

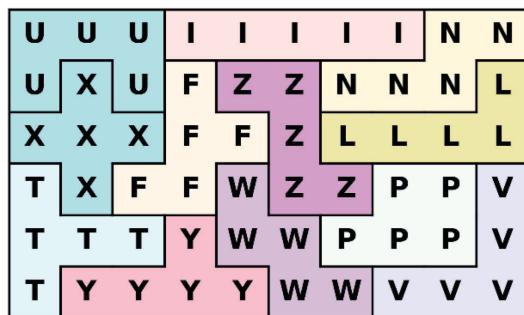
Pentomino Quest Sample

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History of the Pentomino

Solomon W. Golomb proposed the concept of polyominoes in 1953. Polyominoes are a general term for pieces made up of multiple connected squares, and are defined according to the number of squares: Dominos (2 pieces), Triominoes (3 pieces), Tetrominoes (4 pieces), pentominoes (5 pieces), etc.

There are 12 pentomino pieces, made up of 5 squares. Each piece is given an alphabet as shown in the diagram below for explanation purposes.



Pentomino puzzle

Martin Gardner introduced the pentomino in a math column in Scientific American in 1965, and it attracted worldwide attention. The box-packing problem using pentominoes is a puzzle in which 12 pieces are packed into rectangular boxes of 6x10, 5x12, 4x15, 3x20, etc.

The solutions to this box-packing problem were actively researched using computers in the 1970s and 1980s. It is known that there are 2,339 solutions for 6x10, 1,010 solutions for 5x12, 368 solutions for 4x15, and 2 solutions for 3x20. However, the number of solutions mentioned here is counted as one if the shape of the solution is the same when it is flipped upside down, flipped left side, or both (same as rotating it 180 degrees).

Pentomino pieces and cases are sold by various manufacturers. This puzzle is said to be effective for brain training. It is a difficult puzzle, and if you are working on it and can't find the answer, you may think that you have made a mistake somewhere and that you will not get the answer if you continue like this, and it will not become a brain training exercise.

Moreover, the actual solution is all possible solutions, including those that are upside down, left-right, and both, so for example, in the case of a 6x10 puzzle, you are looking for the

Pentomino Quest Sample

correct answer not from 2,339 possible solutions, but from four times as many, or 9,356 possible solutions. This makes the puzzle more difficult.

Tetracube

Pentominoes are a puzzle where you join five squares, edges together on a flat surface, and fit 12 combinations into a box.

The "pent" in pentomino stands for 5. If you change this 5 to 4, it becomes a Tetramino. When counted the same way as Pentominoes, Tetraminoes have five different pieces. Two sets of Tetramino pieces can fit into a 5X8 or 4X10 box.

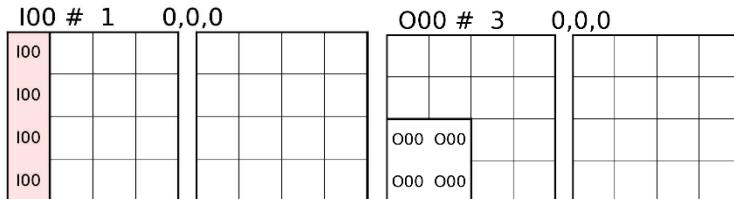
Tetrominoes are combinations arranged on a flat surface, but when arranged in a three-dimensional space, three new pieces are created. When these three pieces are added, the result is called a Tetracube. A Tetracube has 8 pieces.

The eight pieces of Tetracubes can fit into a 4X4X2 box, and there are 695 possible solutions.

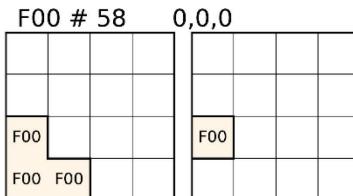
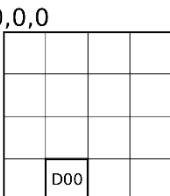
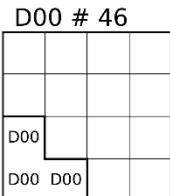
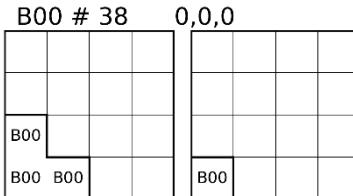
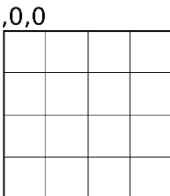
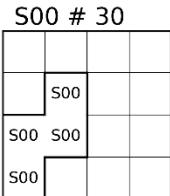
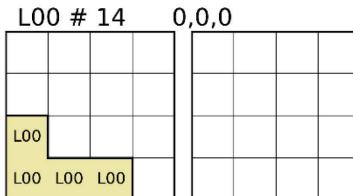
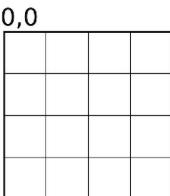
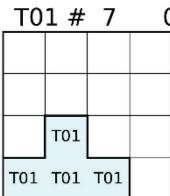
Tetracubes pieces

The eight pieces of a tetracube are shown below. I, O, T, L, and S are the five Tetromino pieces, and B, D, and F are the additional pieces to the tetracube. The additional pieces B, D, and F have the same base, the difference being where the fourth piece is placed.

When B, D, and F are lined up like this, it seems like you can see the difference, but if they are placed facing in different directions it becomes difficult to tell them apart.



Pentomino Quest Sample



Tetracube Packing Problem

Tetracube has 8 pieces, so 32 cubes, so it can be packed in 4X4X2 and 8X2X2 boxes. In this book, we use 4X4X2. When creating the problem set, we search for all solutions including mirror images, but when the shape of 4X4X2 is rotated horizontally, the shape matches every 90 degrees, so the mirror image in that direction is 4 times larger.

In other directions, upside down and left to right, it is doubled, so the total is 16 times larger. The solution is found using Python modified to look like Tetracube, and the solution was found within 1 minute. It is overwhelmingly faster than pentominoes.

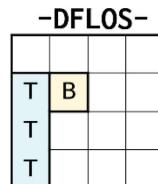
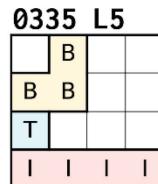
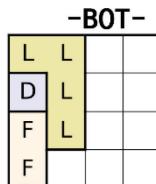
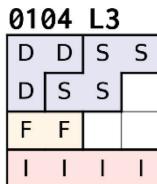
The difference in the number of pieces, 12 and 8, works as exponents, so we think that this is the difference.

By the way, there were 11,120 solutions, and the official number of answers was 695.

