Grading Guidelines for Assignments 9 and 10 (January 7)

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.

Assignment 9 (Total Marks = 10):

- Output: 2 marks
  - Test case 1: A = {2567, 3, 4, 244, 1352} (1 mark)
    - No. of odd digit print should be 3, 1, 0, 0, 3 (0.5 marks, binary)
    - Number with max digit: any one of 2567, 1352 (0.5 marks)
    - No marks for array element prints at the beginning
  - Test case 2: A = {244, 4, 6, 53, 67842} (1 mark)
    - No. of odd digit print should be 0, 0, 0, 2, 1 (0.5 marks, binary)
    - Number with max digit: 53 (0.5 marks)
    - No marks for array element prints at the beginning
- Code: 8 marks
  - Main function: 5 marks
    - Reading in integers in array: 1 mark
    - Printing integers in array: 1 mark
    - Calling OddDigitCount in a loop correctly: 1 mark
    - Printing the number of odd digits in each number from return value: 1 mark
    - Max computation and printing at end: 1 mark
  - OddDigitCount function: 3 marks
    - Separating the digits in a loop properly: 2 marks
    - Keeping count of odd digits and returning correctly at end: 1 mark

Assignment 10 (Total Marks = 10):

- Output (binary marking: either 1 or 0 for each test case): 2 marks
  - Test Case 1: S1 = AB22CDE, S2 = abcd
    - Lengths: S1 = 7, S2 = 4
    - Max asci code digit with code in S2 = d, 100
    - Message: Not found (any suitable message is fine)
      - Note that '2' + '2' = 'd', so this checks a border case where they should not check a char in S1 with itself
  - Test Case 2: S1 = AB2CD4EF, S2 = abcdef
    - Lengths: S1 = 8, S2 = 6
    - Max asci code digit with code in S2 = f, 102
    - Message: Found (any suitable message is fine)
      - '2' + '4' = 'f' (they do not need to print this)
  - Mind the cases when giving the test cases. Also, pls check the test cases first for correctness
- Code: 8 marks

- Main function: 2 marks
    - Reading in X1, X2 with %s – 1 mark
    - Calling CheckStr and printing message based on return value – 1 mark
- CheckStr function: 6 marks
    - Finding and printing length – 1 mark
    - Finding char with max ascii code in S2 and printing (should print both the char and its ascii code)– 2 marks
    - Nested loop to look at all pairs – 1 mark
        - Ok if they have looked at a pair more than once. Make a comment but do not deduct marks
    - Summing ascii codes and comparing with max – 1 mark
    - If equal, returning immediately – 1 mark (deduct 0.5 if they do not return immediately)
    - Returning 0 at end – 1 mark
- IF THEY USED ASCII CODES DIRECTLY, GRADE AS ABOVE AND THEN DEDUCT 50% FROM WHATEVER THEY GET AT THE END