

# 1 Included Listing

This is actual code.

```
1 import numpy as np
2
3 def DFT(x):
4     n = np.arange(x.shape[-1]) # time indexes
5     N = x.shape[-1] # signal length
6     X = np.zeros(N, dtype=complex)
7     for k in range(N):
8         X[k] = np.sum(x*np.exp(-1j*2*np.pi*k*n/N))
9     return X
```

Listing 1: Function to compute the Discrete Fourier Transform of a signal.