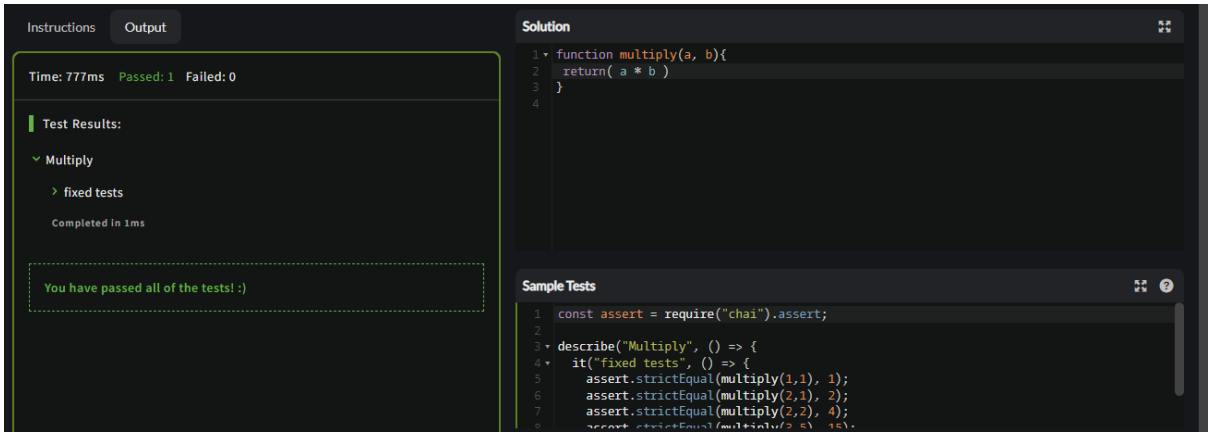
25 program challenge

1. Multiply:

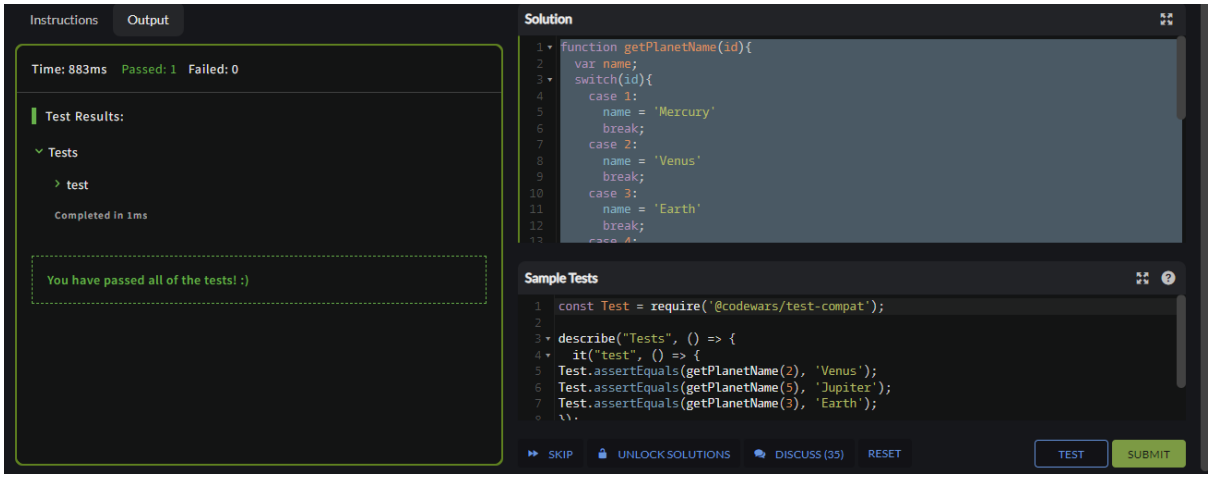
```
function multiply(a, b){
return( a * b )
}
```



2. Get Planet Name By ID:

```
function getPlanetName(id){
var name;
switch(id){
 case 1:
  name = 'Mercury'
  break;
 case 2:
  name = 'Venus'
  break;
 case 3:
  name = 'Earth'
  break;
 case 4:
  name = 'Mars'
```

