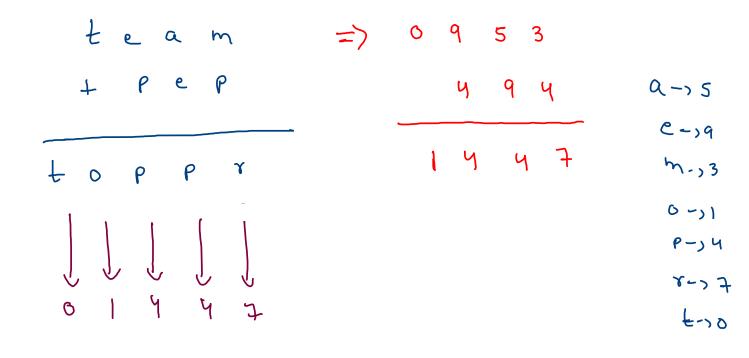
Cryptarithmetic

t more money digits o to 9

S-, 2 e-, 5 h-, 3 d-, 0 m-, 6 0-, 1 x-, 9 team pep toppr



send 4 more money used -> digits

usti: Sendmory 0 1 2//3 0 209

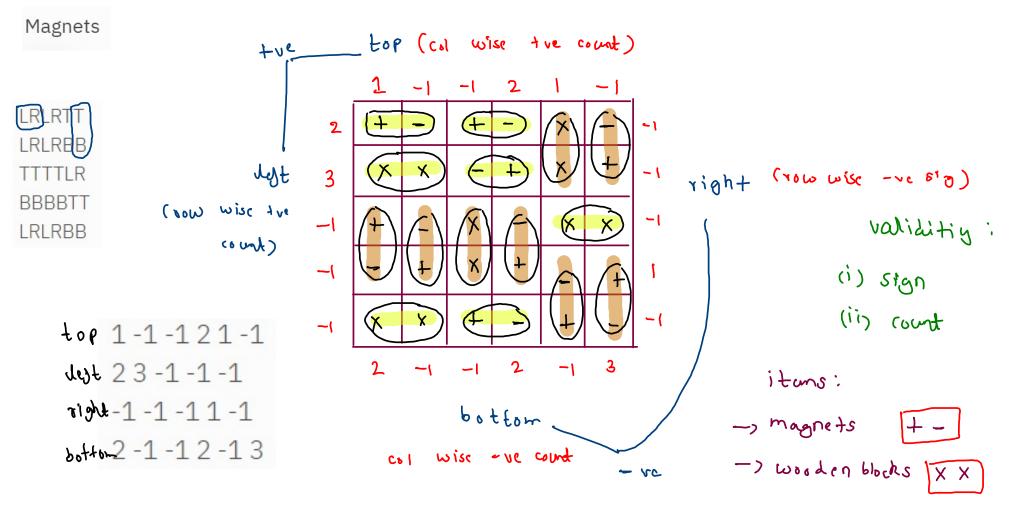
0

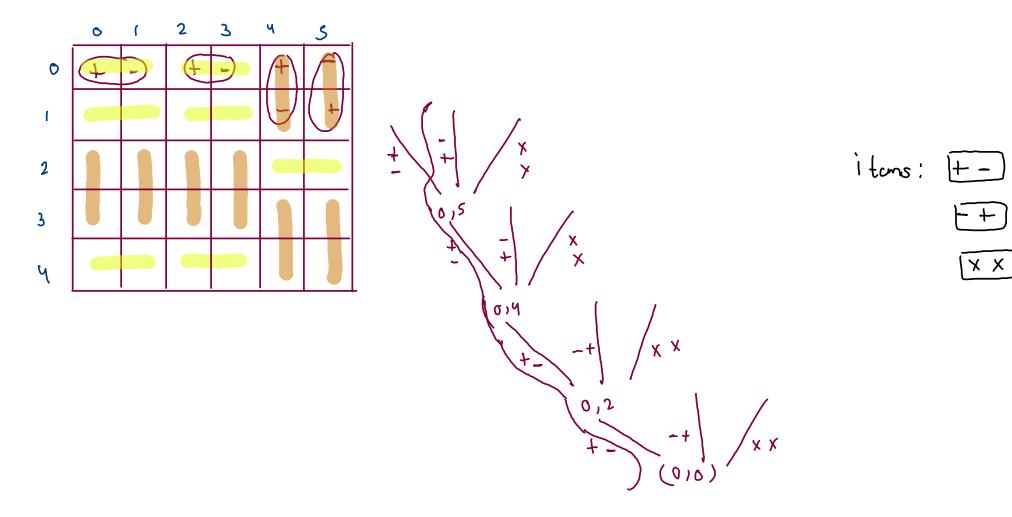
m

η

```
public static void solution(String unique, int idx,
                          HashMap⟨Character, Integer⟩ charIntMap, boolean[] usedNumbers,
                          String s1, String s2, String s3) {
 if(idx == unique.length()) {
      if(isValid(charIntMap,s1,s2,s3) == true) {
         //print the mapping
         for(int i=0; i < 26;i++) {
             char ch = (char)('a' + i);
             if(charIntMap.containsKey(ch) == true) {
                 System.out.print(ch + "-" + charIntMap.get(ch) + " ");
                              a-2 c-7 e-9 p-8 t-0 u-1
         System.out.println();
      return;
  char ch = unique.charAt(idx);
  for(int d=0;d <= 9;d++) {
      if(usedNumbers[d] == false) {
         usedNumbers[d] = true;
         charIntMap.put(ch,d);
         solution(unique,idx+1,charIntMap,usedNumbers,s1,s2,s3);
         usedNumbers[d] = false;
         charIntMap.put(ch,-1);
                          P-)5
           6-21
            0-,2
                                                     non- 540
            C-> 3
```

```
public static int stringToInt(HashMap<Character,Integer>charIntmap,String s) {
