Var. Name	Address	Content
	7042	
	7041	
	7040	1-
	7039	,
	7038	O _V
	7037	
	7036	
min	7035	
	7033	
	7032	. .
	7031	X
hour	7030	
	7029	
	7028	0
	7027	
sec	7026	
	7025	
	7024	
	7023	
resultSec	7022	

Thus far, when we have used the *name* of a variable, the compiler has known that we mean to use the value of that variable, i.e., the content of the RAM

Var. Name	Address	Content
	7042	
	7041	
	7040	1-
	7039	, , , , , , , , , , , , , , , , , , ,
	7038	\(\frac{1}{2}\)\(\frac{1}{2}\)
	7037	
	7036	
min	7035	
	7033	
	7032	
	7031	X
hour	7030	
	7029	
	7028	0
	7027	
sec	7026	
	7025	
	7024	
	7023	
resultSec	7022	

So, if we call a function and pass a variable to the function for its use, it's the **value** that's passed – i.e. makeSeconds(*min*) would result in passing 32.5 to makeseconds()

Var. Name	Address	Content
	7042	
	7041	
	7040	1-
	7039	, , , , , , , , , , , , , , , , , , ,
	7038	\(\frac{1}{2}\)\(\frac{1}{2}\)
	7037	
	7036	
min	7035	
	7033	
	7032	
	7031	X
hour	7030	
	7029	
	7028	0
	7027	
sec	7026	
	7025	
	7024	
	7023	
resultSec	7022	

The & operator applied to a variable means to not use the value, but rather to use the **ADDRESS** of the variable, so &min is equivalent to 7035, not 32.5

Var. Name	Address	Content
	7042	
	7041	
	7040	1-
	7039	,
	7038	$\dot{\phi}$ _V
	7037	
	7036	
min	7035	
	7033	
	7032	٥.
	7031	VX.
hour	7030	
	7029	
	7028	0
	7027	
sec	7026	
	7025	
	7024	
	7023	
resultSec	7022	

If makeSeconds() is declared as having a **double&** argument, then makeSeconds(min) passes the *address* 7035 to the function, rather than the value 32.5 "Call by value" is what we have thus far done, passing in the *value* of a variable. That value is available as a *local* variable within the function.

 "Call by reference" is the other method, in which we pass the address of the variable, which the function can then use in order to access/modify the non-local (original) variable storage location.

Call by value:

```
int makeSeconds(double min) {
     cout << min; // This writes 32.5
     min = 40.0; // This changes the local value
                   // but not the global
     cout << min; // This writes 40.0
double min = 32.5;
main() {
     makeSeconds(min);
     cout << min; // This writes 32.5
```

Call by reference:

```
int makeSeconds(double& min) {
     cout << min; // This writes 32.5
     min = 40.0; // This changes the global value
     cout << min; // This writes 40.0
double min = 32.5;
main() {
     makeSeconds(min);
     cout << min; // This writes 40.0
```