Imagina

M.Leclère

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Problème csp1:
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SeachSol:

 $\{x1=1, x2=2, x3=7, x4=8, x5=1\}$

7 noeuds ont générés

SearchAllSoutions:

5 solutions

 $\{x1=3, x2=4, x3=2, x4=3, x5=7\}$

 $\{x1=5, x2=1, x3=6, x4=1, x5=5\}$

{x1=8, x2=4, x3=2, x4=3, x5=7}

{x1=8, x2=7, x3=8, x4=5, x5=6}

 $\{x1=8, x2=7, x3=8, x4=5, x5=8\}$

88 noeuds ont générés

Problème csp2:

SeachSol:

{x8=4, x0=0, x1=0, x2=0, x3=2, x4=0, x5=1, x6=2, x7=4}

11 noeuds ont générés

SearchAllSoutions:

6 solutions

 $\{x8=4, x0=1, x1=0, x2=0, x3=2, x4=0, x5=0, x6=1, x7=4\}$

 $\{x8=4, x0=1, x1=0, x2=0, x3=2, x4=0, x5=0, x6=1, x7=5\}$

 $\{x8=4, x0=1, x1=0, x2=0, x3=2, x4=1, x5=1, x6=1, x7=4\}$

 $\{x8=4, x0=1, x1=0, x2=0, x3=2, x4=1, x5=1, x6=1, x7=5\}$

 $\{x8=4, x0=1, x1=0, x2=0, x3=2, x4=2, x5=2, x6=1, x7=4\}$

 $\{x8=4, x0=1, x1=0, x2=0, x3=2, x4=2, x5=2, x6=1, x7=5\}$

54 noeuds ont générés

Problème 5reines:

SeachSol:

{rl1=c1, rl3=c2, rl2=c4, rl5=c3, rl4=c5}

7 noeuds ont générés

SearchAllSoutions:

