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#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++)
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scalarProd+=arr1[i]*arr2[i];
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printf("\nScalar Product: %d",scalarProd);
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return 0;
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}
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