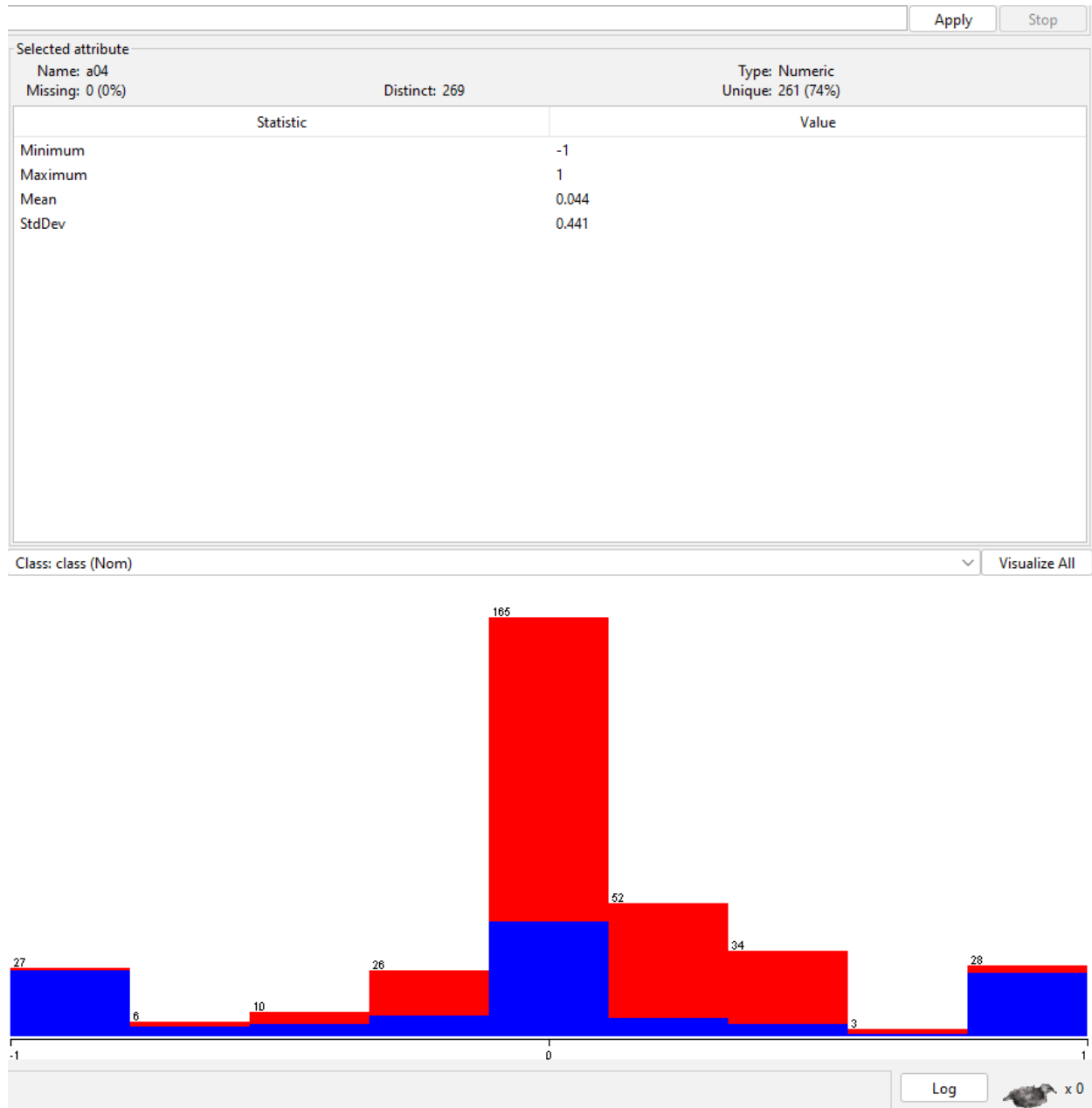
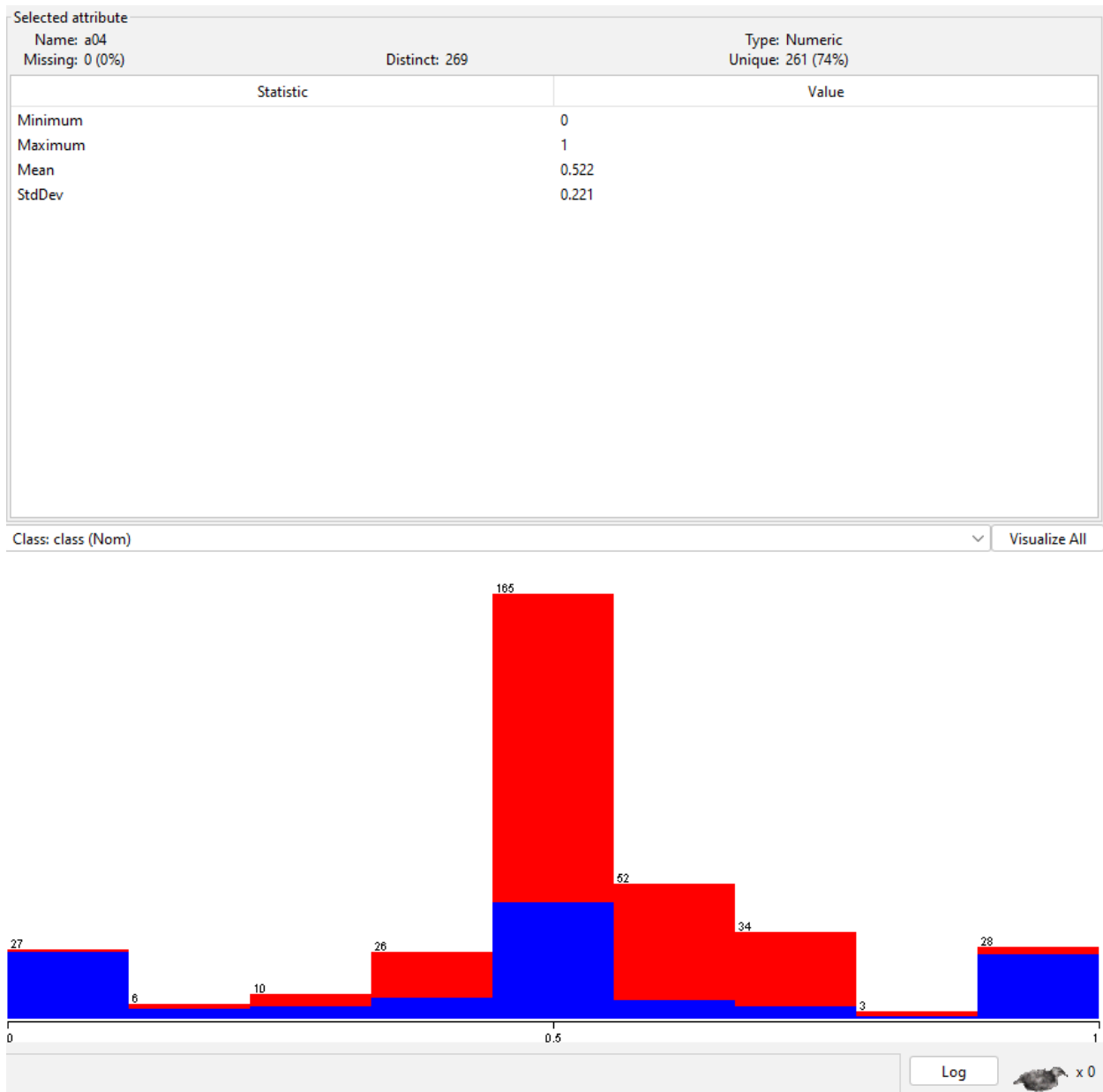


# I use ionosphere Dataset

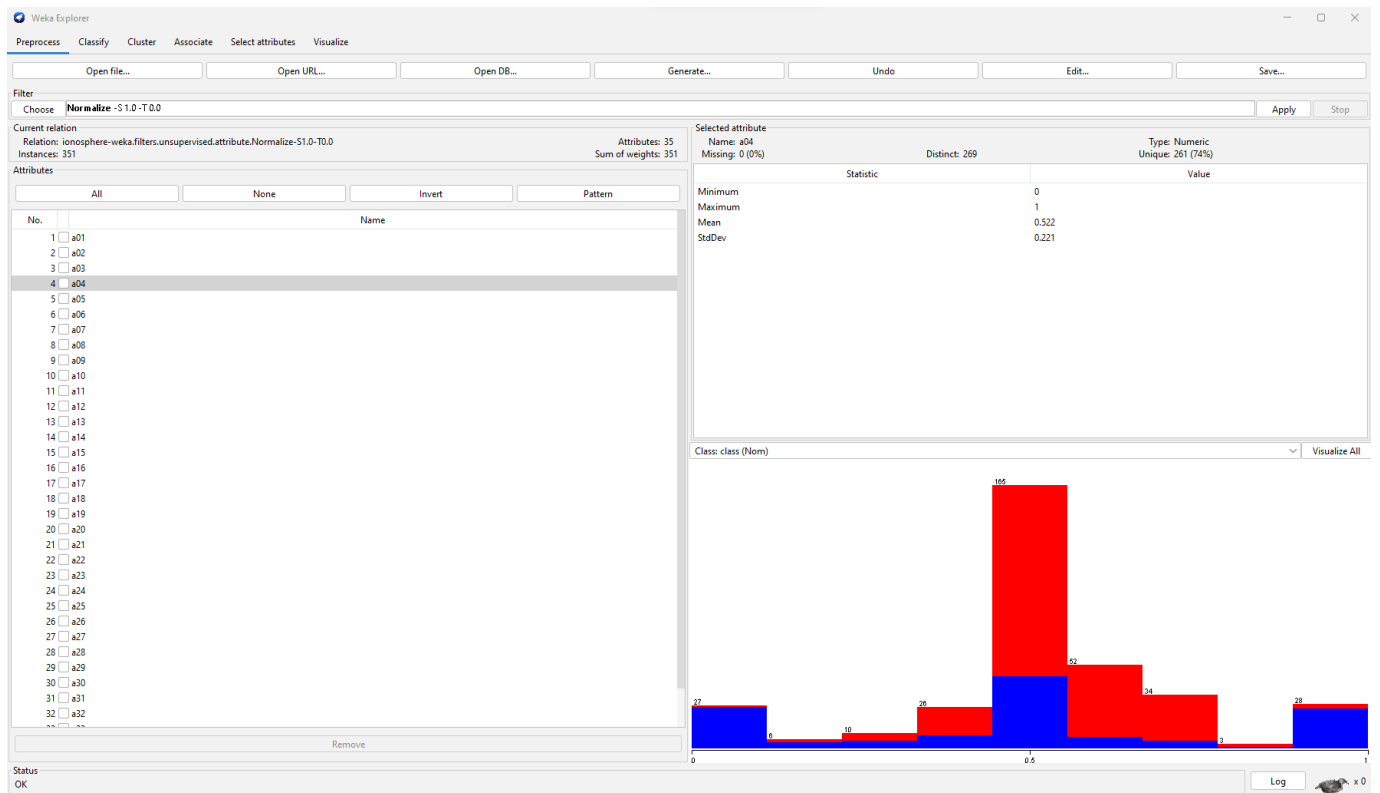
## Before Min-Max Normalization



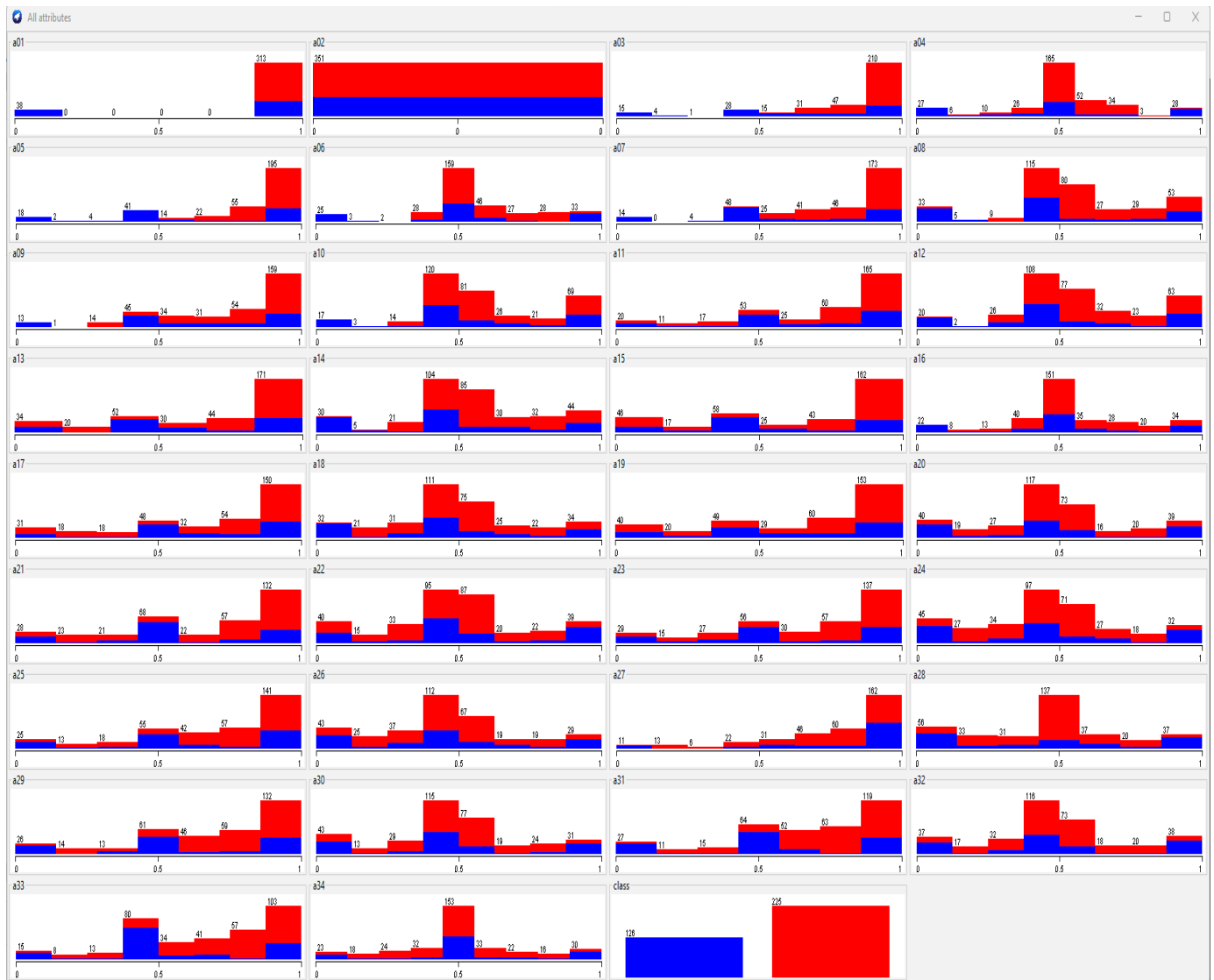
## After Apply normalization filter Attribute



**The Interface of weka after apply Min-max filter**



**And the graphs after the min-max filter**



**The Data set after apply min-max Normalization**

relation: ionosphere-weka.filters.unsupervised.attribute.Normalize-51.0-70.0

No.	1: a01	2: a02	3: a03	4: a04	5: a05	6: a06	7: a07	8: a08	9: a09	10: a10	11: a11	12: a12	13: a13	14: a14	15: a15	16: a16	17: a17	18: a18	19: a19	20: a20	21: a21	22: a22	23: a23	24: a24	25: a25	26: a26	27: a27	28: a28	29: a29	30: a30	31: a31	32: a32	33: a33	34: a34	35: class		
	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Numeric	Nominal		
1	1.0	0.0	0.9976...	0.4705...	0.9262...	0.51153	0.91699	0.3114...	1.0	0.5188	0.9262...	0.4112...	0.7987...	0.2752...	0.8026...	0.3088...	0.92178	0.30729	0.79106	0.33904	0.7848...	0.35163	0.6847...	0.2632...	0.7840...	0.2441...	0.70539	0.26916	0.60633	0.32955	0.7113...	0.2275...	0.5932...	0.2734...	g		
