

Problem - 5 (Spring 2024)

Due date: 2 April 2024

1. Write a computer program to generate a nearest-neighbor map/table of N points listed in file 'xyz300.txt' using the periodic boundary conditions (PBC) and following *the approach* as discussed in the class. Assume that the nearest neighbors of a point are within a radial distance of 2.8 units and the length of the cubic box is 17.86 units.

Note: Use of any functions from MatLab, Python, or ready-made codes from internet are not permitted.