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E-Books in Academic Libraries

Ward, Suzanne M, Freeman, Robert S, Nixon, Judith M

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APPENDIX A

Transforming Page Data for a Single Read

The sequences of page numbers for two reading log sessions of the same book by the same reader are:

Session one: 1,2,3,1,2,3,7,9,8,5,11,12,21,22,13,14,15

Session two: 16,17,18,19,20,23,24,44,45,33,34,35,31,32,49,50,48,47,51,52,46,3,4,5,1,2,1,3

The sequences of page numbers with beginning page numbers 1–5 removed:

Session one: 7,9,8,5,11,12,21,22,13,14,15

Session two: 16,17,18,19,20,23,24,44,45,33,34,35,31,32,49,50,48,47,51,52,46,3,4,5,1,2,1,3

1. Concatenate page numbers into a single sequence or “Read”:

7,9,8,5,11,12,21,22,13,14,15,16,17,18,19,20,23,24,44,45,33,34,35,31,32,49,50,48,47,51,52,46,3,4,5,1,2,1,3

2. Convert page numbers to page changes:

2 -1 -3 6 1 9 1 -9 1 1 1 1 1 1 3 1 20 1 -12 1 1 -4 1 17 1 -2 -1 4 1 -6 -43 1 1 -4 1 -1 2

3. Partition page changes into “Passages”:

{2 -1} {-3} {6 1} {9 1} {-9 1 1 1 1 1 1} {3 1} {20 1} {-12 1 1} {-4 1} {17 1} {-2 -1} {4 1} {-6} {-43 1 1} {-4 1 -1 2}

4. Add names to Passages. *Note.* The first number of each Passage is the number of pages jumped. The second is the number of continuous pages read after the jump.

FORWARD(2)(2) SMALL JUMP BACK(-3)(1) SMALL JUMP FORWARD(6)(2) BIG JUMP FORWARD(9)(2) BIG JUMP BACK(-9)(8) SMALL JUMP FORWARD(3)(2) BIG JUMP FORWARD(20)(2) BIG JUMP BACK(-12)(3) SMALL JUMP BACK(-4)(2) BIG JUMP FORWARD(17)(2) SMALL JUMP BACK(-2)(2) SMALL JUMP FORWARD(4)(2) SMALL JUMP BACK(-6)(1) BIG JUMP BACK(-43)(3) SMALL JUMP BACK(-4)(4)

5. Create a sequence of binary transitions or paired Passages:

FOR-SJB SJB-SJF SJF-BJF BJF-BJB BJB-SJF SJF-BJF BJF-BJB BJB-SJB SJB-BJF BJF-SJB SJB-SJF SJF-SJB SJB-BJB BJB-SJB