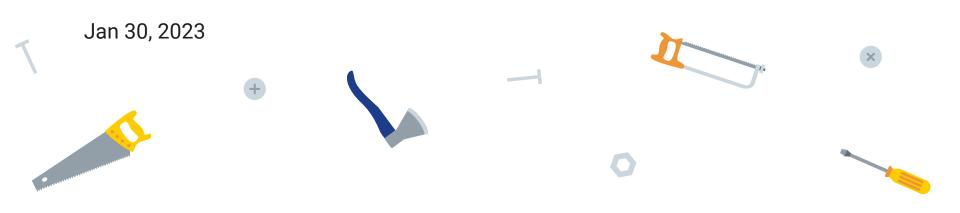
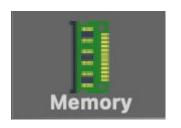
Arrays & Functions CSC258 LAB 3

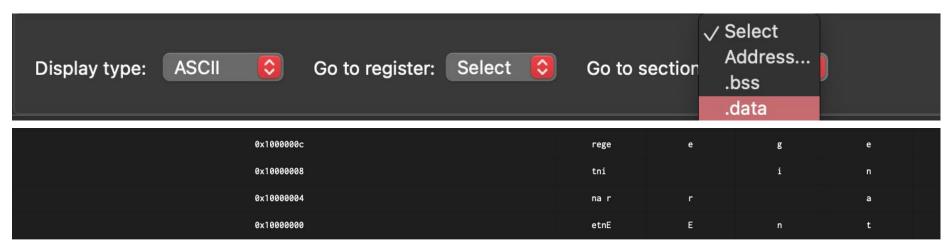




Suggested Workflow

Spend some time to play with the **Memory** section of the Ripes





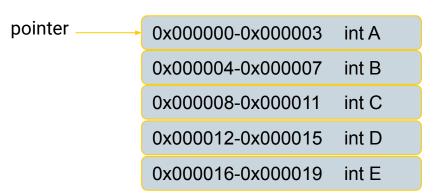
Read handout section 3: Arrays

.data

array1: .word

5, 8, 3, 4, 7, 2

Similarly to C, arrays elements are accessed by calculating "base + offset"



```
Read handout section 4: Function Calls
```

```
def main():
    A = 5
    B = 3
    print "Before function"
    print "A + B = ", doAdd(A, B)
    print "A - B = ", doSub(A, B)
```

Similar to high level languages, but:

def doAdd(A, B):
 return A + B

Func call: Jump instruction

def doSub(A, B):
 return A - B

Func args: use registers a0 and a1 Func return: use register a0

Read handout section 5: Multi-Level Function Calls and Recursion

Be careful with return address (where your program should go after a func is done) in multi level func calls Consider using call stack with SP (stack pointer)