Cartesian product

Problem - Given two finite non-empty sets, find their Cartesian Product.

In mathematics, specifically set theory, the Cartesian product of two sets A and B, denoted A×B, is the set of all ordered pairs (a, b) where a is in A and b is in B

const A = [1, 2]

const B = [3, 4]

A×B = [[1, 3], [1, 4], [2, 3], [2, 4]]

const C = [1, 2]

const D = [3, 4, 5]

C×D = [[1, 3], [1, 4], [1, 5], [2, 3], [2, 4], [2, 5]]

Cartesian product idea

Traverse each array and pair each element in the first array with each element in the second array