Problem Link:

<https://leetcode.com/problems/word-pattern/>

Solution:

class Solution {

public:

bool wordPattern(string pattern, string s) {

stringstream ss(s);

vector<string> words;

string word;

while(ss >> word)

{

words.push\_back(word);

}

if(pattern.length() != words.size())

{

return false;

}

map<char, string> ps;

map<string, char> sp;

for(int i = 0; i < pattern.length(); i++)

{

char ch = pattern[i];

string c = words[i];

if(ps.find(ch) != ps.end())

{

if(ps[ch] != c)

{

return false;

}

}

else

{

ps[ch] = c;

}

if(sp.find(c) != sp.end())

{

if(sp[c] != ch)

{

return false;

}

}

else

{

sp[c] = ch;

}

}

return true;

}

};