Pentomino Quest Sample

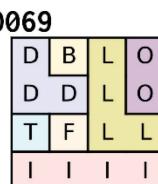
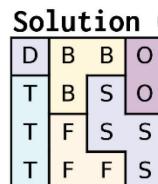
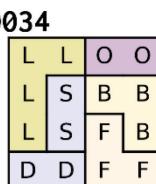
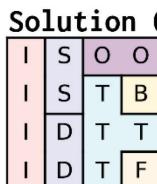
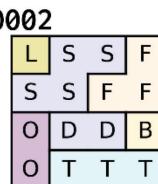
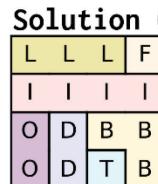
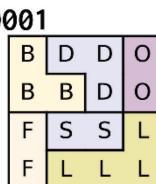
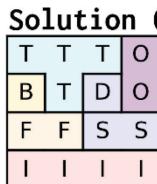
Example problem

Two example problems are shown below. L3 and L5 are the difficulty levels and the number of pieces that have not been stored. The alphabet on the right are the names of the pieces that have not been stored.



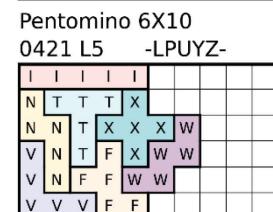
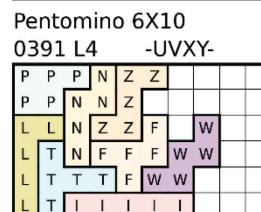
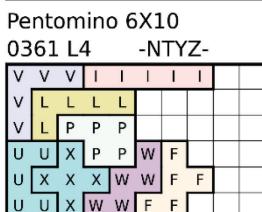
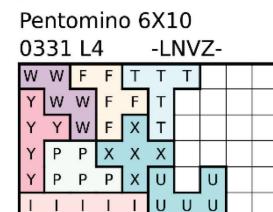
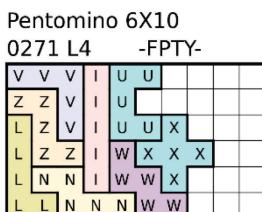
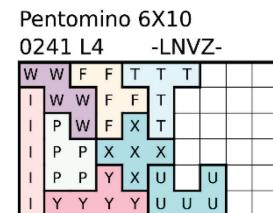
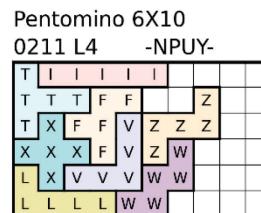
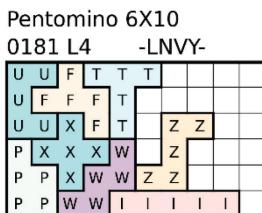
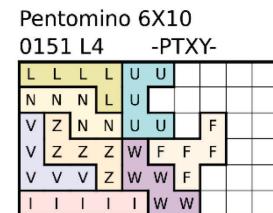
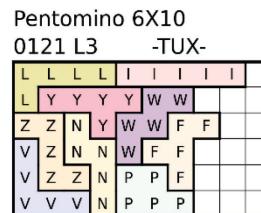
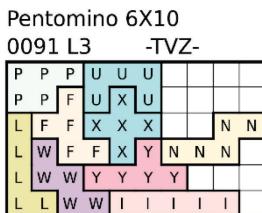
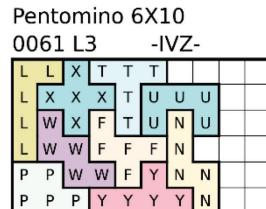
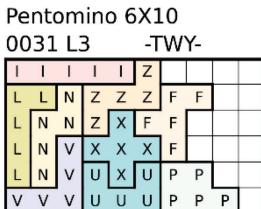
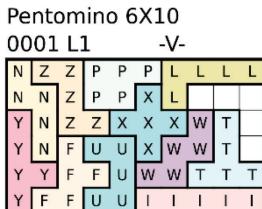
Tetracube 3D 4X4X2 Solution

An example answer is shown below. The solution with the same two-division line (horizontal or vertical) on the left and right is the solution where two 2X2X4s are made and stored, which is a common solution with 8X2X2.



Now, please enjoy Labyrinth Pentomino.

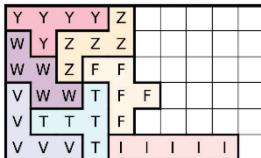
Pentomino 2D 6X10 Edition Problems



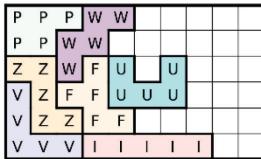
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0451 L5 -ITUXZ-



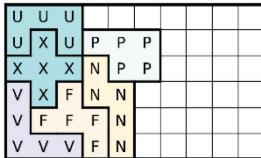
Pentomino 6X10
0541 L5 -LNUUX-



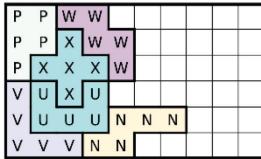
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0631 L5 -LNTXY-



Pentomino 6X10
0721 L6 -ILTWXYZ-



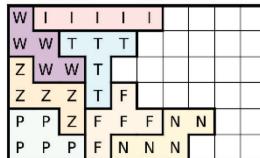
Pentomino 6X10
0811 L6 -FILTYZ-



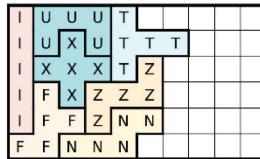
Pentomino 6X10
0481 L5 -NPVYZ-



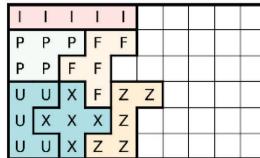
Pentomino 6X10
0571 L5 -LUVXY-



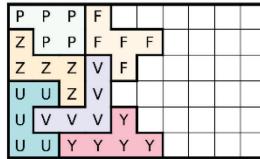
Pentomino 6X10
0661 L5 -LPVWY-



Pentomino 6X10
0751 L6 -LNTVWY-



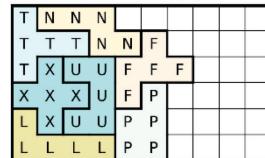
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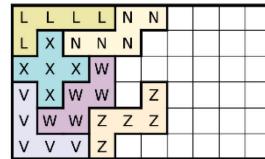
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0511 L5 -FIUXZ-



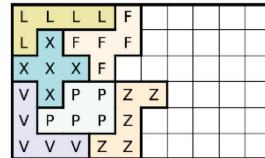
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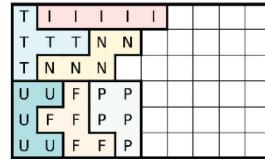
Pentomino 6X10
0691 L6 -FIPTUY-



