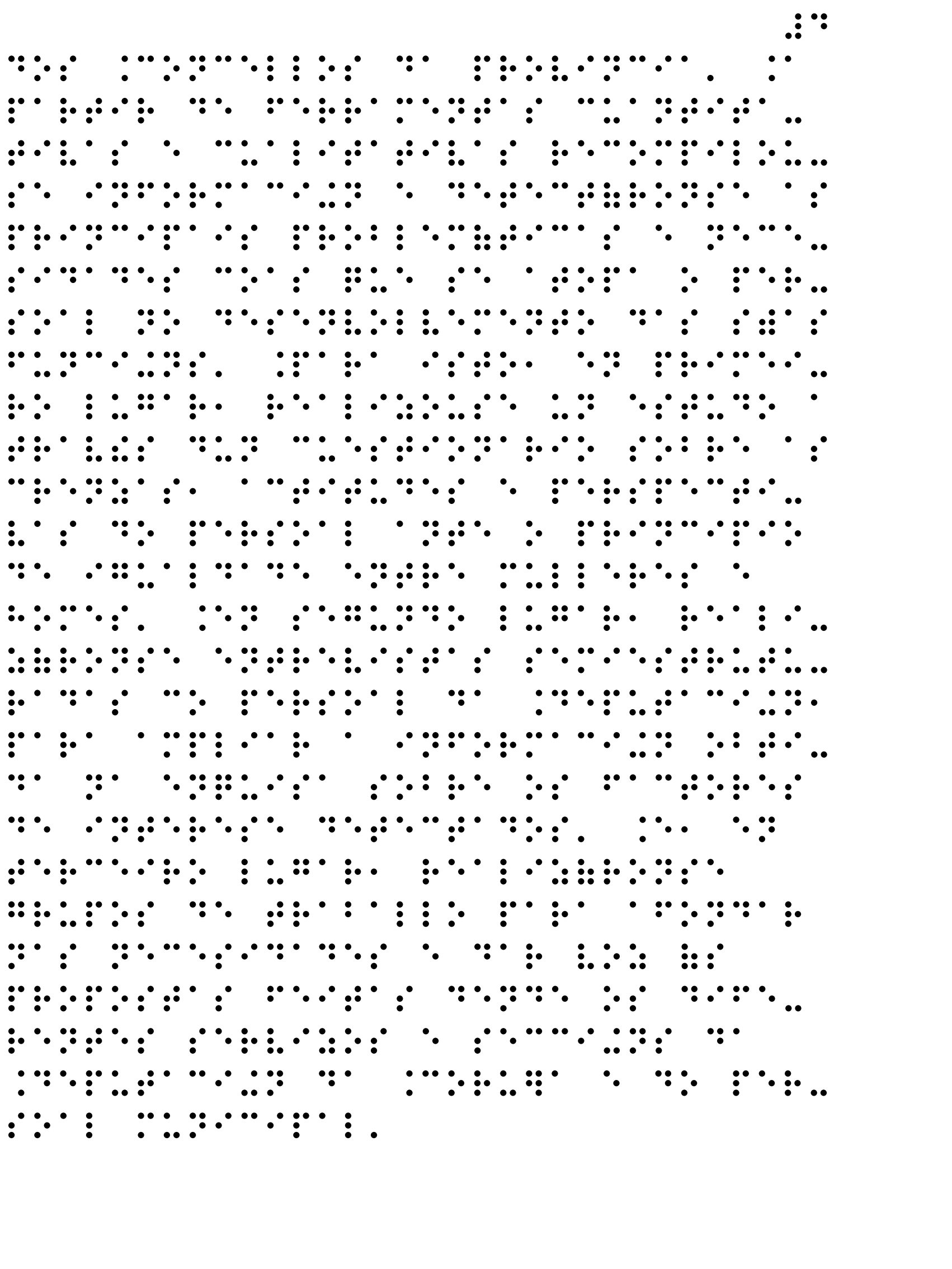
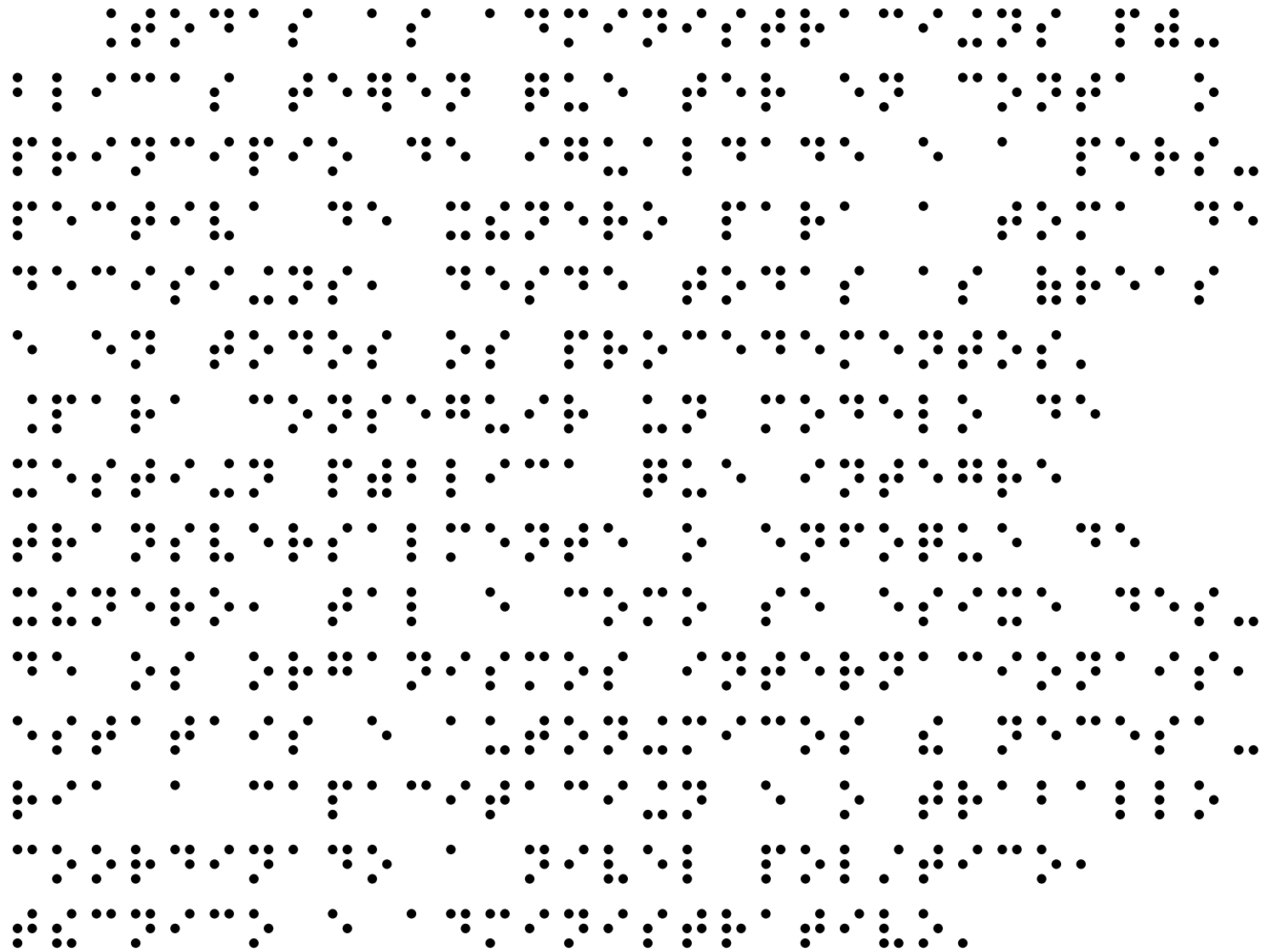






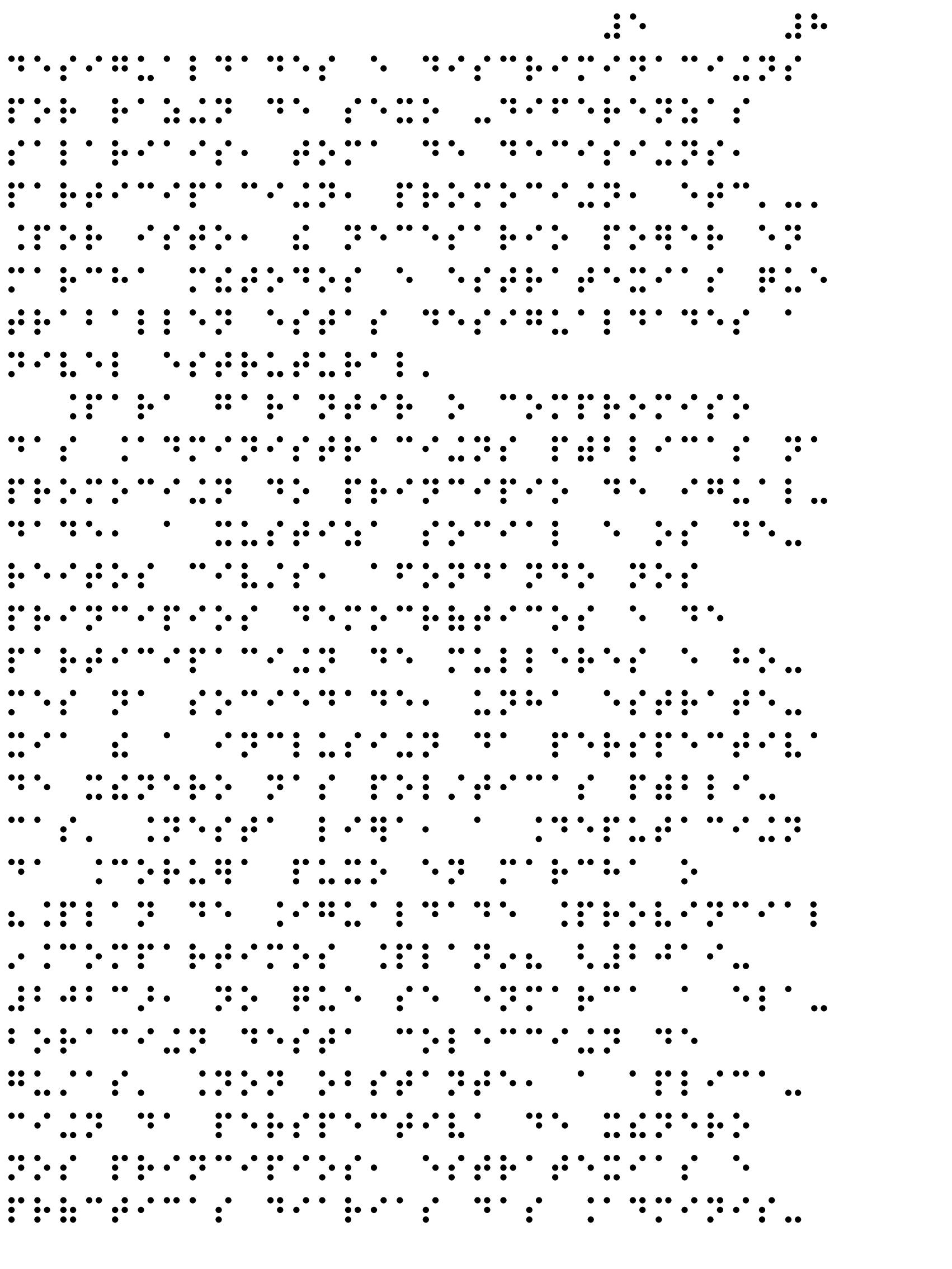


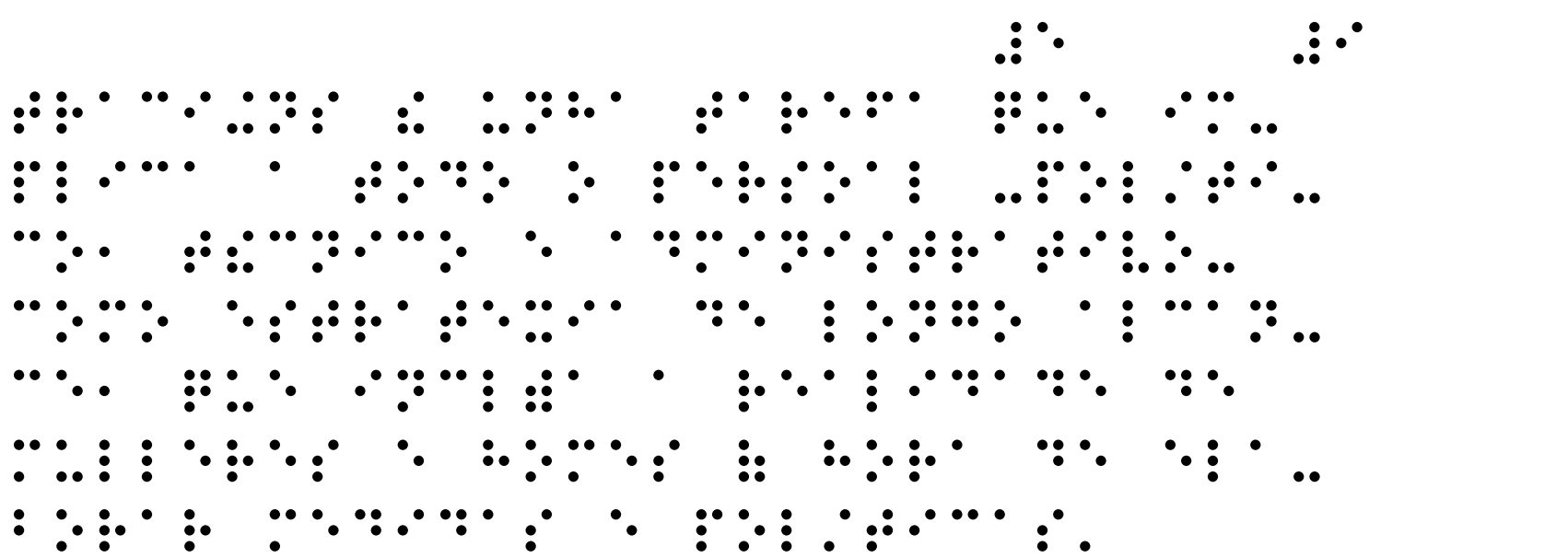














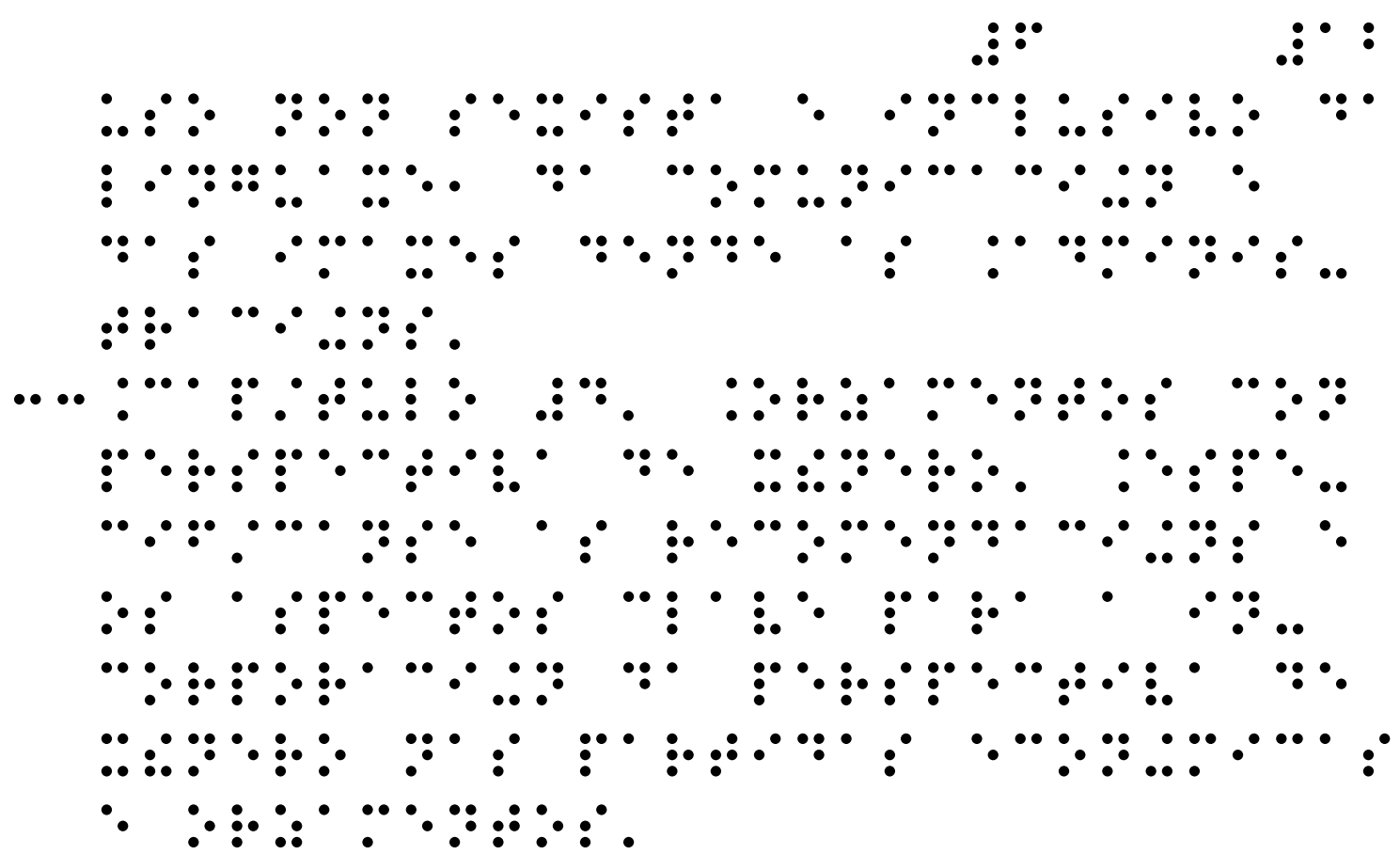


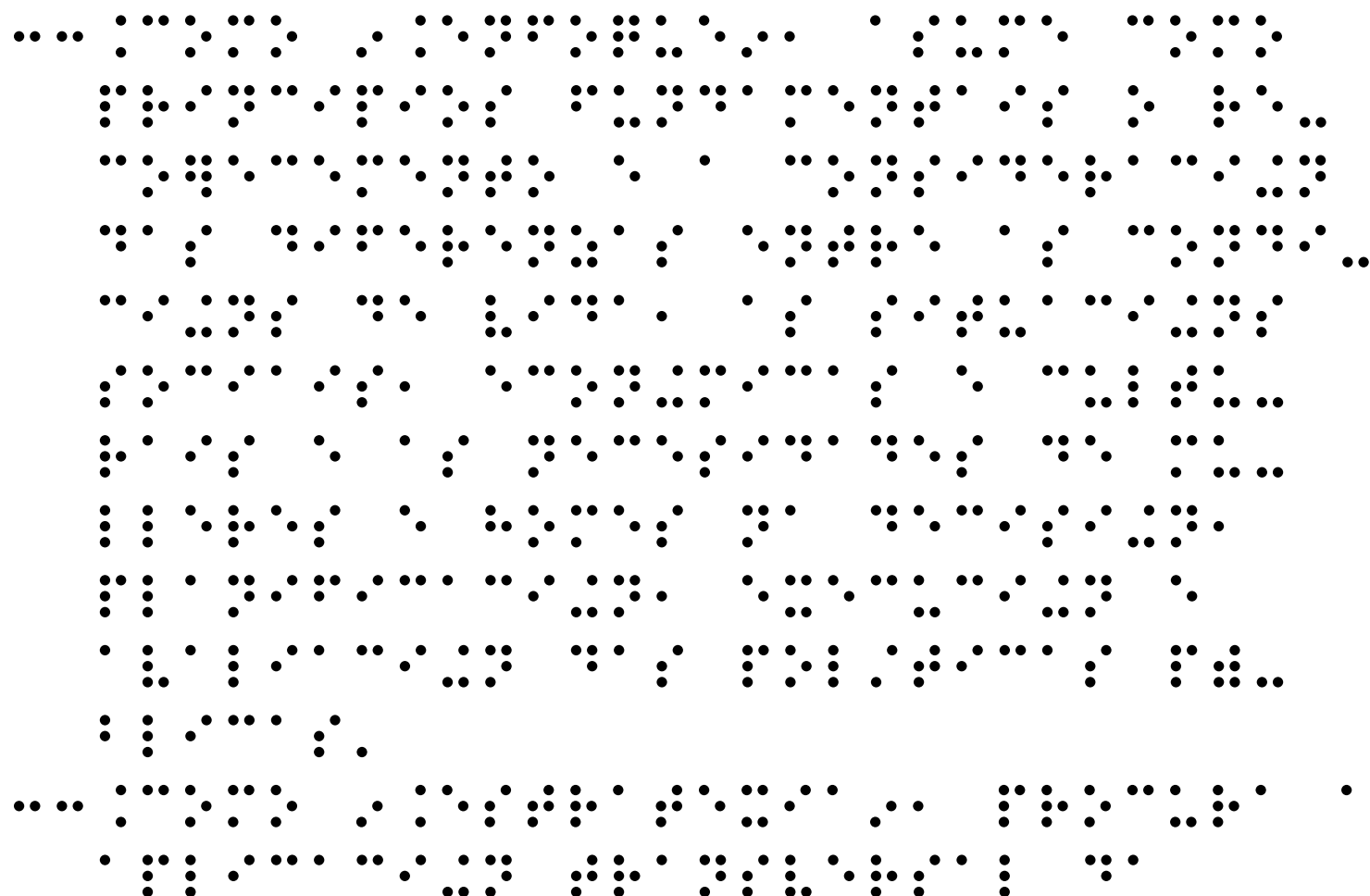
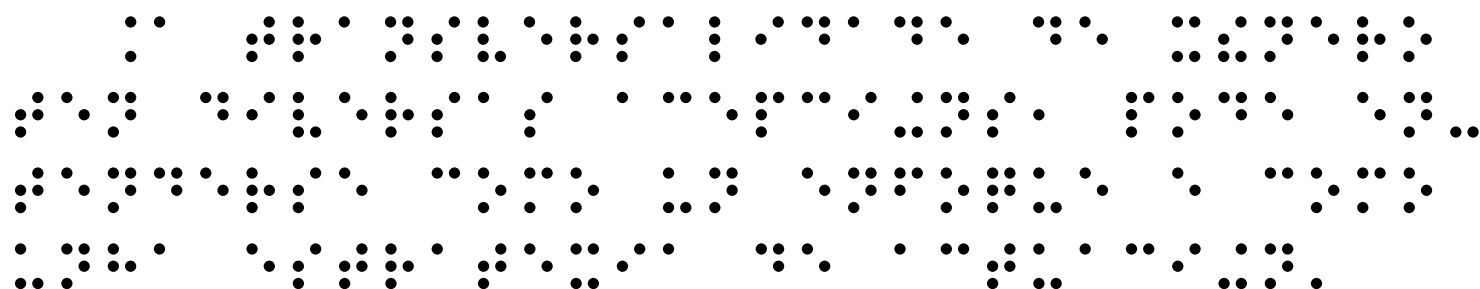
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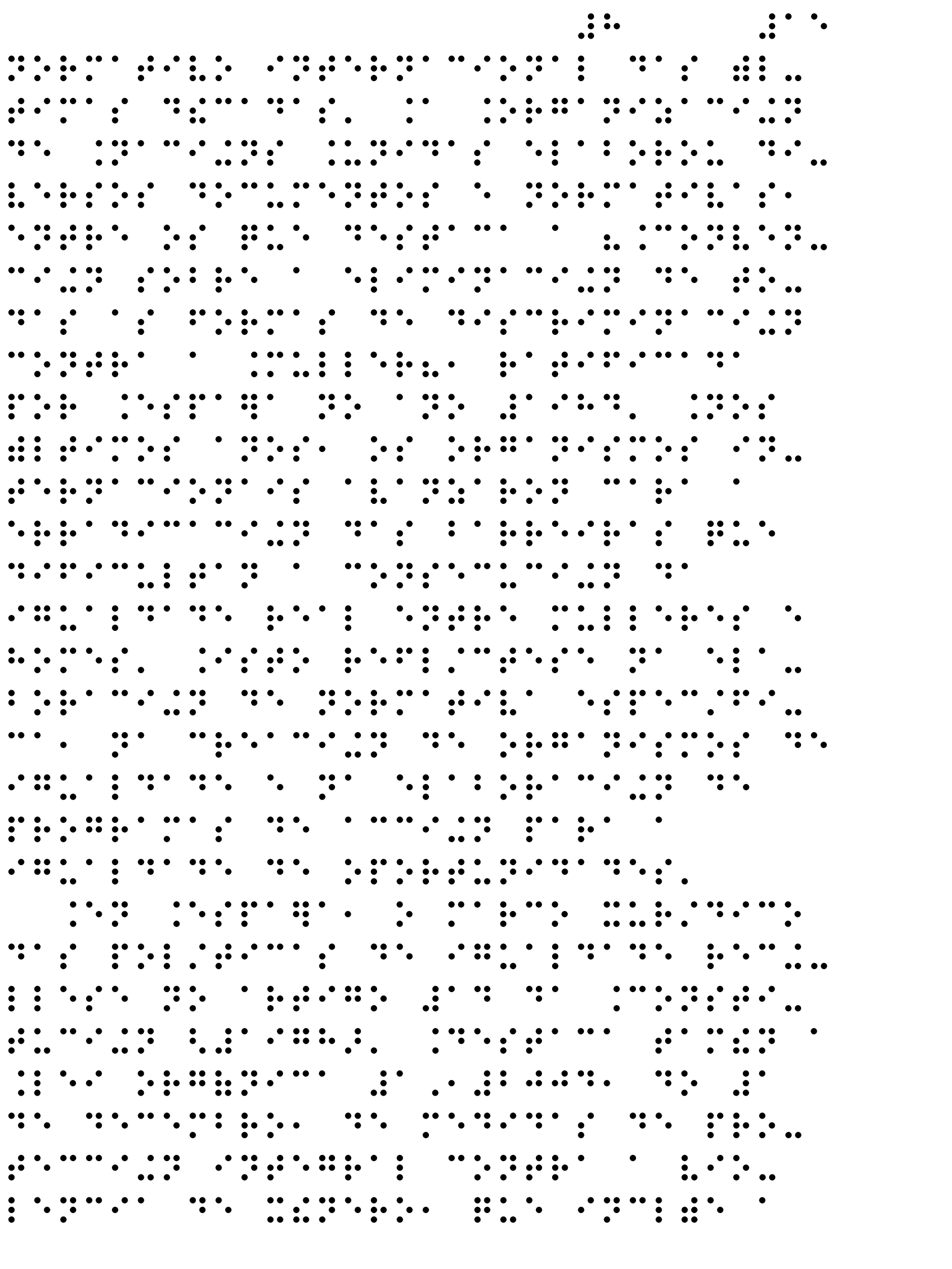


