#include <stdio.h>

int main() {

int size;

printf("Enter the size of the arrays: ");

scanf("%d", &size);

int array1[size], array2[size], vectorProduct[size], scalarProduct = 0;

// Input values for array1

printf("\nEnter the elements of the first array:\n");

for (int i = 0; i < size; i++) {

printf("Enter element %d: ", i + 1);

scanf("%d", &array1[i]);

}

// Input values for array2

printf("\nEnter the elements of the second array:\n");

for (int i = 0; i < size; i++) {

printf("Enter element %d: ", i + 1);

scanf("%d", &array2[i]);

}

// Calculate the vector product and scalar product

for (int i = 0; i < size; i++) {

vectorProduct[i] = array1[i] \* array2[i];

scalarProduct += vectorProduct[i];

}

// Display the vector product

printf("\nVector Product:\n");

for (int i = 0; i < size; i++) {

printf("%d ", vectorProduct[i]);

}

// Display the scalar product

printf("\n\nScalar Product: %d\n", scalarProduct);

return 0;

}