

Tetromino Packing

Jacob Patenaude - 301203788

Program run with reflections included

Program run with Z-pieces included

Iteration number: 1

Board size: 2x2

Average IDP call: 0.247s

Number packable: 1 out of 5

Total time taken: 1.235s

nR=0

nS=1

nT=0

nL=0

nZ=0

1	1
1	1

Iteration number: 2

Board size: 2x4

Average IDP call: 0.243s

Number packable: 3 out of 15

Total time taken: 3.646s

nR=2

nS=0

nT=0

nL=0

nZ=0

nR=0

nS=2

nT=0

nL=0

nZ=0

nR=0

nS=0

nT=0

nL=2

nZ=0

2	2	2	2	2	2	1	1	2	2	2	1
1	1	1	1	1	1	2	2	1	1	2	1

Iteration number: 3

Board size: 3x4

Average IDP call: 0.245s

Number packable: 6 out of 35

Total time taken: 8.575s

nR=3

nS=0

nT=0

nL=0

nZ=0

nR=1

nS=2

nT=0

nL=0

nZ=0

nR=1

nS=0

nT=0

nL=2

nZ=0

nR=0

nS=1

nT=0

nL=2

nZ=0

nR=0

nS=0

nT=2

nL=1

nZ=0

nR=0

nS=0

nT=0

nL=2

nZ=1

2	2	2	2	1	1	2	2	2	2	2	2	2	3	1	1	1	3	3	3	2	3	3	3	1
1	1	1	1	1	1	2	2	3	3	3	1	3	3	1	2	2	3	1	2	2	3	2	2	1
3	3	3	3	3	3	3	3	3	1	1	1	3	3	2	2	1	1	1	2	2	2	1	1	

Iteration number: 4
Board size: 4x4
Average IDP call: 0.444s
Number packable: 12 out of 70
Total time taken: 31.085s

nR=4 nS=0 nT=0 nL=0 nZ=0	nR=2 nS=2 nT=0 nL=0 nZ=0	nR=2 nS=0 nT=0 nL=2 nZ=0	nR=1 nS=1 nT=0 nL=2 nZ=0	nR=1 nS=0 nT=2 nL=1 nZ=0	nR=1 nS=0 nT=0 nL=2 nZ=1	nR=0 nS=4 nT=0 nL=0 nZ=0
<div><div>1243</div><div>1243</div><div>1243</div><div>1243</div></div>	<div><div>2243</div><div>2243</div><div>1143</div><div>1143</div></div>	<div><div>4211</div><div>4231</div><div>4231</div><div>4233</div></div>	<div><div>3334</div><div>1134</div><div>1124</div><div>2224</div></div>	<div><div>1112</div><div>1422</div><div>4442</div><div>3333</div></div>	<div><div>4422</div><div>3442</div><div>3332</div><div>1111</div></div>	<div><div>2233</div><div>2233</div><div>1144</div><div>1144</div></div>
nR=0 nS=2 nT=0 nL=2 nZ=0	nR=0 nS=0 nT=4 nL=0 nZ=0	nR=0 nS=0 nT=2 nL=1 nZ=1	nR=0 nS=0 nT=0 nL=4 nZ=0	nR=0 nS=0 nT=0 nL=2 nZ=2		
<div><div>1122</div><div>3122</div><div>3144</div><div>3344</div></div>	<div><div>3331</div><div>4311</div><div>4421</div><div>4222</div></div>	<div><div>2223</div><div>2433</div><div>4413</div><div>4111</div></div>	<div><div>1122</div><div>3142</div><div>3142</div><div>3344</div></div>	<div><div>3111</div><div>3341</div><div>2344</div><div>2224</div></div>		