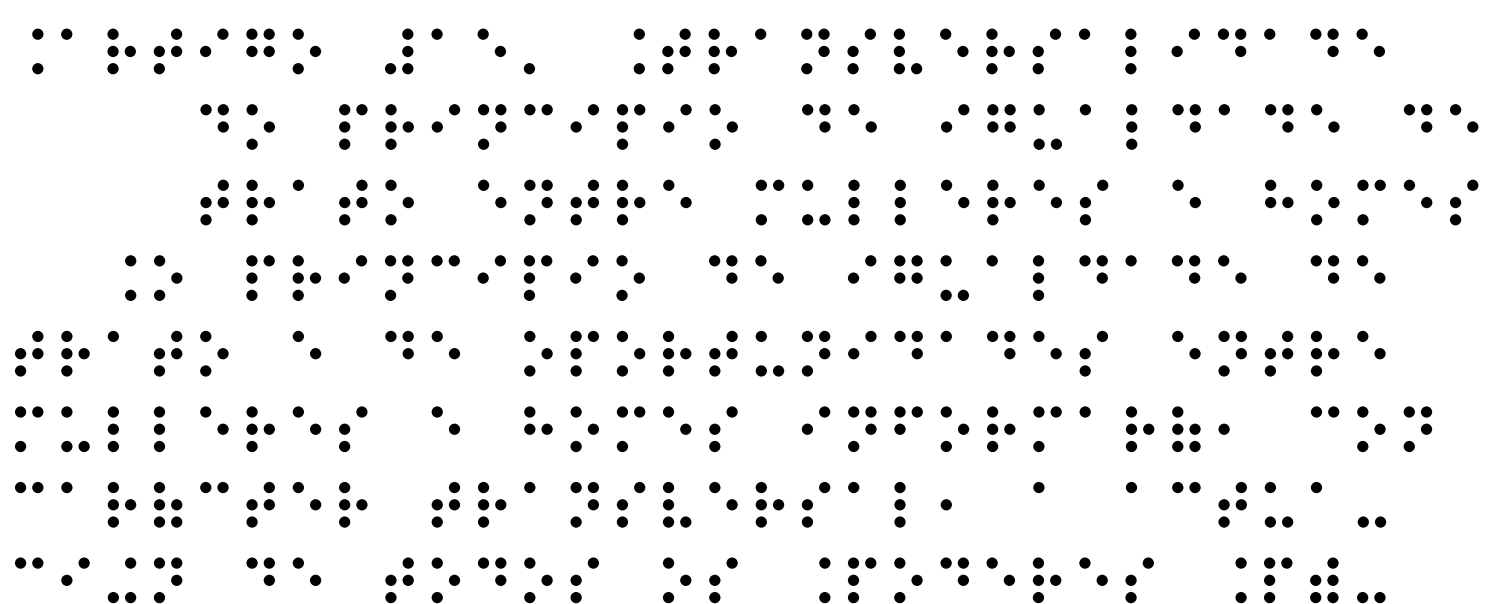
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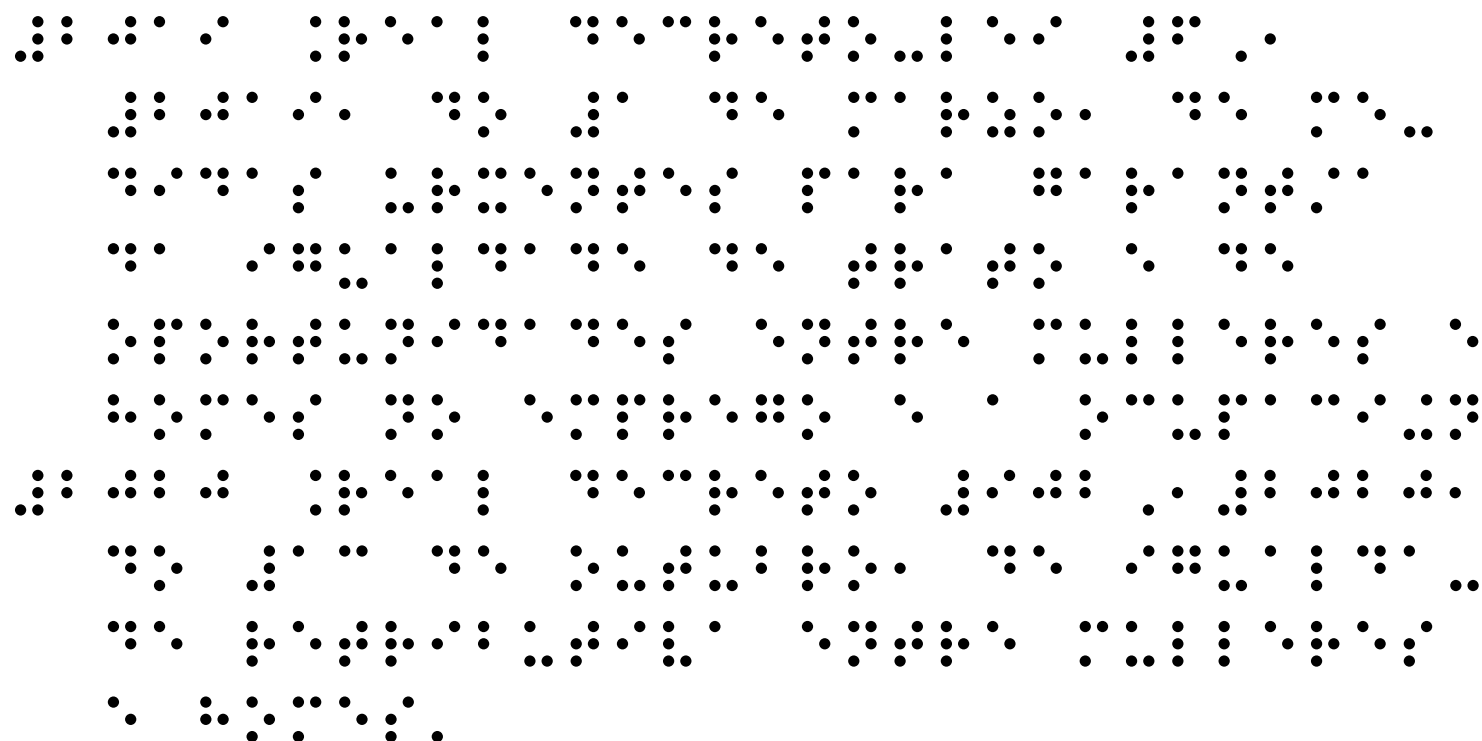
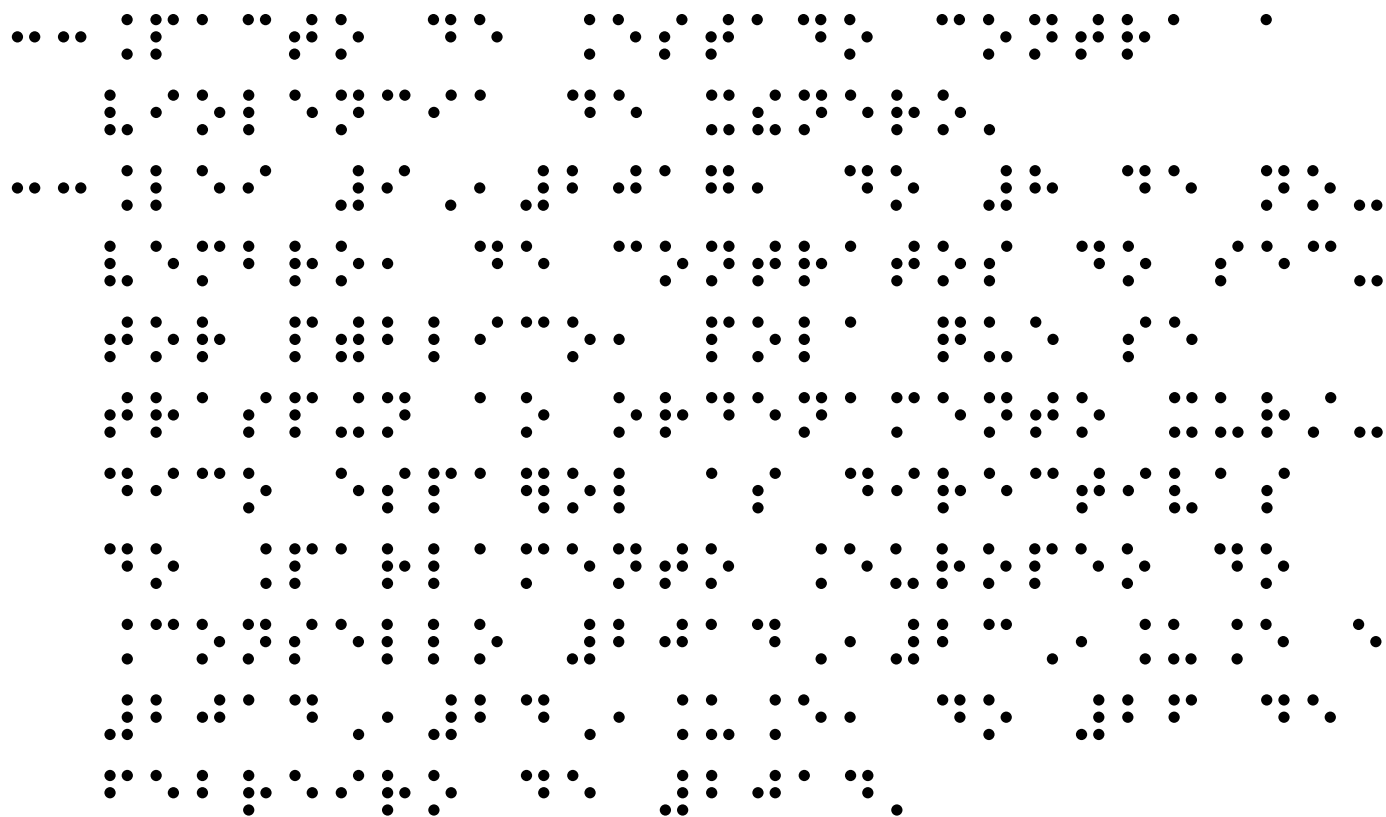
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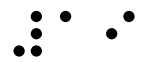




The image shows four distinct dot patterns arranged horizontally. The first pattern consists of 1 dot. The second pattern consists of 2 dots. The third pattern consists of 3 dots. The fourth pattern consists of 4 dots.

The image displays a 15x15 grid of black dots on a white background. The dots are arranged in a pattern that suggests a banded structure, with higher density along the main diagonal and some off-diagonal elements, particularly in the lower-left and upper-right quadrants. This visual representation likely corresponds to the sparse matrix  $A$  mentioned in the text, which is used to illustrate the performance of the proposed algorithm compared to the standard LU decomposition.





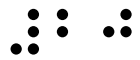
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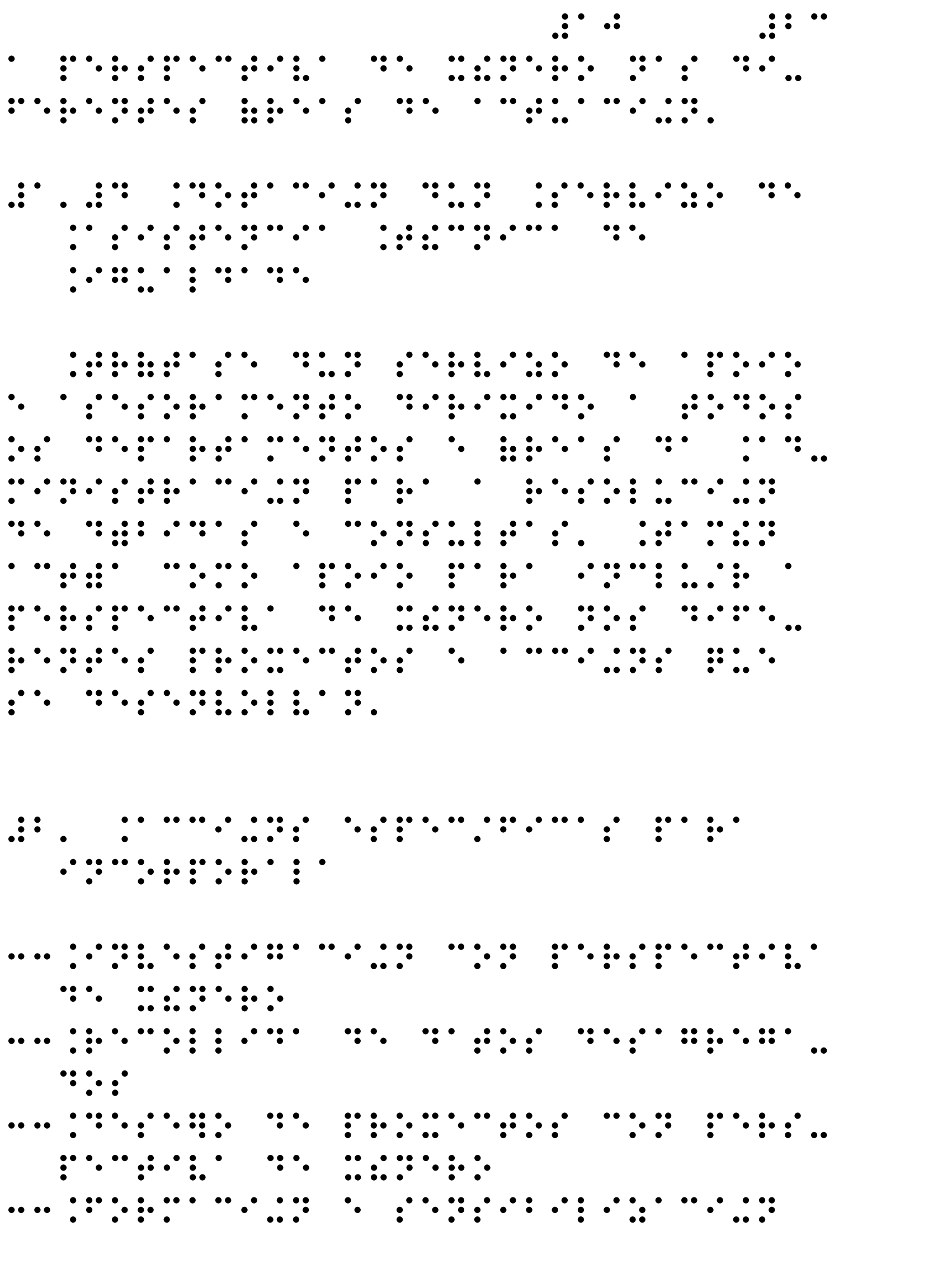
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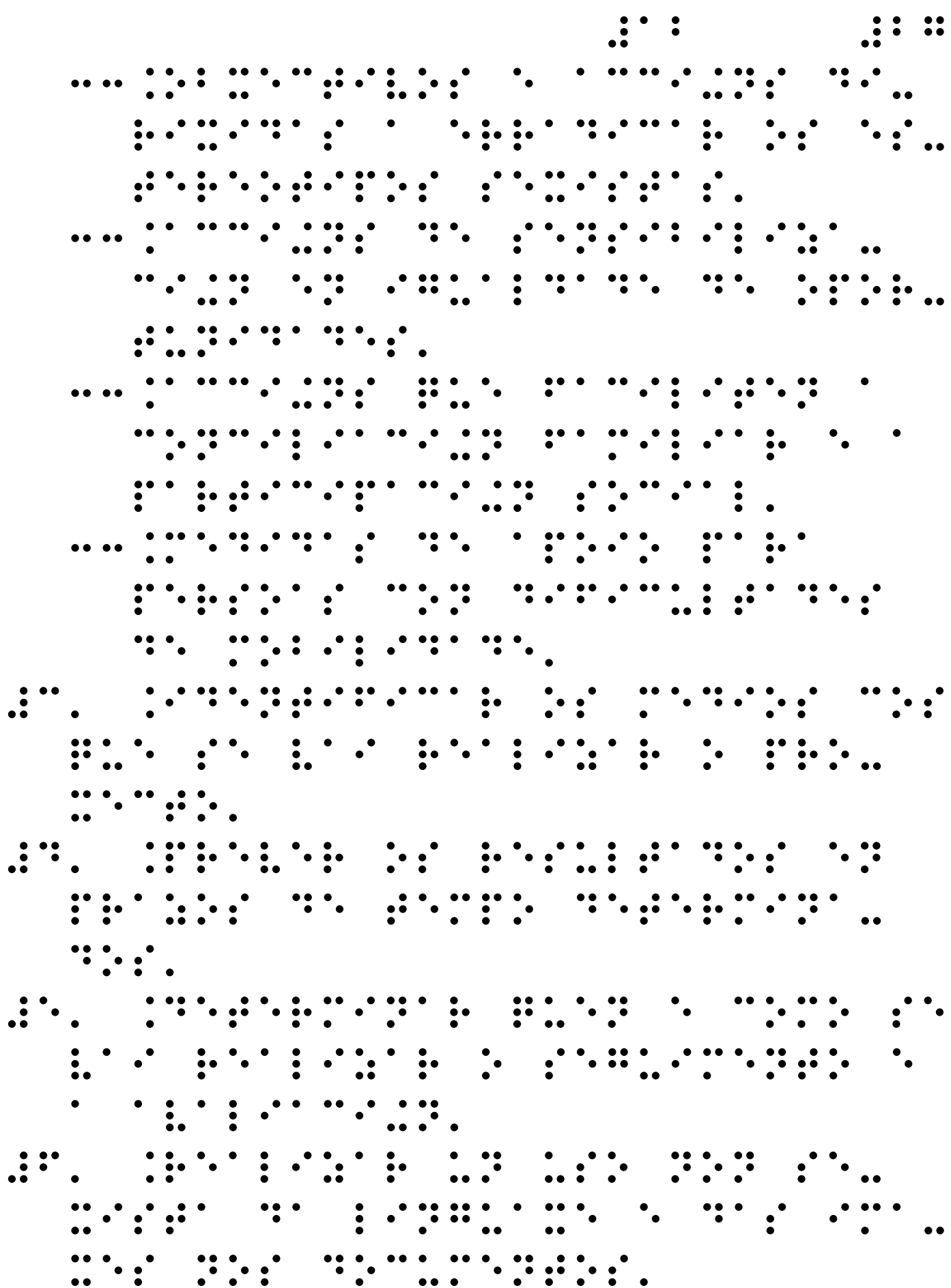












1. 2. 3.

4. 5. 6.

