A Program to Calculate the Inner and Outer Products of Two 3D Vectors

Write a program in R that takes the values of two 3-dimensional vectors from the user and prints their inner and outer products.

Description

The input will be received sequentially: first the values for the first vector and then the values for the second vector. The received values should be stored in a `vector` structure. Then, the calculations for the inner and outer products will be performed on the two vectors.

Example

Input 1:

x1 = 2
y1 = 3
z1 = 4

x2 = 3
y2 = 5
z2 = 1

Output 1:

Internal Product: 25
Cross Product: (-17, 10, 1)

Notes

1. Commenting (providing brief explanations of the code) will be considered as part of the evaluation.
2. In this question, make sure to use the `Vector` data structure and do not use the input variables directly in calculations.