Academic E-Books
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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: 16,17,18,19,20,23,24,44,45,33,34,35,31,32,49,50,48,47,5,1,52,46,3,4,5,1,2,1,3

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 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