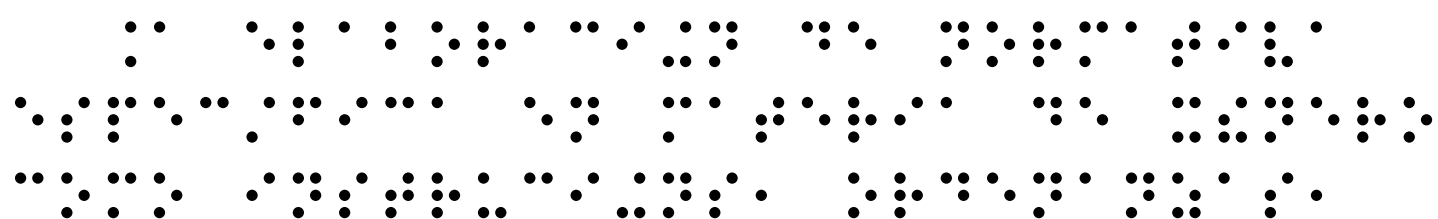
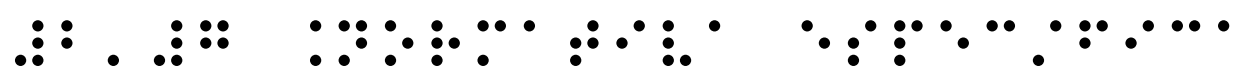
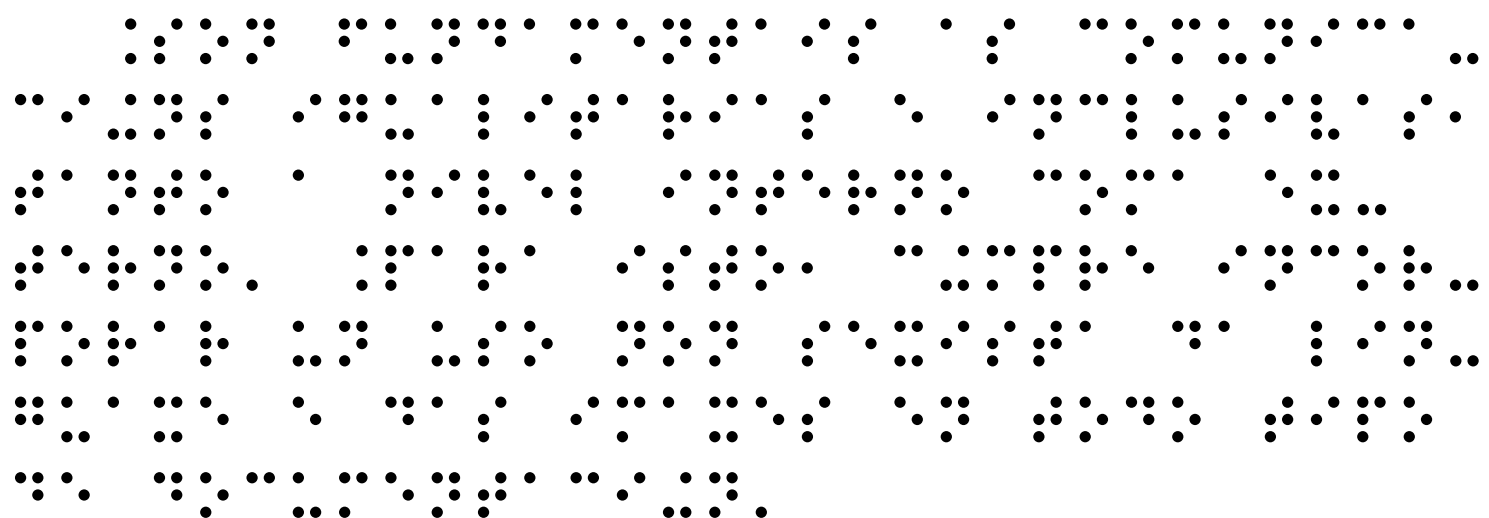
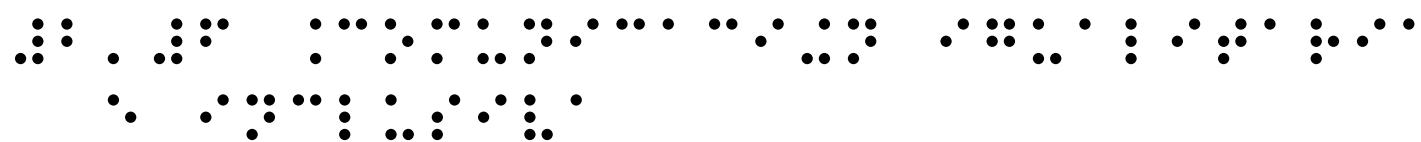
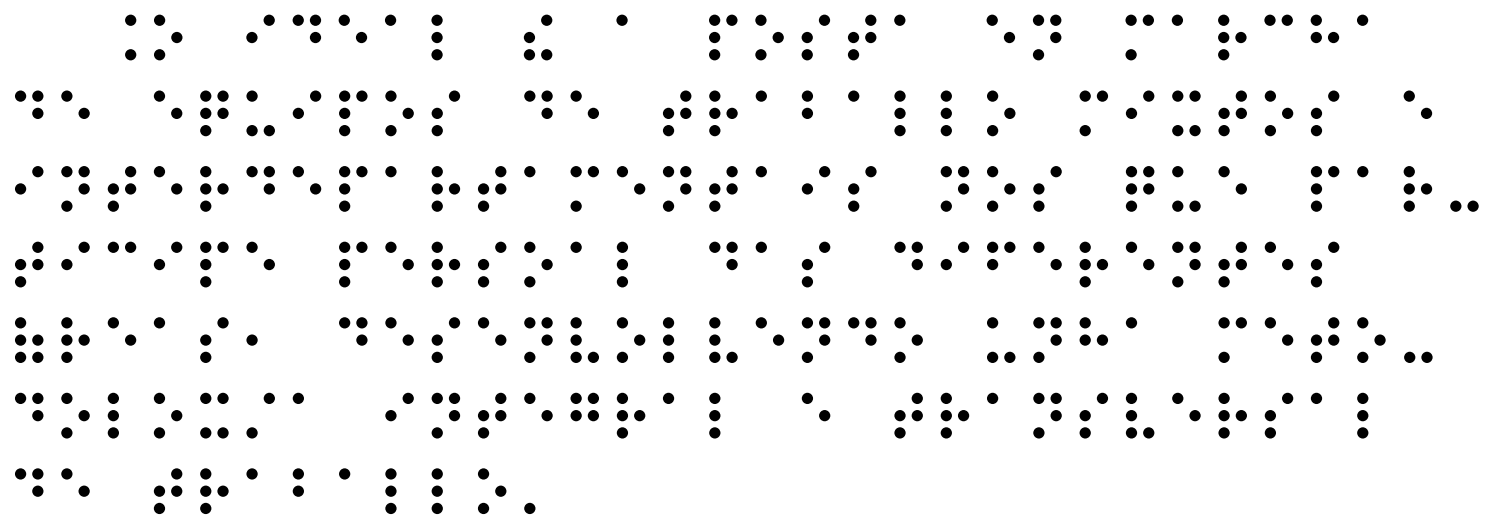
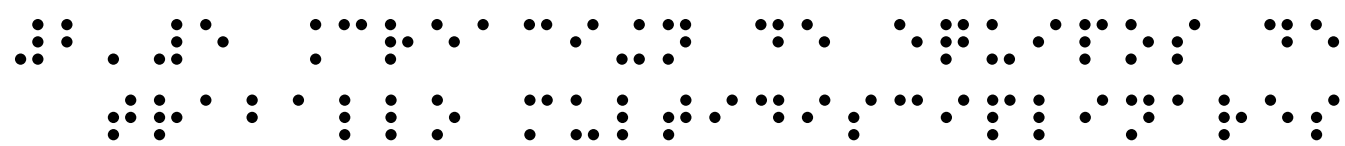
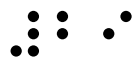
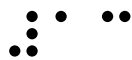
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

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A 4x15 grid of black dots on a white background. The dots are arranged in four rows and fifteen columns, forming a sparse, abstract pattern. The dots are arranged in four rows and fifteen columns, with varying densities and shapes across the grid.

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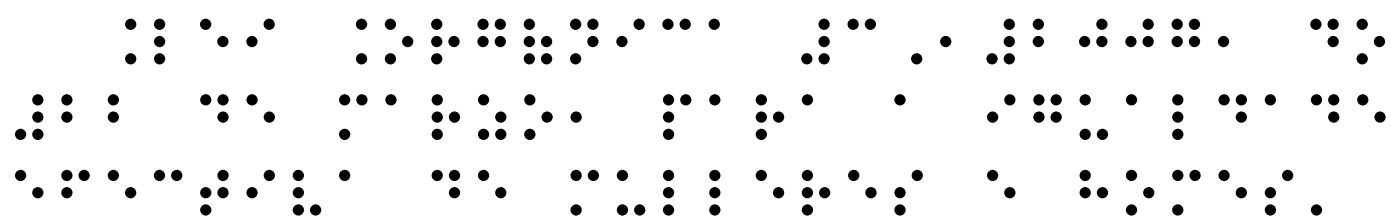
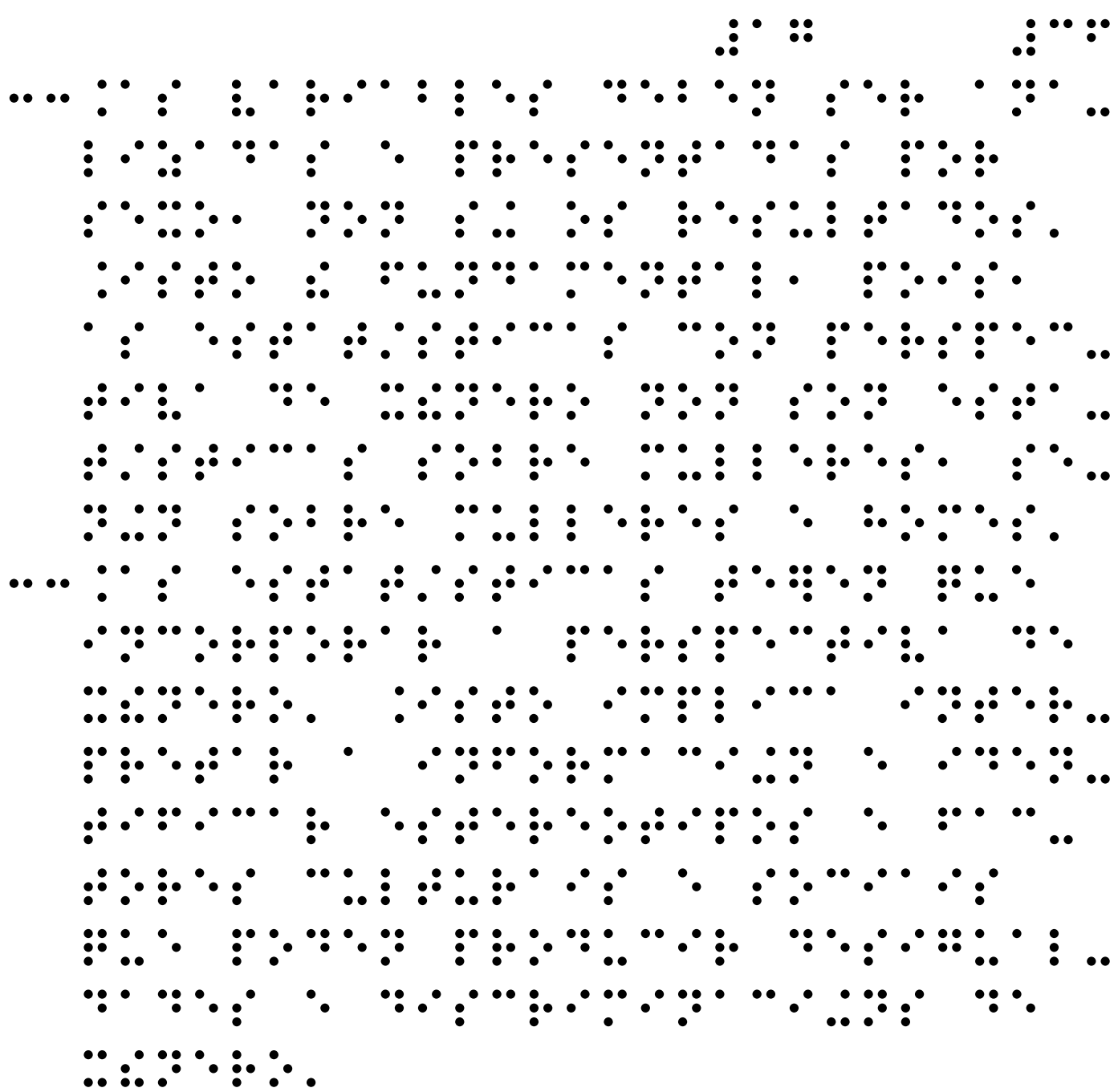
3. 4.

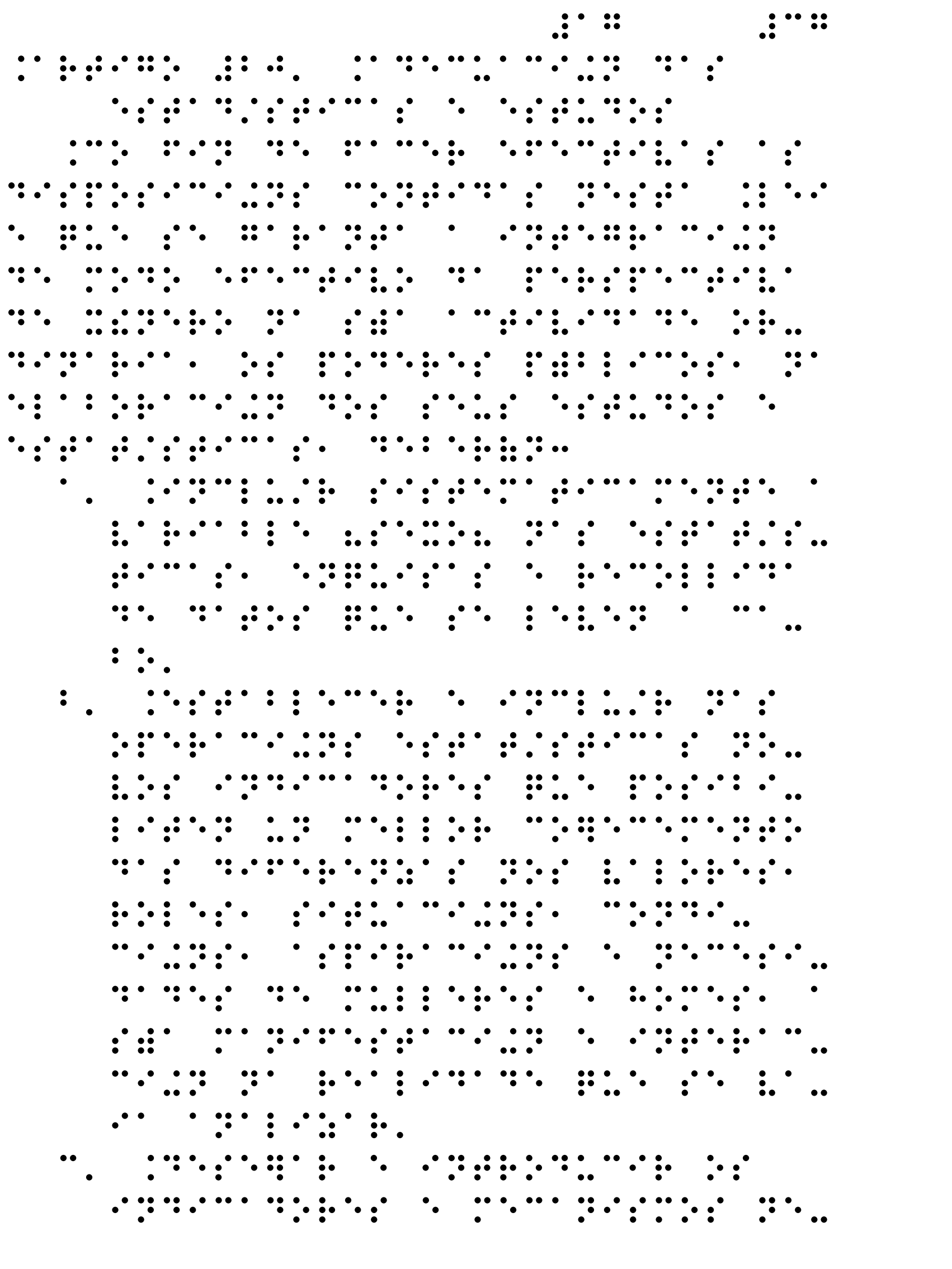
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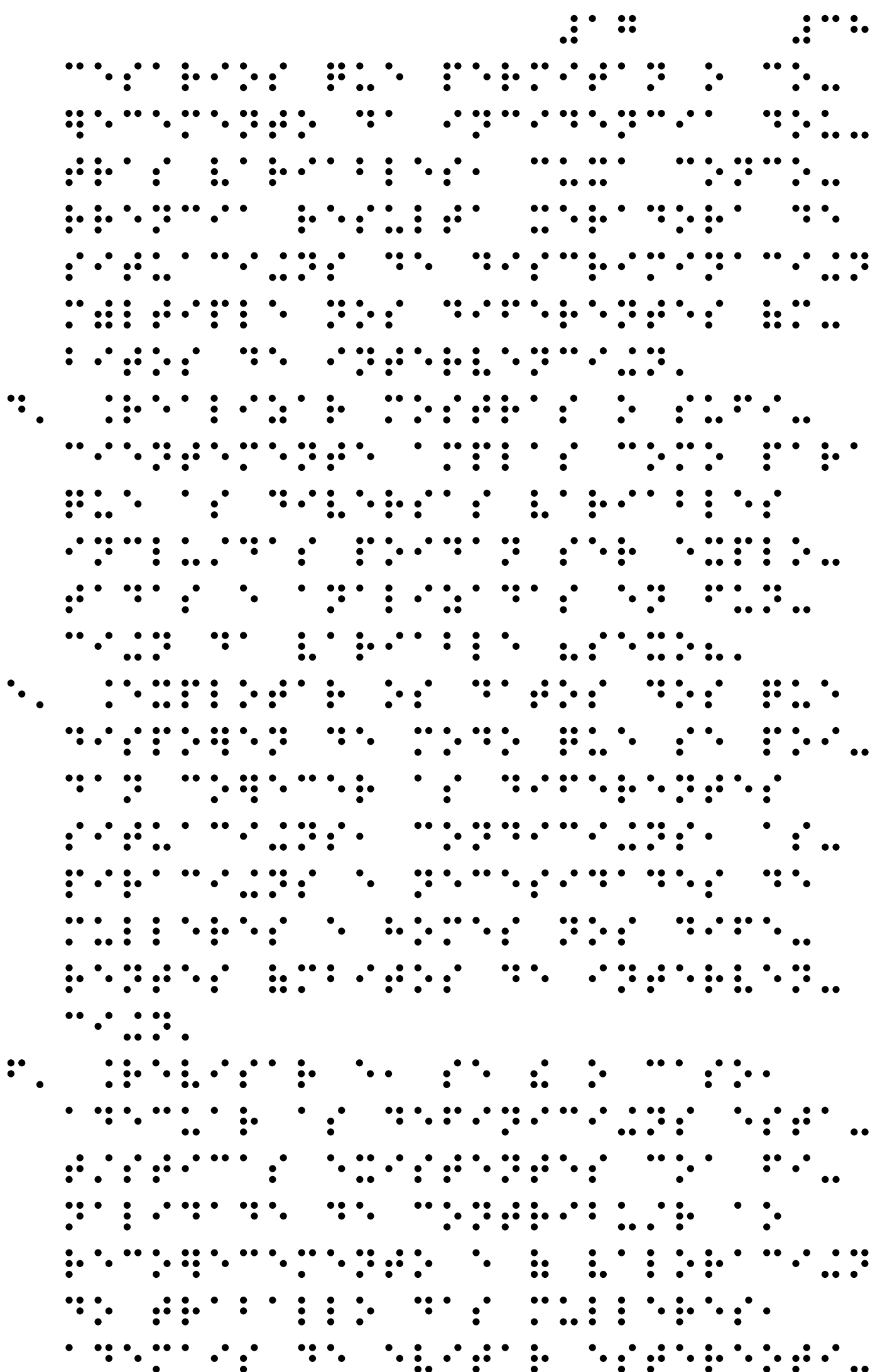
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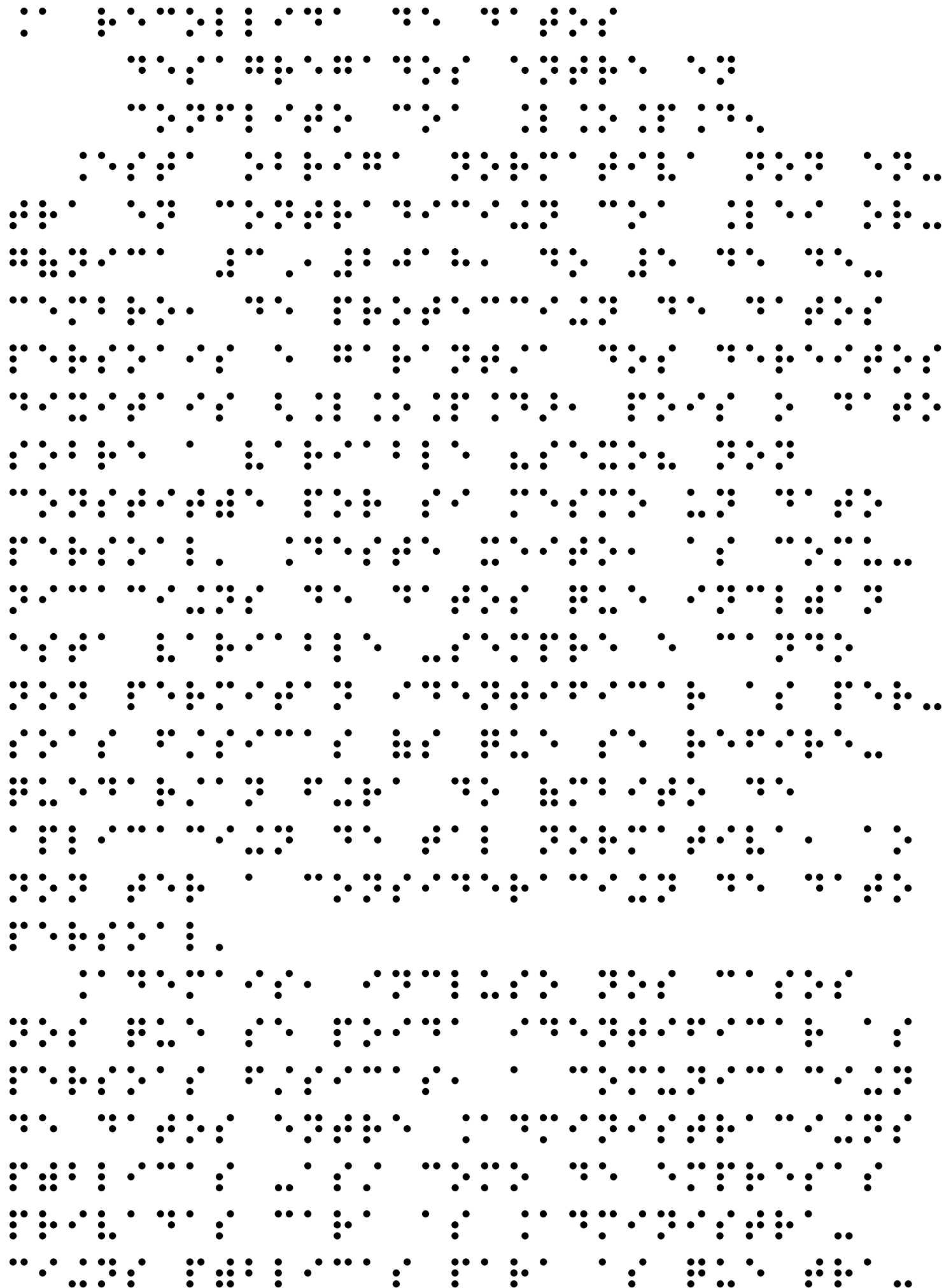
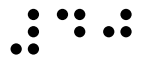
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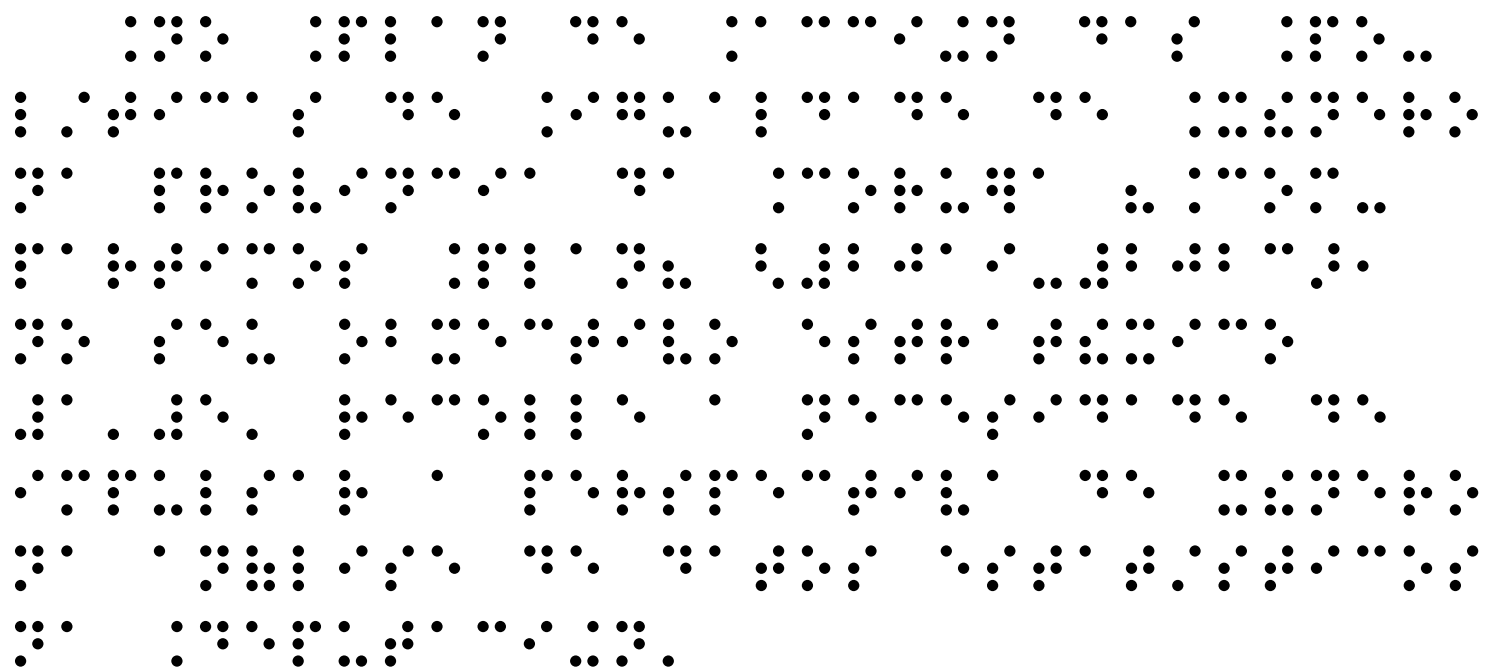


