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/* CALLOC1.C: This program uses calloc to allocate space for
 * 40 long integers. It initializes each element to zero.
 */
#include <stdio.h>
#include <malloc.h>

void main( void )
{
    long *buffer; long i=0;

    buffer = (long *)calloc( 40, sizeof( long ) );
    if( buffer != NULL )
        printf( "Allocated 40 long integers\n" );
    else
        printf( "Can't allocate memory\n" );

    for(i=0; i<40; i++) buffer[i]=i; /* Nutzung */

    /* Provozieren eines Debug-Errors: */
    buffer[40] = 40; /* unzulässiger Index 40 */

    free( buffer );
    getchar();
}

/*
Allocated 40 long integers
*/

```

