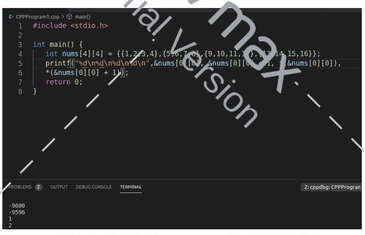
二维数组a[4][4]

&a[0][0]是取数组a第一个元素的地址,同时等价于*a

a[0][0]	a[0][1]	a[0][2]	a[0][3]
a[1][0]	a[1][1]	a[1][2]	a[1][3]
a[2][0]	a[2][1]	a[2][2]	a[2][3]
a[3][0]	a[3][1]	a[3][2]	a[3][3]



从上面这个例子可以看出&a[0][0] + 1后，指针到达数组中第二个数字的位置，即a[0][1],同时，我们还可以注意到地址作+1运算后，实际的内存地址+4，原因是int类型的数组.

&a[0][0]等价于*a

a[0]相当于a数组的第0行数组,他相当于一个object.&a[0]相当于取a[0]这个object的整个地址,同时他们也等价于a.

a[0][0]	a[0][1]	a[0][2]	a[0][3]
a[1][0]	a[1][1]	a[1][2]	a[1][3]
a[2][0]	a[2][1]	a[2][2]	a[2][3]
a[3][0]	a[3][1]	a[3][2]	a[3][3]

从上面的例子可以看出&nums[0] + 1 是越过了nums[0]这一行，即&nums[0]代表的是数组对象nums[0]的整个地址,下面给出a[0] 与 &a[0]的区别:

@hacks: `a[i]` is an array object of type `int[2]`, which is row `i` of `a`. In most contexts the expression `a[i]` decays to a pointer to the first element of that array, i.e., a pointer to the `int` object `a[i][0]`. But in `&a[i]`, since `a[i]` is the operand of unary `&`, it doesn't decay, and `&a[i]` is the address of the array object `a[i]`, and is of type `int(*)[2]`. No, `&a[i]` and `a[i]` are not identical; the former is the address of row `i` of `a`, and `a[i]` is either that row or the address *of the first element* of that row, depending on the context. – Keith Thompson Aug 21 '13 at 19:13

&a

a[0][0]	a[0][1]	a[0][2]	a[0][3]
a[1][0]	a[1][1]	a[1][2]	a[1][3]
a[2][0]	a[2][1]	a[2][2]	a[2][3]
a[3][0]	a[3][1]	a[3][2]	a[3][3]

&a代表的是数组对象a的整个地址.