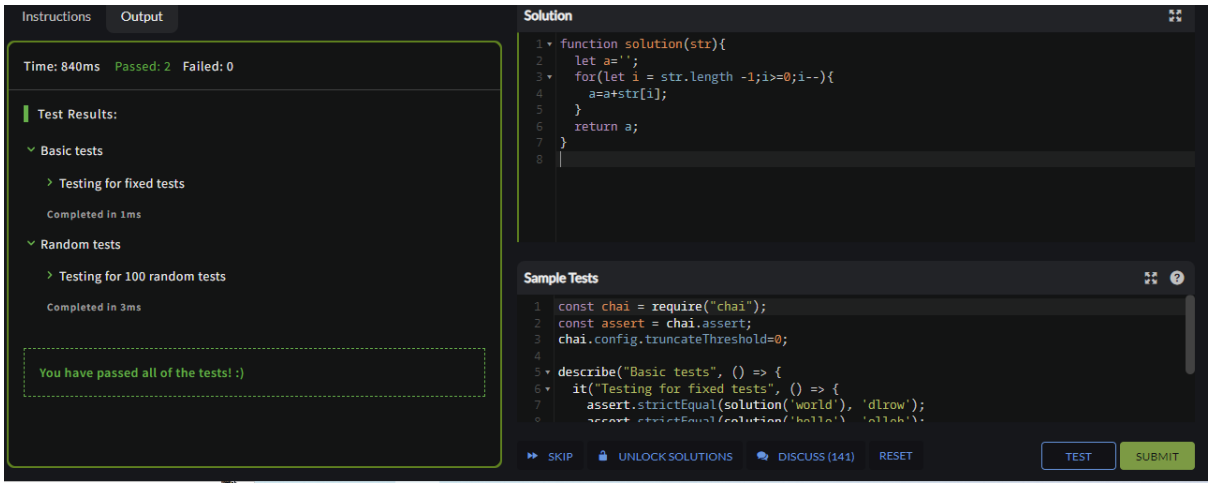
```
    break;
  case 5:
    name = 'Jupiter'
    break;
  case 6:
    name = 'Saturn'
    break;
  case 7:
    name = 'Uranus'
    break;
  case 8:
    name = 'Neptune'
    break;
 }
 return name;
}
```



3. Reversed Strings

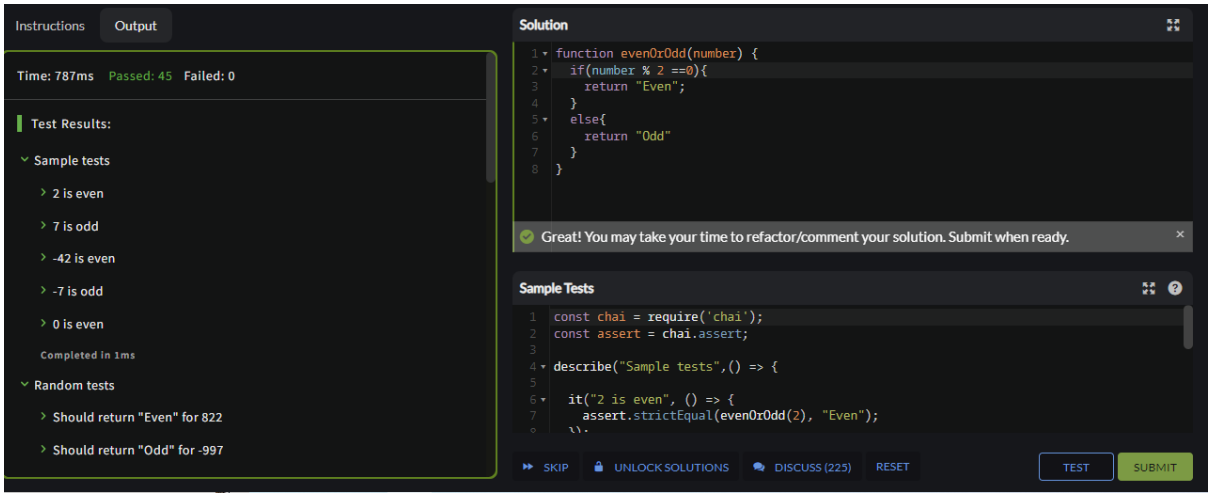
```
function solution(str){
```

```
  let a='';
  for(let i = str.length -1;i>=0;i--){
    a=a+str[i];
  }
  return a;
}
```