2	1.0	0.0	1.0	0.4058...	0.9651...	0.31922	0.44566	0.0320...	1.0	0.4772...	0.75437	0.1612...	0.67216	0.1514...	0.2415...	0.0124...	0.5274...	0.1888...	0.6655...	0.0	0.4342...	0.2734...	0.40972	0.32133	0.39834	0.3671...	0.39766	0.4079...	0.4048	0.4420...	0.41687	0.46856	0.4313...	0.4877...	b		
3	1.0	0.0	1.0	0.4831...	1.0	0.5024...	1.0	0.43969	0.9448...	0.50599	0.86541	0.52673	0.9272...	0.5041...	0.7729...	0.5014...	0.9188...	0.43178	0.8776...	0.4573	0.8544...	0.36249	0.7169...	0.43969	0.78764	0.2989	0.7949...	0.3892...	0.7155	0.4131...	0.80218	0.3791	0.7802...	0.3088...	g		
4	1.0	0.0	1.0	0.2741...	1.0	1.0	0.85608	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.57258	0.77047	0.30335	0.0	0.2276...	0.1501...	1.0	0.5	0.5	1.0	0.9534...	0.7580...	1.0	1.0	0.3995...	0.62841	1.0	0.33809	1.0	b		
5	1.0	0.0	1.0	0.4879...	0.9707	0.5326...	0.96053	0.3837...	0.88576	0.4180...	0.76399	0.3986...	0.7820...	0.49644	0.6719...	0.3627...	0.7646...	0.3911	0.7255...	0.4109...	0.52991	0.3221...	0.5115...	0.2356...	0.51643	0.1742...	0.56645	0.23397	0.5121...	0.1890...	0.4714...	0.2021...	0.47696	0.1715...	g		
6	1.0	0.0	0.5116...	0.49704	0.45038	0.4402...	0.4961...	0.44088	0.57353	0.5331...	0.51893	0.46849	0.5	0.5	0.47714	0.4223	0.4982...	0.44902	0.4421...	0.47293	0.50919	0.5183...	0.5075...	0.50444	0.5175...	0.4923...	0.4838	0.5461...	0.4607...	0.50366	0.5	0.5	0.4998...	0.5600...	b		
