## MINIMUM ADD TO MAKE PARENTHESES VALIO

In this problem, we are given a parantheses string that may or may not be valid, and our job is to figure out how many paranthesis do we add to make it valid.

We take a counters, one which will track open Brackets and one which will track additional requirements. Each time we see an open Bracket its counter is added to and each time we see a closed bracket, we subtract one from open brackets. But if there are none, we all one to our requirements counter.

int min Add Paven theses Valid (string s) {

int open Brackets = 0;

int N = s. length ();

for (int i = 0; i < N; i + +) {

char c = s(i);

if (c = = 6(1)) {

open Brackets += 1;

else {

if (open Brackets = = 0) {

min Req, + = 1;

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else {
          open Brackets -= 1;
min Reg + = open Brackets;
return min Reg;
```