10 solutions

{rl3=c2, rl2=c4, rl5=c3, rl4=c5, rl1=c1}

{rl3=c5, rl2=c3, rl5=c4, rl4=c2, rl1=c1}

{rl3=c1, rl2=c4, rl5=c5, rl4=c3, rl1=c2}

{rl3=c3, rl2=c5, rl5=c4, rl4=c1, rl1=c2}

{rl3=c2, rl2=c5, rl5=c1, rl4=c4, rl1=c3}

{rl3=c4, rl2=c1, rl5=c5, rl4=c2, rl1=c3}

{rl3=c3, rl2=c1, rl5=c2, rl4=c5, rl1=c4}

{rl3=c5, rl2=c2, rl5=c1, rl4=c3, rl1=c4}

{rl3=c1, rl2=c3, rl5=c2, rl4=c4, rl1=c5}

{rl3=c4, rl2=c2, rl5=c3, rl4=c1, rl1=c5}

61 noeuds ont générés

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Problème 8reines:
SeachSol:
{rl1=1, rl3=2, rl2=7, rl5=8, rl4=8, rl7=8, rl6=8, rl8=3}
10 noeuds ont générés
SearchAllSoutions:
92 solutions
{rl1=1, rl3=4, rl2=7, rl5=8, rl4=6, rl7=5, rl6=2, rl8=3}
{rl1=1, rl3=5, rl2=7, rl5=2, rl4=8, rl7=6, rl6=4, rl8=3}
{rl1=1, rl3=8, rl2=5, rl5=3, rl4=6, rl7=2, rl6=7, rl8=4}
{rl1=1, rl3=8, rl2=6, rl5=7, rl4=3, rl7=2, rl6=4, rl8=5}
{rl1=2, rl3=1, rl2=6, rl5=4, rl4=7, rl7=3, rl6=8, rl8=5}
{rl1=2, rl3=3, rl2=7, rl5=8, rl4=6, rl7=1, rl6=5, rl8=4}
{rl1=2, rl3=5, rl2=7, rl5=1, rl4=8, rl7=6, rl6=4, rl8=3}
{rl1=2, rl3=6, rl2=4, rl5=3, rl4=8, rl7=7, rl6=1, rl8=5}
{rl1=2, rl3=6, rl2=8, rl5=3, rl4=1, rl7=7, rl6=5, rl8=4}
{rl1=2, rl3=7, rl2=5, rl5=1, rl4=4, rl7=6, rl6=8, rl8=3}
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{rl1=4, rl3=5, rl2=8, rl5=1, rl4=3, rl7=2, rl6=7, rl8=6}
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{rl1=7, rl3=3, rl2=1, rl5=6, rl4=8, rl7=2, rl6=4, rl8=5}
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{rl1=7, rl3=3, rl2=5, rl5=6, rl4=1, rl7=2, rl6=8, rl8=4}
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{rl1=7, rl3=6, rl2=2, rl5=1, rl4=3, rl7=8, rl6=4, rl8=5}
{rl1=7, rl3=8, rl2=3, rl5=5, rl4=2, rl7=6, rl6=1, rl8=4}
{rl1=8, rl3=1, rl2=3, rl5=2, rl4=6, rl7=7, rl6=5, rl8=4}
{rl1=8, rl3=1, rl2=4, rl5=6, rl4=3, rl7=7, rl6=2, rl8=5}
{rl1=8, rl3=4, rl2=2, rl5=7, rl4=1, rl7=3, rl6=5, rl8=6}
{rl1=8, rl3=5, rl2=2, rl5=1, rl4=3, rl7=4, rl6=7, rl8=6}
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2178 noeuds ont générés

Problème colore:

SeachSol:

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=R, V=B, V2=R, T2=R}

16 noeuds ont générés

SearchAllSoutions:

36 solutions

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=R, V=B, V2=R, T2=R}

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=G, V=B, V2=R, T2=G}

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=B, V=B, V2=R, T2=B}

{Q2=R, NSW2=G, SA2=B, NT=G, WA2=R, WA=B, NT2=G, SA=R, Q=B, NSW=G, T=R, V=B, V2=R, T2=R}

{Q2=R, NSW2=G, SA2=B, NT=G, WA2=R, WA=B, NT2=G, SA=R, Q=B, NSW=G, T=G, V=B, V2=R, T2=G}

{Q2=R, NSW2=G, SA2=B, NT=G, WA2=R, WA=B, NT2=G, SA=R, Q=B, NSW=G, T=B, V=B, V2=R, T2=B}

{Q2=R, NSW2=B, SA2=G, NT=R, WA2=R, WA=G, NT2=B, SA=B, Q=G, NSW=R, T=R, V=G, V2=R, T2=R}

{Q2=R, NSW2=B, SA2=G, NT=R, WA2=R, WA=G, NT2=B, SA=B, Q=G, NSW=R, T=G, V=G, V2=R, T2=G}

{Q2=R, NSW2=B, SA2=G, NT=R, WA2=R, WA=G, NT2=B, SA=B, Q=G, NSW=R, T=B, V=G, V2=R, T2=B}

{Q2=R, NSW2=B, SA2=G, NT=B, WA2=R, WA=G, NT2=B, SA=R, Q=G, NSW=B, T=R, V=G, V2=R, T2=R}

{Q2=R, NSW2=B, SA2=G, NT=B, WA2=R, WA=G, NT2=B, SA=R, Q=G, NSW=B, T=G, V=G, V2=R, T2=G}

{Q2=R, NSW2=B, SA2=G, NT=B, WA2=R, WA=G, NT2=B, SA=R, Q=G, NSW=B, T=B, V=G, V2=R, T2=B}

{Q2=G, NSW2=R, SA2=B, NT=R, WA2=G, WA=B, NT2=R, SA=G, Q=B, NSW=R, T=R, V=B, V2=G, T2=R}

{Q2=G, NSW2=R, SA2=B, NT=R, WA2=G, WA=B, NT2=R, SA=G, Q=B, NSW=R, T=G, V=B, V2=G, T2=G}

- {Q2=G, NSW2=R, SA2=B, NT=R, WA2=G, WA=B, NT2=R, SA=G, Q=B, NSW=R, T=B, V=B, V2=G, T2=B}
- {Q2=G, NSW2=R, SA2=B, NT=G, WA2=G, WA=B, NT2=R, SA=R, Q=B, NSW=G, T=R, V=B, V2=G, T2=R}
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- {Q2=G, NSW2=R, SA2=B, NT=G, WA2=G, WA=B, NT2=R, SA=R, Q=B, NSW=G, T=B, V=B, V2=G, T2=B}
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- {Q2=G, NSW2=B, SA2=R, NT=G, WA2=G, WA=R, NT2=B, SA=B, Q=R, NSW=G, T=G, V=R, V2=G, T2=G}
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- {Q2=G, NSW2=B, SA2=R, NT=B, WA2=G, WA=R, NT2=B, SA=G, Q=R, NSW=B, T=R, V=R, V2=G, T2=R}
- {Q2=G, NSW2=B, SA2=R, NT=B, WA2=G, WA=R, NT2=B, SA=G, Q=R, NSW=B, T=G, V=R, V2=G, T2=G}
- {Q2=G, NSW2=B, SA2=R, NT=B, WA2=G, WA=R, NT2=B, SA=G, Q=R, NSW=B, T=B, V=R, V2=G, T2=B}
- {Q2=B, NSW2=R, SA2=G, NT=R, WA2=B, WA=G, NT2=R, SA=B, Q=G, NSW=R, T=R, V=G, V2=B, T2=R}
- {Q2=B, NSW2=R, SA2=G, NT=R, WA2=B, WA=G, NT2=R, SA=B, Q=G, NSW=R, T=G, V=G, V2=B, T2=G}
- {Q2=B, NSW2=R, SA2=G, NT=R, WA2=B, WA=G, NT2=R, SA=B, Q=G, NSW=R, T=B, V=G, V2=B, T2=B}
- {Q2=B, NSW2=R, SA2=G, NT=B, WA2=B, WA=G, NT2=R, SA=R, Q=G, NSW=B, T=R, V=G, V2=B, T2=R}
- {Q2=B, NSW2=R, SA2=G, NT=B, WA2=B, WA=G, NT2=R, SA=R, Q=G, NSW=B, T=G, V=G, V2=B, T2=G}
- {Q2=B, NSW2=R, SA2=G, NT=B, WA2=B, WA=G, NT2=R, SA=R, Q=G, NSW=B, T=B, V=G, V2=B, T2=B}
- {Q2=B, NSW2=G, SA2=R, NT=G, WA2=B, WA=R, NT2=G, SA=B, Q=R, NSW=G, T=R, V=R, V2=B, T2=R}
- {Q2=B, NSW2=G, SA2=R, NT=G, WA2=B, WA=R, NT2=G, SA=B, Q=R, NSW=G, T=G, V=R, V2=B, T2=G}
- {Q2=B, NSW2=G, SA2=R, NT=G, WA2=B, WA=R, NT2=G, SA=B, Q=R, NSW=G, T=B, V=R, V2=B, T2=B}
- {Q2=B, NSW2=G, SA2=R, NT=B, WA2=B, WA=R, NT2=G, SA=G, Q=R, NSW=B, T=R, V=R, V2=B, T2=R}
- {Q2=B, NSW2=G, SA2=R, NT=B, WA2=B, WA=R, NT2=G, SA=G, Q=R, NSW=B, T=G, V=R, V2=B, T2=G}
- $\{Q2=B, NSW2=G, SA2=R, NT=B, WA2=B, WA=R, NT2=G, SA=G, Q=R, NSW=B, T=B, V=R, V2=B, T2=B\}$
- 287 noeuds ont générés