7	1.0	0.0	0.98794	0.44699	0.9730...	0.396	0.9640...	0.35825	0.92998	0.36329	0.89883	0.2603...	0.8911...	0.24618	0.87314	0.19282	0.7897...	0.15957	0.68926	0.1317...	0.68162	0.1171...	0.65949	0.1012...	0.6139...	0.0918...	0.5682...	0.0874...	0.52303	0.0880...	0.47869	0.0934...	0.43084	0.0951...	g		
8	0.0	0.0	0.5	0.5	0.5	0.5	1.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.5	1.0	0.5	0.5	b		
9	1.0	0.0	0.9817...	0.46401	1.0	0.4283...	1.0	0.3934...	1.0	0.31913	0.96285	0.2821...	0.97255	0.2966...	0.9519...	0.2680...	0.9915...	0.3237...	0.9226...	0.1699	0.87673	0.1970...	0.8481...	0.1788...	0.92553	0.1728	0.7878...	0.1514...	0.6271...	0.1804...	0.72557	0.1361...	0.6944...	0.1329...	g		
10	1.0	0.0	0.49068	0.4577...	0.5	0.5	0.5	0.5	0.55735	0.36595	0.2716...	0.3091...	0.5	0.5	0.33172	0.69301	0.3143...	0.57509	0.81864	0.6105...	0.5	0.5	0.5	0.5	0.5	0.5	0.4259...	0.49337	0.6032...	0.48853	0.5	0.5	0.5828...	0.62043	0.45896	0.6903...	b
11	1.0	0.0	1.0	0.5332...	1.0	0.40086	1.0	0.3634	1.0	0.2844...	1.0	0.2932...	0.98116	0.24063	0.9535...	0.2049...	0.94615	0.16763	0.84938	0.1450...	0.8532...	0.1184	0.8154...	0.0972...	0.7793...	0.0543...	0.7360...	0.0675	0.7015...	0.0816...	0.65498	0.0545...	0.6149...	0.0542...	g		
