CSE 102

FILE, Structure and Bitwise Operator

Date: 25/07/18

Problem 1: Suppose, you have two input files named "input1.txt" and "input2.txt". Both the files contain some non-negative integer numbers. Each line of the files contains a single integer. You do not know before how many integer numbers are there in each of the files. Your task is to take one integer from each of the files at a time, check whether they are same (**without using any relational operator**), and print "Yes" if they are same and print "No" otherwise. Terminate your task if any of the files reaches its end.

Sample "input1.txt" content	Sample "input2.txt" content	Corresponding output(s)
1 2 4	1 3 4	1 and 1 : Yes 2 and 3: No 4 and 4: Yes
1 2 3 4 5	3 2	1 and 3: No 2 and 2: Yes

Problem 2: Consider you have the following product information and related stock (in quantity) described by the structure as follows:

```
struct product{
     int id;
     char name[20];
     int quantity;
     float actual_price ;
     float selling_price;
}
```

There will be two input filse; first one is **in1.txt** where first line contains an integer n which denotes the number of products. There will be n lines followed by it; each line contains product id, name, quantity and actual price for single quantity respectively. There will be second input file **in2.txt** where each line denotes the product name, quantity of amounts sold and selling price of each quantity (**product names may not be in same order**). You need to output each product

which are left and their remaining stocks quantity in a separate output file **out.txt.** You also need to provide the total profit made.

Sample Input	**Corresponding Output (s)**
In1.txt file 3 rice 101 20 60 pulse 102 5 80 chicken 103 10 220 wheat 107 15 40 **In2.txt:** pulse 5 90 wheat 10 35 chicken 7 230	**Output** rice 20 chicken 3 wheat 5 **Total profit = 70**
Explain: profit= 5*(90-80)+10*(35-40)+7*(230-220)=70	

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