



CONTRIBUTION: MASTERCODE



- SAMPLE EXECUTION LOGS:
 1. Case 1: 223 Best match -> ABE, matches -> ABD, ABE, ABF, ACD, ACE, ACF, BCE, BAD, BAE, BAF, CAD, CAE, CAF, CBE
 2. Case 2: 222 Best match -> ABC, matches -> ACB, CAB, CBA, BCA, BAC
 3. Case 3: 779, best match -> None, matches -> None
- PROGRAMMING LANGUAGE USED:
 - Python
- CORE MECHANISM USED IN CODE:
 - Regular Expression(Regex)
 - Permutation and Combination
- PLATFORM USED FOR CODE:
 - Windows (Platform Independent)
 - Pycharm
- CODE DESCRIPTION:
 - In the "Mix and Match" problem statement, I did not use any Out of the box algorithms such as FuzzyWuzzy for solving strings instead of that, I've written the code by using very basic concepts like Condition Statements, Combinations, Regular expressions
 - As per the Problem statement I've completed all the conditions and the problem output should be as a same as the Sample Execution log.

PROBLEM STATEMENT INPUT AND OUTPUT:

1.INPUT PAIR:2 2 3

```
===== RESTART: C:\Users\BHARATH\Desktop\dfg.py =====
Enter 3 digits from 2 to 9
enter the digit2
enter the digit2
enter the digit3
matches ['ABE', 'ACE', 'BAE', 'CAE', 'ABD', 'ABF', 'ACD', 'ACF', 'BAD', 'BAF', 'BCE', 'CAD', 'CAF', 'CBE', 'BCD', 'BCF', 'CBD', 'CBF']
The Best Match ABE
```

2.INPUT PAIR:2 8 4

```
===== RESTART: C:\Users\BHARATH\Desktop\dfg.py =====
Enter 3 digits from 2 to 9
enter the digit2
enter the digit8
enter the digit4
matches ['AUI', 'ATI', 'AUG', 'AUH', 'AVI', 'BUI', 'CUI', 'ATG', 'ATH', 'AVG', 'AVH', 'BTI', 'BUG', 'BUH',
', 'CTG', 'CTH', 'CVG', 'CVH']
The Best Match AUI
```

3.INPUT PAIR:7 7 9

```
===== RESTART: C:\Users\BHARATH\Desktop\dfg.py =====
Enter 3 digits from 2 to 9
enter the digit7
enter the digit7
enter the digit9
Sorry No match Found
```