Pentomino 6X10
0781 L6 -INTUWY-



Pentomino 6X10
0871 L6 -LVWXYZ-



End of Problem

Pentomino 2D 5X12 Edition

Problems

Pentomino 5X12
0010 L2 -UX-



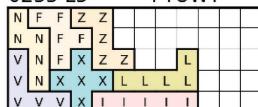
Pentomino 5X12
0085 L3 -IUX-



Pentomino 5X12
0160 L4 -LPUX-



Pentomino 5X12
0235 L5 -PTUWY-



Pentomino 5X12
0310 L5 -FILVZ-



Pentomino 5X12
0385 L6 -FIPUYZ-



Pentomino 5X12
0460 L6 -FNTUVY-



Pentomino 5X12
0035 L3 -LUX-



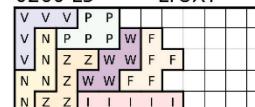
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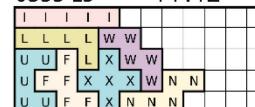
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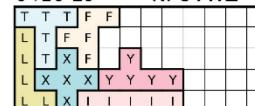
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0260 L5 -LTUXY-



Pentomino 5X12
0335 L5 -PTVYZ-



Pentomino 5X12
0410 L6 -NPUVWZ-



Pentomino 5X12
0485 L6 -ILPTWX-



Pentomino 5X12
0060 L3 -LUX-



Pentomino 5X12
0135 L4 -FINU-



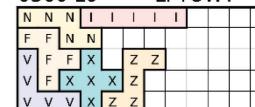
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0210 L4 -NPVW-



Pentomino 5X12
0285 L5 -INPUY-



Pentomino 5X12
0360 L6 -LPTUWY-

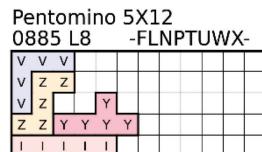
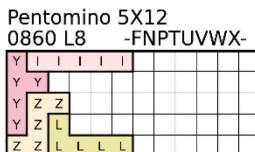
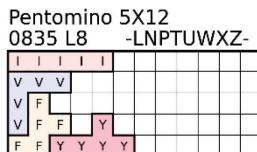
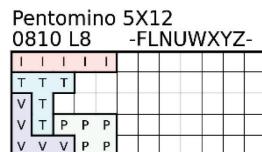
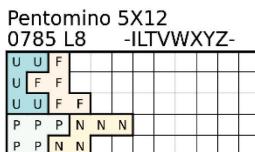
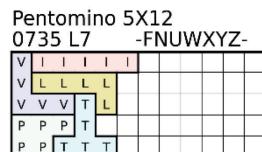
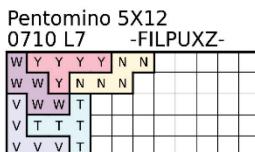
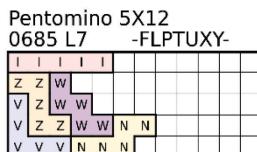
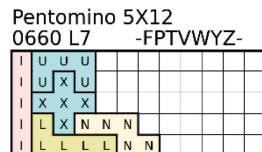
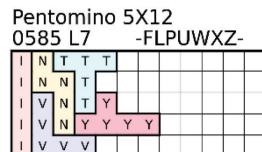
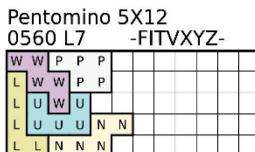


Pentomino 5X12
0435 L6 -FLUVXY-



Pentomino 5X12
0510 L6 -FLPWXZ-



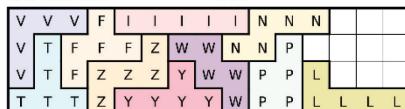


End of Problem

Pentomino 2D 4X15 Edition**Problems**

Pentomino 4X15

0010 L2 -UX-



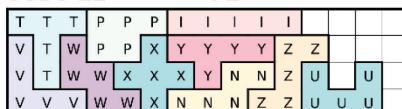
Pentomino 4X15

0020 L2 -UX-



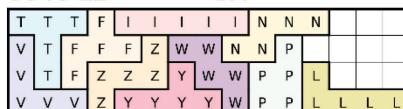
Pentomino 4X15

0030 L2 -FL-



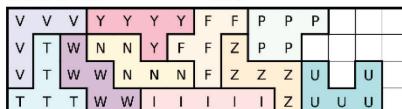
Pentomino 4X15

0040 L2 -UX-



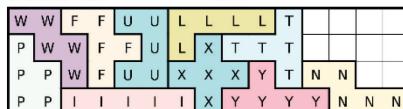
Pentomino 4X15

0050 L2 -LX-



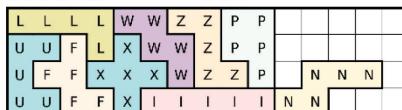
Pentomino 4X15

0060 L2 -VZ-



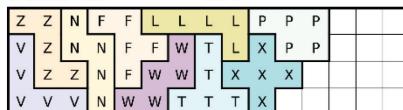
Pentomino 4X15

0070 L3 -TVY-



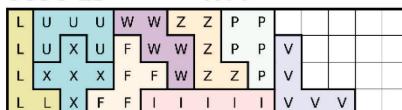
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0080 L3 -IUY-



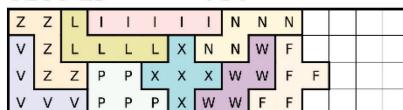
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0090 L3 -NTY-



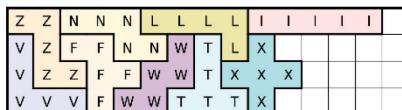
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0100 L3 -TUY-



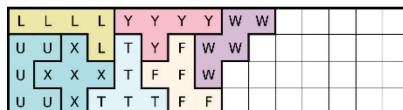
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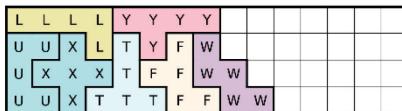


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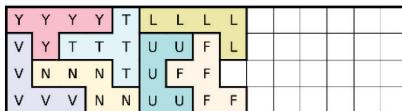


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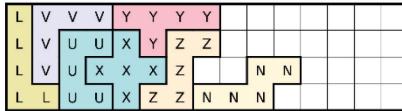


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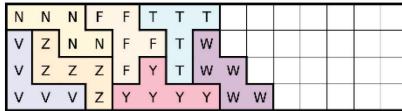
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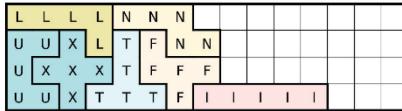
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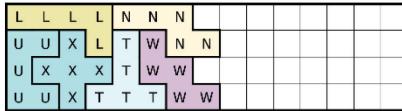
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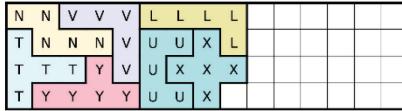
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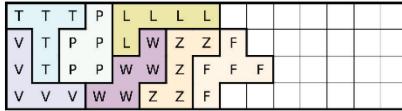
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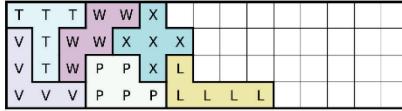
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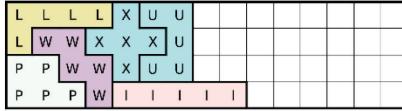
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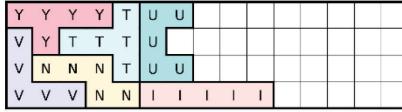
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0210 L6 -FINUYZ-