Problème 5reinesExp:

SeachSol:

null

6 noeuds ont générés

SearchAllSoutions:

44 solutions

- {rl3=1, rl2=3, rl5=1, rl4=3, rl1=1}
- {rl3=1, rl2=4, rl5=2, rl4=5, rl1=1}
- {rl3=1, rl2=5, rl5=1, rl4=5, rl1=1}
- {rl3=2, rl2=4, rl5=2, rl4=5, rl1=1}
- 410 0 10 4 1- 0 14 14 4
- {rl3=2, rl2=4, rl5=3, rl4=5, rl1=1}
- {rl3=2, rl2=5, rl5=1, rl4=5, rl1=1}
- {rl3=2, rl2=5, rl5=3, rl4=5, rl1=1}
- {rl3=5, rl2=3, rl5=1, rl4=3, rl1=1}
- {rl3=5, rl2=3, rl5=4, rl4=2, rl1=1}
- {rl3=1, rl2=4, rl5=2, rl4=4, rl1=2}
- {rl3=1, rl2=4, rl5=5, rl4=3, rl1=2}
- {rl3=1, rl2=5, rl5=1, rl4=4, rl1=2}
- {rl3=2, rl2=4, rl5=2, rl4=4, rl1=2}
- {rl3=2, rl2=5, rl5=1, rl4=4, rl1=2}
- (110 2, 112 0, 110 1, 114 4, 111 2,
- {rl3=3, rl2=5, rl5=3, rl4=1, rl1=2}
- {rl3=3, rl2=5, rl5=4, rl4=1, rl1=2}
- {rl3=2, rl2=5, rl5=1, rl4=4, rl1=3}
- {rl3=2, rl2=5, rl5=1, rl4=5, rl1=3}
- {rl3=2, rl2=5, rl5=3, rl4=5, rl1=3}
- {rl3=3, rl2=1, rl5=2, rl4=5, rl1=3}
- {rl3=3, rl2=1, rl5=3, rl4=1, rl1=3}
- {rl3=3, rl2=1, rl5=3, rl4=5, rl1=3}
- {rl3=3, rl2=5, rl5=3, rl4=1, rl1=3}
- {rl3=3, rl2=5, rl5=3, rl4=5, rl1=3}
- {rl3=3, rl2=5, rl5=4, rl4=1, rl1=3}
- {rl3=4, rl2=1, rl5=3, rl4=1, rl1=3}
- (-10-4 -10-4 -15-5 -14-4 -14-2)
- {rl3=4, rl2=1, rl5=5, rl4=1, rl1=3}
- {rl3=4, rl2=1, rl5=5, rl4=2, rl1=3}
- {rl3=3, rl2=1, rl5=2, rl4=5, rl1=4}
- {rl3=3, rl2=1, rl5=3, rl4=5, rl1=4}
- {rl3=4, rl2=1, rl5=5, rl4=2, rl1=4}
- {rl3=4, rl2=2, rl5=4, rl4=2, rl1=4}
- {rl3=5, rl2=1, rl5=5, rl4=2, rl1=4}
- {rl3=5, rl2=2, rl5=1, rl4=3, rl1=4}
- {rl3=5, rl2=2, rl5=4, rl4=2, rl1=4}
- {rl3=1, rl2=3, rl5=2, rl4=4, rl1=5}
- {rl3=1, rl2=3, rl5=5, rl4=3, rl1=5}
- {rl3=4, rl2=1, rl5=3, rl4=1, rl1=5}
- {rl3=4, rl2=1, rl5=5, rl4=1, rl1=5}
- {rl3=4, rl2=2, rl5=3, rl4=1, rl1=5}

```
{rl3=4, rl2=2, rl5=4, rl4=1, rl1=5}
{rl3=5, rl2=1, rl5=5, rl4=1, rl1=5}
{rl3=5, rl2=2, rl5=4, rl4=1, rl1=5}
{rl3=5, rl2=3, rl5=5, rl4=3, rl1=5}
220 noeuds ont générés
```