12	1.0	0.0	1.0	0.22895	1.0	0.0	1.0	0.0	1.0	0.6810...	1.0	0.2944...	1.0	1.0	1.0	0.0	1.0	0.35323	1.0	0.0320...	1.0	1.0	1.0	1.0	1.0	1.0	0.29556	1.0	0.1862...	1.0	0.0	1.0	0.0	1.0	0.0	b	
13	1.0	0.0	1.0	0.41842	1.0	0.4491...	0.9999...	0.4240...	1.0	0.4036...	0.9702...	0.3242...	0.9786...	0.3510...	0.9685...	0.32794	0.97243	0.35947	0.9506...	0.2830...	0.9302...	0.26346	0.9149...	0.2439	0.9204	0.2643...	0.88112	0.20815	0.8286...	0.15603	0.8435...	0.1773...	0.8236...	0.1638...	g		
14	1.0	0.0	1.0	0.0664...	1.0	0.6113...	0.92746	0.30052	1.0	0.43955	1.0	0.6757...	1.0	0.53886	1.0	0.4261...	1.0	0.0	0.0	0.8091...	0.5790...	1.0	0.8117...	1.0	0.41494	1.0	0.67962	1.0	0.16753	1.0	0.94214	1.0	0.40587	1.0	b		
15	1.0	0.0	1.0	0.5369	1.0	0.5171	1.0	0.4721...	1.0	0.54382	1.0	0.5982...	1.0	0.60164	1.0	0.5639...	1.0	0.5528...	1.0	0.6354...	1.0	0.7237...	1.0	0.70875	1.0	0.6001...	1.0	0.6837...	0.9780...	0.7432...	1.0	0.66246	1.0	0.73356	g		
16	1.0	0.0	0.75466	0.0300...	1.0	0.63354	0.4824	0.0	1.0	0.0	0.7184...	0.0	0.5	0.5	0.0	0.3286...	0.3115...	0.5181...	1.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.4187...	0.9611...	0.69876	0.6325...	0.5	0.5	1.0	0.61594	0.5	b	