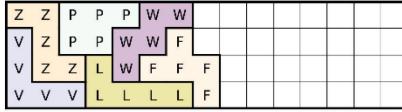
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0220 L6 -FNTVYZ-



Pentomino 4X15
0230 L6 -FLPWXZ-



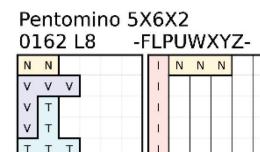
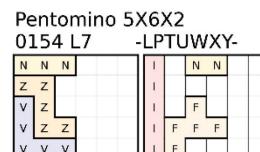
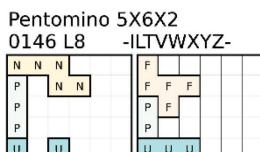
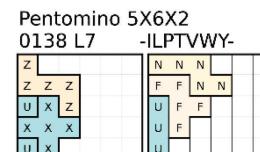
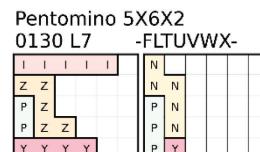
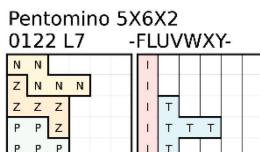
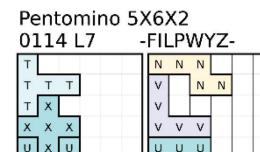
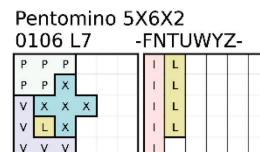
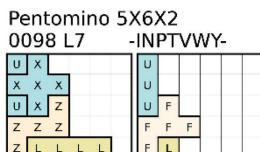
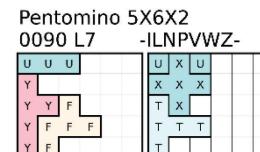
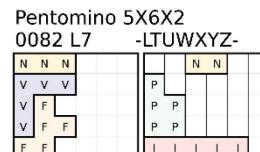
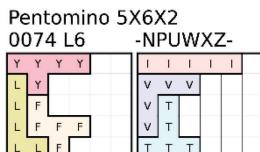
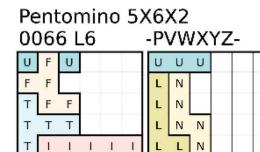
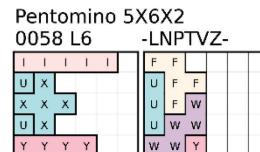
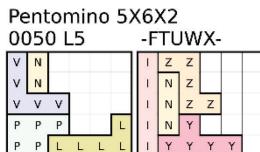
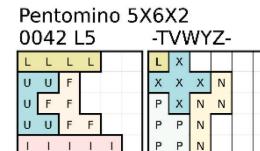
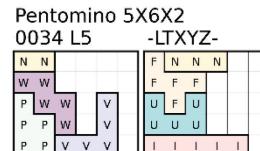
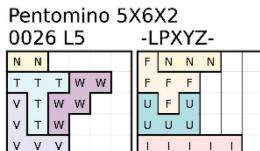
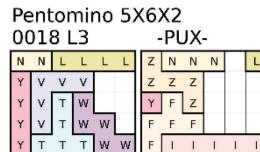
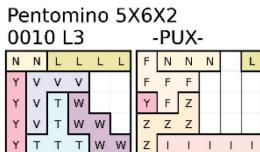
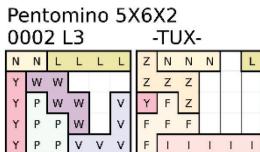
Pentomino 4X15
0240 L6 -INTUXY-

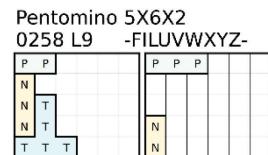
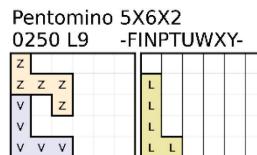
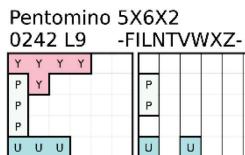
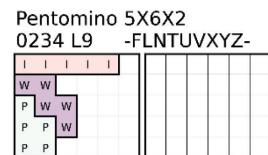
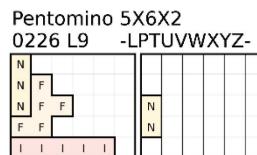
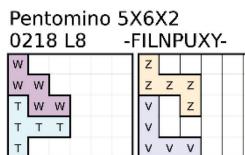
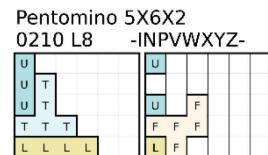
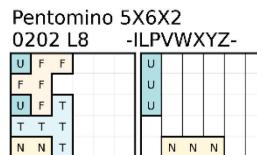
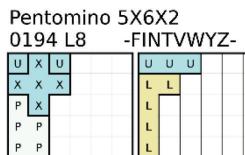
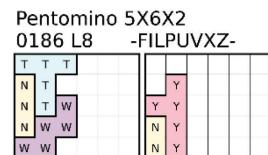
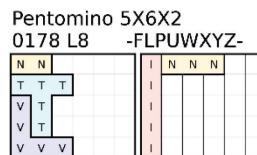
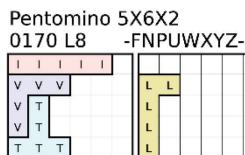


End of Problem

Pentomino 3D 5X6X2 Edition

Problems





End of Problem

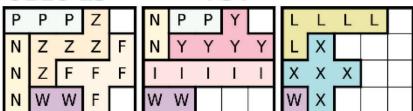
Pentomino 3D 4X5X3 Edition

Problems

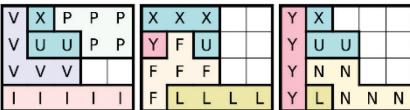
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0010 L3 -PWX-



Pentomino 4X5X3
0110 L3 -TUV-



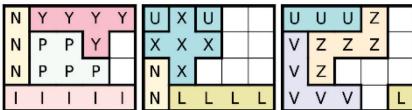
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0210 L3 -TWZ-



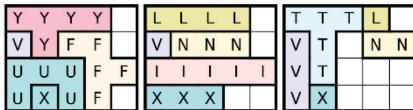
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0310 L3 -FWX-



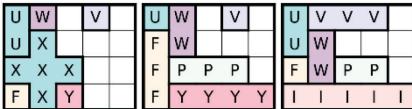
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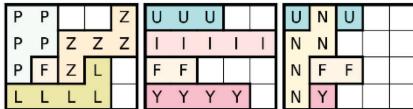
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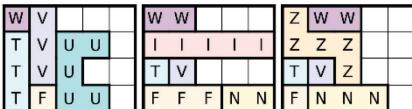
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0610 L4 -LNTZ-



