C Programs with Mustafa Rahman

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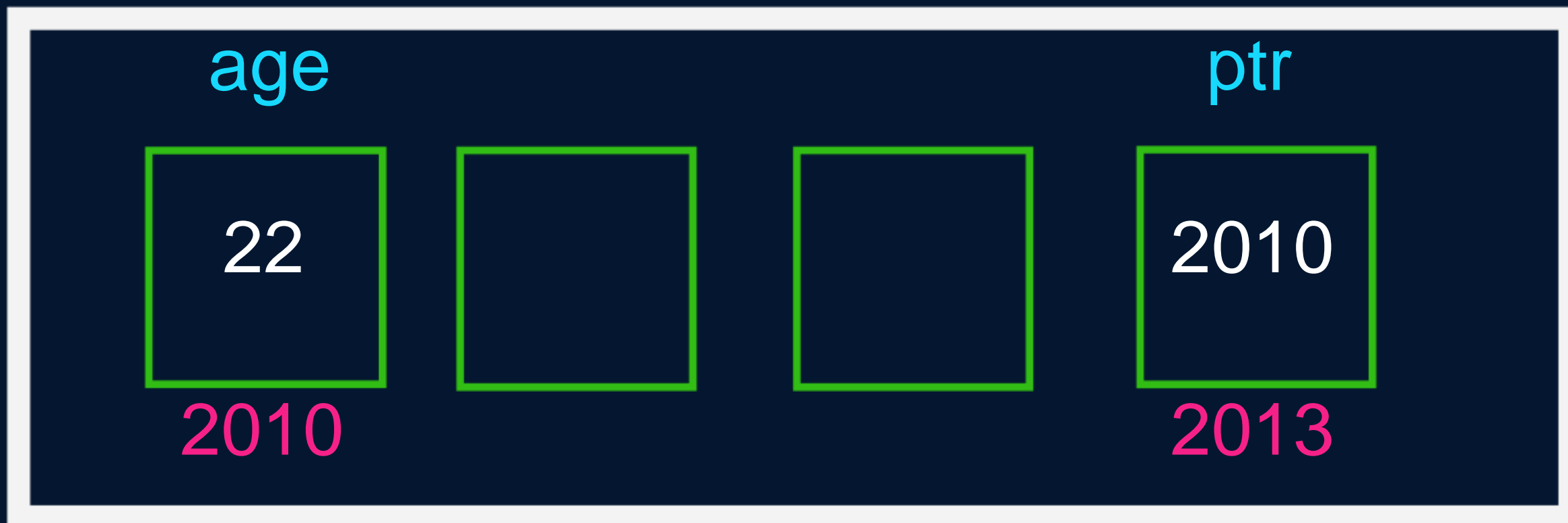
Pointers

A variable that stores the memory
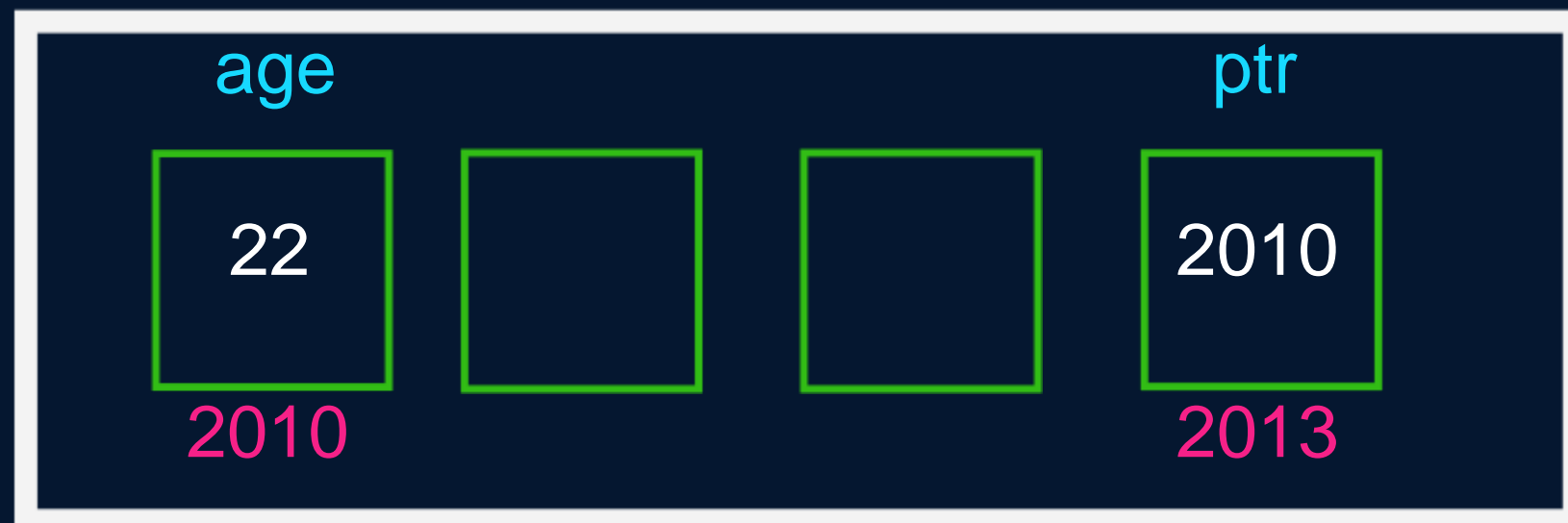address of another variable

