

## 290. Word Pattern

Input: pattern = "abba", s = "dog cat cat dog"

Output: true

char vs word

a-dog  
b-cat  
c-delhi  
d-afg

dog, cat, delhi  
afg

p = a b c b d

s = dog cat delhi cat afg

false  
cat — a  
      — e X

```

for(int i=0; i < pattern.length();i++) {
    char ch = pattern.charAt(i);
    String word = words[i];

    if(map.containsKey(ch) == false) {
        if(hs.contains(word) == true) {
            //word is already mapped with a different char
            return false;
        }
        map.put(ch,word);
        hs.add(word);
    }
    else {
        if(map.get(ch).equals(word) == false) {
            return false;
        }
    }
}

```

p =     a     b     b     a     c

s =     dog   cat     cat   dog   afg

map

a-dog  
b-cat  
c-afg

hs

dog , cat  
afg

## 205. Isomorphic Strings

Easy

👍 3242

💬 623

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Given two strings `s` and `t`, determine if they are isomorphic.

Two strings `s` and `t` are isomorphic if the characters in `s` can be replaced to get `t`.

All occurrences of a character must be replaced with another character while preserving the order of characters. No two characters may map to the same character, but a character may map to itself.

map: char vs char

p → t

a → i

e → l

r → e

s =                   i  
p a p e r  
t =                   t i t l e

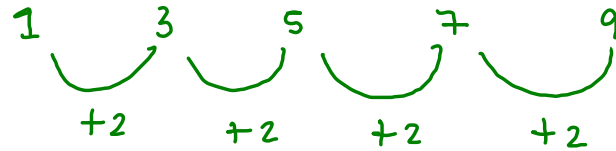
hs

t, i, l  
e

## 1502. Can Make Arithmetic Progression From Sequence

arr : 1, 11, 5, 8, 3, 7, 13

$$cd = s_{min} - min = 3 - 1 = 2$$



1, 11, 5, 8,  
3, 7, 13

```

int cd = smin - min;

if(cd == 0) {
    return hs.size() == 1;
}

int term = min;

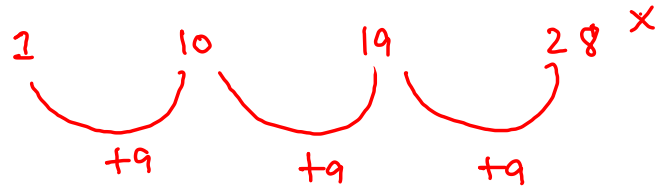
for(int i = 0; i < arr.length; i++) {
    if(hs.contains(term) == false) {
        return false;
    }
    term += cd;
}

```

arr : 1 10 10 19 10

smin = 10 , min = 1

cd = 9



1, 10,  
19, 9

```
int cd = smin - min;
```

```
if(cd == 0) {  
    return hs.size() == 1;  
}
```

```
int term = min;
```

```
for(int i = 0; i < arr.length; i++) {  
    if(hs.contains(term) == false) {  
        return false;  
    }  
    term += cd;  
}
```

4, -2, -4, 0, 2

smin = -2      min = -4

cd = -2 - (-4) = 2

4, -2, -4,  
0, 2

