

Snaky Serenade Problem.

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As briefly explanation about the solution showed I would like to list the main features and modules used:

- Eclipse - Maven project with self-executable configuration (plugin into pom file)
- Junit testing module
- SF4log module

You also can find different packages to store files grouping by concept:

- root package with controller and solving class
- model package for data manipulation and other classes
- exception package for a simple exception class
- utils package to store all the utils functions and "twice time written" code

In order to design strategy, I have used:

- Basic controller class to manage the problem, encapsulated and ready to use with other projects, connect to a RESTful service, etc.
- Solver class with IoC which receive the ensemble of snakes and search for the solution
- Deep search graph algorithm with configurable control of visits to find the longest path = longest song
- Interface use to ensemble class (basic contract) to allow the creation of different solving strategies
- Abstract class for snakes and heritage use of them to manage and take advantage of proper OOP