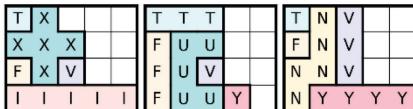
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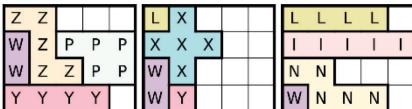
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0810 L4 -LPXY-



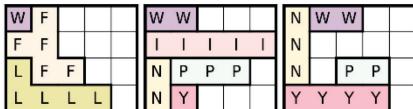
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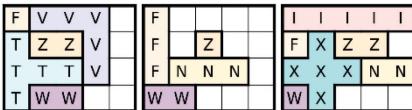
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1010 L4 -FTUV-



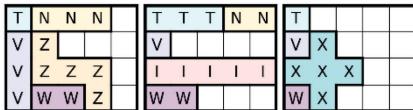
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1110 L5 -TUVXZ-



Pentomino 4X5X3
1210 L4 -LPUY-



Pentomino 4X5X3
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Pentomino 4X5X3
1410 L5 -FLNXZ-



Pentomino 4X5X3
1510 L5 -PUVXZ-



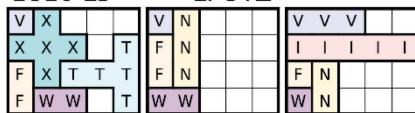
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1610 L5 -PVWXZ-



Pentomino 4X5X3
1710 L5 -FTWYZ-



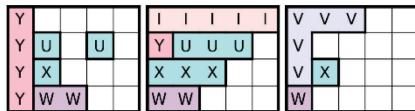
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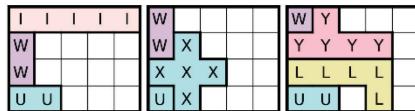
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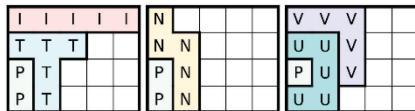
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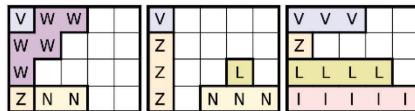
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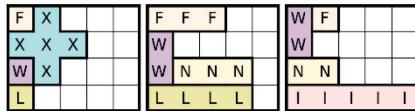
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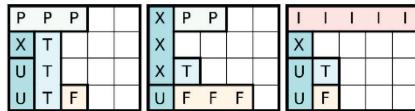
Pentomino 4X5X3
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Pentomino 4X5X3
2410 L6 -PTUVYZ-



Pentomino 4X5X3
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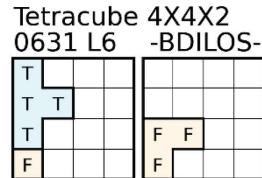
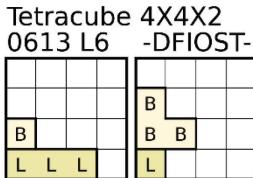
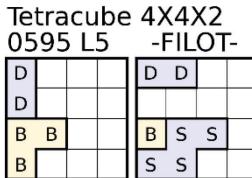
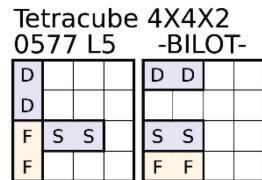
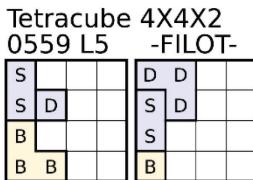
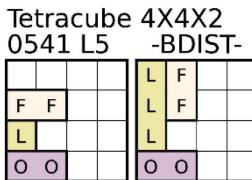
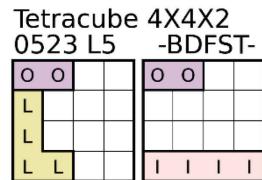
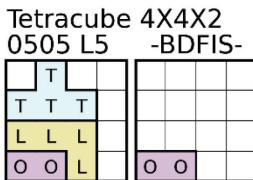
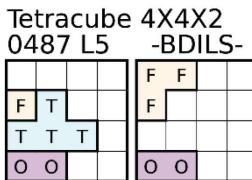
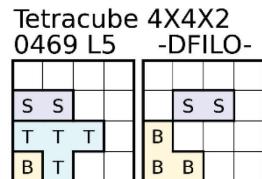
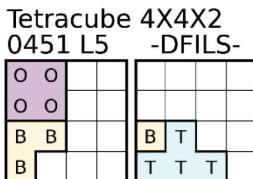
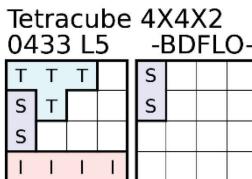
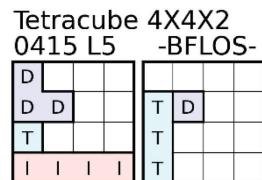
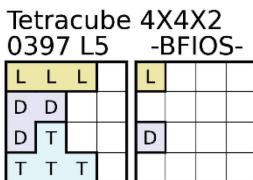
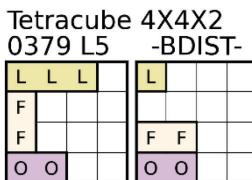
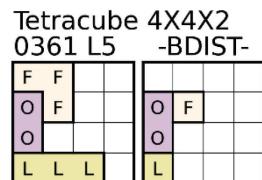
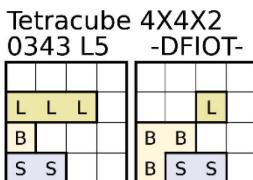
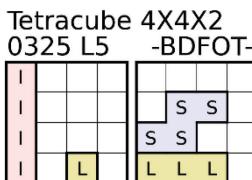


End of Problem

Tetracube 3D 4X4X2 Edition

Problems

Tetracube 4X4X2 0001 L3	-DOS-	Tetracube 4X4X2 0019 L3	-FLT-	Tetracube 4X4X2 0037 L3	-BDL-
Tetracube 4X4X2 0055 L3	-BDT-	Tetracube 4X4X2 0073 L3	-BOT-	Tetracube 4X4X2 0091 L3	-BIT-
Tetracube 4X4X2 0109 L3	-BDF-	Tetracube 4X4X2 0127 L4	-DILO-	Tetracube 4X4X2 0145 L4	-FLOS-
Tetracube 4X4X2 0163 L4	-DFOT-	Tetracube 4X4X2 0181 L4	-FLOT-	Tetracube 4X4X2 0199 L4	-BFST-
Tetracube 4X4X2 0217 L4	-BILO-	Tetracube 4X4X2 0235 L4	-FIOS-	Tetracube 4X4X2 0253 L5	-FILOS-
Tetracube 4X4X2 0271 L5	-BFIOT-	Tetracube 4X4X2 0289 L4	-ILST-	Tetracube 4X4X2 0307 L5	-BDLST-



