

```

#include<stdio.h>

#include<stdbool.h>

#include<string.h>

#include<stdlib.h>

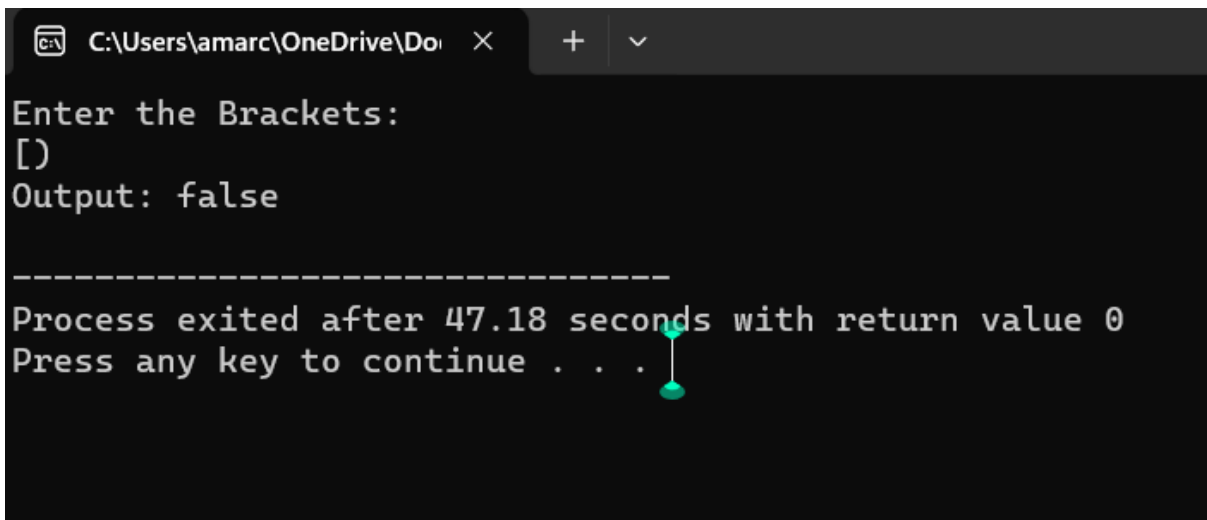
#define MAX_SIZE 100

bool isValid(const char *input)
{
    char stack[MAX_SIZE];
    int top=-1;
    for(int i=0;input[i]!='\0';++i)
    {
        int c=input[i];
        if(c=='(' || c=='{' || c=='[')
        {
            stack[++top]=c;
        }
        else if(c==')' || c=='}' || c==']')
        {
            if(top<0 || (c==')'&&stack[top--]!='(') || (c=='}'&&stack[top--]
]!='{') || (c==']'&&stack[top--]!='['))
            {
                return false;
            }
        }
    }
    return top==-1;
}

int main()
{
    char input[MAX_SIZE];

```

```
printf("Enter the Brackets:\n ");  
fgets(input,sizeof(input),stdin);  
int l=strlen(input);  
if(input[l-1]=='\n')  
{  
    input[l-1]='\0';  
}  
printf("Output: %s\n",isvalid(input)?"true":"false");  
}
```



```
C:\Users\amarc\OneDrive\Doi > Enter the Brackets:  
[]  
Output: false  
  
-----  
Process exited after 47.18 seconds with return value 0  
Press any key to continue . . .
```