Multi-dimensional indexing expressions in C

object	expression	type of result	value of result
`int single[7]`	`single[0]`	`int`	1st element
	`&single[0]`	address of `int` (= `int*`)	address of 1st element
	`single`	`int[7]`	address of 1st element
	`*single`	`int`	1st element
	`single[1]`	`int`	2nd element
	`single + 1`	address of `int` (= `int*`)	address of 2nd element
	`*(single + 1)`	`int`	2nd element
`int multi[5][10]`	`multi[0]`	`int[10]`	1st row array
	`&multi[0]`	address of `int[10]`	address of 1st row array
	`multi`	`int[5][10]`	address of array, 1st row array & 1st element
	`*multi`	`int[10]`	1st row array
	`multi[1]`	`int[10]`	2nd row array
	`multi + 1`	address of `int[10]`	address of 2nd row array
	`*(multi + 1)`	`int[10]`	2nd row array
	`multi[3][1]`	`int`	2nd element in 4th row array
	`*(multi + 3) + 1`	address of `int` (= `int*`)	address of 2nd element in 4th row array
	`*(*(multi + 3) + 1)`	`int`	2nd element in 4th row array
	`&multi[3][1]`	address of `int` (= `int*`)	address of 2nd element in 4th row array