<u>Puzzle 1: Infer the genetic code</u>

Oh no! You spilled coffee on your lab notebook. Figure out the missing result.

Lab Experiment #1
RNA Input: 5'-U U U U U U U U U-3'
Protein Output: F F F (chain of phenylalanine)

Lab Experiment #2
RNA Input: 5'-A A A A A A -3'
Protein Output: K K (chain of lysine)

Lab Experiment #3
RNA Input: 5'-G G G G G G G G G G G G-3'
Protein Output: G G G G (chain of Glycine)

Lab Experiment #4
RNA Input: 5'-C C C C C C C C C C C C C C C-3'
Protein Output: P P P P P (chain of Proline)

Lab Experiment #5
RNA Input: 5'-U A U A U A U A U A U A -3'
Protein Output: Y I Y I

Lab Experiment #6
RNA Input: 5'-G C G C G C G C G C G C -3'
Protein Output: A R A R

Lab Experiment #7
RNA Input: 5'-U G U G U G U G U G U G -3'
Protein Output: C V C V

Lab Experiment #8
RNA Input: 5'-A C A C A C A C A C A C -3'
Protein Output: T H T H

Lab Experiment #9
RNA Input: 5'- U G U C G C U A U C C C A C A A U A U G U -3'
Protein Output: ???????