```c
// C program to find dft of a given sequence
#include <math.h>
#include <stdio.h>
// Driver Code

// Function to calculate the DFT
void calculateDFT(int len)
{
	int xn[10];
	float Xr[10];
	float Xi[10];
	int i, k, n, N = 0;

	for (i = 0; i < len; i++)
	{

		printf("Enter the value of x[%d]: ",i);
		scanf("%d", &xn[i]);
	}

	printf("Enter the number of "
		"points in the DFT: ");
	scanf("%d", &N);
	for (k = 0; k < N; k++) {
		Xr[k] = 0;
		Xi[k] = 0;
		for (n = 0; n < len; n++) {
			Xr[k]
				= (Xr[k]
				+ xn[n] * cos(2 * 3.141592 * k * n / N));
			Xi[k]
				= (Xi[k]
				- xn[n] * sin(2 * 3.141592 * k * n / N));
		}

		printf("(%f) + j(%f)\n", Xr[k], Xi[k]);
	}
}

int main()
{
	int len = 0;
	printf("Enter the length of the sequence: ");
	scanf("%d", &len);
	calculateDFT(len);

	return 0;
}
```