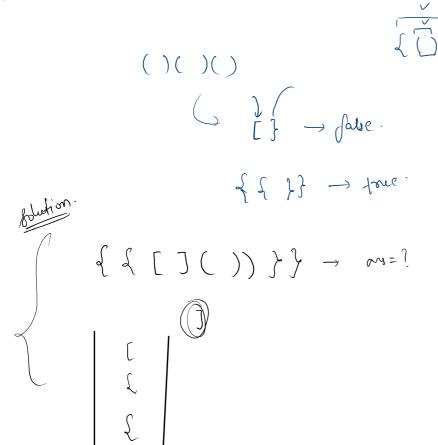
Valid Parentheses 4

Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

- Open brackets must be closed by the same type of brackets.
- Open brackets must be closed in the correct order.



$$8 \rightarrow \{()[()]\} \rightarrow \text{ars}=? \text{true}$$

$$S \rightarrow ((\zeta)[J])$$

$$\begin{cases} & \\ \\ & \\ \\ & \end{cases}$$

```
1 import java.io.*;
2 import java.util.*;
 4 public class Solution {
       public static boolean findAns(String s){
 6
           Stack<Character> st = new Stack<>();
           for(int i = 0; i < s.length();i++){
               char ch = s.charAt(i);
               if(ch == '{' || ch == '[' || ch == '('){
10
                   st.push(ch);
               }else if(st.size() == 0){
11
                   return false;
12
13
               }else if(ch == '}' && st.peek() != '{'){
                   return false;
14
15
16
               else if(ch == ')' && st.peek() != '('){
17
                   return false;
18
19
               else if(ch == ']' && st.peek() != '['){
                   return false;
21
               }else{
22
                   st.pop();
23
24
25
           return st.size() == 0;
26
27
28
       public static void main(String[] args) {
29
           Scanner scn = new Scanner(System.in);
30
           String s = scn.next();
31
           boolean ans = findAns(s);
32
           System.out.println(ans);
33
34 }
```

[(()){3] -> True

is always unique. Hashmap. Initialize Size Key-Value. Value.

in different countries.? are there How many schools. V alue Value India -> 46 China > 52 SIN Intege v Conada - 12 Characte & Nepal - 70 Delhi Mumbai -Kolkata - 24° P. Unjab - 30°

udd -> put

```
add -> if key is not bresent

Update -> if key is present
```

```
1 import java.util.HashMap;
  import java.util.*;
  public class Main
5 - {
       public static void main(String[] args) {
          //init
           HashMap<String , Integer> hm = new HashMap<>();
           //add -> put
           hm.put("China", 38);
           hm.put("India", 42);
           hm.put("Nepal", 70);
           hm.put("Canada", 22);
           System.out.println(hm);
           hm.put("India", 55);
           System.out.println(hm);
       }
```

```
Size -> total unique entries/key.
         ystem.out.println(hm.size());
get: -> hm.get ( key)
               System.out.println(hm.get("Nepal"));
                    hm.remove("Canada");
           hm. remove ( Key);
```

```
hm. key Set()

20
21
21
22
3ystem.out.println(hm.keySet());

22
3
23
}

all_keys.

hm.containskey("China"));

System.out.println(hm.containskey("China"));
```

```
hm. get Or Default()
```

Word Meaning

- If N==1, take word and meaning as input from user and add it to the dictionary.
- If N==2, take a word as input from the user and print its meaning, if the word is not found print -1.
 - If N==3, take a word as input from the user and delete it from the dictionary.
 - If N==4, Close the dictionary(Exit the program).

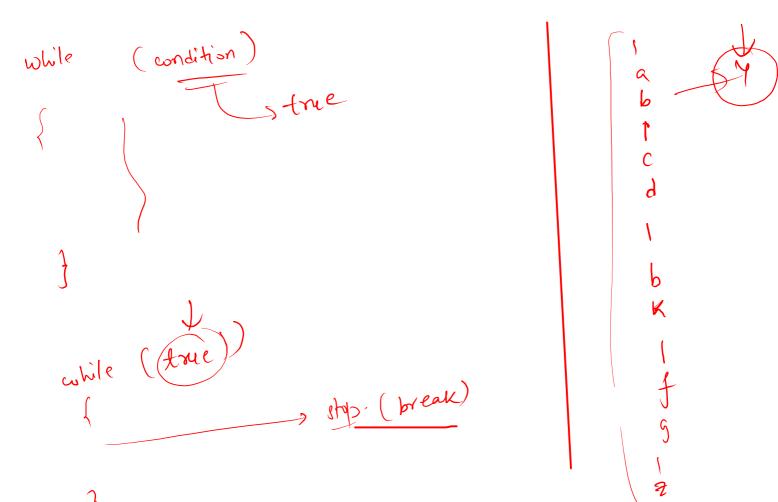
Sample Input 1

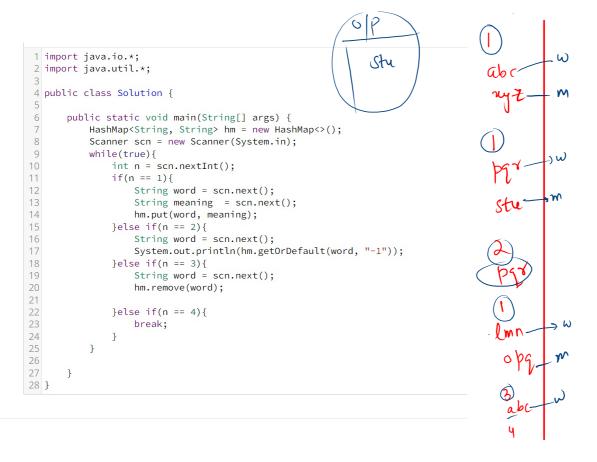
Geekster
Coding
Geek
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Geek

Sample Output 1

Coder Coding -1

Value
Codi ng





pgr stu lmn opg