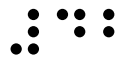












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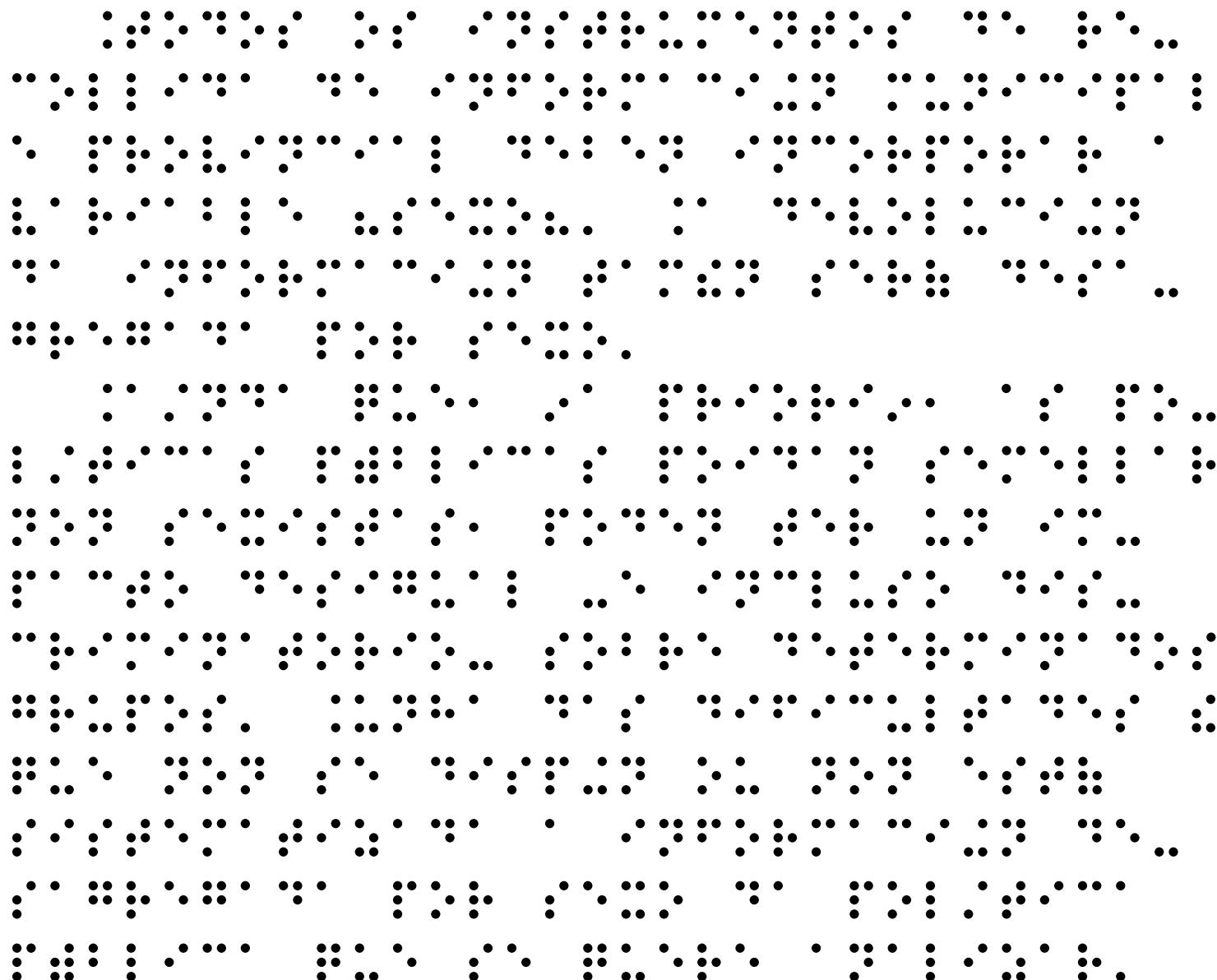
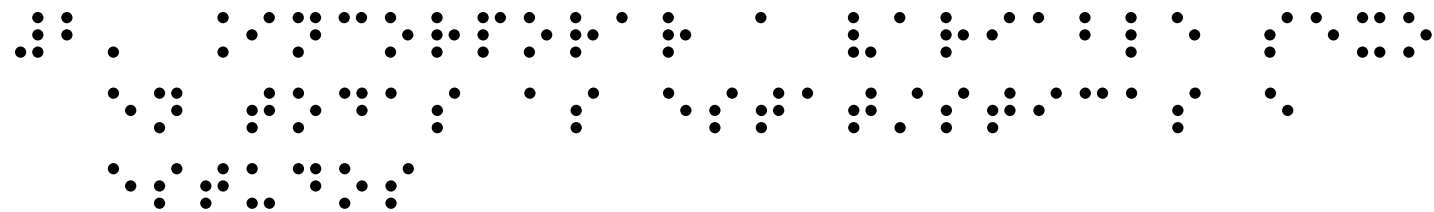
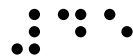
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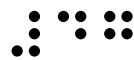
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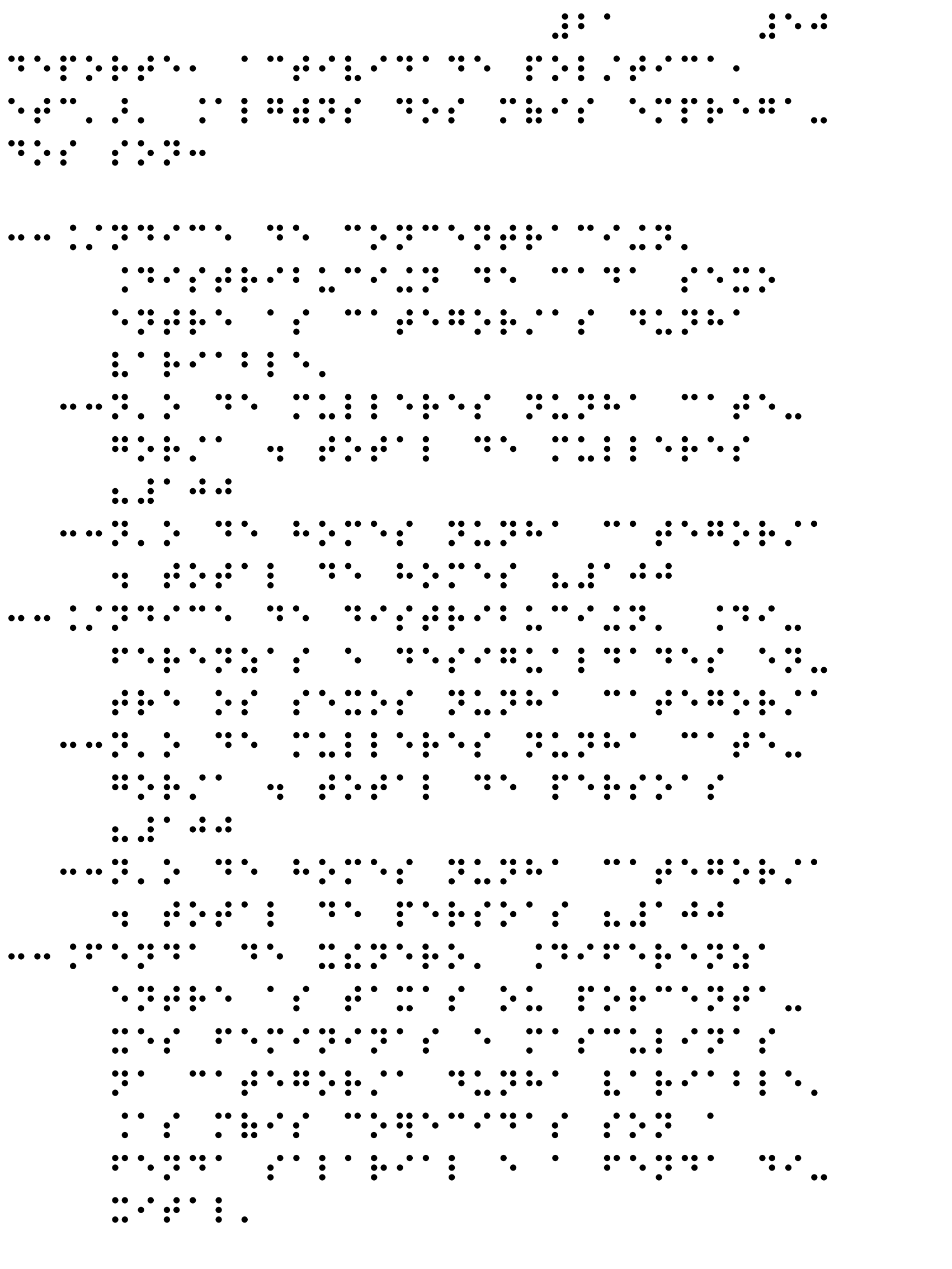
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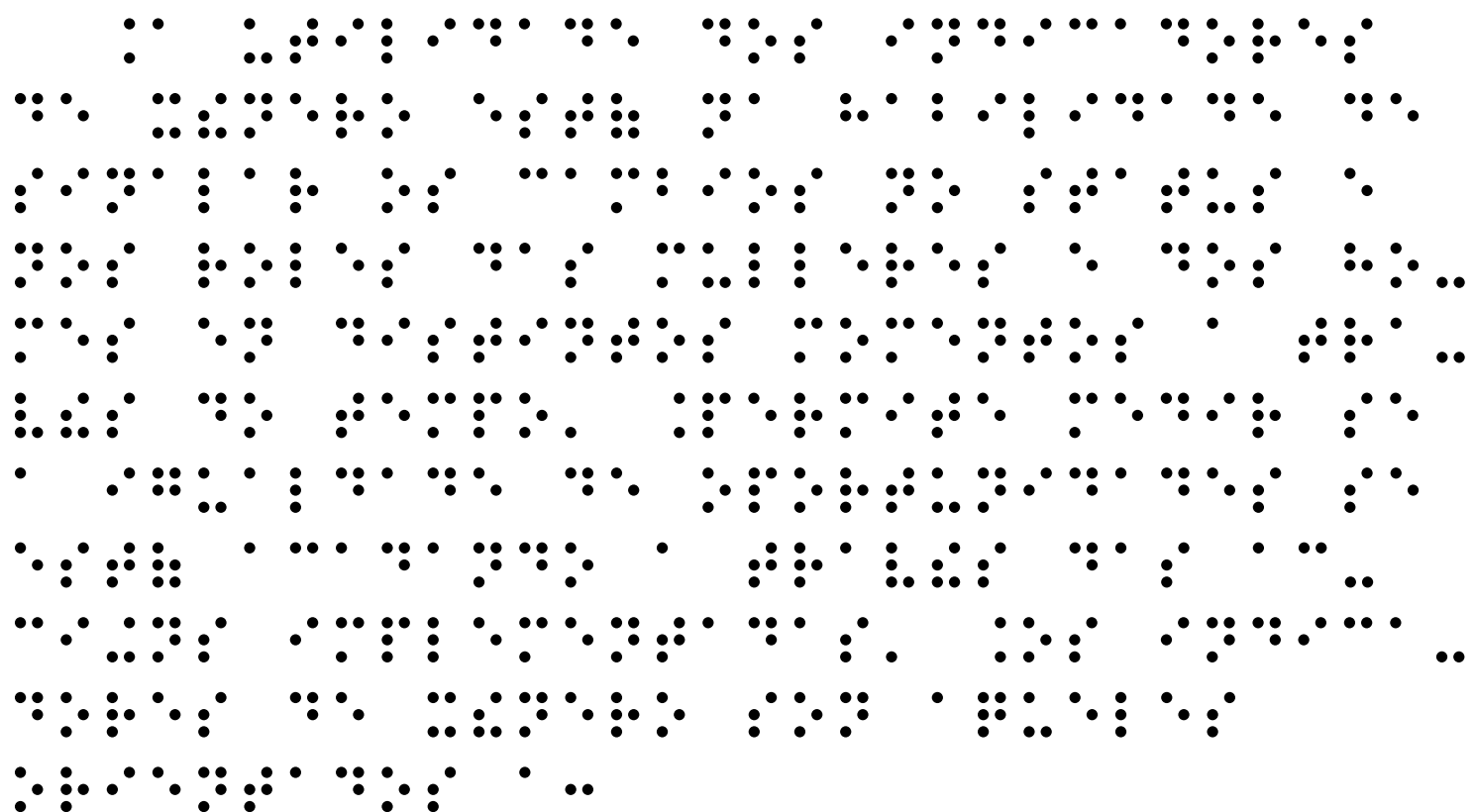
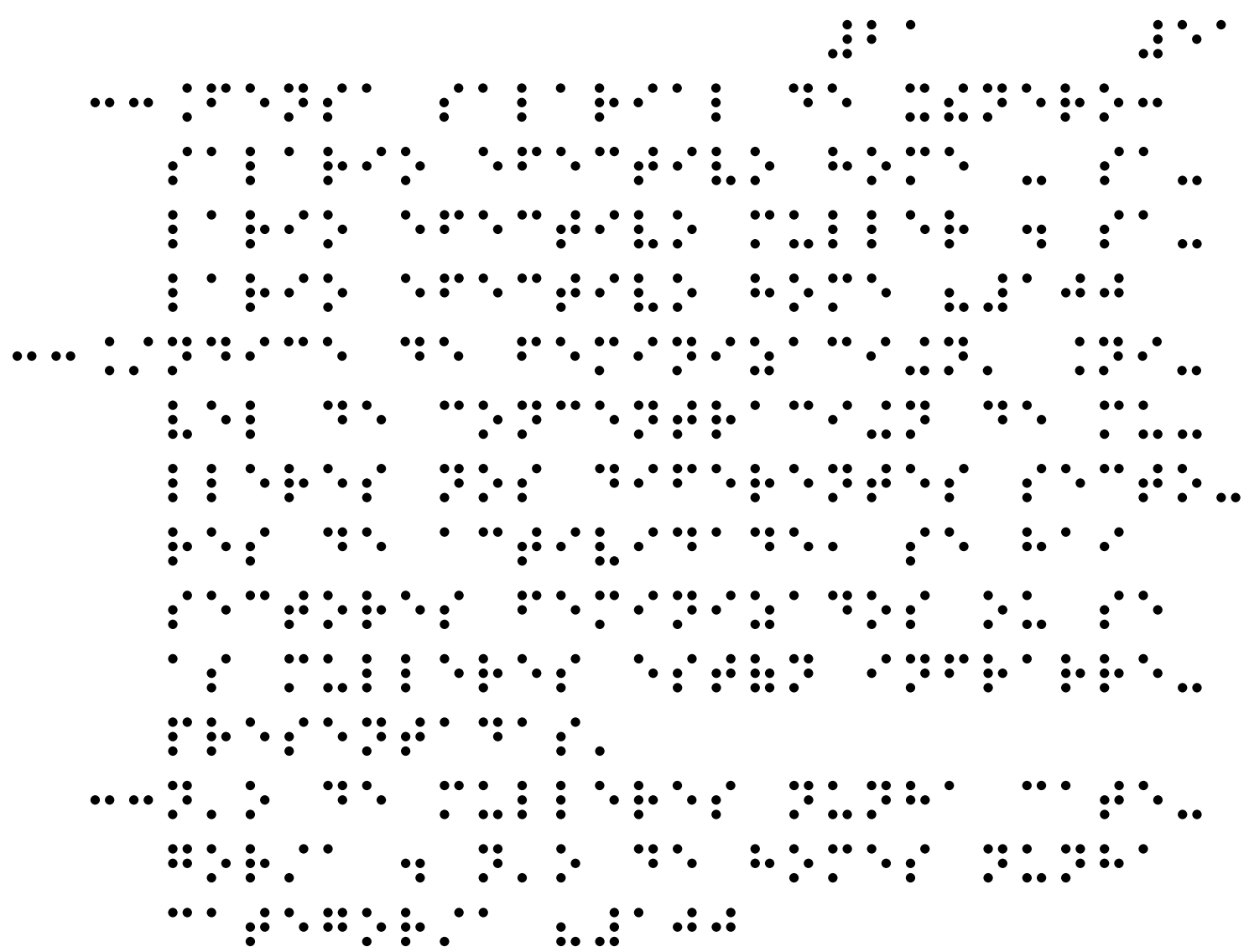
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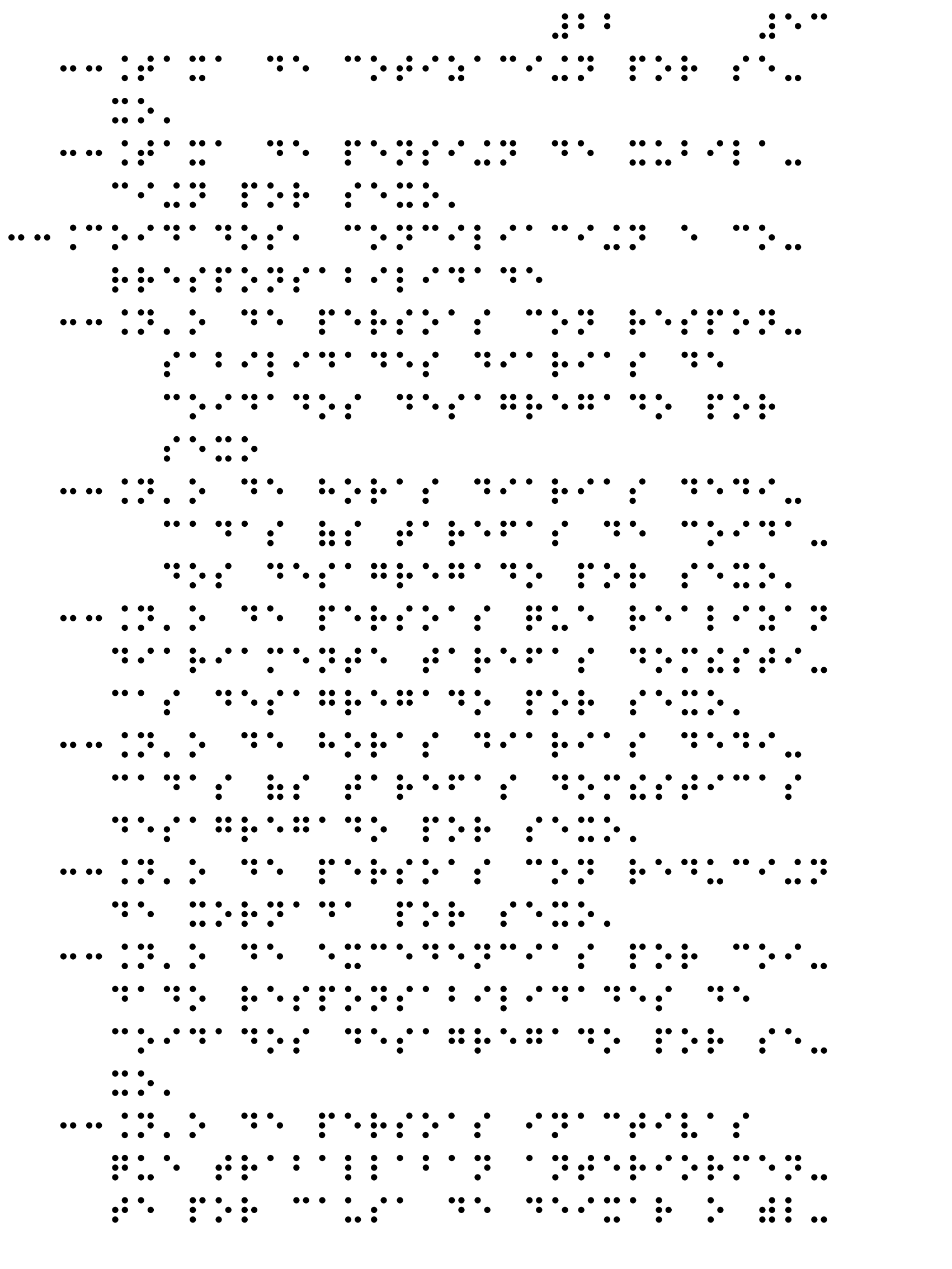
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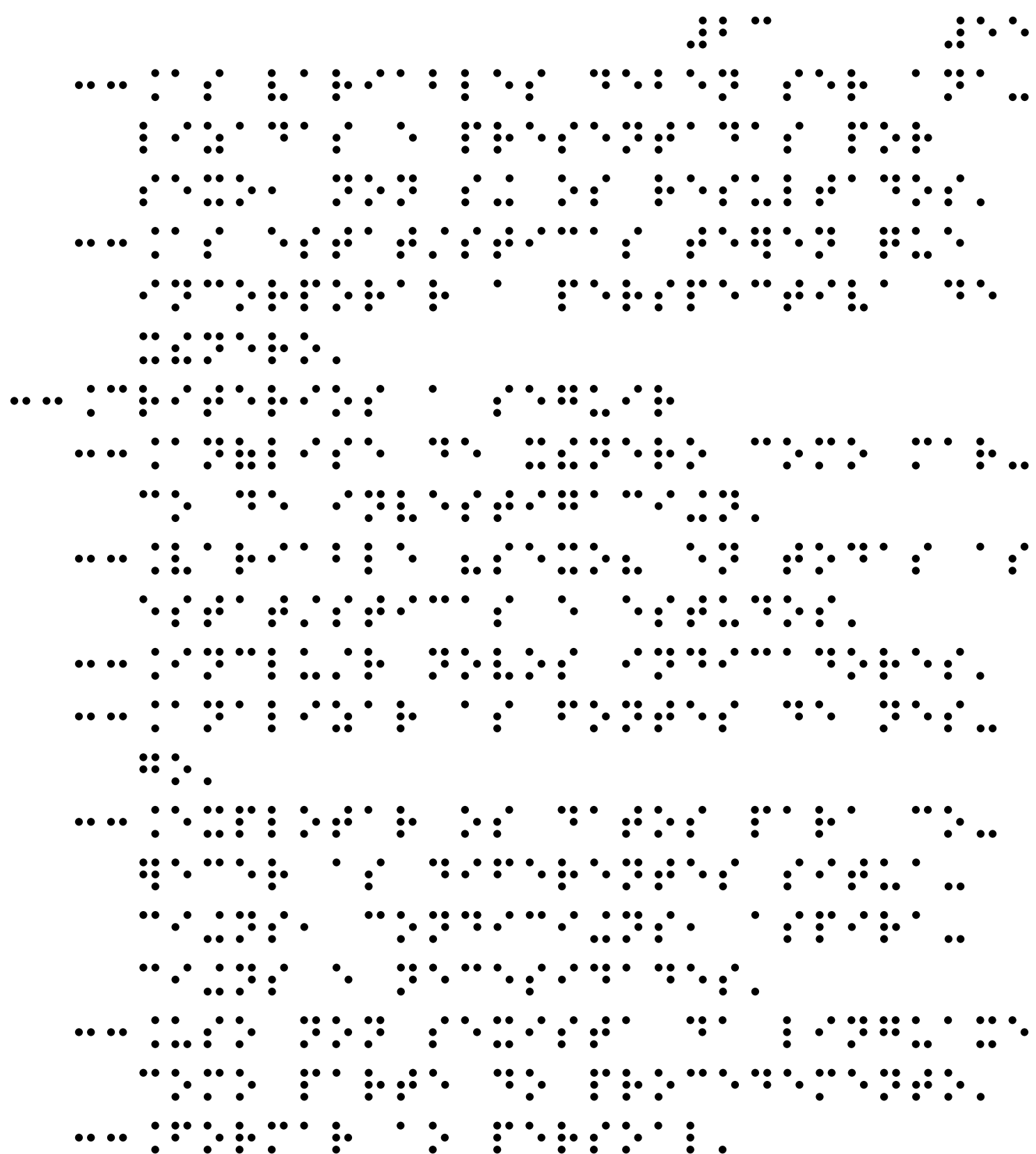