End of Problem

Pentomino 2D 6X10 Edition

Solutions

Pentomino 6X10

Solution 0001



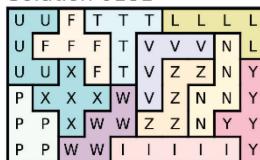
Pentomino 6X10

Solution 0091



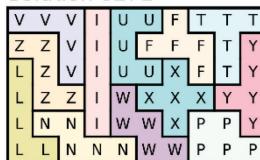
Pentomino 6X10

Solution 0181



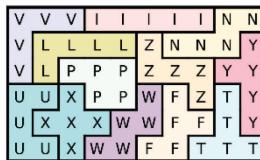
Pentomino 6X10

Solution 0271



Pentomino 6X10

Solution 0361



Pentomino 6X10

Solution 0031



Pentomino 6X10

Solution 0121



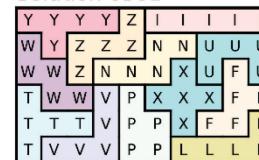
Pentomino 6X10

Solution 0211



Pentomino 6X10

Solution 0301



Pentomino 6X10

Solution 0061



Pentomino 6X10

Solution 0151



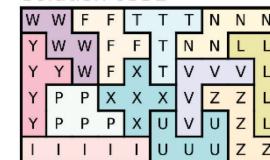
Pentomino 6X10

Solution 0241



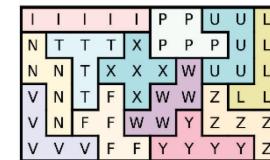
Pentomino 6X10

Solution 0331



Pentomino 6X10

Solution 0421



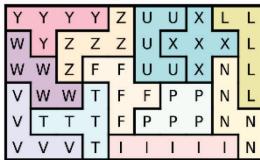
Pentomino 6X10

Solution 0451



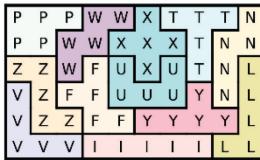
Pentomino 6X10

Solution 0541



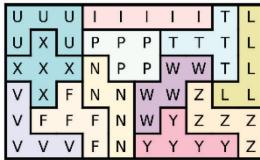
Pentomino 6X10

Solution 0631



Pentomino 6X10

Solution 0721



Pentomino 6X10

Solution 0811



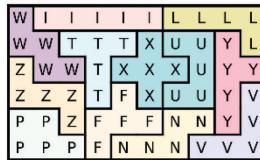
Pentomino 6X10

Solution 0481



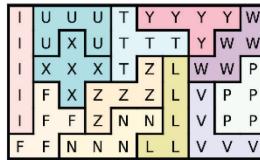
Pentomino 6X10

Solution 0571



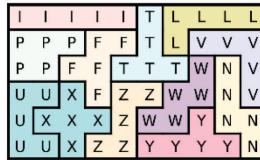
Pentomino 6X10

Solution 0661



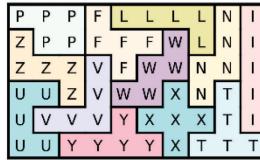
Pentomino 6X10

Solution 0751



Pentomino 6X10

Solution 0841



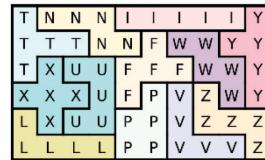
Pentomino 6X10

Solution 0511



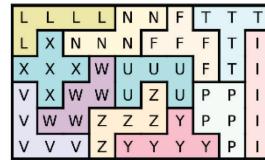
Pentomino 6X10

Solution 0601



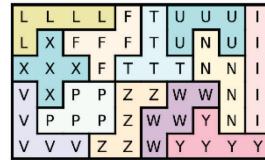
Pentomino 6X10

Solution 0691



Pentomino 6X10

Solution 0781



End of Solution

Pentomino 5X12
Solution 0535



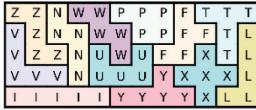
Pentomino 5X12
Solution 0610



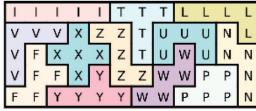
Pentomino 5X12
Solution 0685



Pentomino 5X12
Solution 0760



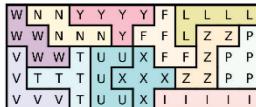
Pentomino 5X12
Solution 0835



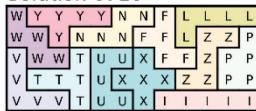
Pentomino 5X12
Solution 0560



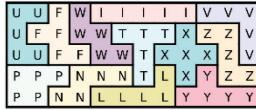
Pentomino 5X12
Solution 0635



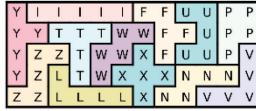
Pentomino 5X12
Solution 0710



Pentomino 5X12
Solution 0785



Pentomino 5X12
Solution 0860



Pentomino 5X12
Solution 0585



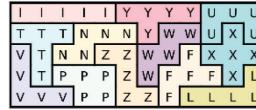
Pentomino 5X12
Solution 0660



Pentomino 5X12
Solution 0735



Pentomino 5X12
Solution 0810



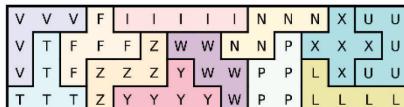
Pentomino 5X12
Solution 0885



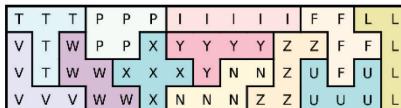
End of Solution

Pentomino 2D 4X15 Edition**Solutions**

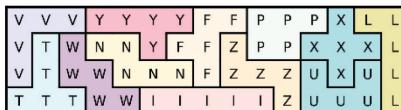
**Pentomino 4X15
Solution 0010**



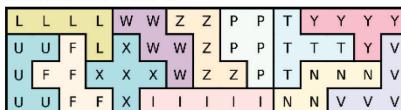
**Pentomino 4X15
Solution 0030**



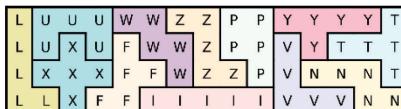
**Pentomino 4X15
Solution 0050**



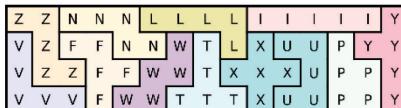