Problème cryptoMoney:

SeachSol:

null

9 noeuds ont générés

SearchAllSoutions:

1 solutions

{R=8, S=9, D=7, E=5, Y=2, M=1, T1=1, N=6, T2=1, O=0, T3=0}

9744 noeuds ont générés

Type de contraintes en intension codé:

La contrainte avec expression ConstraintExp

Résultats obtenus sur:

Coloration:

SeachSol:

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=R, V=B, V2=R, T2=R}

16 noeuds ont générés

SearchAllSoutions:

36 solutions

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=R, V=B, V2=R, T2=R}

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=G, V=B, V2=R, T2=G}

{Q2=R, NSW2=G, SA2=B, NT=R, WA2=R, WA=B, NT2=G, SA=G, Q=B, NSW=R, T=B, V=B, V2=R, T2=B}

{Q2=R, NSW2=G, SA2=B, NT=G, WA2=R, WA=B, NT2=G, SA=R, Q=B, NSW=G, T=R, V=B, V2=R, T2=R}

{Q2=R, NSW2=G, SA2=B, NT=G, WA2=R, WA=B, NT2=G, SA=R, Q=B, NSW=G, T=G, V=B, V2=R, T2=G}

{Q2=R, NSW2=G, SA2=B, NT=G, WA2=R, WA=B, NT2=G, SA=R, Q=B, NSW=G, T=B, V=B, V2=R, T2=B}

{Q2=R, NSW2=B, SA2=G, NT=R, WA2=R, WA=G, NT2=B, SA=B, Q=G, NSW=R, T=R, V=G, V2=R, T2=R}

{Q2=R, NSW2=B, SA2=G, NT=R, WA2=R, WA=G, NT2=B, SA=B, Q=G, NSW=R, T=G, V=G, V2=R, T2=G}

{Q2=R, NSW2=B, SA2=G, NT=R, WA2=R, WA=G, NT2=B, SA=B, Q=G, NSW=R, T=B, V=G, V2=R, T2=B}

{Q2=R, NSW2=B, SA2=G, NT=B, WA2=R, WA=G, NT2=B, SA=R, Q=G, NSW=B, T=R, V=G, V2=R, T2=R}

- {Q2=R, NSW2=B, SA2=G, NT=B, WA2=R, WA=G, NT2=B, SA=R, Q=G, NSW=B, T=G, V=G, V2=R, T2=G}
- {Q2=R, NSW2=B, SA2=G, NT=B, WA2=R, WA=G, NT2=B, SA=R, Q=G, NSW=B, T=B, V=G, V2=R, T2=B}
- $\{Q2=G, NSW2=R, SA2=B, NT=R, WA2=G, WA=B, NT2=R, SA=G, Q=B, NSW=R, T=R, V=B, V2=G, T2=R\}$
- $\{Q2=G, NSW2=R, SA2=B, NT=R, WA2=G, WA=B, NT2=R, SA=G, Q=B, NSW=R, T=G, V=B, V2=G, T2=G\}$
- $\{Q2=G, NSW2=R, SA2=B, NT=R, WA2=G, WA=B, NT2=R, SA=G, Q=B, NSW=R, T=B, V=B, V2=G, T2=B\}$
- $\{Q2=G, NSW2=R, SA2=B, NT=G, WA2=G, WA=B, NT2=R, SA=R, Q=B, NSW=G, T=R, V=B, V2=G, T2=R\}$
