16-Bit Signe	d Int	~			
0x001C00	5	3	17	17	17
0x001C0A	5	3	-5	5	17
0x001C14	7	-3	17	-3	5
0x001C1E	13	-3	17	17	17
0x001C28	17	19244	-6230	-24908	13261

```
49 main:
                      #0, R4
                                              ; Index starts at -2 just trust me
50
              mov.w
51
                      array, R5
                                               ; first value in array -> R5
              mov.w
52
                      array, max value
                                              ; first value in array -> max value
              mov.w
53
                                               ; Count starts at 0
              mov.w
                      #1, max count
54
55
              jmp
                      next element
                                               ; Move to first method
56
57
58 compare_to_max:
                                              ; Compare value to current max
              cmp.w
                      max_value, R5
60
              jhs
                      new max
                                               ; Jump to new max method
61
62
63 next_element:
                      #LENGTH, R4
65
              cmp.w
                                               ; Check if index has reached end of
66
                                               ; array
                                               ; Jump to end of program
67
              jhs
                      done
68
69
              incd
                      R4
                                               ; Increment array index
70
              mov.w
                       array(R4), R5
                                               ; Move value R4 in array to R5
71
                                               ; Jump to comparison method
              jmp
                       compare_to_max
72
74 new_max:
75
               cmp.w
                       max value, R5
                                               ; See if value equals current max
                                               ; Jump to method if vals are equal
76
                       same_max
               jeq
77
                                               ; If val in register is negative
78
                       #32767, R5
               cmp.w
79
                                               ; skip it because why would u make me
               jl.
                       next element
80
                                               ; deal with negatives i'm stupid
81
82
                       R5, max_value
                                               ; Assign R5 to max_value
               mov.w
83
               mov.w
                       #1, max_count
                                               ; Reset counter
84
85
                                               ; Jump to method
               jmp
                       next_element
86
87
88 same_max:
89
               inc
                       max_count
                                               ; Increment frequency counter
90
                       next_element
                                               ; Jump to method
               jmp
91
92
93 done:
               jmp
                       done
                                                ; End of program
94
               nop
95
```