    int num = 0;
   for(int i=0; i < s.length();i++) {</pre>
       char ch = s.charAt(i);
       int d = charIntmap.get(ch);
       num = num*10 + d:
    return num;
public static boolean isValid(HashMap<Character,Integer>charIntmap,String s1,String s2,String s3) {
    int n1 = stringToInt(charIntmap,s1);
                                        12
   int n2 = stringToInt(charIntmap, s2);
                                         345
   int n3 = stringToInt(charIntmap,s3);
                                        540
   return n1+n2 == n3;
                                                                               tea
                                                        U
                                                                                Cup
                                                                                  put
                                                         Ch
      Ø
                                                          و
        D
```







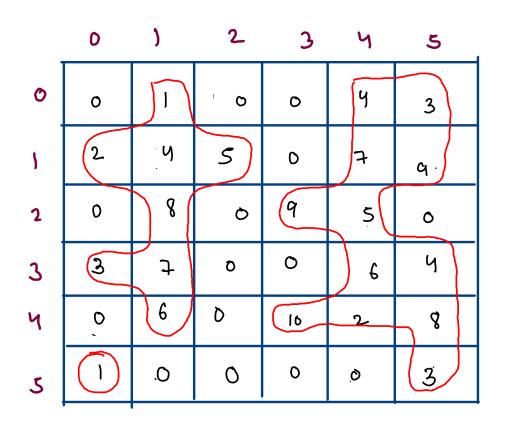
LRLRTT

LRLRBB

TTTTLR

BBBBTT

LRLRBB



islands

0 -> block

```
public static void dfs(int[][]arr,int i,int j) {
    if(i < 0 || i >= arr.length || j < 0 || j >= arr[0].length || arr[i][j] == 0) {
        return;
    }
    sca += arr[i][j];
    arr[i][j] = 0;
    //top
    dfs(arr,i-1,j);
    //Left
    dfs(arr,i,j-1);
    //down
    dfs(arr,i+1,j);
    //right
    dfs(arr,i,j+1);
}
```