- {Q2=G, NSW2=R, SA2=B, NT=G, WA2=G, WA=B, NT2=R, SA=R, Q=B, NSW=G, T=G, V=B, V2=G, T2=G}
- {Q2=G, NSW2=R, SA2=B, NT=G, WA2=G, WA=B, NT2=R, SA=R, Q=B, NSW=G, T=B, V=B, V2=G, T2=B}
- {Q2=G, NSW2=B, SA2=R, NT=G, WA2=G, WA=R, NT2=B, SA=B, Q=R, NSW=G, T=R, V=R, V2=G, T2=R}
- {Q2=G, NSW2=B, SA2=R, NT=G, WA2=G, WA=R, NT2=B, SA=B, Q=R, NSW=G, T=G, V=R, V2=G, T2=G}
- {Q2=G, NSW2=B, SA2=R, NT=G, WA2=G, WA=R, NT2=B, SA=B, Q=R, NSW=G, T=B, V=R, V2=G, T2=B}
- {Q2=G, NSW2=B, SA2=R, NT=B, WA2=G, WA=R, NT2=B, SA=G, Q=R, NSW=B, T=R, V=R, V2=G, T2=R}
- {Q2=G, NSW2=B, SA2=R, NT=B, WA2=G, WA=R, NT2=B, SA=G, Q=R, NSW=B, T=G, V=R, V2=G, T2=G}
- {Q2=G, NSW2=B, SA2=R, NT=B, WA2=G, WA=R, NT2=B, SA=G, Q=R, NSW=B, T=B, V=R, V2=G, T2=B}
- $\{Q2=B, NSW2=R, SA2=G, NT=R, WA2=B, WA=G, NT2=R, SA=B, Q=G, NSW=R, T=R, V=G, V2=B, T2=R\}$
- $\{Q2=B, NSW2=R, SA2=G, NT=R, WA2=B, WA=G, NT2=R, SA=B, Q=G, NSW=R, T=G, V=G, V2=B, T2=G\}$
- {Q2=B, NSW2=R, SA2=G, NT=R, WA2=B, WA=G, NT2=R, SA=B, Q=G, NSW=R, T=B, V=G, V2=B, T2=B}
- {Q2=B, NSW2=R, SA2=G, NT=B, WA2=B, WA=G, NT2=R, SA=R, Q=G, NSW=B, T=R, V=G, V2=B, T2=R}
- {Q2=B, NSW2=R, SA2=G, NT=B, WA2=B, WA=G, NT2=R, SA=R, Q=G, NSW=B, T=G, V=G, V2=B, T2=G}
- {Q2=B, NSW2=R, SA2=G, NT=B, WA2=B, WA=G, NT2=R, SA=R, Q=G, NSW=B, T=B, V=G, V2=B, T2=B}
- {Q2=B, NSW2=G, SA2=R, NT=G, WA2=B, WA=R, NT2=G, SA=B, Q=R, NSW=G, T=R, V=R, V2=B, T2=R}
- {Q2=B, NSW2=G, SA2=R, NT=G, WA2=B, WA=R, NT2=G, SA=B, Q=R, NSW=G, T=G, V=R, V2=B, T2=G}
- {Q2=B, NSW2=G, SA2=R, NT=G, WA2=B, WA=R, NT2=G, SA=B, Q=R, NSW=G, T=B, V=R, V2=B, T2=B}

 $\{ \text{Q2=B, NSW2=G, SA2=R, NT=B, WA2=B, WA=R, NT2=G, SA=G, Q=R, NSW=B, T=R, V=R, V2=B, T2=R} \\ \{ \text{Q2=B, NSW2=G, SA2=R, NT=B, WA2=B, WA=R, NT2=G, SA=G, Q=R, NSW=B, T=G, V=R, V2=B, T2=G} \\ \{ \text{Q2=B, NSW2=G, SA2=R, NT=B, WA2=B, WA=R, NT2=G, SA=G, Q=R, NSW=B, T=B, V=R, V2=B, T2=B} \\ 287 \text{ noeuds ont générés}$

• Zèbre:

SeachSol: null 28 noeuds ont générés SearchAllSoutions :