

20. Valid Parentheses

Hint

Easy

23K

1.6K



Companies

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

An input string is valid if:

Testcase

Result

Compile Error

Line 64: Char 5: error: redefinition of 'main' [solution.c]

```
67 | int main(int argc, char *argv[]) {  
    |      ^~~~~
```

Console



Run

Submit



```
1  #include <stdio.h>  
2  #include <stdbool.h>  
3  #define N 100  
4  
5  char st[N];  
6  int top = -1;  
7  
8  void push(char a);  
9  char pop();  
10 bool right(char s[]);  
11  
12 void push(char a) {  
13     if (top == -1) {  
14         printf("overflow");  
15         return;  
16     }  
17     st[++top]=a;  
18 }  
19  
20 char pop() {  
21     if (top == -1) {  
22         printf("empty");  
23         return '\0';  
24     }  
25     char a = st[top];  
26     --top;  
27     return a;  
28 }  
29  
30 bool right(char s[]) {  
31     int i = 0;  
32     while (s[i] != '\0') {  
33         if (s[i] == '(' || s[i] == '{' || s[i] == '[') {  
34             push(s[i]);  
35         } else if (s[i] == ')' || s[i] == '}' || s[i] == ']') {  
36             if (top == -1) {  
37                 return false;  
38             }
```

Saved to local

Ln 17, Col 17

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```
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Console



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```
26     --top;  
27     return a;  
28 }  
29  
30 bool right(char s[]) {  
31     int i = 0;  
32     while (s[i] != '\0') {  
33         if (s[i] == '(' || s[i] == '{' || s[i] == '[') {  
34             push(s[i]);  
35         } else if (s[i] == ')' || s[i] == '}' || s[i] == ']') {  
36             if (top == -1) {  
37                 return false;  
38             }  
39             char temp = pop();  
40             if ((temp == '(' && s[i] != ')') || (temp == '{' && s[i] != '}') ||  
41                 (temp == '[' && s[i] != ']')) {  
42                 return false;  
43             }  
44             i++;  
45         }  
46         return top== -1;  
47     }  
48  
49     int main() {  
50         char s[] = "(";  
51         if (right(s))  
52             printf("Valid\n");  
53         else  
54             printf("Invalid\n");  
55         return 0;  
56     }  
57 }  
58
```

Saved to local

Ln 17, Col 17