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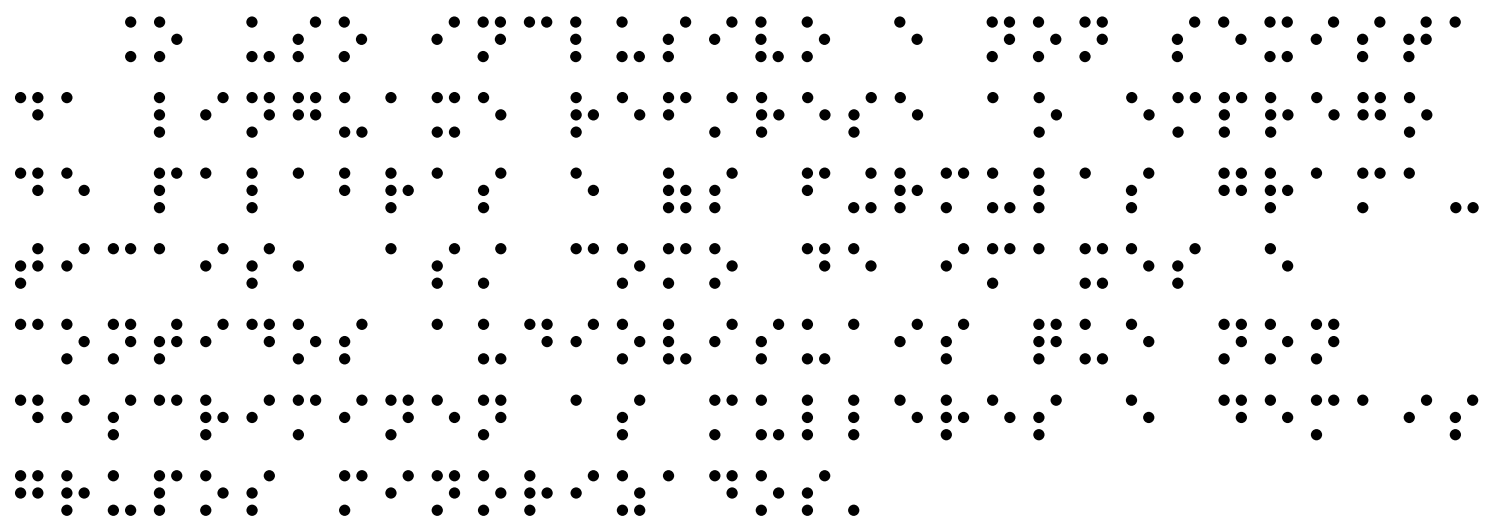


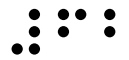
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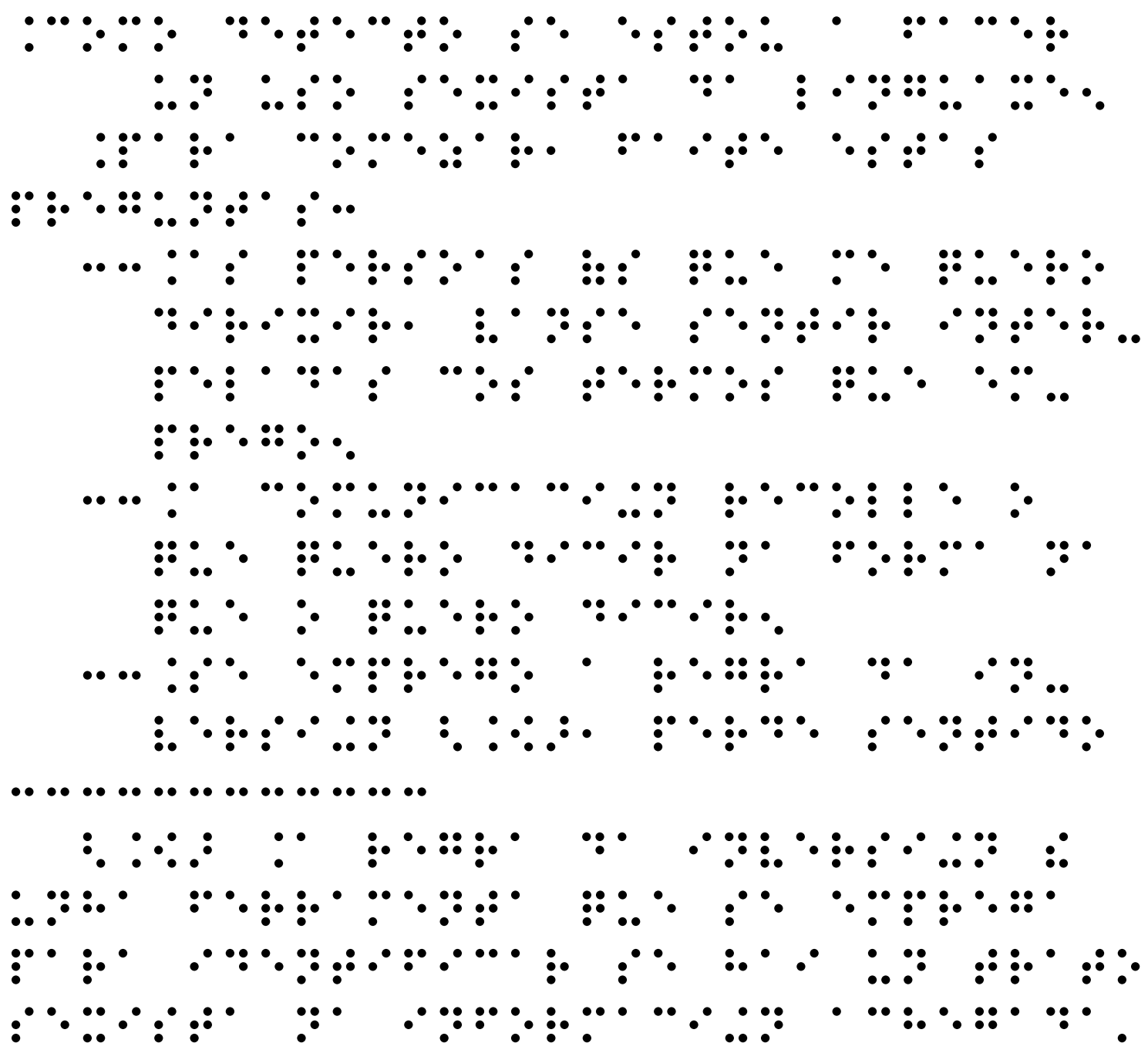
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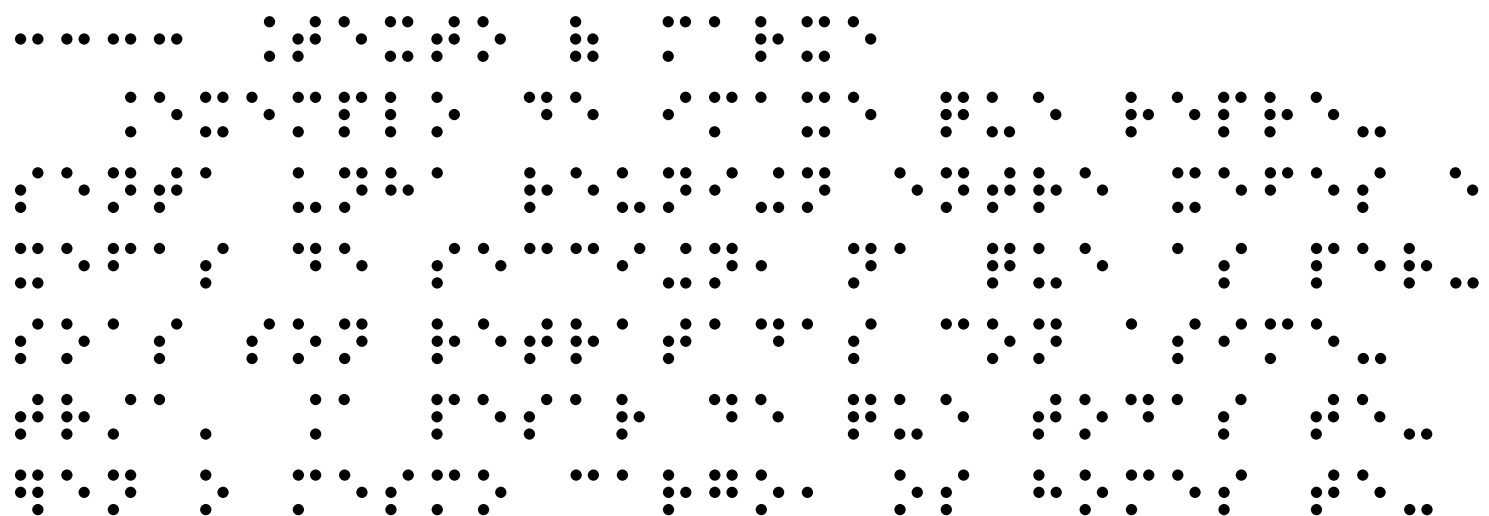
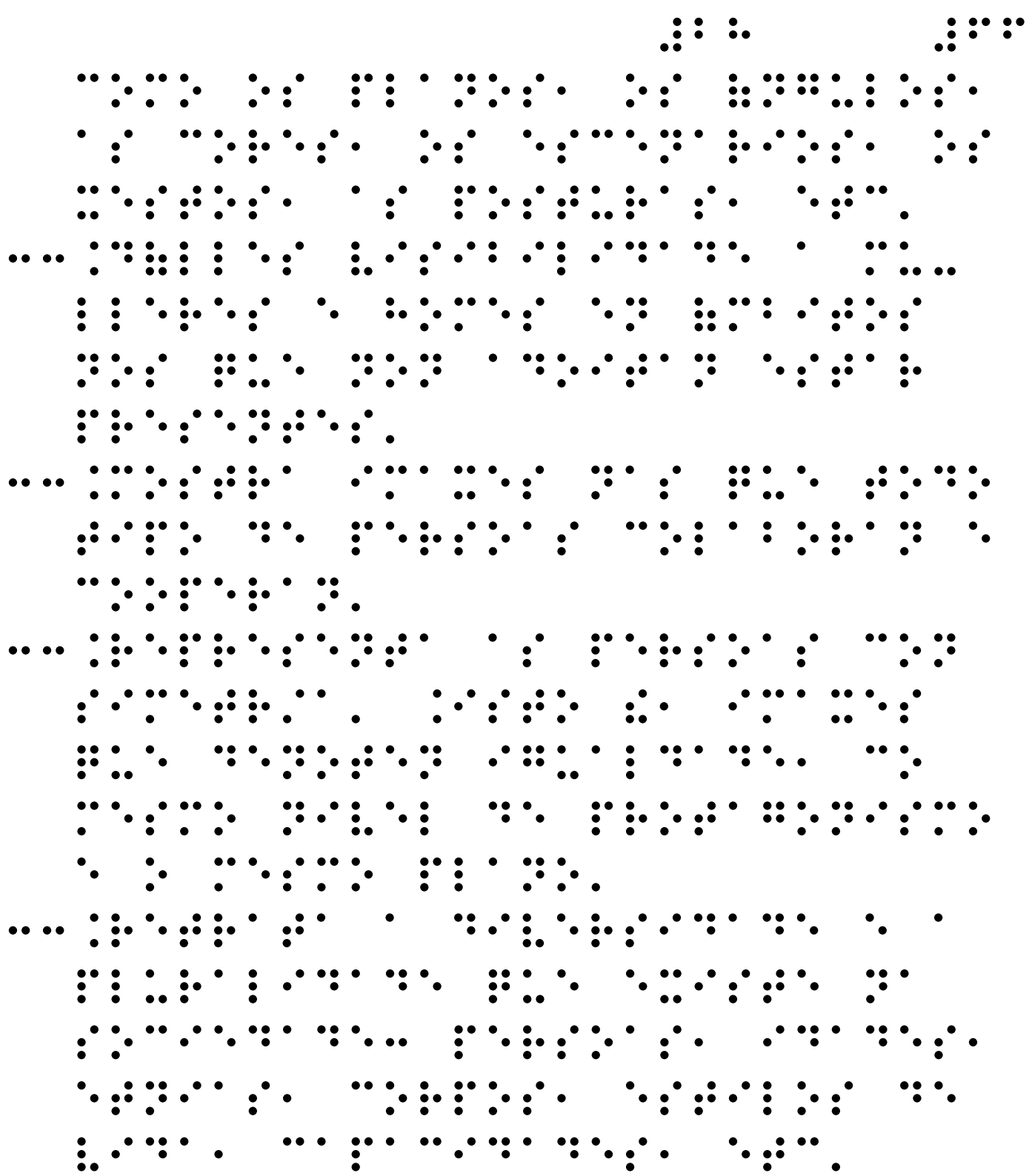
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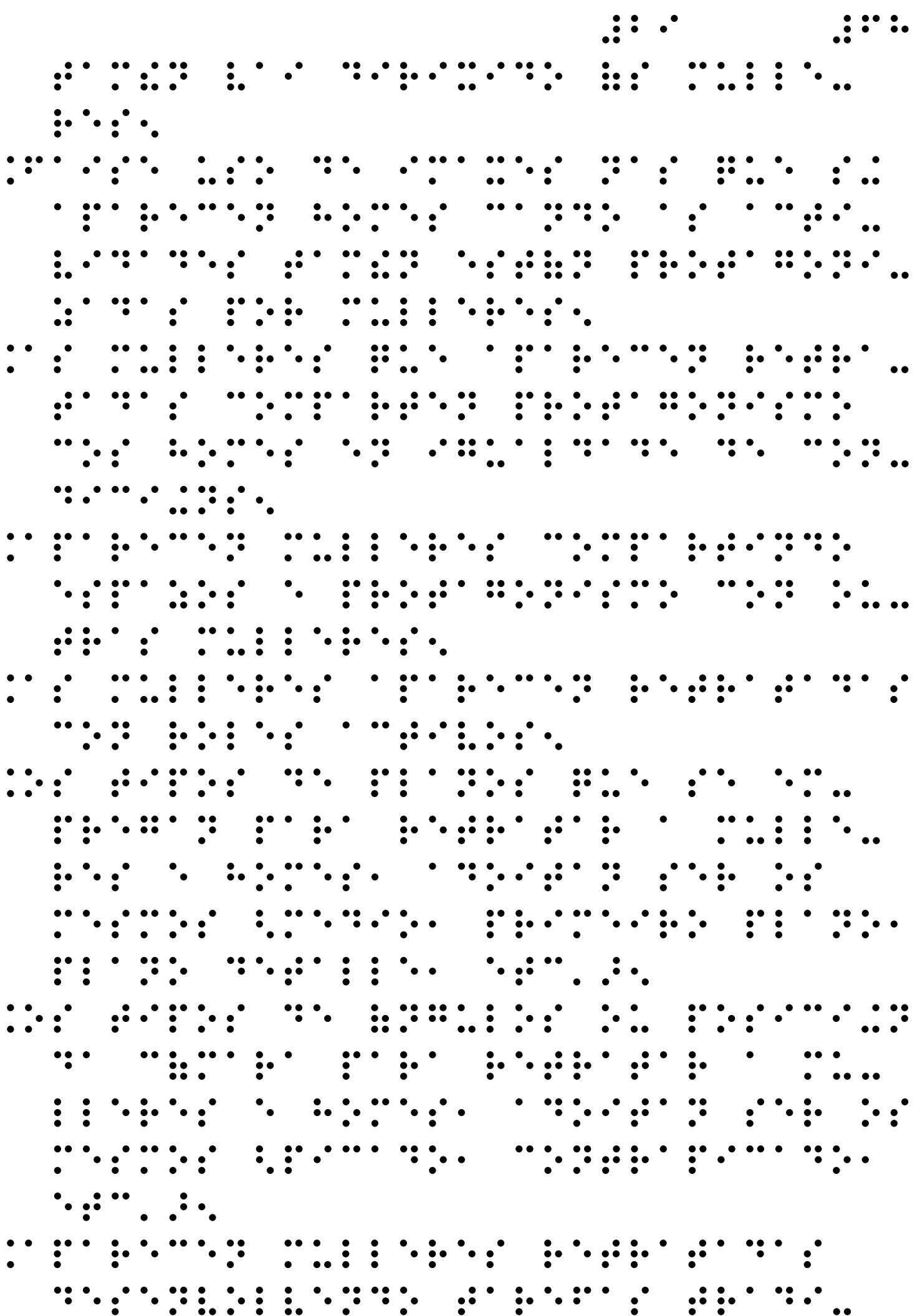


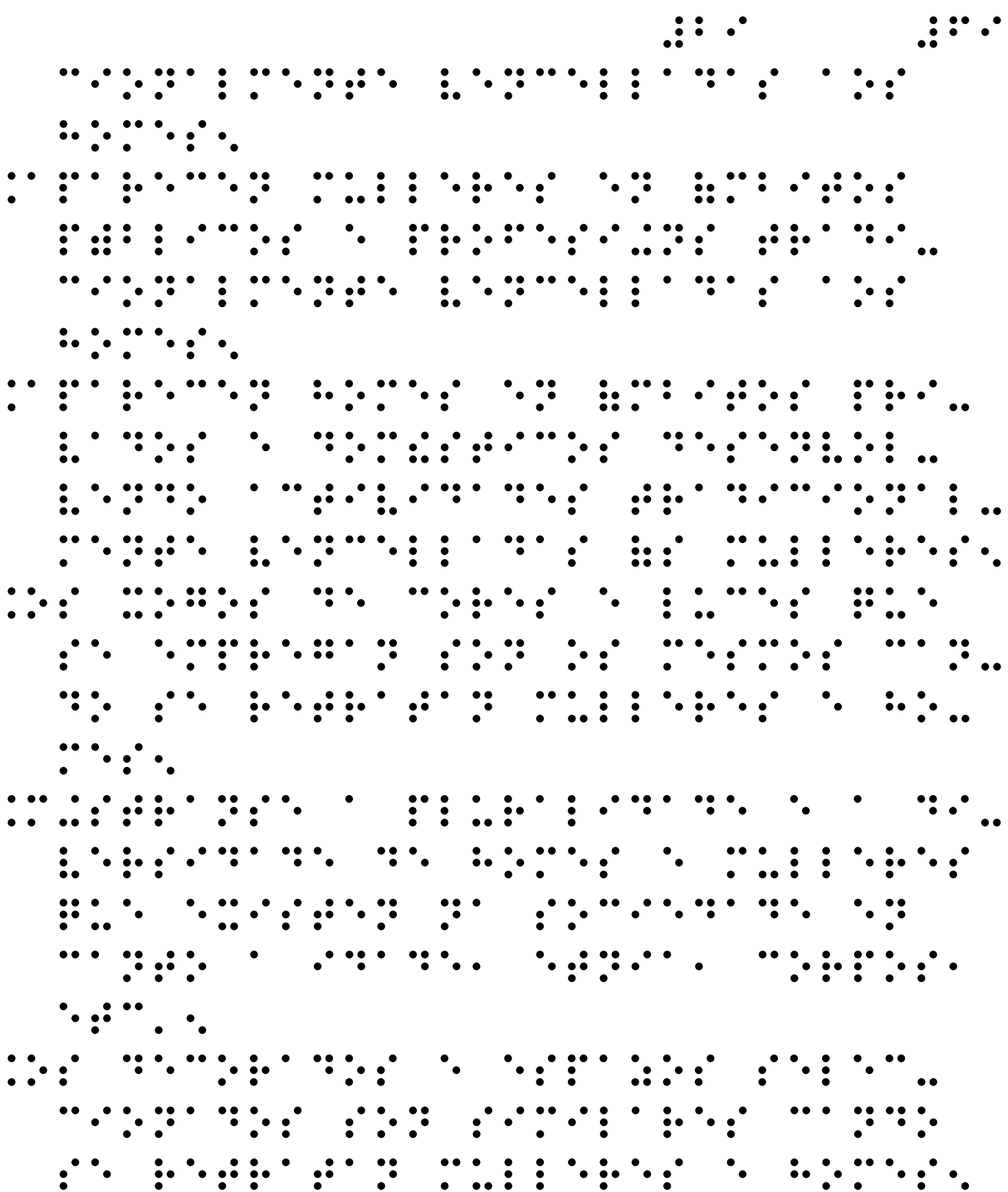


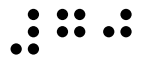












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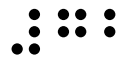
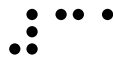
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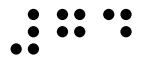
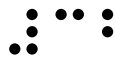
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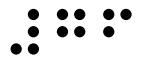
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A 3x3 grid of black dots. The dots are located at the following positions (row, column): (1,1), (1,2), (1,3), (2,1), (2,2), (2,3), (3,1), (3,2), (3,3).