17	1.0	0.0	0.9982...	0.53234	1.0	0.49382	0.9890...	0.51249	0.98056	0.51156	0.99637	0.53904	0.9466...	0.55173	0.97106	0.5263...	0.9440...	0.5556	0.93052	0.5431...	0.9081...	0.55915	0.9183...	0.57221	0.9066...	0.56706	0.8973...	0.56819	0.8955...	0.5768...	0.88561	0.57965	0.8547...	0.5600...	g		
18	0.0	0.0	0.5	0.5	0.5	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	b	
19	1.0	0.0	0.8353...	0.51264	0.8331...	0.5251...	0.7859...	0.5938...	0.54388	0.6704...	0.8181...	0.5606...	0.8104...	0.5714...	0.8931...	0.55488	0.7918...	0.5907...	0.5719...	0.70612	0.76944	0.60663	0.7571	0.6131...	0.74419	0.61862	0.7308...	0.62309	0.7171...	0.62653	0.7033...	0.62896	1.0	0.66518	g		
20	0.0	0.0	1.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0	1.0	0.0	0.1406...	1.0	0.5	0.5	0.5	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.78125	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	g	
21	1.0	0.0	1.0	0.49694	1.0	0.45083	1.0	0.4617...	1.0	0.4469...	1.0	0.4446...	1.0	0.3025...	1.0	0.42192	0.96062	0.34058	0.9323...	0.32733	0.9584...	0.27964	0.9803	0.2656...	0.90937	0.2981...	0.9134...	0.2888...	0.7889...	0.3088...	0.9022...	0.2971...	0.8717...	0.2748...	b		
22	0.0	0.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	1.0	0.0	1.0	0.0	b	
