888

Data = ax indexBegin = 1 Index End = 1200 Threshold = 3 winLength = 3

CSV comparison highlighting red cells meeting threshold value for ax column.

First cell meeting criteria is 885. The 4^{th} concurrent cell meeting this criterion is 888 and is returned in the function above.

884	1102584	1.094727	-
885	1103834	3.641602	-
886	1105081	12.19727	-
887	1106330	16.39453	-
888	1107579	12.9707	-
889	1108827	4.844727	-
890	1110076	3.648438	-
891	1111325	3.27832	-

Test backSearchContinuityWithinRange

← → C ① localhost:8080/backSearchContinuityWithinRange?data=wz&indexBegin=800&indexEnd=50&thresholdLo=-1.0&thresholdHi=.3&winLength=3

714

Data = wz IndexBegin = 800 IndexEnd = 50 ThresholdLo = -1 ThreholdHi = .3 winLength = 3

CSV comparison highlighting red cells meeting threshold value for wz column.

First cell meeting criteria is 721 working backwards from 800. However, because of the concurrency requirement 721:719 < 3 cells therefore the function sees 717:714 > 3 and returns 714

890310	0.458984	0.374023	-0.03711	1.009857	3.796551	0.136352
891557	0.458984	0.367188	-0.02441	0.990683	3.862596	0.193876
892806	0.46582	0.351562	0.017578	1.018379	3.935033	0.247138
894054	0.478516	0.382812	0.041992	1.060989	4.001079	0.291878
895303	0.494141	0.40332	0.052734	1.097208	4.069255	0.300401
896552	0.519531	0.422852	0.06543	1.127034	4.154475	0.281226
897802	0.535156	0.436523	0.05957	1.1526	4.25887	0.279095
899051	0.484375	0.472656	-0.00977	1.171775	4.352612	0.289748
	891557 892806 894054 895303 896552 897802	891557 0.458984 892806 0.46582 894054 0.478516 895303 0.494141 896552 0.519531 897802 0.535156	891557 0.458984 0.367188 892806 0.46582 0.351562 894054 0.478516 0.382812 895303 0.494141 0.40332 896552 0.519531 0.422852 897802 0.535156 0.436523	891557 0.458984 0.367188 -0.02441 892806 0.46582 0.351562 0.017578 894054 0.478516 0.382812 0.041992 895303 0.494141 0.40332 0.052734 896552 0.519531 0.422852 0.06543 897802 0.535156 0.436523 0.05957	891557 0.458984 0.367188 -0.02441 0.990683 892806 0.46582 0.351562 0.017578 1.018379 894054 0.478516 0.382812 0.041992 1.060989 895303 0.494141 0.40332 0.052734 1.097208 896552 0.519531 0.422852 0.06543 1.127034 897802 0.535156 0.436523 0.05957 1.1526	890310 0.458984 0.374023 -0.03711 1.009857 3.796551 891557 0.458984 0.367188 -0.02441 0.990683 3.862596 892806 0.46582 0.351562 0.017578 1.018379 3.935033 894054 0.478516 0.382812 0.041992 1.060989 4.001079 895303 0.494141 0.40332 0.052734 1.097208 4.069255 896552 0.519531 0.422852 0.06543 1.127034 4.154475 897802 0.535156 0.436523 0.05957 1.1526 4.25887 899051 0.484375 0.472656 -0.00977 1.171775 4.352612

766

Data1 = ay Data2 = wy indexBegin = 50 IndexEnd = 1200 threshold1 = 1 threshhold2 = 3 winLength = 5 CSV comparison highlighting red cells meeting threshold value for ay and wy columns.

First instance of match up is 761 after more than 5 cells meet the criteria for both the cell is returned

760	947750	-0.39648	0.957031	-0.08106	1.090816	7.388574
761	948998	-0.39648	1.003906	-0.05078	1.112121	7.473794
762	950245	-0.47754	1.042969	-0.16016	1.139817	7.505751
763	951494	-0.57129	1.050781	-0.24805	1.120643	7.520665
764	952742	-0.6084	1.03418	-0.22168	1.103599	7.546231
765	953991	-0.62305	1.047852	-0.12695	1.103599	7.571797
766	955240	-0.65137	1.067383	-0.11914	1.101468	7.590972
767	956490	-0.70117	1.089844	-0.14941	1.080164	7.588841
768	957737	-0.7627	1.101562	-0.1875	1.052467	7.58671

Test searchMultiContinuityWithinRange

) localhost:8080/searchMultiContinuityWithinRange?data=wy&indexBegin=15&indexEnd=1200&thresholdLo=-.5&thresholdHi=.5&winLength=8

Data = wy indexBegin =15 indexEnd = 1200 threshholdLo = -.5 thresholdHI = .5 winLength = 8

CSV comparison highlighting red cells meeting threshold value for wy column. Only some shown.

			79:87			
77	94901	0.925781	0.222656	-0.25195	2.328636	-0.5795
78	96148	0.904297	0.219727	-0.22266	2.324375	-0.5028
79	97397	0.876953	0.222656	-0.20801	2.322245	-0.45806
80	98646	0.827148	0.213867	-0.20898	2.303071	-0.44101
81	99894	0.787109	0.22168	-0.20117	2.286027	-0.41758
82	101143	0.751953	0.227539	-0.19824	2.283896	-0.40906
83	102394	0.726562	0.232422	-0.18262	2.294548	-0.41758
84	103640	0.748047	0.270508	-0.13867	2.279635	-0.39627
85	104889	0.697266	0.313477	-0.16699	2.213589	-0.39201
86	106138	0.666016	0.307617	-0.17773	2.149675	-0.43036
87	107386	0.65332	0.304688	-0.1709	2.102803	-0.4751
88	108635	0.647461	0.305664	-0.16211	2.055932	-0.51984

			183:191			
182	226011	0.915039	0.225586	0.02343	7 -0.10653	-0.50493
183	227259	0.927734	0.225586	0.01171	.9 -0.10866	-0.44741
184	228510	0.93457	0.21582	0.01074	2 -0.08948	-0.38775
185	229757	0.951172	0.205078	0.01757	8 -0.05752	-0.33023
186	231005	0.957031	0.204102	0.01757	8 -0.02344	-0.27057
187	232254	0.949219	0.203125	0.01757	8 0.002131	-0.2237
188	233507	0.941406	0.209961	0.01171	9 0.025566	-0.18535
189	234753	0.942383	0.233398	0.01171	9 0.038349	-0.14701
190	236000	0.936523	0.231445	0.01757	8 0.049002	-0.10653
191	237249	0.9375	0.228516	0.01757	8 0.068176	-0.07031
192	238498	0.938477	0.230469	0.01269	5 0.08735	-0.04048
193	239746	0.938477	0.245117	0.00683	6 0.08735	-0.00852

			192:20	00		
191	237249	0.9375	0.228516	0.017578	0.068176	-0.07031
192	238498	0.938477	0.230469	0.012695	0.08735	-0.04048
193	239746	0.938477	0.245117	0.006836	0.08735	-0.00852
194	240997	0.942383	0.25	-0.00293	0.076698	0.017044
195	242245	0.954102	0.253906	0	0.063915	0.049002
196	243492	0.963867	0.259766	0.023437	0.061784	0.093742
197	244741	0.960938	0.254883	0.040039	0.066046	0.142743
198	245990	0.963867	0.24707	0.042969	0.074567	0.183223
199	247238	0.969727	0.261719	0.043945	0.063915	0.221572
200	248487	0.970703	0.277344	0.043945	0.04048	0.262051
201	249736	0.957031	0.251953	0.085937	0.04261	0.289748