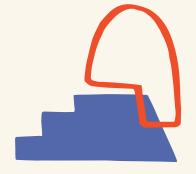




HH SOLUTION

generate-parentheses





Senior Schedule



Senior Morni Senior Hack Hour 9:15am, https://share.co

Open Source Product Coding

10am - 8pm Seniors' Team Zoom Rooms

ರ Lunch

12:30 - 2:30pm https://share.codesmith.io/

| Arunway | Women/Nonbinary Folks

1:45 - 2:30pm o Midday Standups, 2:30pm, f

Lecture: Career Goal Kickof

o Tech Talk, 5:15pm, https://s o Dinner

o Dinner

5:30pm, https://share.code

Codesmith Social (Optional) 8pm, https://share.codesmith



generate-parentheses

```
Given n pairs of parentheses, write a function to generate all combinations of
       well-formed parentheses.
        For example, given n = 2, a solution set is:
       Given n = 3, a solution set is:
14
       Given n = 0, a solution set is:
18
```

strategy: recursion

input: number

output: array of strs

```
n=2 str=" |=2 r=2
    const generateParentheses = n => {
      const results = [];
                                    str = '(' ( = 1 r = 2
     const generate = (str, l, r) \Rightarrow {}
     o if (r === 0) {
                                                                 str = '()' L = | r = |
                                      str= '((' L=0 r=2
         results.push(str);
         return;
                                       str = '(()' (=0 r=1
                                                                    Str = '()(' L=0 r=1
30
                                        str : '(())' (=0 r=0
                                                                    str = '()()' (=0 r=0
    • if (l > 0)
         generate(str + '(', l - 1, r);
      ●if (l < r)</pre>
                                                                         results = [
                                          results : ['(())']
         generate(str + ')', l, r - 1);
      };
                                                                           generate('', n, n);
40
      return results;
                                                                           '()()'
generate Parens (2);
 1/expect
 [ '(())' , '()()' ]
```





get-all-products



