```
/* pointers and memory management */
/**
 * pointers
err error; ptr i8* = nullptr
ptr, err = alloc(1024) // allocate 1KB on the heap
                 // binds the pointer to the scope
defer ptr
                 // it deletes the memory when scope ends
value i8 = *ptr // the value it points to
                // ptr1 is the same as ptr
ptr1 := &value
delete(ptr)
                // you can also manually delete the memory
/**
 * pointer arithmetic
 */
// pointers can only be added or substracted between them.
// pointes arithmetics results are always in 64 bits values.
// example: lets say amount of i8 is 6, this means 6 bytes
amount of i8 i64 = ptr1 - ptr
// pointers can be incremented or decremented. This is done in sizeof(type) where
// type is the typed pointed by the pointer
ptr to i64 i64* = &variable // here ptr to i64 is (e.g): 0x7CF7
ptr_to_i64++ // here is incremented by 8bytes (64bits): 0x7CFF
ptr to i64 + 1 // here is also incremented by 8bytes (64bits): 0x7D07
// if you want to move in bytes you should:
ptr_to_i8 i8* = cast(i8*, &variable)
ptr to i8++ // now is incremented by 1byte (8bits)
 * pointers as params
fn my fn(ptr param u32*) {
  /* this is great for passing a bigger than 64 bits types
   * NOTE: remember you will not be able to modify
   * the value of the pointer nor the data it points to */
}
```