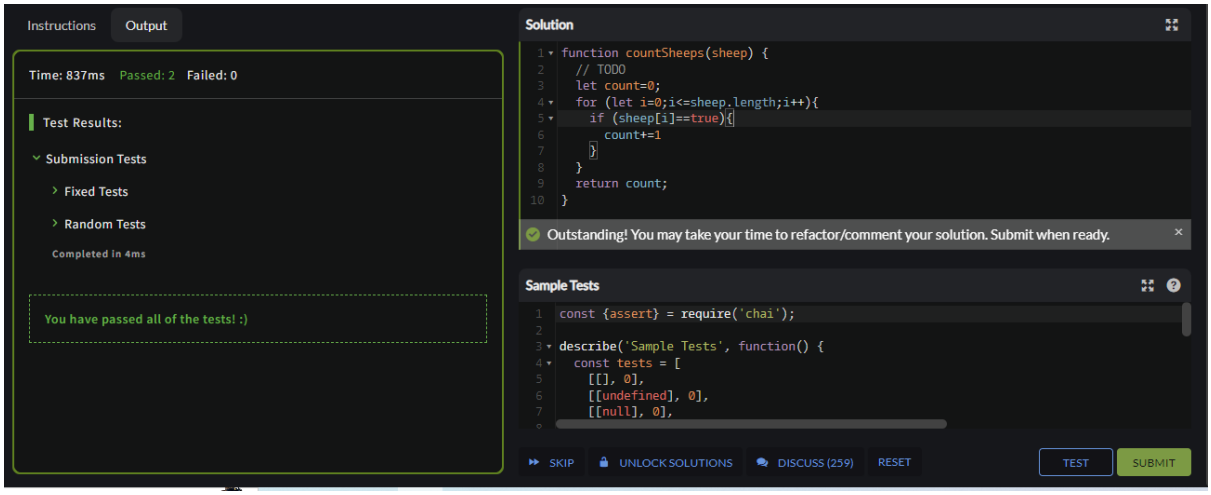
4. Even or Odd

```
function evenOrOdd(number) {
  if(number % 2 ==0){
    return "Even";
  }
  else{
    return "Odd"
  }
}
```



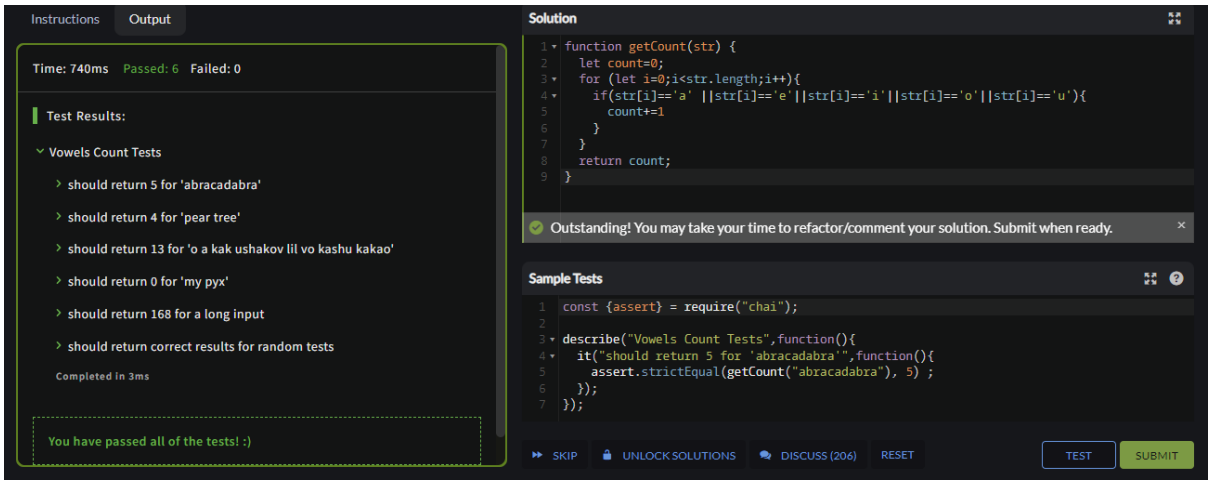
5. Counting sheep...

```
function countSheeps(sheep) {
  let count=0;
  for (let i=0;i<=sheep.length;i++){
    if (sheep[i]==true){
      count+=1
    }
  }
  return count;
}
```



