

# Pointers

pointer - memory address of some piece of information

pointer variable - variable that stores the address where another object resides

```
int * myIntPtr; created space to hold a pointer to an integer - no integer yet
```

& is the address operator

\* is the dereferencing operator  
follow the pointer

458	42	x	int x = 42;
459	17	y	int y = 17;
460	458	ptr1	int * ptr1 = &x;
464	459	ptr2	int * ptr2 = &y;

pointer            ptr1 is the address of the thing pointed to 458  
address of        &ptr1 is the address of ptr1 460  
dereferencing    \*ptr1 is the value of the thing pointed to by ptr1 42