308677	-2.824394	43.53895	0.000185	-0.002874	-0.067744	
	EB	0.406	1220	-1	0.050065	-0.00047438	-0.578744	11.55974	0.000185	-0.003299	-0.053365	
	FE	0.406	915	1	0.111763	0.002098817	1.920418	17.18302	1.29E-05	-0.003471	0.108291	
	EH	0.305	1220	1	0.073957	0.003934948	4.800637	64.91077	1.29E-05	-0.003046	0.070911	
	HG	0.406	915	-1	0.069013	-0.00085954	-0.78648	11.39603	1.29E-05	1.29E-05	-0.069001	
	GF	0.406	1220	-1	0.176013	-0.00486689	-5.937609	33.73384	1.29E-05	1.29E-05	-0.176001	
	ED	0.305	915	1	0.064871	0.003086769	2.824394	43.53895	0.003059	0.002874	0.067744	
	DI	0.305	1220	1	0.056029	0.002353225	2.870935	51.24011	0.003059	0.003059	0.059088	
	IH	0.305	915	-1	0.053971	-0.00219566	-2.009027	37.22424	0.003059	0.003059	-0.050912	
	HE	0.305	1220	-1	0.073957	-0.00393495	-4.800637	64.91077	0.003059	0.003046	-0.070911	