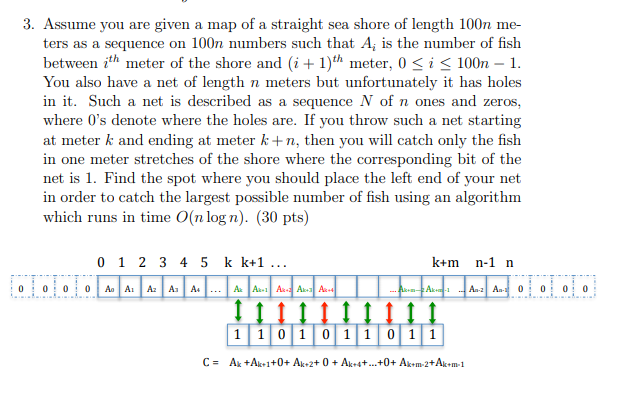
ASSIGNMENT2 QUESTION3

****

**Answer:**

Let N’ be the net sequence in the reverse order; the associated polynomial is.And for sequence A we have polynomial Then we will find the convolution of A\*N, We can do this use FTT in time which is . So we getwe need to know the peak coefficient . We will go through all coefficient of and it will take O(n) time. The final will be .