

6) BALANCED PARENTHESIS CHECKER

This is the standard sum of stacks.

The question demands all the three types of brackets = {},[],()

CODE OF THE PROGRAM:

```
class Solution
{
public:
//Function to check if brackets are balanced or not.
bool ispar(string x){
    stack<char> s;
    for(int i=0;i<x.length();i++){
        if(x[i]=='('||x[i]=='['||x[i]=='{'){
            s.push(x[i]);
        }
        else if(x[i]==')'){
            if(s.size()!=0 && s.top()=='('){
                s.pop();
            }
            else{
                return false;
            }
        }
        else if(x[i]==']'){
            if(s.size()!=0 && s.top()=='['){
                s.pop();
            }
            else{
                return false;
            }
        }
        else if(x[i]=='}'){
            if(s.size()!=0 && s.top()=='{'){
                s.pop();
            }
            else{
                return false;
            }
        }
    }
    if(s.size()==0){
        return true;
    }
    else{
        return false;
    }
}
```

```
};
```