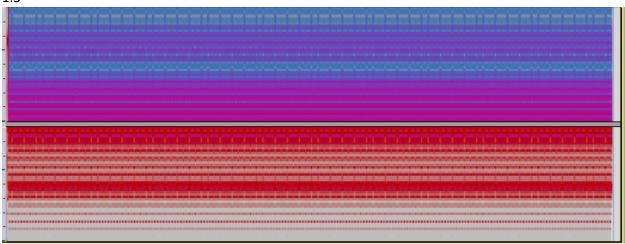
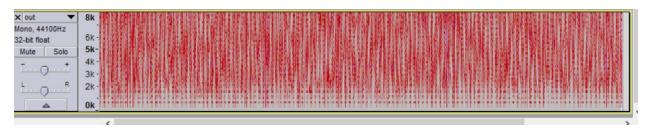
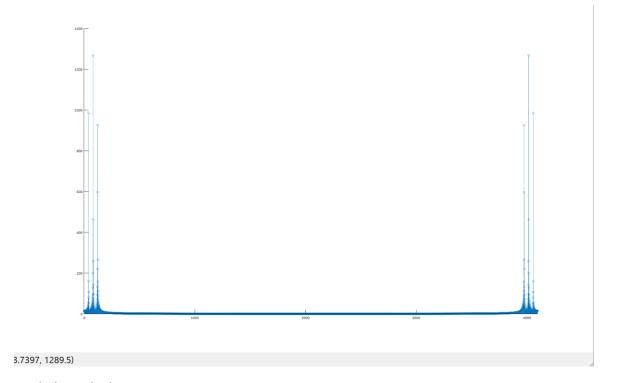
1.3



1.4





```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
#include <time.h>
#define N 4096
#define PI 3.14159265359

int main()
{
    int n, k;
    float Xre[N], Xim[N];
    float M[N];
```

 $\begin{aligned} &\text{float x[N]} = \{0.0, 0.22917193450241796, 0.45295616269276984, 0.66612423841051327, \\ &0.86376105650848167, 1.0414087511058143, 1.1951957537518947, 1.321946857739392, \\ &1.4192707789433721, 1.4856224658071171, 1.5203382650510178, 1.5236429658021489, \\ &1.4966286914617122, 1.4412065530643745, 1.360032887584125, 1.2564127483161227, \\ &1.1341840631783922, 0.99758650495917023, 0.85111960386444263, 0.69939496086529895, \end{aligned}$

```
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     for (k=0; k<N; ++k)
     {
         Xre[k] = 0;
          for (n=0; n<N; ++n) Xre[k] += x[n] * cos(n * k * 2 * PI / N);
         Xim[k] = 0;
          for (n=0; n< N; ++n) Xim[k] -= x[n] * sin(n * k * 2 * PI / N);
          M[k] = sqrt(Xre[k]*Xre[k] + Xim[k]*Xim[k]);
     }
     FILE *f = fopen("dftplots.m", "w");
     fprintf(f, "n = [0:%d]; \n", N-1);
     fprintf(f, "x = [ ");
     for (n=0; n<N; ++n) fprintf(f, "%f", x[n]);
     fprintf(f, "];\n");
     fprintf(f, "M = [ ");
     for (k=0; k<N; ++k) fprintf(f, "%f", M[k]);
     fprintf(f, "];\n");
     fprintf(f, "stem(n,M)\n");
     fprintf(f, "xlim([0 %d])\n", N-1);
     fclose(f);
     return 0;
}
```