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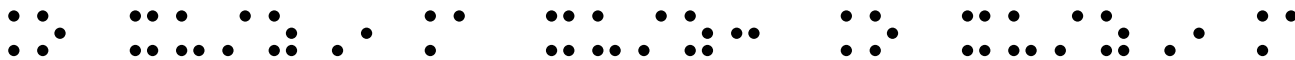
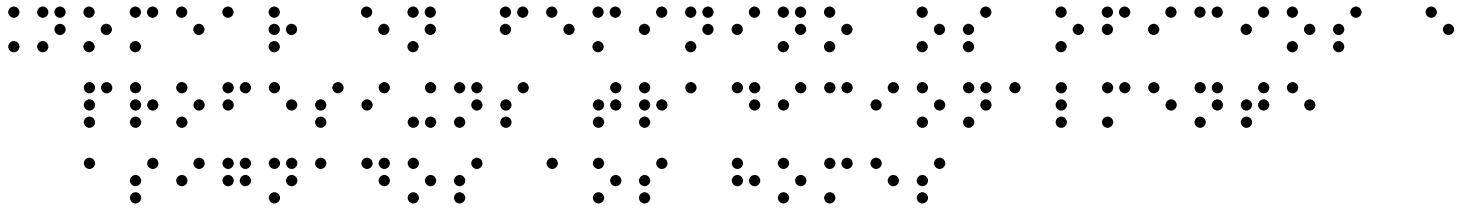
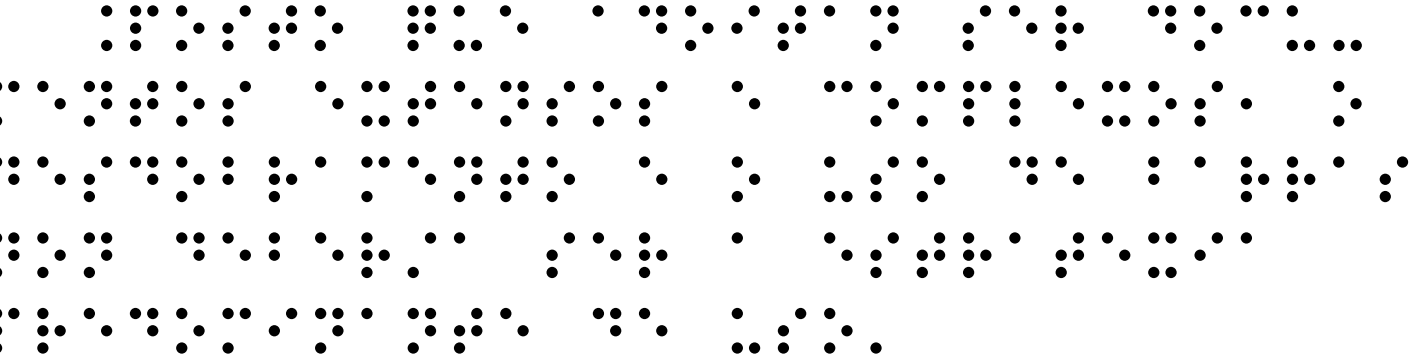
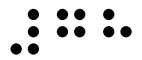
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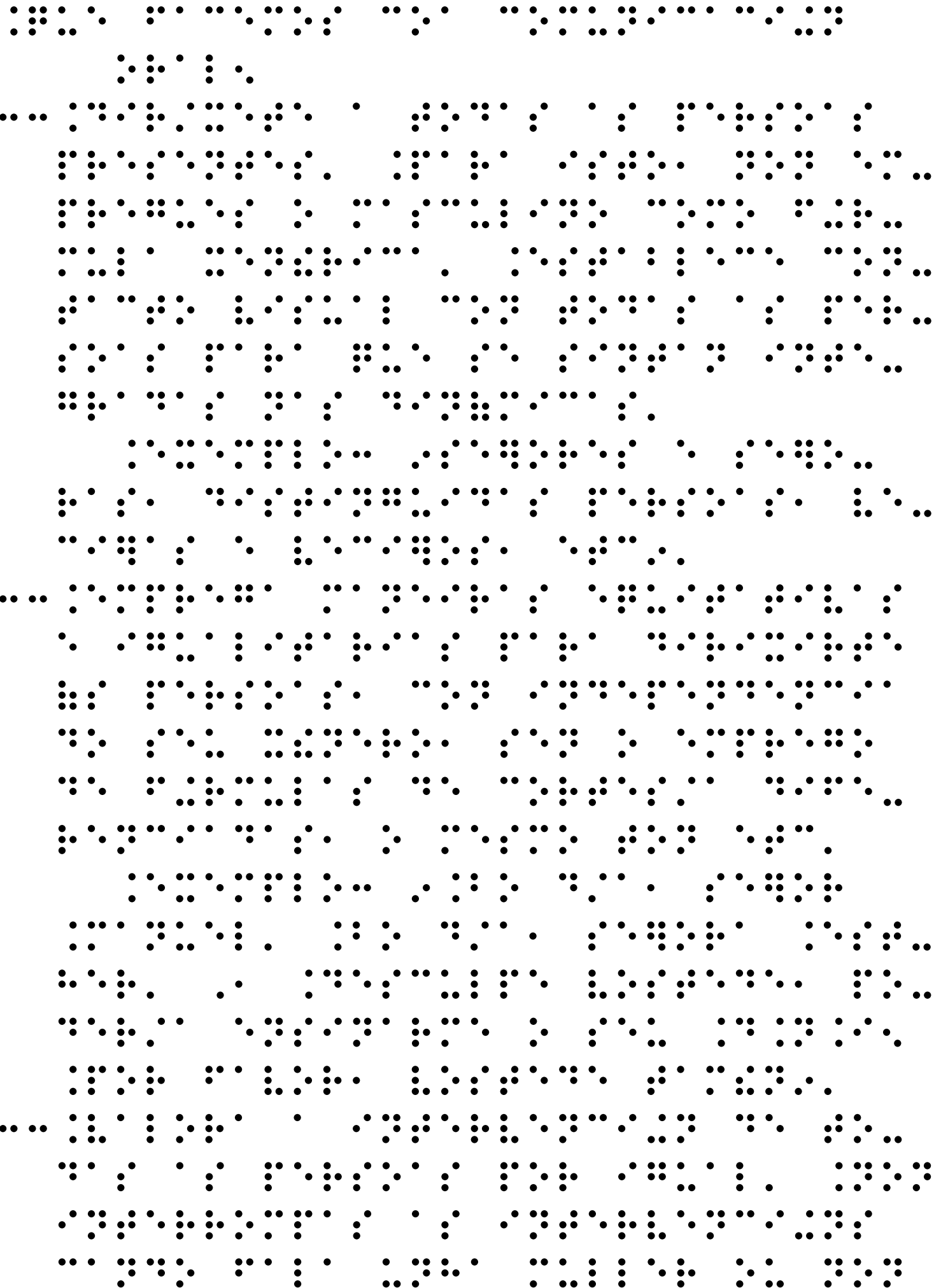
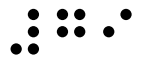
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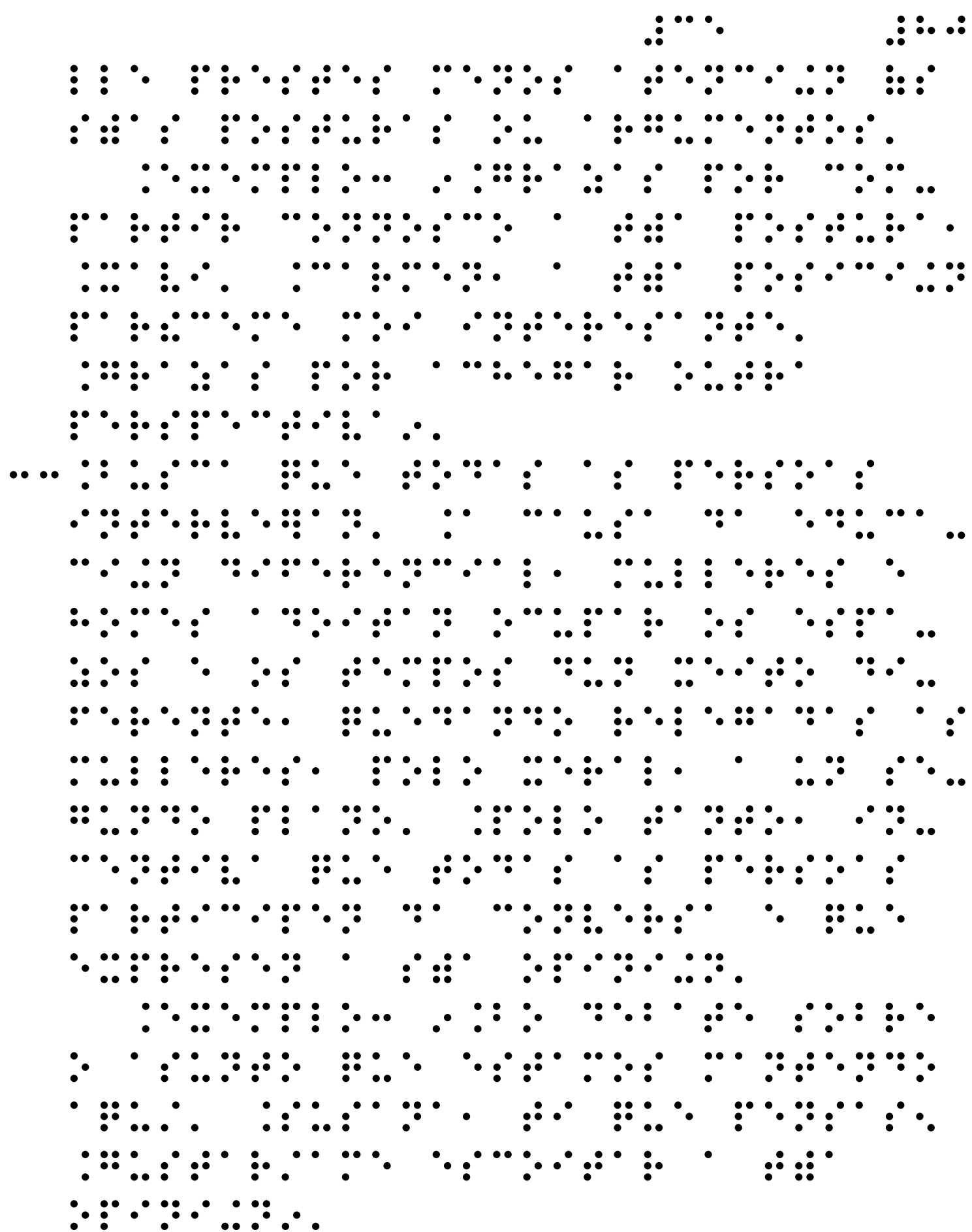
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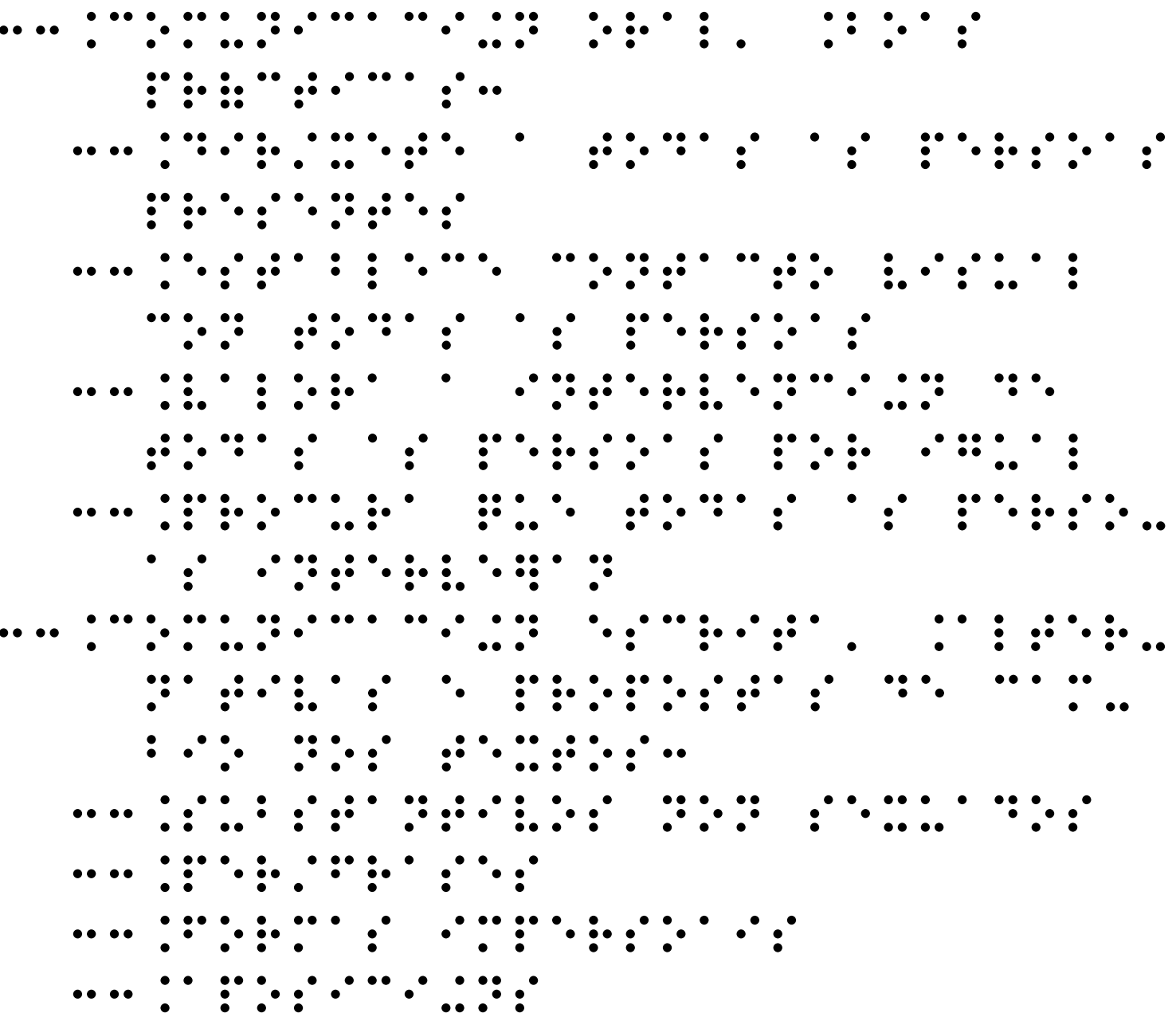
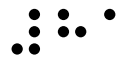
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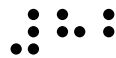












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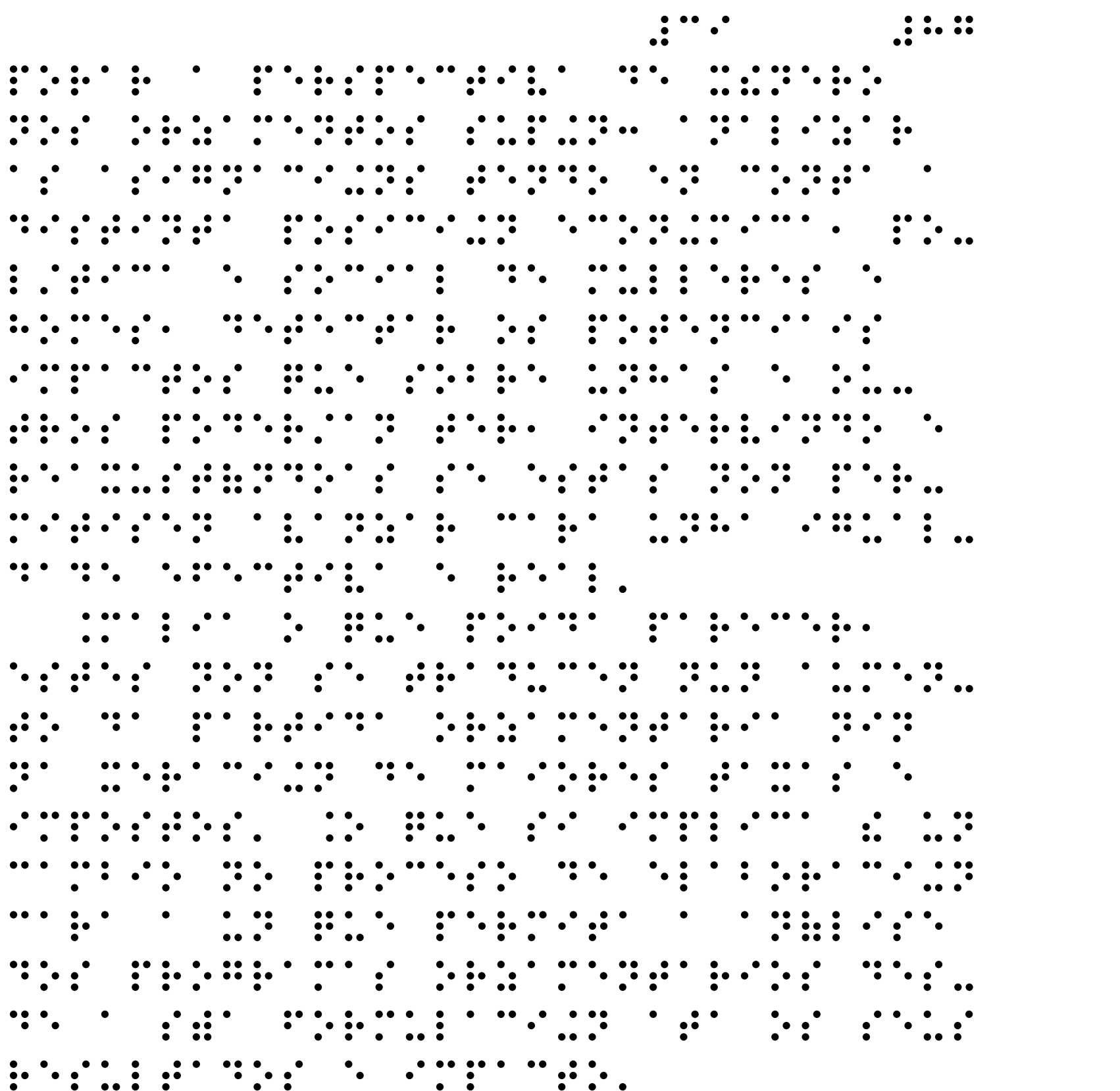
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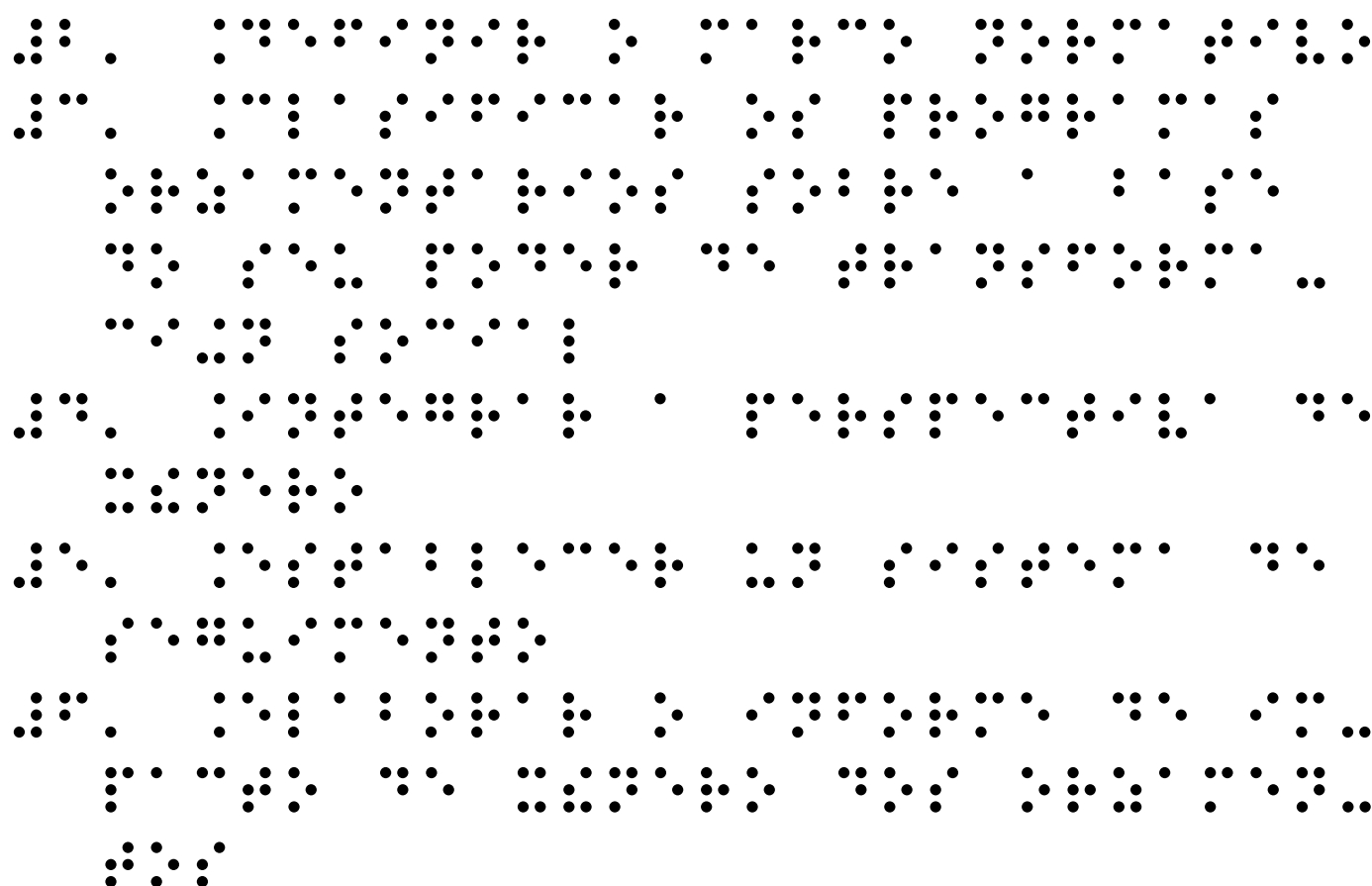
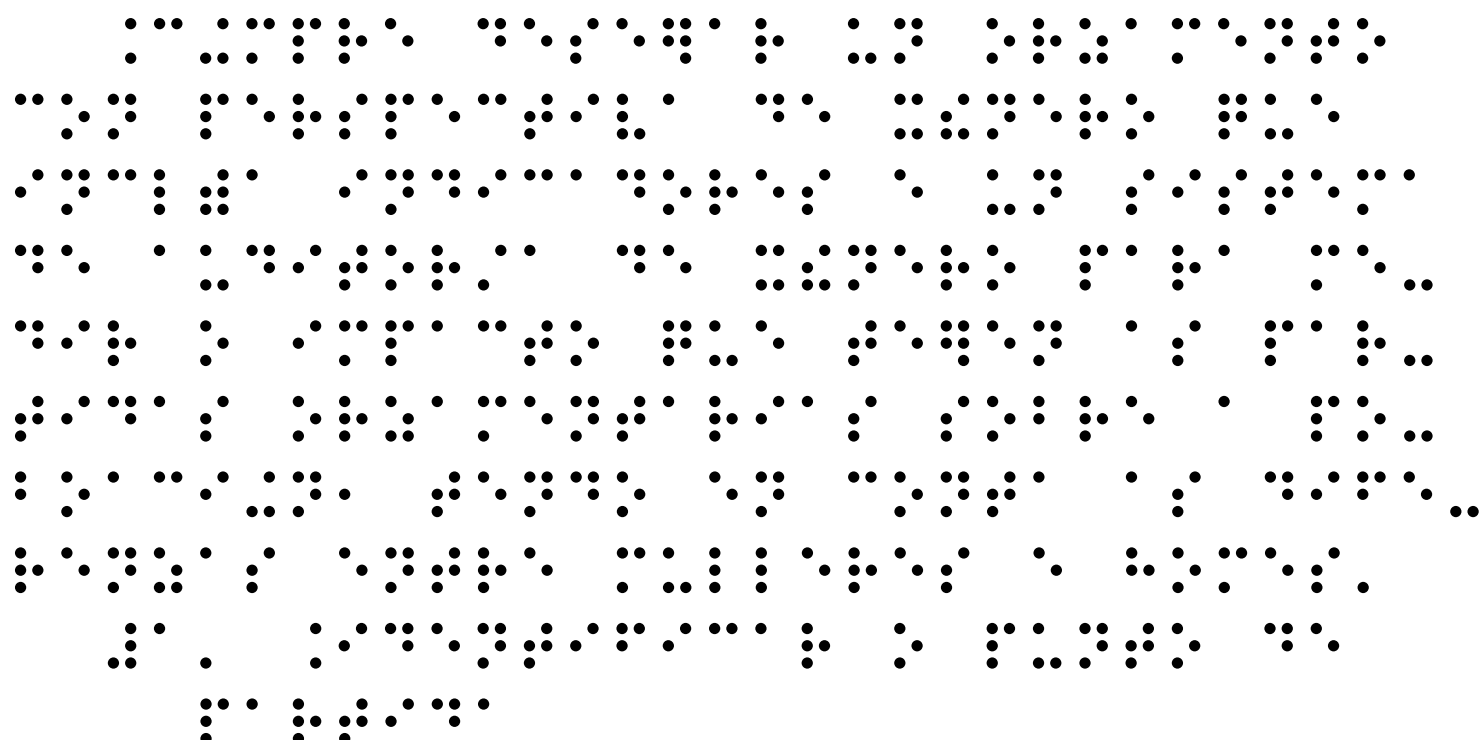
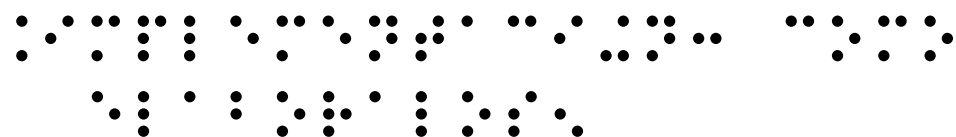
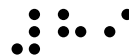


