Nate Test 1: In this test, I will be mostly testing the pushing off of multiple boxes at the same time.   
 Belt Length = 35

5 10 15 This is widths of A, B, C respectively

1 17 67 Box 1. Added to A

7 17 57 Box 2. Added to B

14 17 30 Box 3. Added to C

2 18 39 Box 4. Added to A

8 18 50 Box 5. Added to B

13 18 40 Box 6. Added to C

3 35 77 Box 7. Added to A. Boxes 1 and 4 fall off A

6 35 79 Box 8. Added to B. Boxes 2 and 5 fall off B

11 35 88 Box 9. Added to C. Boxes 3 and 6 fall off C

4 19 99 Box 10. Added to A. Box 7 falls off A

1 9 66 Box 11. Added to A

1 7 88 Box 12. Added to A.

8 6 99 Box 13 Added to B.

10 12 77 Box 14 Added B.

8 35 88 Box 15 Added to B. Box 8, 13, and 14 falls off B

-1 -1 -1 End of simulation

Nate Test 2: In this one, I am mostly going to test how close I can get to them falling off  
 Belt Length = 60

50 28 13

1 30 65 Box 1. Added to C.

13 30 67 Box 2 Added to C.

1 14 77 Box 3 Added to C.

1 1 45 Box 4 Added to C. Box 1 Falls off C.

1 119 78 Box 5 Added to C. Boxes 2, 3, and 4 Fall off C.

1 1 1 Box 6 Added to C. Box 5 falls off C.

60 50 70 Box 7 Added to A.

29 30 51 Box 8 Added to A.

1 60 70 Box 9 Added to C. Box 6 Falls off C.

130 50 140 Box 10 Added to A. Boxes 7, 8, and 10 Fall off A.

28 28 28 Box 11 Added to B.

28 45 10000 Box 12 Added to B.

10000 50 50 Box 13 Added to A.

1000 120 1 Box 14 Added to C. Box 9 and 14 Fall off C.

20 20 77 Box 15 Added to B. Box 11 Falls of B