Our Solution(s) Run Code

Solution 1 Solution 2

```
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// O(n*2^n) time | O(n*2^n) space
function powerset(array) {
  const subsets = [[]];
  for (const ele of array) {
    const length = subsets.length;
    for (let i = 0; i < length; i++) {
      const currentSubset = subsets[i];
      subsets.push(currentSubset.concat(ele));
    }
  }
  return subsets;
}

exports.powerset = powerset;

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```
function powerset(array) {
  // Write your code here.
}

// Do not edit the line below.
exports.powerset = powerset;

```

Our Tests

Custom Output Submit Code

```
const chai = require("chai");

function sortedWithLengthy(array) {
  return array.sort((a, b) => a - b).join("");
}

it("Test Case #1", function () {
  const output = program.powerset([1]).map(sortedWithLengthy);
  chai.expect(output.length === 2, "Is the true");
  chai.expect(output).to.include("");
});

it("Test Case #2", function () {
  const output = program.powerset([1,2]).map(sortedWithLengthy);
  chai.expect(output.length === 4, "Is the true");
  chai.expect(output).to.include("");
  chai.expect(output).to.include("2");
});

it("Test Case #3", function () {
  const output = program.powerset([1,2,3]).map(sortedWithLengthy);
```

Run or submit code when you're ready.