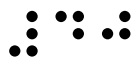




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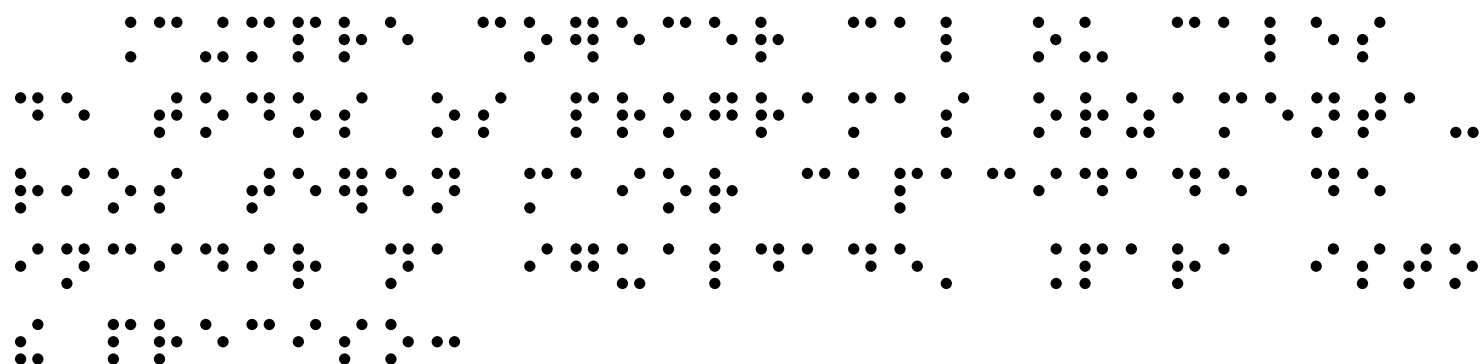
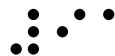


1. The first part of the document is a list of the names of the members of the committee who have been appointed to study the problem of the shortage of housing in the city of New York.

The second part of the document is a report on the progress of the committee's work. It contains a description of the methods used to collect data, a summary of the results of the survey, and a discussion of the factors which are believed to be responsible for the shortage of housing. The report also contains a list of recommendations for the improvement of the housing situation in the city.

2. The second part of the document is a report on the progress of the committee's work. It contains a description of the methods used to collect data, a summary of the results of the survey, and a discussion of the factors which are believed to be responsible for the shortage of housing.

The third part of the document is a list of the names of the members of the committee who have been appointed to study the problem of the shortage of housing in the city of New York. The list is arranged in alphabetical order and includes the names of the members of the committee who have been appointed to study the problem of the shortage of housing in the city of New York.



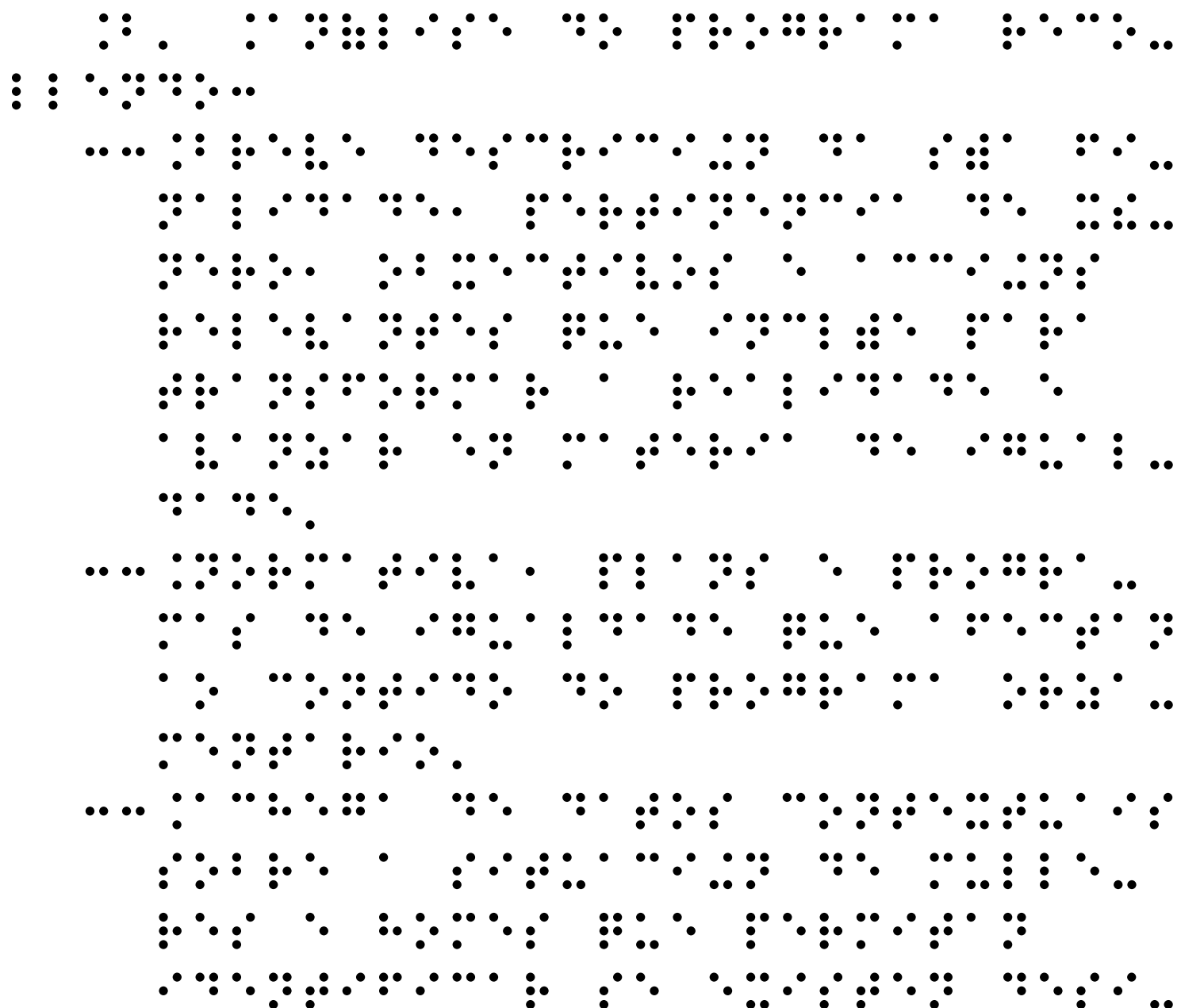
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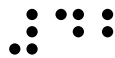










