HW4

Write a code that compute the structure and the energy of a two dimensional H/P polymer on a two dimensional lattice.

Consider a chain of length 14-mers. Enumerate all possible configurations of the chain on the lattice. How many independent (mirror-image symmetry unrelated) conformations did you find?

Consider the following three sequence 14H , PPHHHHHHHHPPPP (8H,6P) and PPPPHHHHHHPPPP (6H,8P). Find the global energy minimum for each of these sequences. Which of the sequence is more stable?