

Output for 100 iteration

N-QUEENS PROBLEMS BY HILL CLIMBING:

Enter Number of iterations:100

Enter Number of queens:8

Steepest ascent hill climb (no sideways moves allowed):

Iteration :1

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Iteration :2

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Iteration :3

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Average Random Restart Required: 1.0

	All Problems	Successes	Failures
Iterations:	100	17	83
Percentage:	100.0%	17.0%	83.0%
Average Steps:	3	4	3

Steepest ascent hill climb (up to 100 sideways moves allowed):

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Average Random Restart Required: 1.0

	All Problems	Successes	Failures
Iterations:	100	93	7
Percentage:	100.0%	93.0%	7.0%
Average Steps:	23	19	77

Random restart hill climb:

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Average Random Restart Required: 7.18

	All Problems	Successes	Failures
Iterations:	100	100	0
Percentage:	100.0%	100.0%	0.0%
Average Steps:	28	28	0

Random restart hill climb (up to 100 sideways moves allowed):

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Average Random Restart Required: 1.08

	All Problems	Successes	Failures
Iterations:	100	100	0
Percentage:	100.0%	100.0%	0.0%
Average Steps:	25	25	0