23	1.0	0.0	0.9803...	0.53544	1.0	0.5214...	1.0	0.5465...	0.9508...	0.47428	0.9463...	0.5129	0.91625	0.46929	0.93767	0.5491...	0.88272	0.5014	0.87603	0.4735...	0.8298...	0.4604...	0.82079	0.4703...	0.7783...	0.4614...	0.7902...	0.4889...	0.74832	0.4937...	0.7565...	0.4999...	0.7604...	0.49909	g		
24	0.0	0.0	0.0	1.0	0.5	0.5	0.5	0.5	0.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	0.0	0.0	1.0	1.0	1.0	1.0	0.5	0.5	0.0	0.0	1.0	0.0	1.0	1.0	1.0	0.5	0.5	0.5	b	
25	1.0	0.0	1.0	0.46909	1.0	0.51471	1.0	0.4743...	1.0	0.4914...	1.0	0.44137	0.9224...	0.47399	0.96696	0.46701	0.84585	0.4631...	0.8286...	0.3981...	0.97455	0.34221	0.9042...	0.34173	0.92466	0.32581	0.8626...	0.35413	0.86547	0.30712	0.77178	0.36858	0.8210...	0.3025...	g		
26	1.0	0.0	1.0	0.7891	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.1860...	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	b		
27	1.0	0.0	1.0	0.45643	1.0	0.4136...	0.9331...	0.0911...	0.9740...	0.8052...	0.9773...	0.2930...	0.94243	0.34132	0.9396...	0.3828...	0.9052...	0.1891	0.5612...	0.0	0.9514...	0.5552...	0.8117...	0.1072...	0.7769...	0.0856...	0.74068	0.0670...	0.7032...	0.0516...	0.66492	0.0393...	0.4332...	0.0	g		
