

CISC 471: Assignment 4

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Theory

Question 1

How could a bacterium produce a peptide that is not encoded by the bacterium's genome?

Bacterium peptides are cyclic, so they have a number of different linear representations. Depending on where you slice the cyclic peptide, the bacterium can produce a peptide that wouldn't be encoded by the bacterium's genome.

Question 2

How many subpeptides does a cyclic peptide of length n have?

A cyclic peptide of length n could have n possible subpeptides.