Experiment 3

Simple Weighting 1.

given

weighting = 3 $bestYears = \langle 1992, 1502, 1493 \rangle$

// by rank

calculation

 $output = \langle (1992, 1502, 1493), (1992, 1502, 1493), (1992, 1502, 1493) \rangle$

Later on, the whole list is unlisted when peak ranks are computed. So, a single list is created in which are no inner lists.

Double Weighting 2.

given

weighting = 3

 $bestYears = \langle 1992, 1502, 1493, 1801, 1723 \rangle$

// by rank

calculation

 $output = \langle 1992, 1992, 1992, 1502, 1502, 1493, 1801, 1723 \rangle$

1992 has rank 1, so it is contained 3 times in the list.

1502 has rank 2 (less important), so it is contained 2 times in the list.

1493 has rank 3, so it is contained once.

The same holds for 1801, 1723, since there are no ranks lower 1.

Peak Ranks 3.

given

 $topYearsPerSample = \langle t_1, t_2, t_3 \rangle$ with

 $t_1 = \langle \langle 1992, 1502, 1493 \rangle, \langle 1992, 1502, 1502 \rangle \rangle$

 $t_2 = \langle \langle 1945, 1484, 1954 \rangle, \langle 1945, 1484, 1954 \rangle \rangle$

 $t_3 = \langle \langle 2020, 1253, 1832 \rangle, \langle 2020, 1832, 1832 \rangle \rangle$

 $samples_{vears} = \langle 1992: 1997, 1484: 1489, 1832: 1837 \rangle$

calculation: t_1

count correct year:

descending sorted counts:

startyear	count		
1502	3		
1992	2		
1493	1		

 \Rightarrow sample rank:

2

calculation: t_2

count correct year: 2

descending sorted counts:

startyear	count
1502	2
1992	2
1493	2

 \Rightarrow sample rank: 3 (last line with count 2)

calculation: t_3

count correct year: 3

descending sorted counts:

startyear	count
1832	3
2020	2
1253	1

 \Rightarrow sample rank: 1

 $ranks = \langle 2, 3, 1 \rangle$

4. Powerset Table

score table:

year	score1	score2	score3
1992	0.1	0.2	0.3
1993	0.4	0.5	0.6
1994	0.7	0.8	0.9

power set table:

power set tubie.							
year	score1	score2	score3	score1 + score2	score1 + score3	score2 + score3	score1 + score2 + score3
1992	0.1	0.2	0.3	0.3	0.4	0.5	0.6
1993	0.4	0.5	0.6	0.9	1.0	1.1	1.5
1994	0.7	0.8	0.9	1.5	1.6	1.7	2.4