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C:\MyProjects\rtr05-213\03_Assignments\upload13 part01\14-Pointers\03-Arrays\07-TwoDimensionalArrays\02-PointerRepresentation\02-MethodTwo\02-UsingPointer>cl.exe /c /EHsc /I \include PointerRepresentation02UsingPointer.cpp
Microsoft (R) C/C++ Optimizing Compiler Version 19.36.32537 for x64
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```

PointerRepresentation02UsingPointer.cpp

```
C:\MyProjects\rtr05-213\03_Assignments\upload13 part01\14-Pointers\03-Arrays\07-TwoDimensionalArrays\02-PointerRepresentation\02-MethodTwo\02-UsingPointer>link.exe PointerRepresentation02UsingPointer.obj
Microsoft (R) Incremental Linker Version 14.36.32537.0
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```

```
C:\MyProjects\rtr05-213\03_Assignments\upload13 part01\14-Pointers\03-Arrays\07-TwoDimensionalArrays\02-PointerRepresentation\02-MethodTwo\02-UsingPointer>PointerRepresentation02UsingPointer.exe
```

Memory Allocation to the 1D Array of Base addresses of 5 rows Succeeded !!!

Memory Allocation to the Columns of 0 rows Succeeded !!!

Memory Allocation to the Columns of 1 rows Succeeded !!!

Memory Allocation to the Columns of 2 rows Succeeded !!!

Memory Allocation to the Columns of 3 rows Succeeded !!!

Memory Allocation to the Columns of 4 rows Succeeded !!!

2D Integer Arrays Elements along with Addresses :

ptr_iArray_Row[0][0] = 0	At Address &ptr_iArray_Row[0][0] : 00000211434FD5D0
ptr_iArray_Row[0][1] = 1	At Address &ptr_iArray_Row[0][1] : 00000211434FD5D4
ptr_iArray_Row[0][2] = 2	At Address &ptr_iArray_Row[0][2] : 00000211434FD5D8

ptr_iArray_Row[1][0] = 0	At Address &ptr_iArray_Row[1][0] : 00000211434FD530
ptr_iArray_Row[1][1] = 2	At Address &ptr_iArray_Row[1][1] : 00000211434FD534
ptr_iArray_Row[1][2] = 4	At Address &ptr_iArray_Row[1][2] : 00000211434FD538

## 2D Integer Arrays Elements along with Addresses :

```
ptr_iArray_Row[0][0] = 0           At Address &ptr_iArray_Row[0][0] : 00000211434FD5D0
ptr_iArray_Row[0][1] = 1           At Address &ptr_iArray_Row[0][1] : 00000211434FD5D4
ptr_iArray_Row[0][2] = 2           At Address &ptr_iArray_Row[0][2] : 00000211434FD5D8

ptr_iArray_Row[1][0] = 0           At Address &ptr_iArray_Row[1][0] : 00000211434FD530
ptr_iArray_Row[1][1] = 2           At Address &ptr_iArray_Row[1][1] : 00000211434FD534
ptr_iArray_Row[1][2] = 4           At Address &ptr_iArray_Row[1][2] : 00000211434FD538

ptr_iArray_Row[2][0] = 0           At Address &ptr_iArray_Row[2][0] : 00000211434FD610
ptr_iArray_Row[2][1] = 3           At Address &ptr_iArray_Row[2][1] : 00000211434FD614
ptr_iArray_Row[2][2] = 6           At Address &ptr_iArray_Row[2][2] : 00000211434FD618

ptr_iArray_Row[3][0] = 0           At Address &ptr_iArray_Row[3][0] : 00000211434FD630
ptr_iArray_Row[3][1] = 4           At Address &ptr_iArray_Row[3][1] : 00000211434FD634
ptr_iArray_Row[3][2] = 8           At Address &ptr_iArray_Row[3][2] : 00000211434FD638

ptr_iArray_Row[4][0] = 0           At Address &ptr_iArray_Row[4][0] : 00000211434FD6B0
ptr_iArray_Row[4][1] = 5           At Address &ptr_iArray_Row[4][1] : 00000211434FD6B4
ptr_iArray_Row[4][2] = 10          At Address &ptr_iArray_Row[4][2] : 00000211434FD6B8
```

Memory Allocated to Row 4 has been successfully freed !!!

Memory Allocated to Row 3 has been successfully freed !!!

Memory Allocated to Row 2 has been successfully freed !!!

Memory Allocated to Row 1 has been successfully freed !!!

Memory Allocated to Row 0 has been successfully freed !!!

Memory Allocated to ptr\_iArray has been successfully freed !!!