

K			Raisins		900 x 7			
	Sequential	Parallel	Assoc. Seq	Recalc. Seq	Assoc. Par	Recalc. Par		
3	6939	6817	221	442	221	214		
4	8367	14292	317	436	257	226		
5	15625	15870	370	446	278	223		
6	11005	13419	441	455	315	225		
7	27767	11321	437	475	330	237		
10	17215	13141	588	454	424	241		
15	24732	14704	940	479	606	271		
			Red Wine	1599 x 12				
3	26273	9007	615	1431	575	558		
4	27716	7488	814	1420	632	573		
5	44828	16152	947	1388	689	577		
6	37612	16976	1164	1422	756	590		
7	41849	36248	1278	1350	802	594		
10	64441	27953	1863	1432	1071	672		
15	84380	60960	2545	1366	1340	696		
			Urban	360,177 x 2				
3	201231670	107760943	49233	53666	36797	8093		
4	189814094	146957385	56760	54474	48399	8635		
5	101808430	238428514	64489	54869	55115	8844		
6	60087897	364810495	71993	54709	64538	8795		
7	221650961	86625942	78926	57172	76101	8900		
10	361558555	229005675	98746	59849	114121	9943		
15	148620051	65004106	134693	60061	174497	10044		
			Bank	6819 x 96				
3	1784445	522191	17008	55304	15800	12776		
4	3055565	733568	21583	55488	16617	13822		
5	2118912	497893	27579	54771	17600	14824		
6	1247480	405616	34281	58928	18453	15401		
7	1874157	716821	37484	58261	19530	16206		
10	1735732	731004	53997	57512	22373	18822		
15	2384778	878173	86448	59054	27532	20193		
Improved Algorithm Implementation								
			Red Wine	1599 x 12				
3	770	414						
4	976	375						
5	1123	347						
6	1364	330						
7	1454	327						
			Urban	360,177 x 2				
Sequential	Parallel							
3	55,376	70,417						
4	64,259	70,414						
5	71,272	69,418						
6	77,971	69,676						
7	86,535	69,663						
			Bank	6819 x 96				
3	19,300	5681						
4	25,706	5259						
5	33,330	4795						
6	37,634	5369						
7	41,185	5869						

Improved Recalculation

Phase 2 Execution Time (ms)

