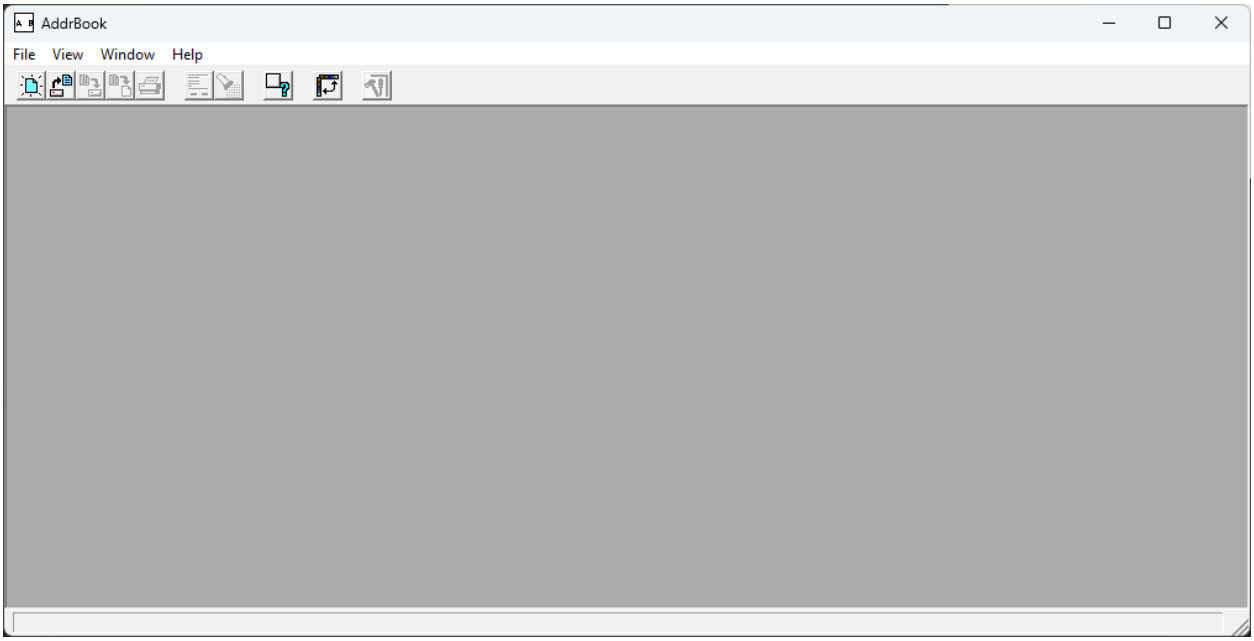
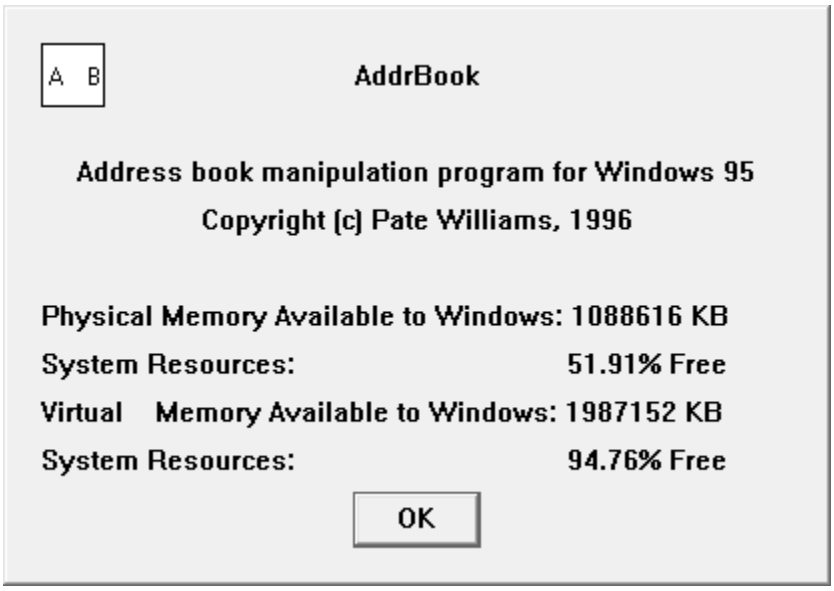
Blog Entry © Sunday, July 27, 2025, A Bit of Programming Nostalgia by James Williams, Jr.

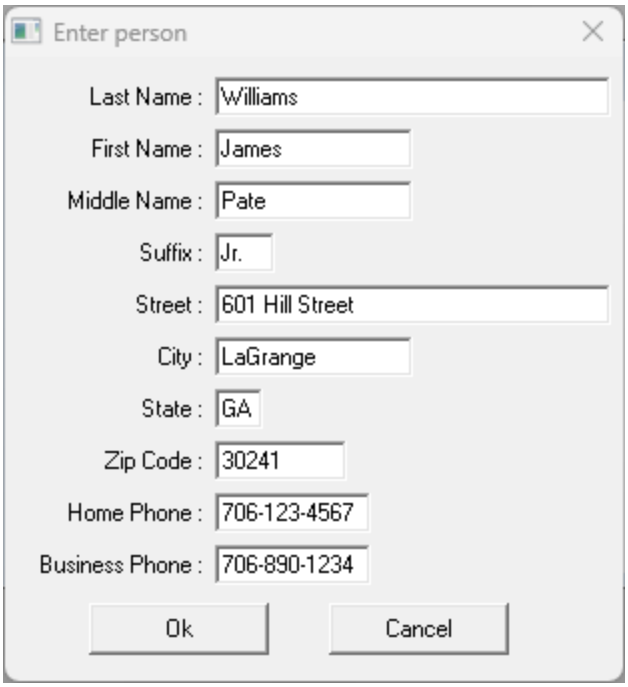
In late 1996 and early 1997 I created a Windows 95 program name AddrBook. Its birthday was January 7, 1997. It still runs on Windows 10 Pro by using Windows 95 compatibility mode. Here is the opening graphical user interface:



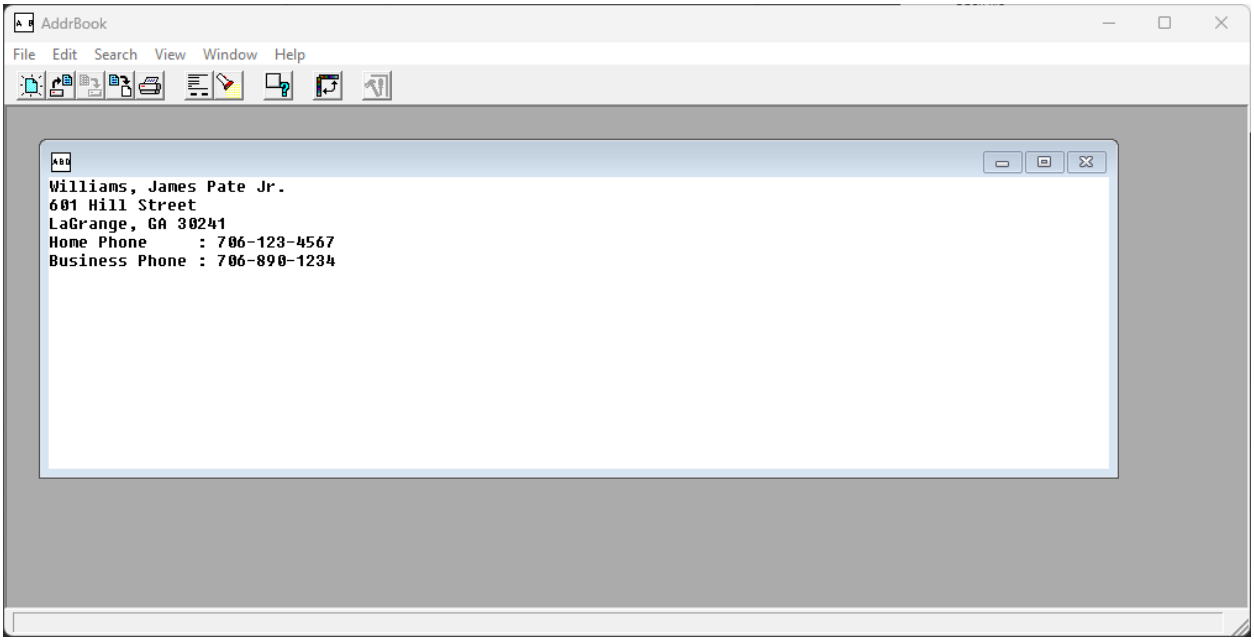
Below is the Help About dialog box:



You can enter a new person in the address book using the following data entry dialog:



Confirmation dialog:



Here is another artifact from 1995, it is a function that computes the arctangent function. I was deluded that the l meant a quadruple double real number:

```
/*
  Author:  Pate Williams c 1995

  The following program is a solution to problem 18.7
  in Pascalgorithms by Edwin D. Reilly and Francis D.
  Federighi. The program tests an arctangent function.
  The program hangs up for values of |x| > 1.
*/

#include <math.h>
#include <stdio.h>

typedef long double real;

#define epsilon 1.0e-15

real arctan(real x)
{
        int n;
        real arctanx, nextterm, priorterm, twon;
        real pi = 4.0 * atan(1.0);

        if (fabsl(x) <= 1.0)
        {
                arctanx = x;
                priorterm = x;
                n = 0;
                do
                {
                        twon = 2.0 * n + 1.0;
                        nextterm = -x * x * priorterm * twon / (twon + 2);
                        arctanx += nextterm;
                        priorterm = nextterm;
                        ++n;
                } while (fabsl(nextterm) > epsilon);
        }
        else
                arctanx = pi / 2.0 - arctan(1.0 / x);
        return(arctanx);
}

int main(void)
{
        real x;

        x = 0.0;
        printf("----------------------------\n");
        printf("  atanl(x)       arctan(x)\n");
        printf("----------------------------\n");
        do
        {
                printf("%13.10Lf  %13.10Lf\n", atanl(x), arctan(x));
                x += 0.10;
        } while (x <= 1.0);
        printf("----------------------------\n");
        return(0);
}
```

atanl(x)	arctan(x)
0.0000000000	0.0000000000
0.0996686525	0.0996686525
0.1973955598	0.1973955598
0.2914567945	0.2914567945
0.3805063771	0.3805063771
0.4636476090	0.4636476090
0.5404195003	0.5404195003
0.6107259644	0.6107259644
0.6747409422	0.6747409422
0.7328151018	0.7328151018