28	0.0	0.0	0.0	0.0	0.5	0.5	0.0	1.0	1.0	0.3125	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.0	0.0	0.0	1.0	0.0	0.5	0.5	1.0	0.0	0.0	1.0	0.0	0.0	0.5	0.5	0.5	1.0	b	
29	1.0	0.0	1.0	0.5419	1.0	0.5869...	1.0	0.43346	0.9908...	0.8226	1.0	0.73952	1.0	0.7955...	1.0	0.85379	1.0	0.9138...	1.0	0.9754...	1.0	1.0	0.99021	1.0	0.9581...	1.0	0.9194...	1.0	0.8741...	1.0	0.82179	1.0	0.7623...	1.0	g		
30	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.5	0.5	1.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	b		
31	1.0	0.0	1.0	0.42882	1.0	0.41872	1.0	0.38172	1.0	0.46243	1.0	0.37495	1.0	0.3691...	1.0	0.3901...	1.0	0.3069...	1.0	0.2691...	1.0	0.3224...	1.0	0.2016...	1.0	0.2617...	0.9941	0.2515...	1.0	0.1209...	1.0	0.1211...	1.0	0.0778...	g		
32	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	0.0	0.5	0.5	1.0	1.0	0.1042...	1.0	1.0	1.0	1.0	b		
33	1.0	0.0	0.94104	0.4268...	0.96704	0.4447...	0.9605	0.41775	0.9415...	0.4148...	0.94231	0.3409...	0.9283...	0.3426...	0.91058	0.32038	0.9034...	0.33184	0.8762...	0.2648...	0.8527...	0.2642...	0.83075	0.2495...	0.8064...	0.2595...	0.7840...	0.2268...	0.7508...	0.2007...	0.7353...	0.2131...	0.7109...	0.2095...	g		
34	1.0	0.0	0.8562...	0.4870...	0.7064...	0.3946...	0.9900...	0.4526...	0.9																												