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# AI LAB EXP 3 CRYPTARITHMETIC PROBLEM

### PROBLEM STATEMENT

Given an array of strings, arr[] of size N and a string S, the task is to find if it is possible to map integers value in the range [0, 9] to every alphabet that occurs in the strings, such that the sum obtained after summing the numbers formed by encoding all strings in the array is equal to the number formed by the string S.

TOOLS - python3, AWS

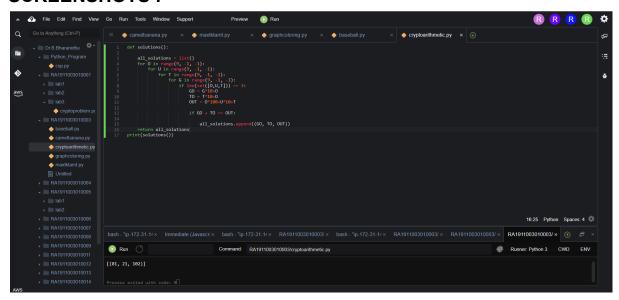
#### **SOURCE CODE:**

```
def solutions():
```

# all\_solutions.append((GO, TO, OUT))

return all\_solutions
print(solutions())

## **SCREENSHOTS:**



## **RESULT**

Hence the cryptarithmetic problem has been solved successfully