```
Eric Chen
11381898
1.
a. 11111001
                 Negative number, so we invert the bits and add 1
                 = 00000110 inverted
                          1
                   00000111
= 0*27+0*26+0*25+0*24+0*23+1*22+1*21+1*20
= 4+2+1
= 7
= -7
b.
= 0*27+1*26+0*25+1*24+1*23+0*22+0*21+0*20
= 26+24+23
= 64+16+8
= 88
2.
a. -3
        = 1100
b.5 = 0101
3.
Instruction set
Repeat until we hit the rightmost of the list:
        Compare right
        Note who is larger, set larger kid as largest
Repeat until we hit the rightmost of the list
        Tell kid who the largest one is
Program
Assuming each "kid" is a node with fields to store a name(string), a
number value(int), and who is largest(string) so at the end they "all
know who is largest"
So each kid node has variables: current kid name(string),
current_kid_value(int), and kid_with_largest_value(string).
while (there is still another kid to the right) { /* find the largest
value */
        if (current_kid_value > right_kid_value)
        largest_name_string = current_kid_name
largest_name_string is a variable that stores the name of the kid with
the largest name */
        move to next kid
}
```