Problem Link:

<https://leetcode.com/problems/valid-sudoku/?envType=daily-question&envId=2025-08-30>

Solution:

class Solution {

public:

bool isValidSudoku(vector<vector<char>>& board) {

set<char> r[9];

set<char> c[9];

set<char> b[9];

for(int i = 0; i < 9; ++i)

{

for(int j = 0; j < 9; ++j)

{

char ch = board[i][j];

if(ch == '.')

continue;

if(r[i].count(ch))

return false;

r[i].insert(ch);

if(c[j].count(ch))

return false;

c[j].insert(ch);

int bi = (i / 3) \* 3 + (j / 3);

if(b[bi].count(ch))

return false;

b[bi].insert(ch);

}

}

return true;

}

};