**Pentomino 4X15
Solution 0070**



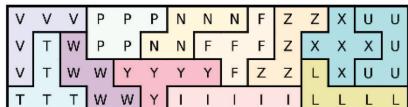
**Pentomino 4X15
Solution 0090**



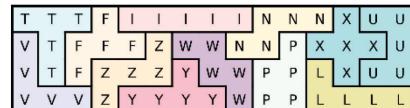
**Pentomino 4X15
Solution 0110**



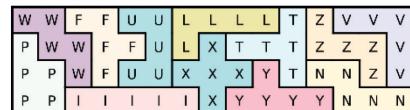
**Pentomino 4X15
Solution 0020**



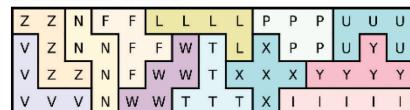
**Pentomino 4X15
Solution 0040**



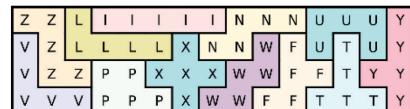
**Pentomino 4X15
Solution 0060**



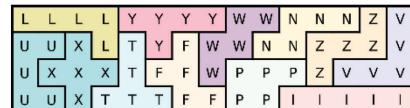
**Pentomino 4X15
Solution 0080**



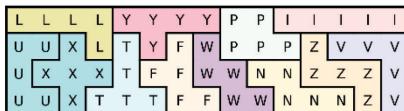
**Pentomino 4X15
Solution 0100**



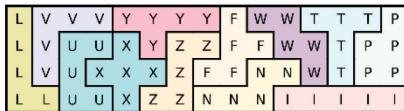
**Pentomino 4X15
Solution 0120**



Pentomino 4X15 Solution 0130



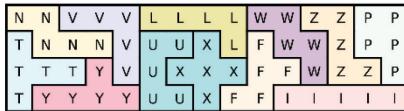
Pentomino 4X15 Solution 0150



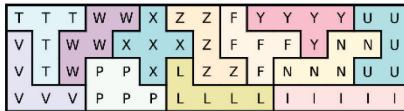
Pentomino 4X15 Solution 0170



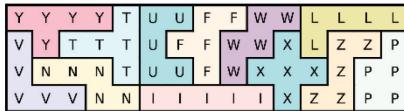
Pentomino 4X15 Solution 0190



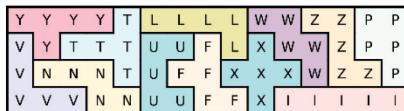
Pentomino 4X15 Solution 0210



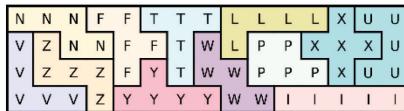
Pentomino 4X15 Solution 0230



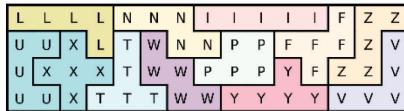
Pentomino 4X15 Solution 0140



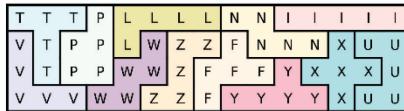
Pentomino 4X15 Solution 0160



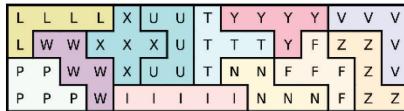
Pentomino 4X15 Solution 0180



Pentomino 4X15 Solution 0200



Pentomino 4X15 Solution 0220

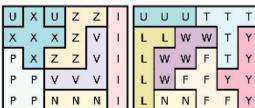


End of Solution

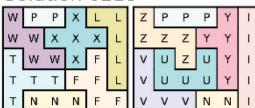
Pentomino 5X6X2 Solution 0170



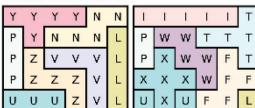
Pentomino 5X6X2 Solution 0194



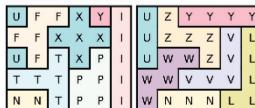
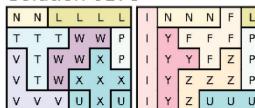
Pentomino 5X6X2 Solution 0218



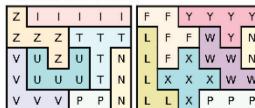
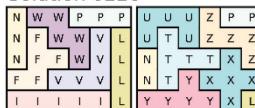
Pentomino 5X6X2 Solution 0242



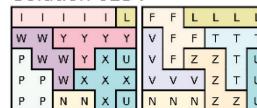
Pentomino 5X6X2 Solution 0178



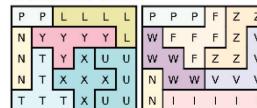
Pentomino 5X6X2 Solution 0226



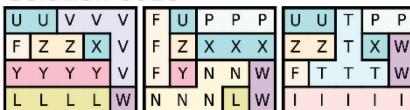
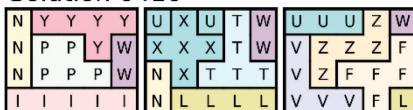
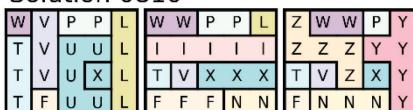
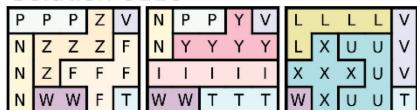
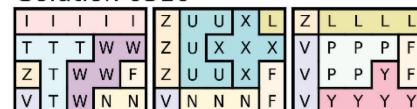
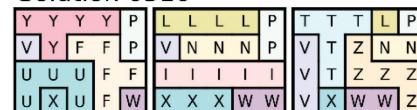
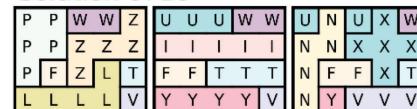
Pentomino 5X6X2 Solution 0234



Pentomino 5X6X2 Solution 0258



End of Solution

Pentomino 3D 4X5X3 Edition**Solutions****Pentomino 4X5X3
Solution 0010****Pentomino 4X5X3
Solution 0210****Pentomino 4X5X3
Solution 0410****Pentomino 4X5X3
Solution 0610****Pentomino 4X5X3
Solution 0810****Pentomino 4X5X3
Solution 1010****Pentomino 4X5X3
Solution 1210****Pentomino 4X5X3
Solution 0110****Pentomino 4X5X3
Solution 0310****Pentomino 4X5X3
Solution 0510****Pentomino 4X5X3
Solution 0710****Pentomino 4X5X3
Solution 0910****Pentomino 4X5X3
Solution 1110****Pentomino 4X5X3
Solution 1310**

