

## Grading Guidelines for Assignments 13 and 14 (January 28)

For partial marking in code parts, use your judgement, but in any part, if they have something looking more or less ok, they should get some marks. So if some part has only 1 mark, deduct 0.5 and not 1 unless they are totally off.

Deduct 1 mark from Assgn 13 if they have not submitted the Intermediate file (New from this assignment)

### Assignment 13 (Total Marks = 10):

- Output: 2 marks (1 marks each binary)
  - Test case 1: Array = {10, -20, -25, 35, 60}
    - Min absolute difference is 5, the numbers are -20 and -25
  - Test case 2: Array = {20, 10, 65, 35, 50}
    - Min absolute difference is 10 and the numbers are 10 and 20
  - Can print the numbers in any order
- Code: 8 marks
  - FindDiff function: 5 marks
    - Correct setting of min at the beginning: 1 mark
      - Give 0 if they have set initial value to any large constant (unless it is INT\_MAX, in which case, ok)
    - Nested loop to compare all pairs: 1 marks
      - Deduct 0.5 if they compare a number to itself
    - Finding the difference, keeping track of minimum, and proper return: 3 marks
      - Ok if they use math function for absolute
      - Deduct 1 if they use any additional array, were told not to
  - Main function: 3 marks
    - Malloc of array: 1 mark
    - Calling FindDiff with proper parameters: 1 mark
    - Printing appropriate message based on return value: 1 mark

### Assignment 14 (Total Marks = 10):

- Output (binary marking: either 1 or 0 for each test case): 2 marks
  - Test Case 1: "aaaaaa"
    - Should print 'a' and 6
  - Test Case 2: "ababacacdd"
    - Should print 'd' and 2
- Code: 8 marks
  - Main function: 2 marks
    - Malloc: 1 mark
    - Calling the function with proper parameters and printing the value: 1 mark
  - CountChar function: 6 marks

- Counting consecutive characters: 3 marks
  - Make sure it works for the border cases also
    - All same characters
    - The max consecutive char sequence starts from the front
    - Same, but ends at the last
    - Max character sequence is of length 1
- Keeping track of max and the character: 2 marks
- Proper return value: 1 mark
- Deduct 1 mark if they change the function prototype in any way