

```

/* Loops example loop07.F2003.c for loop - counted do loop */
/* sum input data */
/* first data item is number of values to sum */

#include <stdio.h>

main( )
{
    int i, num_of_data_items;

    int x, sum;

    double avg;                                     <== no need to initialize !!

    scanf("%d", &num_of_data_items);

    sum = 0;

    for( i = 0; i < num_of_data_items; i++ )
    {
        scanf("%d", &x);

        sum = sum + x;
    }

    avg = ( double ) sum / num_of_data_items ;      /* ... or 1.0 * sum ... */

    printf("Average of %d valid input numbers is %lf\n",
           num_of_data_items, avg);
}

```