Inside main:

Diagram Form:
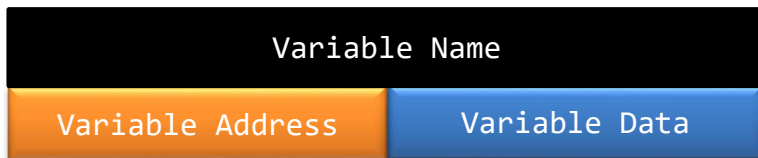
Variable Name	
Variable Address	Variable Data

Example:

ptr	
0X 00003ADE1	

Declare ptr

ptr
0X 00003ADE1	0X 000095A0

ptr[0]
0X 000095A0	Random floating number

4byte

ptr[1]
0X 000095A4	Random floating number

Memory allocate

4byte

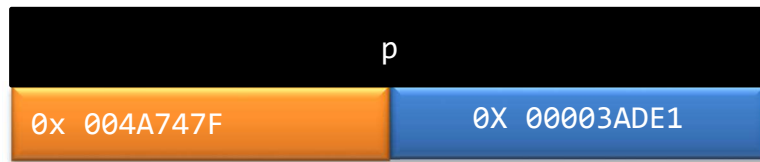| ptr[2] |
| --- |
| 0X 000095A8 | Random floating number |

.
.
.
.
.
.
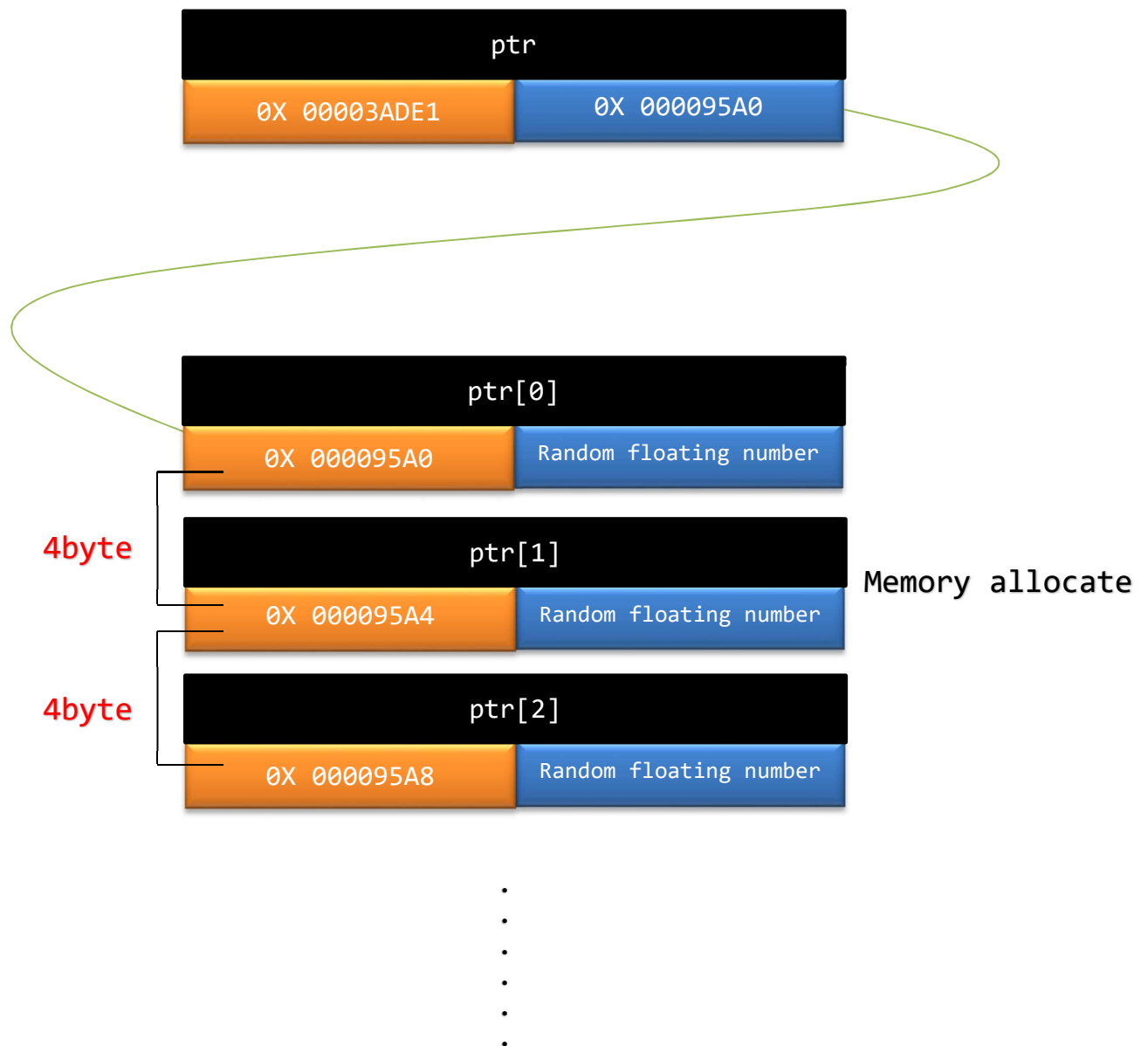
Left side of equation is the data form we access
And the right side is the data we would get

&ptr   =   0X 00003ADE1
ptr   =   0X 000095A0
*ptr   =   Random floating number 1

*(ptr+1)= Random floating number 2
*(ptr+2)= Random floating number 3

ptr[0] =   Random floating number 1
ptr[1] =   Random floating number 2
ptr[2] =   Random floating number 3

Inside malloc_float2:

p	
0x 004A747F	0X 00003ADE1

sz	
0x 004A64D6	100

Left side of equation is the data form we access
And the right side is the data we would get

&p = 0x 004A747F

p = 0X 00003ADE1   &ptr = 0X 00003ADE1

*p = 0X 000095A0   ptr = 0X 000095A0

**P = Random floating number 1   *ptr = Random floating number 1