#include<stdio.h>

int main()

{

int size,i;

//get array size from user

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

scanf("%d",&size);

int arr1[size],arr2[size],vec[size],scalarProd=0;

//get elements of array 1 from user

printf("Enter %d elements for first array:\n",size);

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

scanf("%d",&arr1[i]);

//get elements of array 2 from user

printf("Enter %d elements for second array:\n",size);

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

scanf("%d",&arr2[i]);

//vector product

printf("Vector Product:\n");

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

{

vec[i]=arr1[i]\*arr2[i];

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

}

//scalar product

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

scalarProd+=arr1[i]\*arr2[i];

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

return 0;

}