

## b)LEETCODE:WAP for Valid Parenthesis

CODE:

```
#define MAX 10
char stack[MAX];
int top = -1;

void push(char );
char pop(void );
char peek(void );
bool isValid(char* s) {
    int i = 0;
    while(s[i] != '\0') {
        if(s[i] == '(' || s[i] == '[' || s[i] == '{') {
            push(s[i]);
        }
        else if(s[i] == ')'){
            char ch = pop();
            if(ch != '(') return false;
        }
        else if(s[i] == ']'){
            char ch = pop();
            if(ch != '[') return false;
        }
        else if(s[i] == '}'){
            char ch = pop();
            if(ch != '{') return false;
        }
        i++;
    }
    if(top != -1) return false;
    return true;
}

void push(char ch) {
    if(top == MAX - 1) return;
    stack[++top] = ch;
```

```
}
```

```
char pop() {  
    if(top == -1) return 'n';  
    return stack[top--];  
}
```

OUTPUT :

Testcase	Result
<b>Accepted</b> Runtime: 0 ms	
<ul style="list-style-type: none"><li>• Case 1</li><li>• Case 2</li><li>• <b>Case 3</b></li></ul>	
Input	
s = "()"	
Output	
false	
Expected	
false	
Console ▾	