

Sample Question:-

There is two sequence X and Y. One another sequence Z such that

$$Z(k) = \sum X(n) * Y(-n + k),$$

where , $m = \max(\text{length}(X), \text{length}(Y))$;

$\text{length}(Z) = 2*m-1$;

$k = -(m-1)$ to $(m-1)$;

Calculate sequence Z by given mathematical expression for input sequence X and Y ?

Input:

t =number of test case;

x =first sequence;

y =second sequence;

Output:

z = output sequence;

Sample input:

2

[1 2 3 4]

[-1 2 1 -1]

[1 2 1 3 4]

[2 1 5]

Sample output:-

[-1 0 2 3 9 1 -4]

[2 5 9 17 16 19 2 0 0]