COMP3702 Artificial Intelligence (Semester 2, 2022)

Assignment 0 – Part 2

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(Complete your full answer to Question 1 on the remainder page 1)

Set u contains all the numbers 0,1,2,3,4, therefore has it a length of 5. Set V has also size of 5. The set product consists of tuples where all elements of X, is paired with every element of Y. In this case, will this be tuples.

The power set contains all combinations of the set V. That means, every element of V is both in and not in one of the sets in the power sets. To calculate this number, we take two to the power of the size of the set, which is