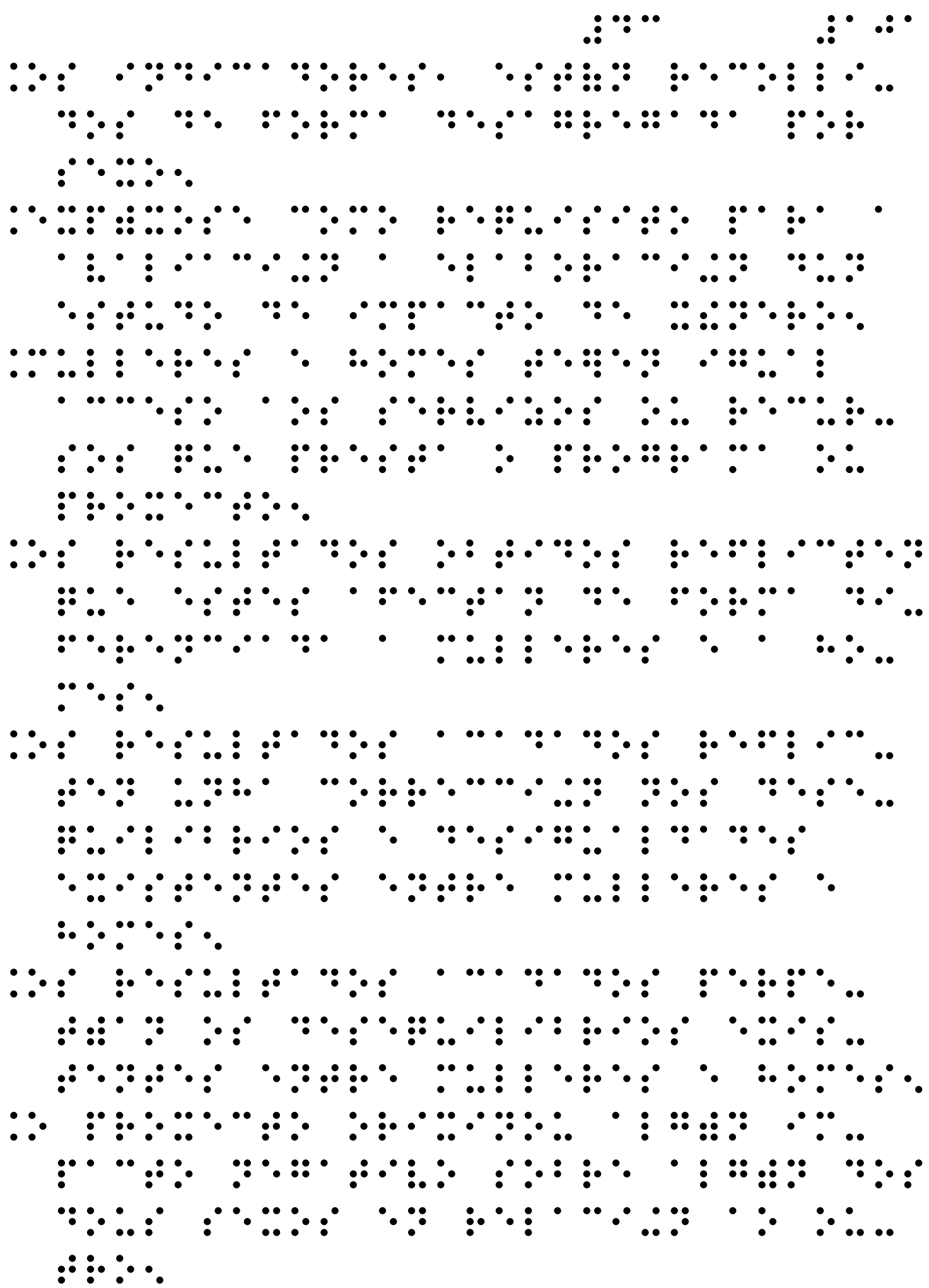


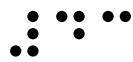
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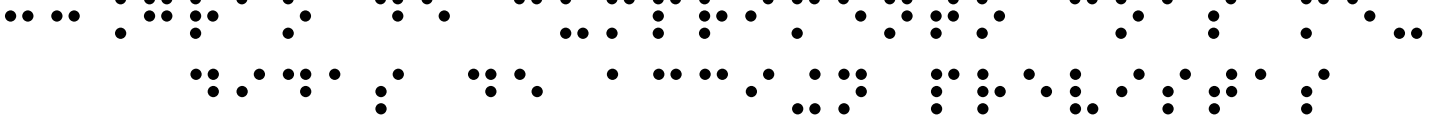
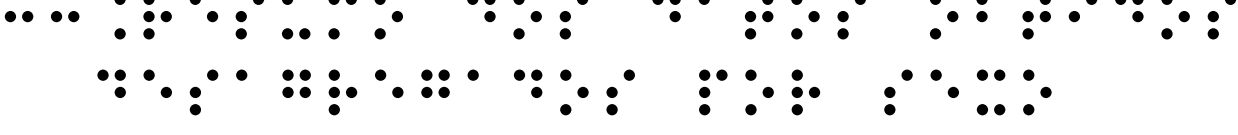
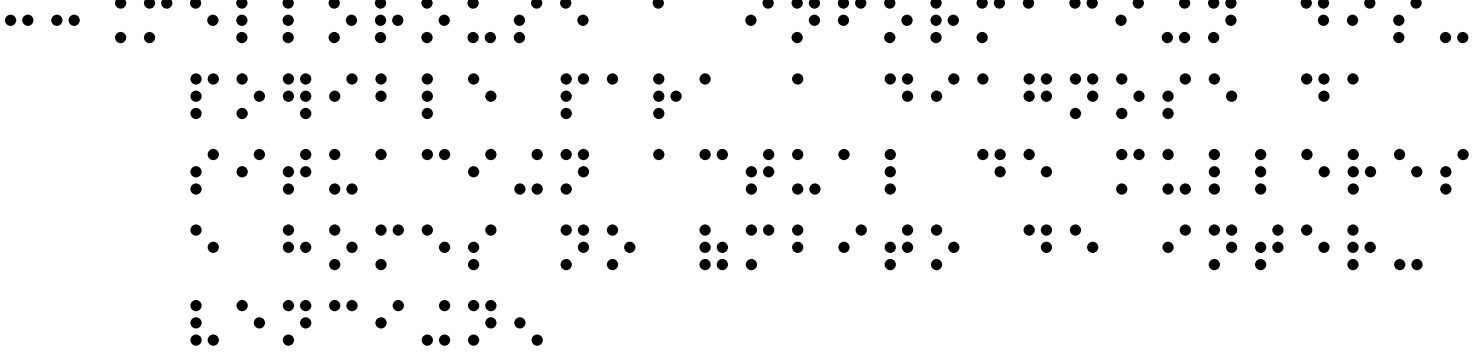
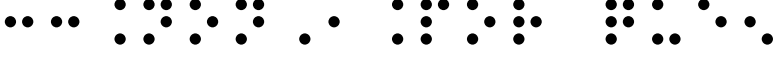
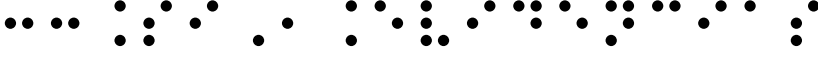
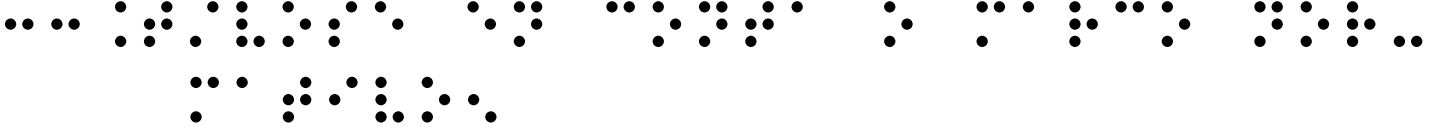
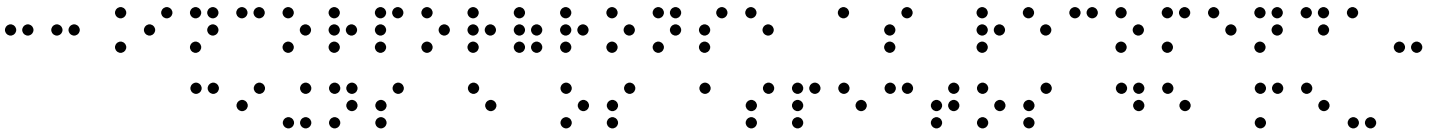
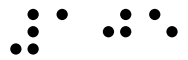
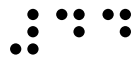
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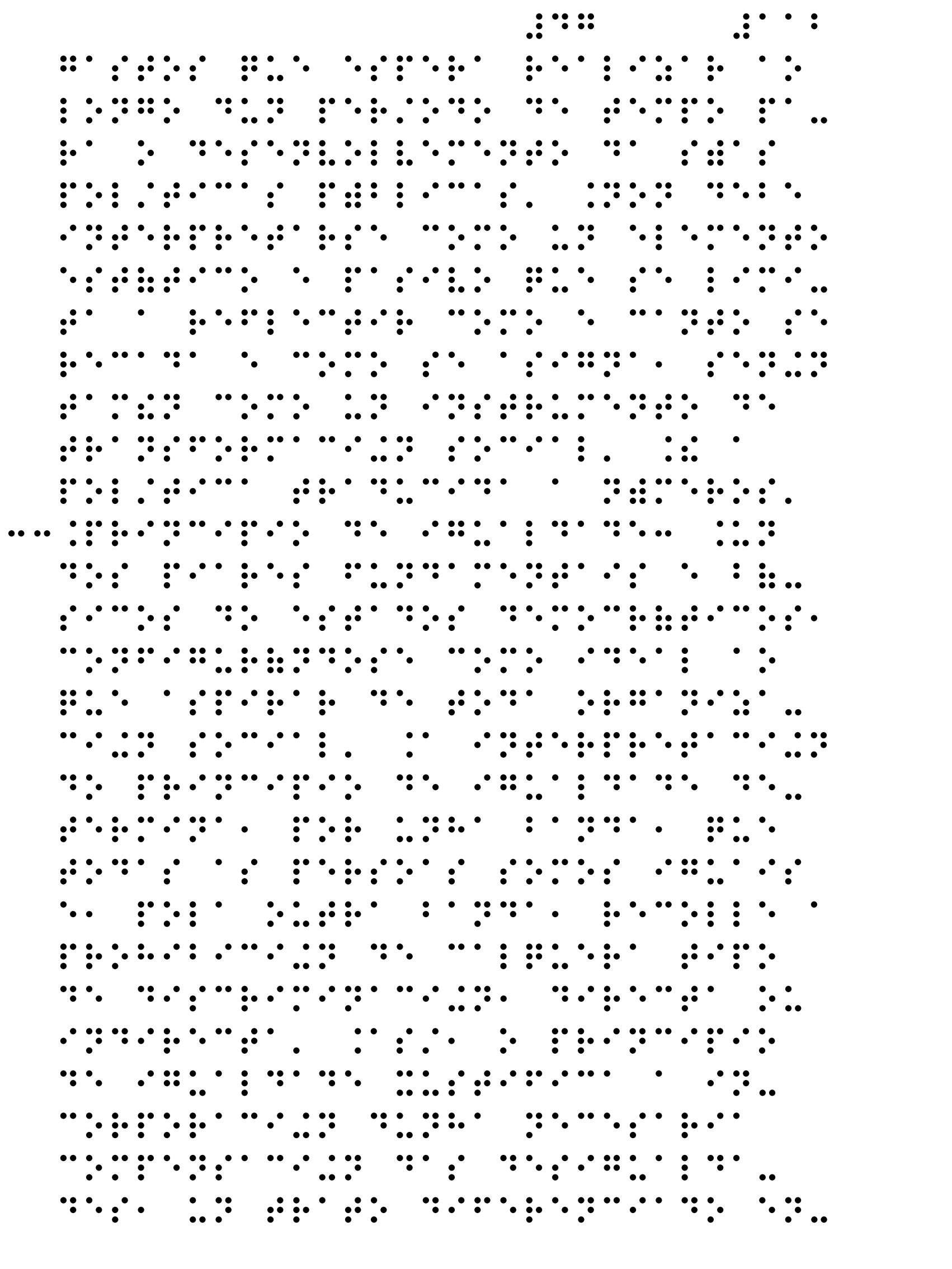
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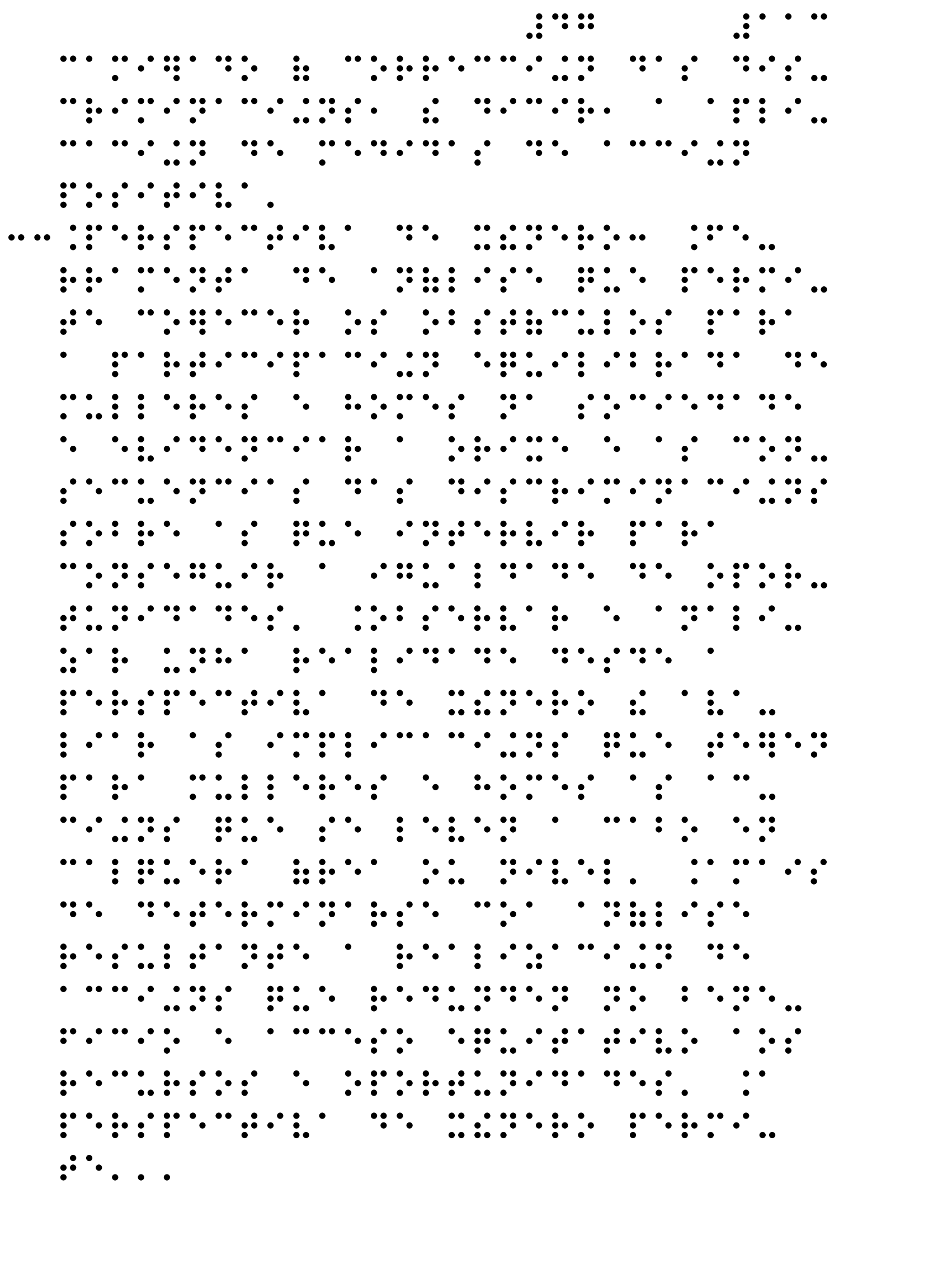
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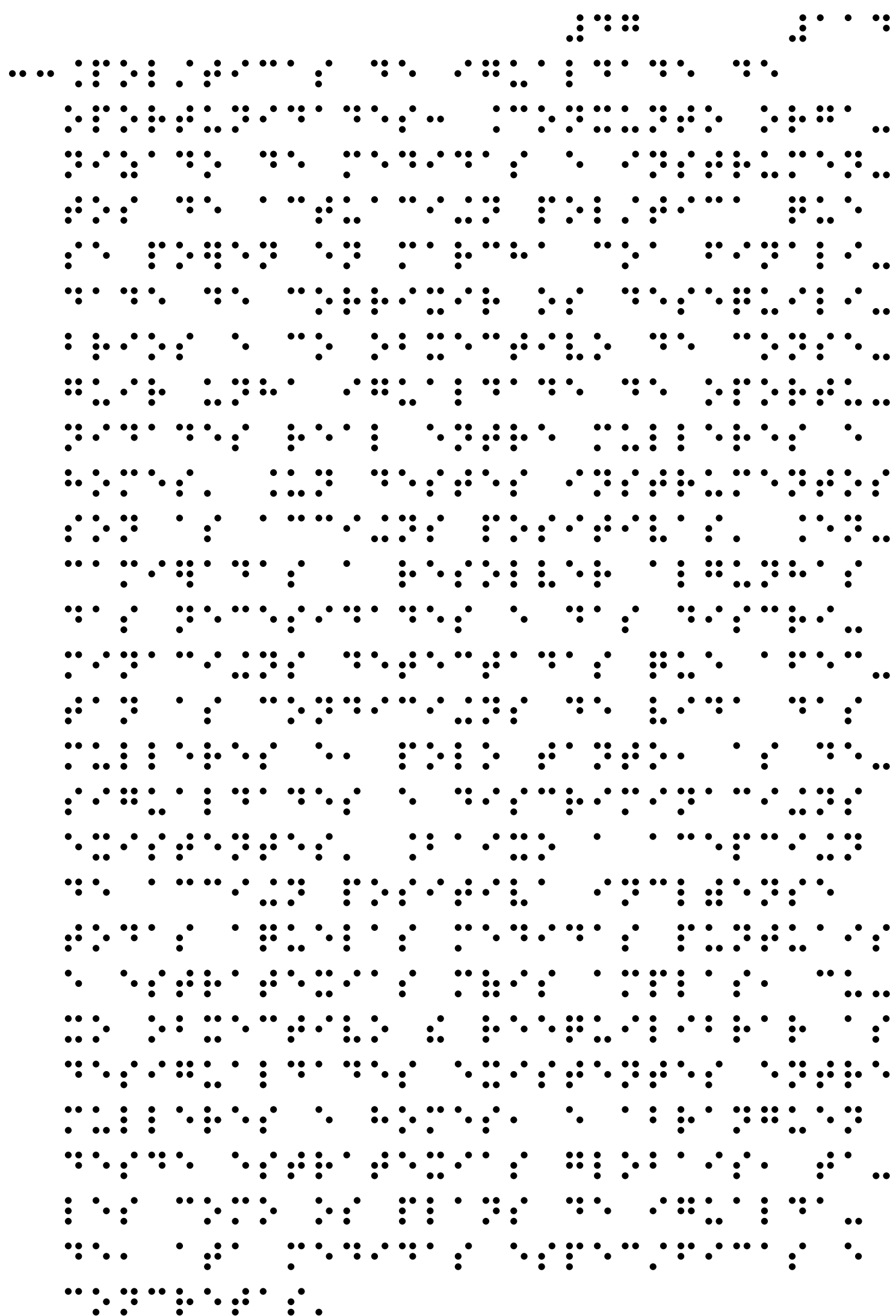
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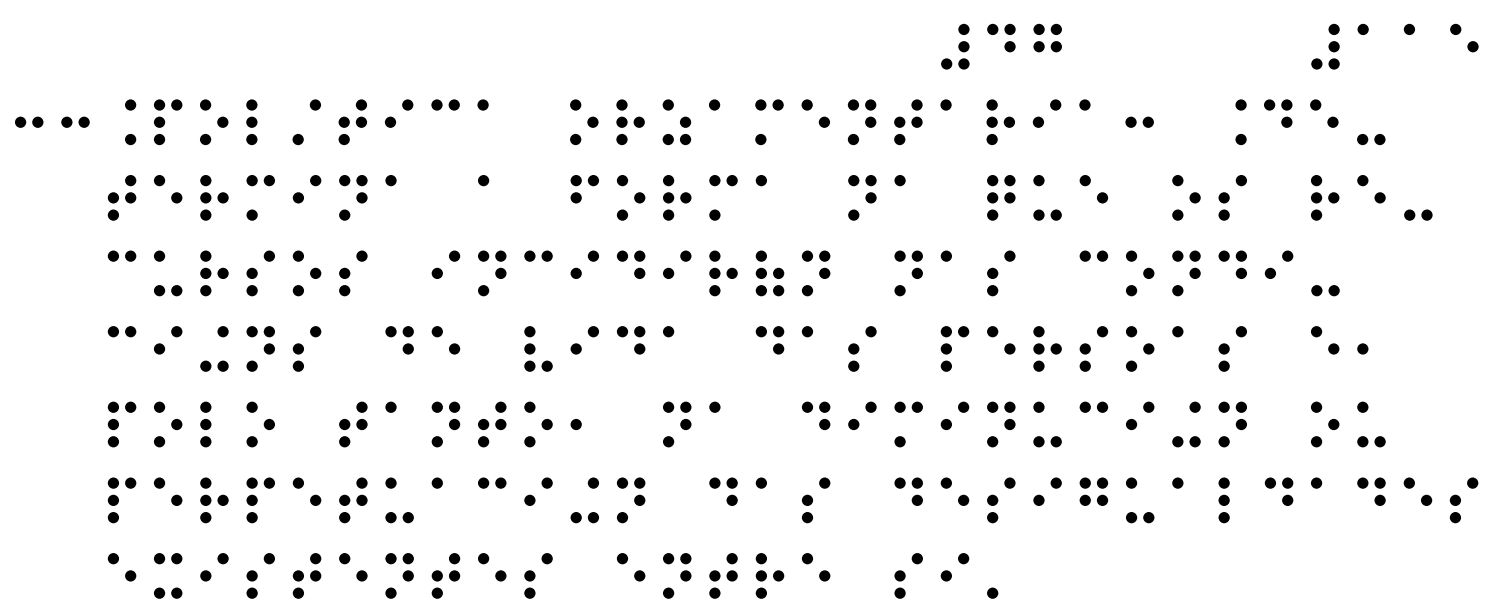
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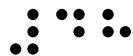
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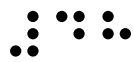








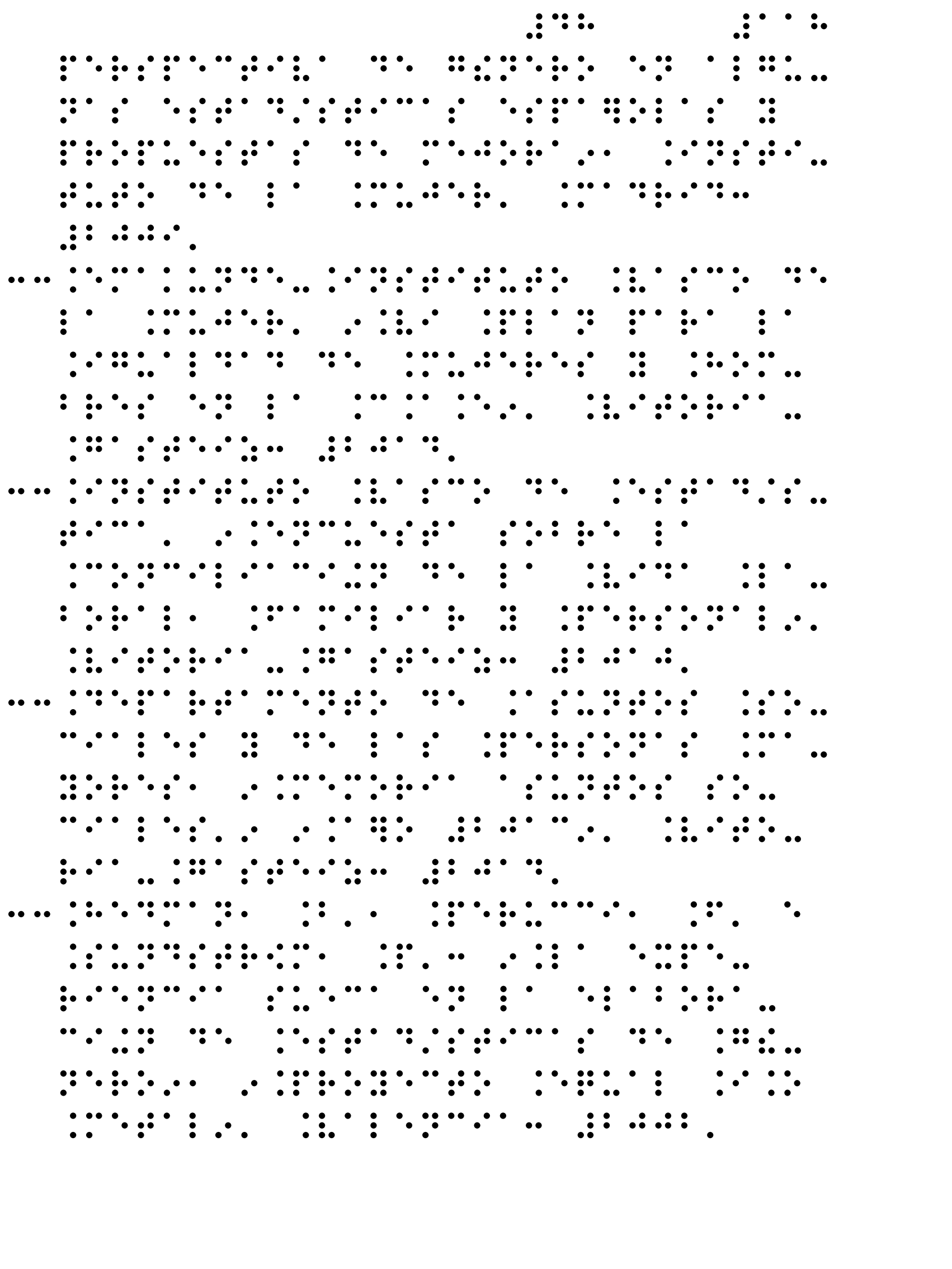


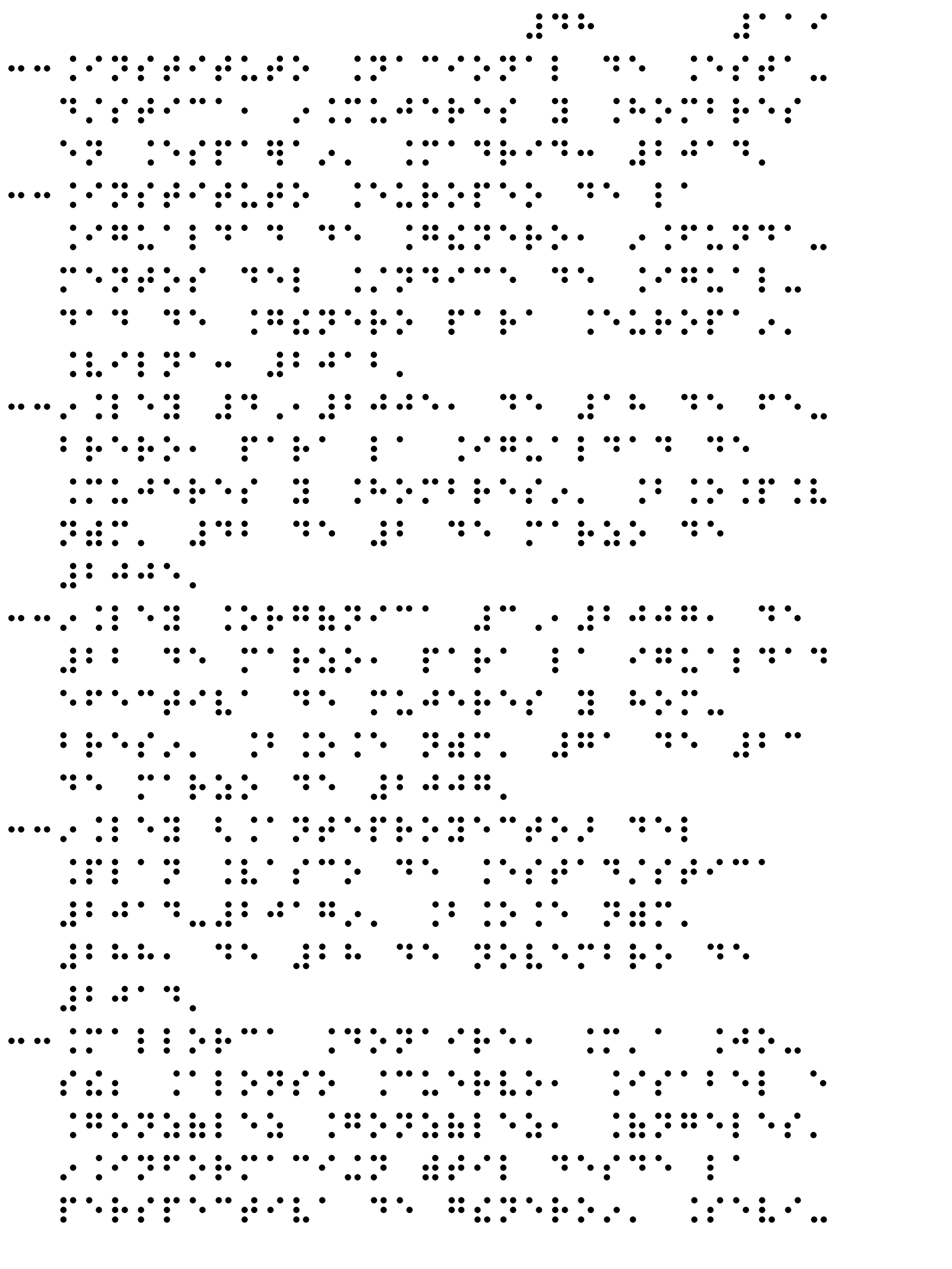


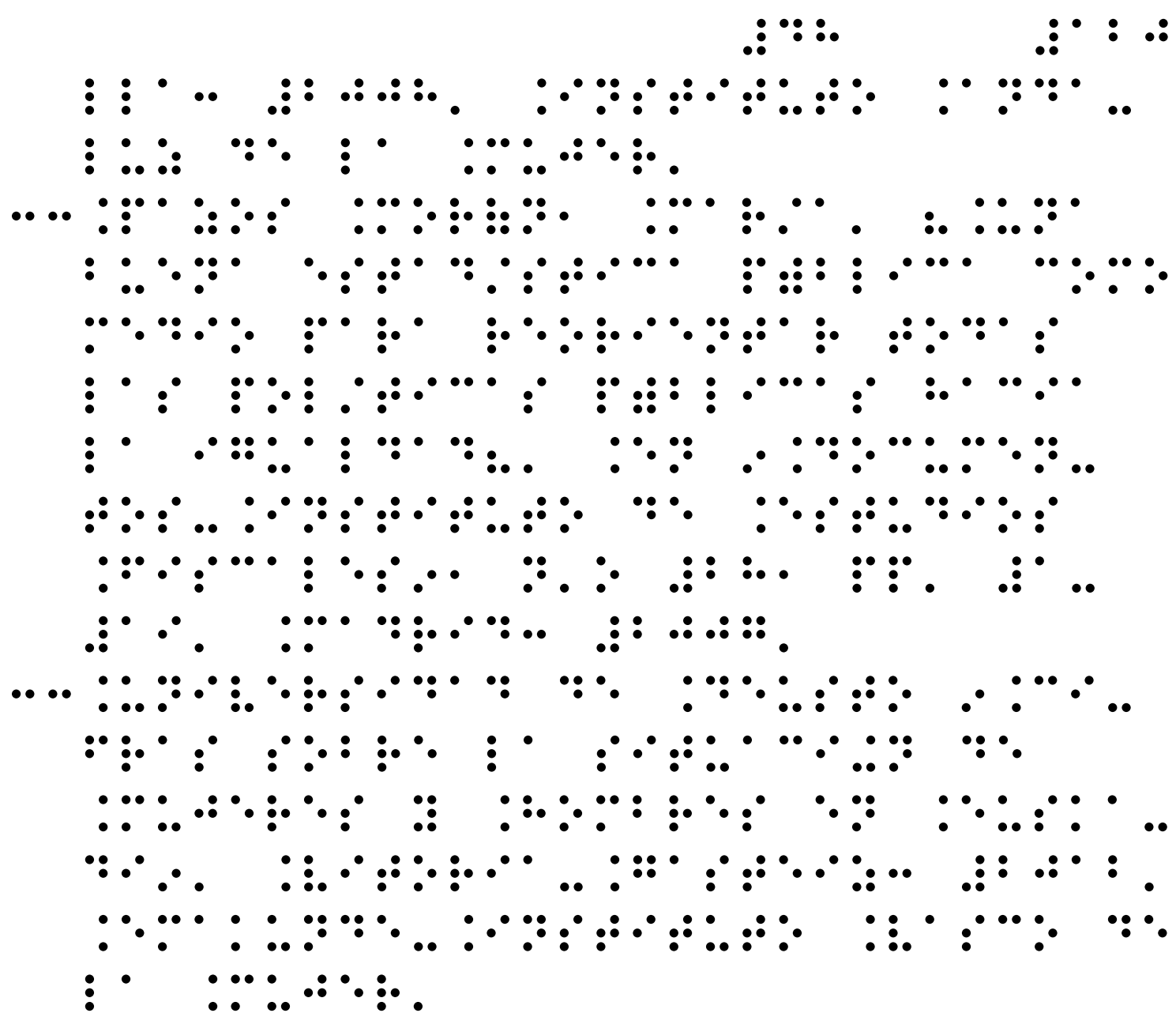
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A large grid of 100 rows and 100 columns of black dots on a white background. The dots are arranged in a sparse, irregular pattern, with some rows having more dots than others. The dots are small and black, and the background is white. The pattern is roughly rectangular, with the dots concentrated in the center and fewer dots towards the edges. The dots are arranged in a way that suggests a random or semi-random distribution, but with some underlying structure or pattern. The dots are of uniform size and color, and the grid is perfectly square. The dots are arranged in a way that they form a complex, interconnected network of points, with some dots acting as hubs and others as peripheral points. The overall effect is a dense, textured field of points, with the density of the dots varying across the grid. The dots are arranged in a way that they form a complex, interconnected network of points, with some dots acting as hubs and others as peripheral points. The overall effect is a dense, textured field of points, with the density of the dots varying across the grid.



