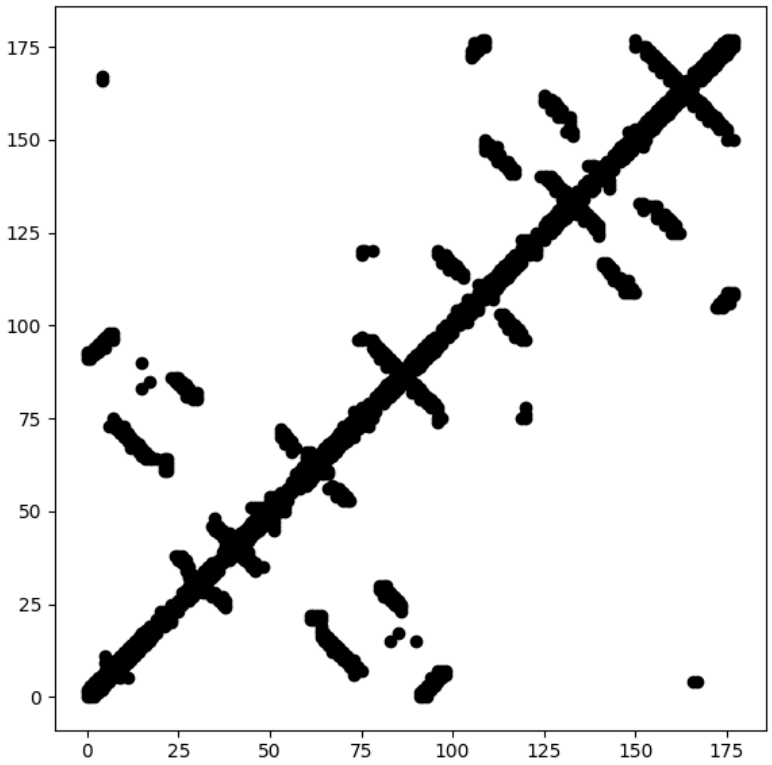
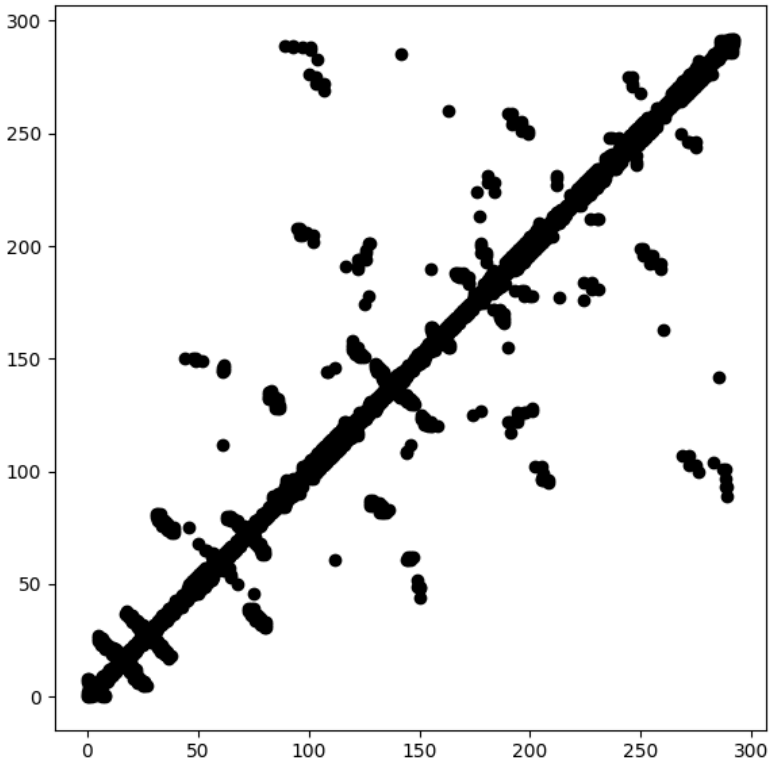
Practical 2

