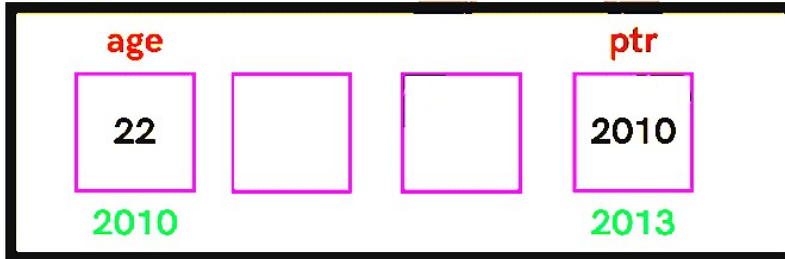


# Pointers



A variable that stores the memory  
**address** of another variable

Memory



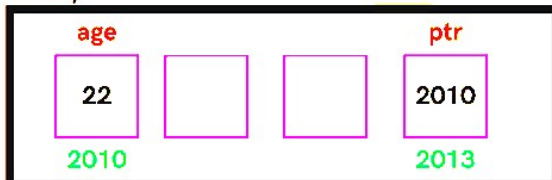
## Syntax

```
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);
```

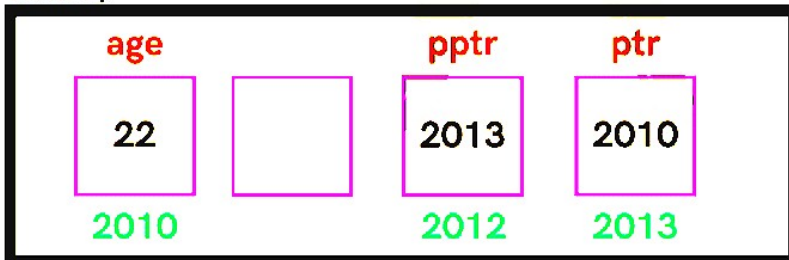
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## Pointer to Pointer



A variable that stores the memory  
**address** of another **pointer**

Memory



---

## Pointer to Pointer

### Syntax

```
int **pptr;
```

```
char **pptr;
```

```
float **pptr;
```

# Pointers in Function Call



```
graph TD; A[Pointers in Function Call] --> B[Call by Value]; A --> C[call by Reference];
```

**Call by  
Value**

We pass value of  
variable as  
argument

**call by  
Reference**

We pass address of  
variable as  
argument