

```
D:\Java\jdk1.8.0_102\bin\java.exe "-javaagent:D:\IntelliJ IDEA Community Edition 2019.2\lib\
idea_rt.jar=51999:D:\IntelliJ IDEA Community Edition 2019.2\bin" -Dfile.encoding=UTF-8 -
classpath D:\Java\jdk1.8.0_102\jre\lib\charsets.jar;D:\Java\jdk1.8.0_102\jre\lib\deploy.jar;D:\
Java\jdk1.8.0_102\jre\lib\ext\access-bridge-32.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\cldrdata.
jar;D:\Java\jdk1.8.0_102\jre\lib\ext\dnsns.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\jaccess.jar;D:\
Java\jdk1.8.0_102\jre\lib\ext\jfxrt.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\localedata.jar;D:\Java
\jdk1.8.0_102\jre\lib\ext\nashorn.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\sunec.jar;D:\Java\jdk1.8
.0_102\jre\lib\ext\sunjce_provider.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\sunmscapi.jar;D:\Java\
jdk1.8.0_102\jre\lib\ext\sunpkcs11.jar;D:\Java\jdk1.8.0_102\jre\lib\ext\zipfs.jar;D:\Java\jdk1.
8.0_102\jre\lib\javaws.jar;D:\Java\jdk1.8.0_102\jre\lib\jce.jar;D:\Java\jdk1.8.0_102\jre\lib\
jfr.jar;D:\Java\jdk1.8.0_102\jre\lib\jfxswt.jar;D:\Java\jdk1.8.0_102\jre\lib\jsse.jar;D:\Java\
jdk1.8.0_102\jre\lib\management-agent.jar;D:\Java\jdk1.8.0_102\jre\lib\plugin.jar;D:\Java\jdk1.
8.0_102\jre\lib\resources.jar;D:\Java\jdk1.8.0_102\jre\lib\rt.jar;D:\IntelliJ_Projects\
HillClimbingNQueens\out\production\HillClimbingNQueens edu.uncc.cci.algods.MainNQueensProblem
Please enter the number of queens (must be > 3):
8
Enter the number of runs:
500
Please select the Hill Climbing Search Method:
1. Hill Climbing Search using Steepest Ascent
2. Hill Climbing Search using Sideways Move
3. Random Restart Hill climbing Search without Sideways Move
4. Random Restart Hill climbing Search with Sideways Move
Enter choice:
4

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Random Restart Hill Climbing Search with Sideways Move
Number of Queens: 8
Number of Iterations: 500
Success Rate: 100%
Average Number of Steps when Algorithm Succeeds: 56
Average Number of Restarts when Algorithm Succeeds: ~ 1

Process finished with exit code 0
```