Assignment 2

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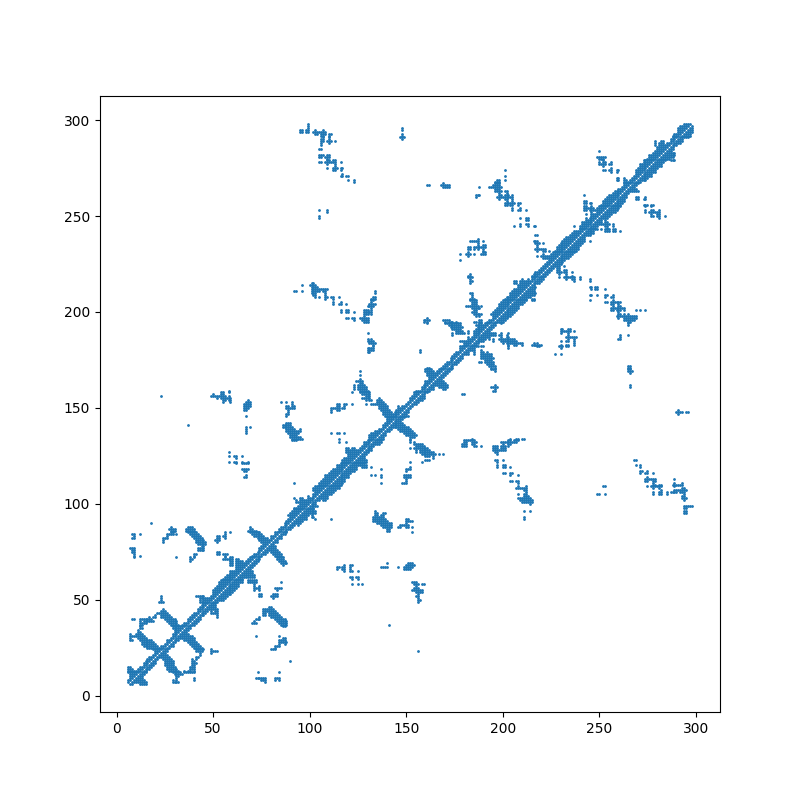
**Task 1**