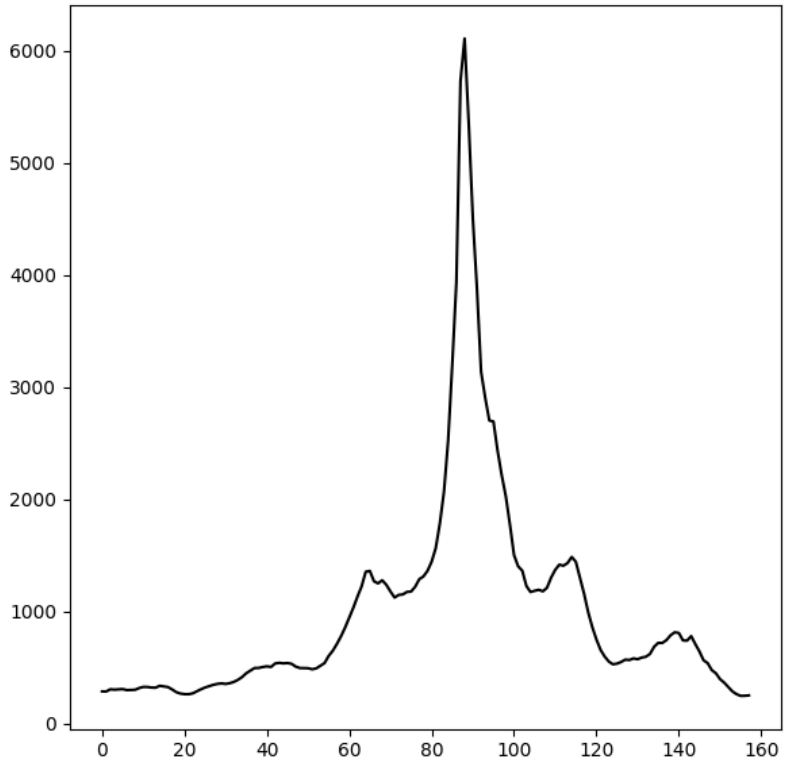
Task 1

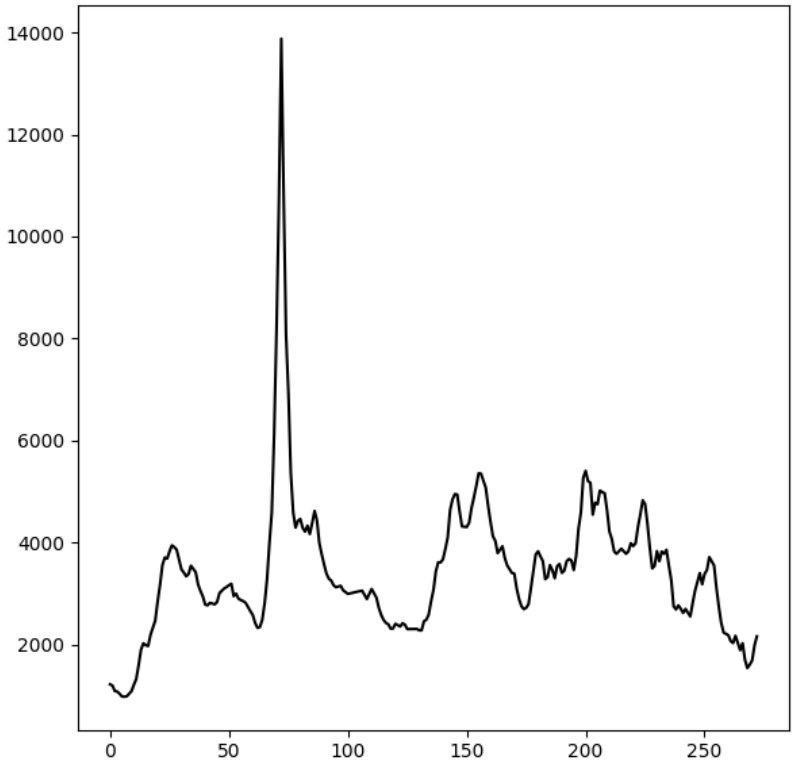




The images above shows the distance maps for 1CDH and 2CSN, respectively, when using a threshold of 7 Å.

Task 2





The images above shows the score of IntA * IntB / ExtAB. The horizontal axis represents the length of the first domain. I have used the constraint that a domain is at least 10 residues. For 1CDH the optimal split is at the 98th residue. For 2CSN the optimal split is at the 82nd residue.

Task 3

I did not get this to work properly. I think that I got the swapping part correct but I don't really understand how the U are generated. Also it seems as a very unnecessary thing to randomly generate partions since (I think) that could lead to that one set is not continues.