

```

/*****
/*          B A D B O Y S . C          */
/*-----*/
/* Task      : Creates random addresses in order to check their      */
/*             access privileges (read, write, Is string).          */
/*             Console application                                   */
/*-----*/
/* Authors    : Michael Tischer and Bruno Jennrich                  */
/* developed on : 09/06/1995                                          */
/* last update  : 09/07/1995                                          */
/*****/
#include <windows.h>
#include <stdlib.h>
#include <stdio.h>
#include <conio.h>

/*****
/* main : Here we go                                          */
/*-----*/
/* Info : Program ends on key press                          */
/*****/
void main( void )
{
    srand( GetTickCount() );          // Initialize random number generator

    while( !_kbhit() )                // End loop on key press
    {
        BOOL bBadRead, bBadWrite, bBadString;          // Accesses occurred?
        WORD wRand;                                     // Random number
        PVOID pAddress;                                // Address calculated from random number

        wRand = rand();                                // between 0x0000 - 0x7FFF

        // If possible, create address in custom IMAGE address space -----
        pAddress = ( PVOID )( ( DWORD )0x400000 + ( DWORD )wRand );

        // If you are able to read and write then it is a string -----
        bBadRead  = IsBadReadPtr( pAddress, 20 );
        bBadWrite = IsBadWritePtr( pAddress, 20 );
        bBadString = IsBadStringPtr( pAddress, 20 );

        // Output access privileges -----
        printf( "Accessibility: 0x%08lx:  %s %s %s\n",
                pAddress,
                bBadRead  ? "BadRead"   : "GoodRead",
                bBadWrite ? "BadWrite"  : "GoodWrite",
                bBadString ? "BadString" : "GoodString" );
    }
}

```