Command: python ./task1.py ./2csn.pdb

Distance threshold: 10

图片包含 文本

描述已自动生成



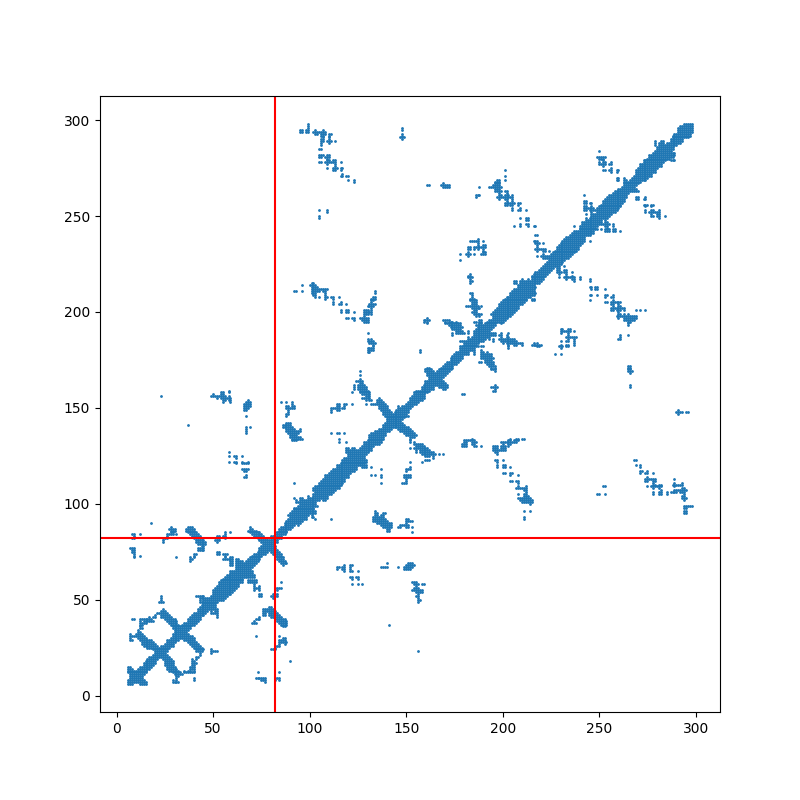
**Task 2**

Command: python ./task2.py ./2csn.pdb

Distance threshold: 10

文本

中度可信度描述已自动生成



**Task 3**

Command: python ./task3.py ./2csn.pdb

Distance threshold: 10

文本, 信件

描述已自动生成

Similarities and differences :

The split point obtained for task two and task three is around 85-105.

The split point obtained in task two is s-iCode equal to 88.

The split point obtained in task three is approximately where s-iCode is equal to 100.

The clear split point can be obtained by the DOMAK method.

The fuzzy split points can be obtained by the Kernighan-Lin method.

The two sets obtained by the Kernighan-Lin method will cross each other at the split point.

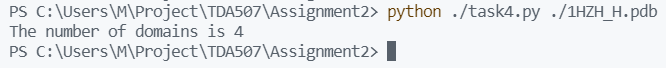
**Task 4.1（1HZH\_H.pdb）**

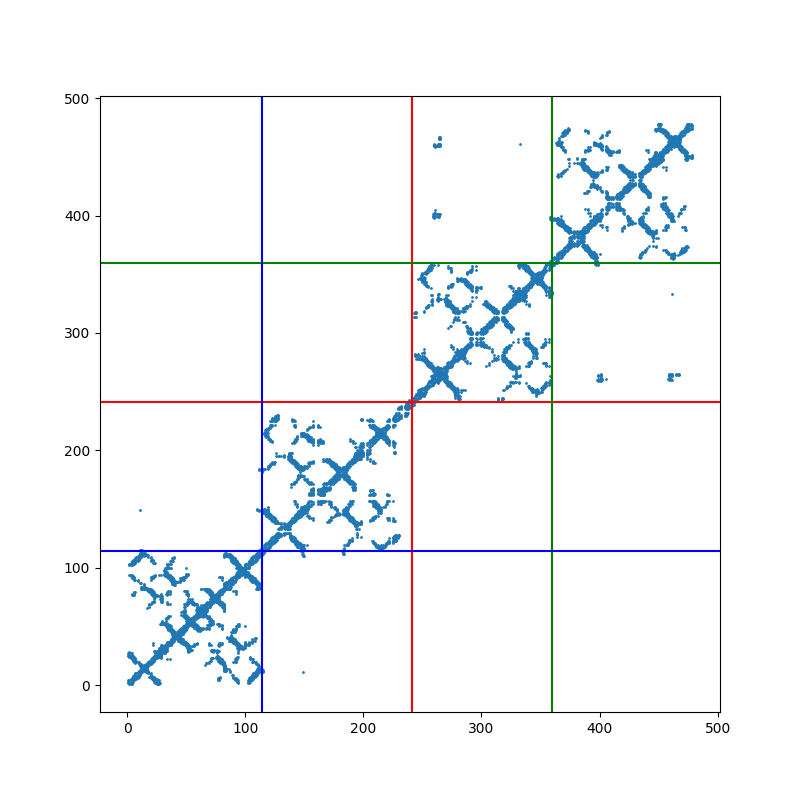
Command: python ./task4.py ./1HZH\_H.pdb

Distance threshold: 10

Find all domains by setting min residue and min split score.

The program can find 4 domains on the 1HZH\_H.pdb file, as shown on the diagonal line in the figure.





**Task 4.2（4GAF\_B.pdb）**

Command: python ./task4.py ./4GAF\_B.pdb

Distance threshold: 10

The program can find 3 domains on the 4GAF\_B.pdb file, as shown on the diagonal line in the figure.



