Vector sequence:
NNNNNNNNNNNNNNNNNNNNGGCTGTGGCNAGTACTGCGACCTCCTAGCAAACTGGGGCACAGATAATC
GATAGTTTGTTTGAATGAGGCTTCAGTACTTTACAGAATCGTTGCCTGCACATCTTGGANCACTTGCTGG
GATTACTTCTTCAGGTTAACCCAACAGAAGGCTCGAGAAGGTATATTGCTGTTGACAGTGAGCGCGTAGT
GTGATGTGTCTGAACTTAGTGAAGCCNNNNNATGTAANNTTCAGACACATCACACTACATGCCTACTGNC
TCGGAATTCAAGGGGCTACTTTANGGNNNCAATTATNNTTGTTNNNNNAAAANNTGAANANCNTTGNNNN
TNNNCTTTGNNANNNTTTTNNNNANNGCNNNNNNNNAAANNGGGNANAAANTNAANNNNNNTTTTTTTCA
NNNGNANNANNNANNNNGNCNNGNNNNNNNNNCNNNNNNNNNGNNTNGNNGNNNNNNGNNNNNNCNNNNN
NTNANNNNNNNNNNNGNNNNNANNNNNNNNNNNTNNNNNNNNNNNNNNNNNNNNTNNNNNNCCNNGGNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGNNNNNNNNNNNNNNNNNNANNNNN
NNCNNNNNNNNNNTNNNNNNNNNNNNNNNNNTNNNNNNNNNNNNNNNNNNNNNNNNGANNNNNGNNNNN
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN
Short hairpin: GTAGTGTGATGTGTCTGAACT

Build a python script named sequence_locator.py saved to python_scripts folder that:
1. assigns the vector and short-hairpin sequences to variables – use these variables from here on
(Copy and paste the vector sequence into a text editor and then paste the sequence into terminal. The PDF does not format the sequence correctly.)
2. counts the number of occurrences of the short-hairpin sequence within the vector sequence
3.finds the start position of the short-hairpin sequence within the vector sequence
4. finds the end position of the short-hairpin sequence within the vector sequence (this will probably require two steps and some math)
5. Uses the start position and end position of the short-hairpin to find the sequence within the vector that supposedly matches
Hint: run each step interactively until you can get it to work. Save things that work to your script
Hint: you will want to assign each steps output to a variable

Expected output for this homework assignment inlcuded in powerpoint tutorial.