Memory

age			ptr
22			2010
2010			2013

Syntax

int age = 22;

int *ptr = &age;

int _age = *ptr;

Memory

Declaring Pointers

int *ptr;

char *ptr;

float *ptr;

Format Specifier

printf("%p", &age);

printf("%p", ptr);

printf("%p", &ptr);

Pointer to Pointer

↓

A variable that stores the memory
   address of another pointer

Memory

age		pptr	ptr
22		2013	2010
2010		2012	2013
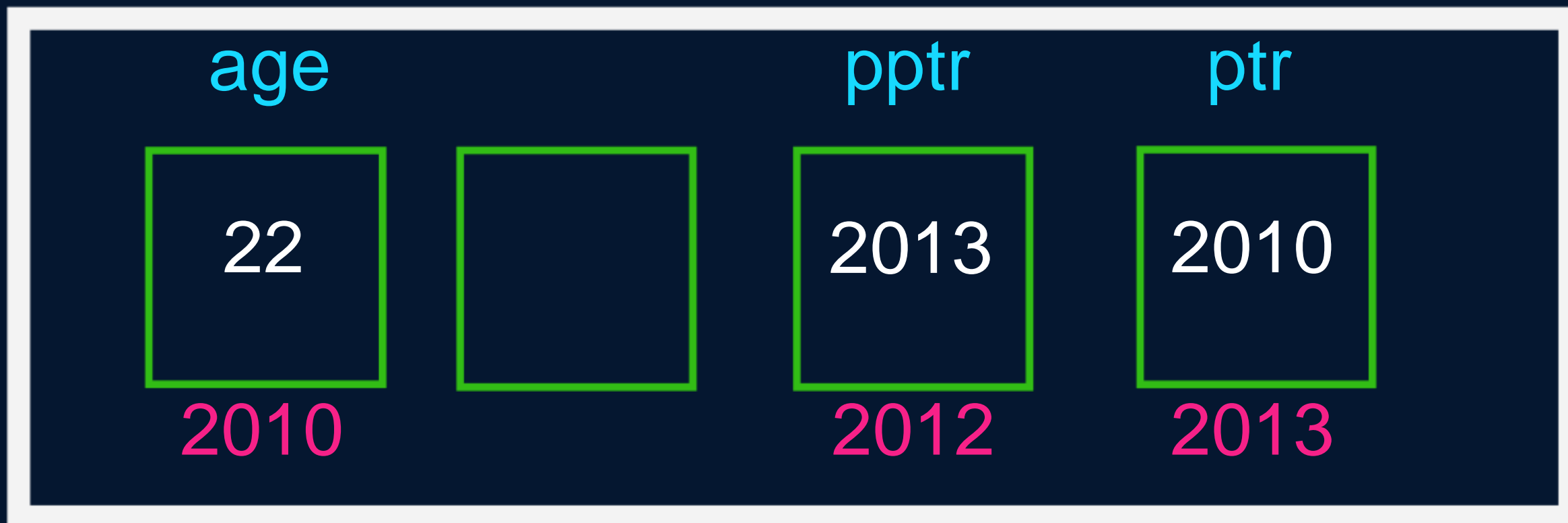
Pointer to Pointer

Syntax

int **pptr;

char **pptr;

float **pptr;

Pointers in Function Call

Call by Value

We pass value of variable as argument

call by Reference

We pass address of variable as argument