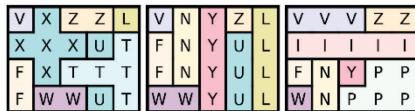
Pentomino 4X5X3
Solution 1410



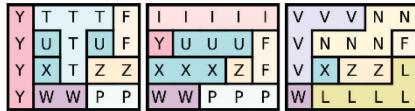
Pentomino 4X5X3
Solution 1610



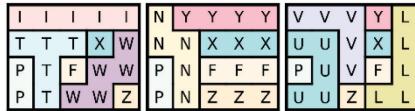
Pentomino 4X5X3
Solution 1810



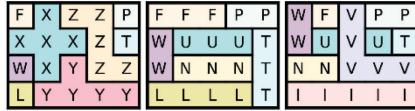
Pentomino 4X5X3
Solution 2010



Pentomino 4X5X3
Solution 2210



Pentomino 4X5X3
Solution 2410



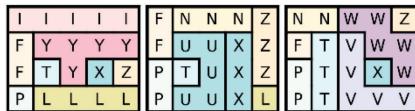
Pentomino 4X5X3
Solution 1510



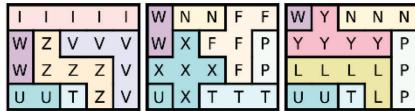
Pentomino 4X5X3
Solution 1710



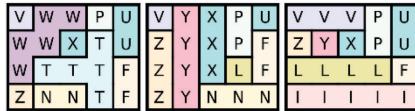
Pentomino 4X5X3
Solution 1910



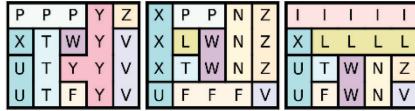
Pentomino 4X5X3
Solution 2110



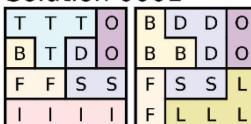
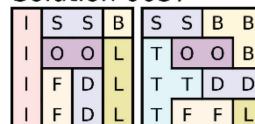
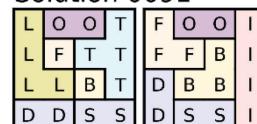
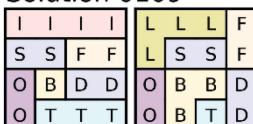
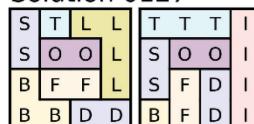
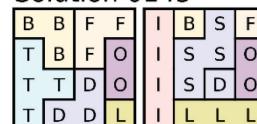
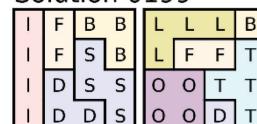
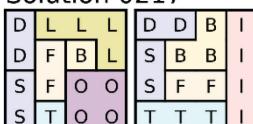
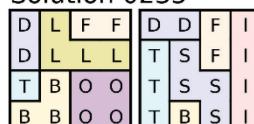
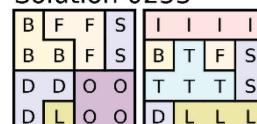
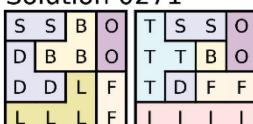
Pentomino 4X5X3
Solution 2230

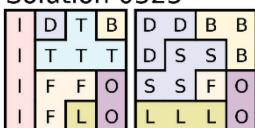
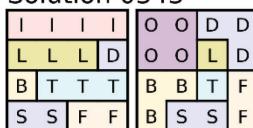
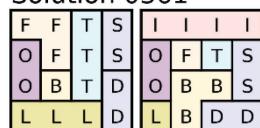
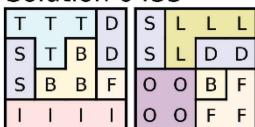
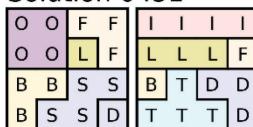
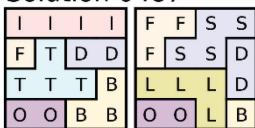
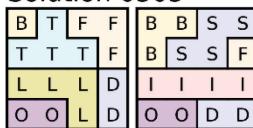
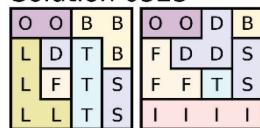
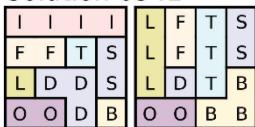
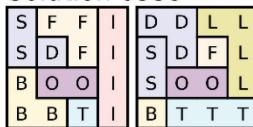
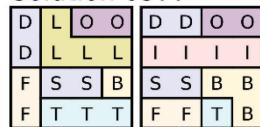
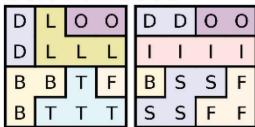
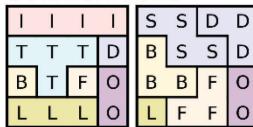
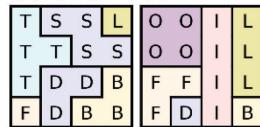


Pentomino 4X5X3
Solution 2510



End of Solution

Tetracube 3D 4X4X2 Edition**Solutions**Tetracube 4X4X2
Solution 0001Tetracube 4X4X2
Solution 0019Tetracube 4X4X2
Solution 0037Tetracube 4X4X2
Solution 0055Tetracube 4X4X2
Solution 0073Tetracube 4X4X2
Solution 0091Tetracube 4X4X2
Solution 0109Tetracube 4X4X2
Solution 0127Tetracube 4X4X2
Solution 0145Tetracube 4X4X2
Solution 0163Tetracube 4X4X2
Solution 0181Tetracube 4X4X2
Solution 0199Tetracube 4X4X2
Solution 0217Tetracube 4X4X2
Solution 0235Tetracube 4X4X2
Solution 0253Tetracube 4X4X2
Solution 0271Tetracube 4X4X2
Solution 0289Tetracube 4X4X2
Solution 0307

Tetracube 4X4X2
Solution 0325Tetracube 4X4X2
Solution 0343Tetracube 4X4X2
Solution 0361Tetracube 4X4X2
Solution 0379Tetracube 4X4X2
Solution 0397Tetracube 4X4X2
Solution 0415Tetracube 4X4X2
Solution 0433Tetracube 4X4X2
Solution 0451Tetracube 4X4X2
Solution 0469Tetracube 4X4X2
Solution 0487Tetracube 4X4X2
Solution 0505Tetracube 4X4X2
Solution 0523Tetracube 4X4X2
Solution 0541Tetracube 4X4X2
Solution 0559Tetracube 4X4X2
Solution 0577Tetracube 4X4X2
Solution 0595Tetracube 4X4X2
Solution 0613Tetracube 4X4X2
Solution 0631

End of Solution

Pentomino Quest Sample Book

Author: Sasuke Hashiba

Pentomino Quest 6X10 Edition

Contents

Pentomino 2D 6X10 2,339 Q&A

Samples Problems

Pentomino 6X10

0025 L3 -UVX-



Pentomino 6X10

0189 L4 -PTXY-



Pentomino 6X10

0419 L5 -FVXX-



Pentomino 6X10

0866 L6 -IPWYZ-



Pentomino 6X10

1275 L7 -DTWAWXY-



Pentomino 6X10

1923 L8 -DTWAWXY-



Written by Sasuke Hashiba

Pentomino Quest Classic Edition

Contents

Pentomino 2D 5X12 1,010 Q&A

Pentomino 2D 4X15 368 Q&A

Pentomino 3D 5X6X2 264 Q&A

Tetracube 3D 4X4X2 695 Q&A

Samples

Pentomino 5X12

0098 L4 -NPVZ-



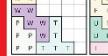
Pentomino 4X15

0122 L5 -PVVYZ-



Pentomino 5X6X2

0033 L5 -LVXYZ-



Tetracube 4X4X2

0014 L3 -DOS-