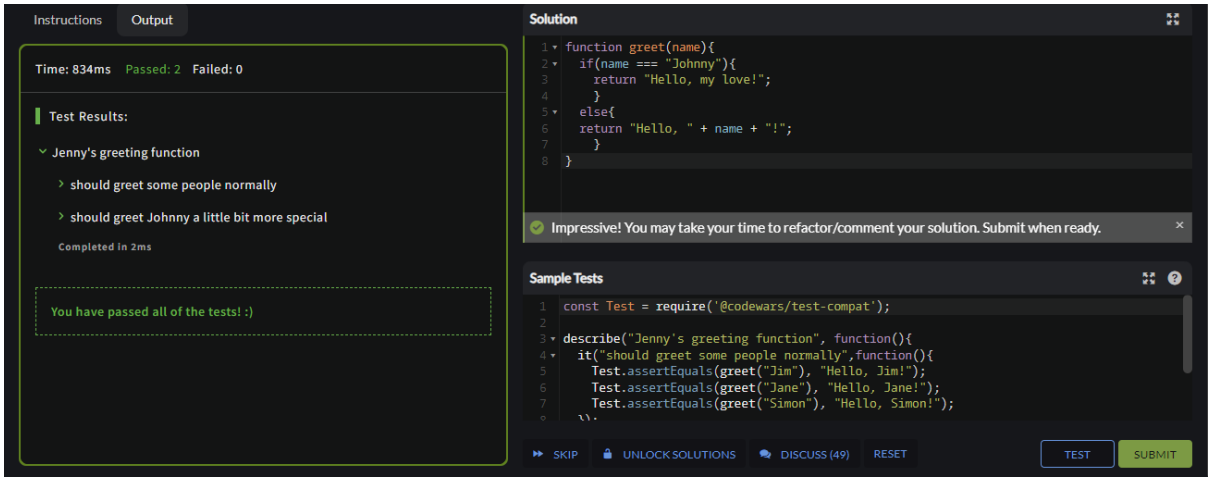
6. Vowel Count

```
function getCount(str) {
  let count=0;
  for (let i=0;i<str.length;i++){
    if(str[i]=='a' ||str[i]=='e'||str[i]=='i'||str[i]=='o'||str[i]=='u'){
      count+=1
    }
  }
  return count;
}
```



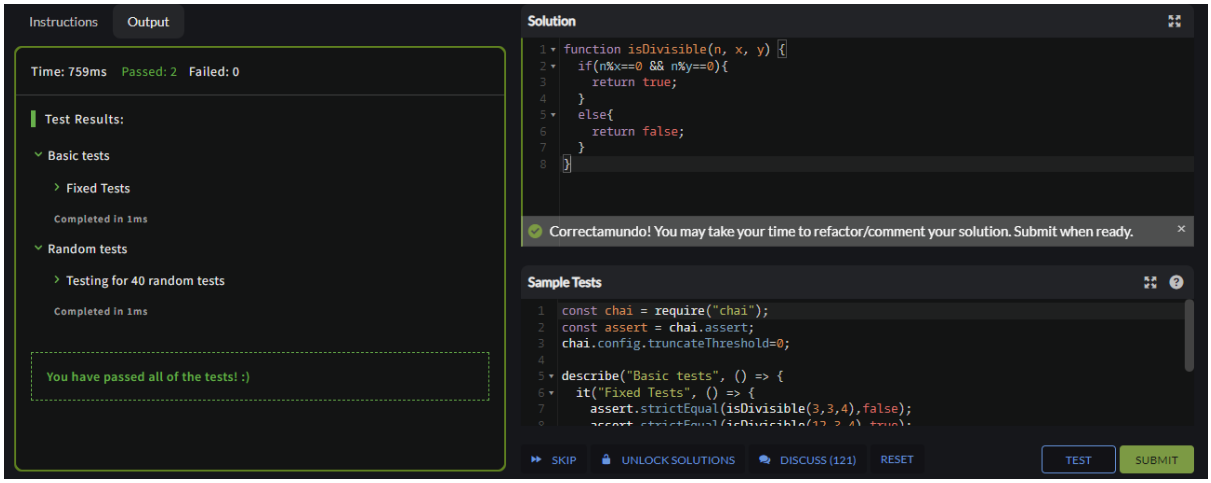
7. Jenny's secret message

```
function greet(name){
  if(name === "Johnny"){
    return "Hello, my love!";
  }
  else{
  return "Hello, " + name + "!";
  } }
```



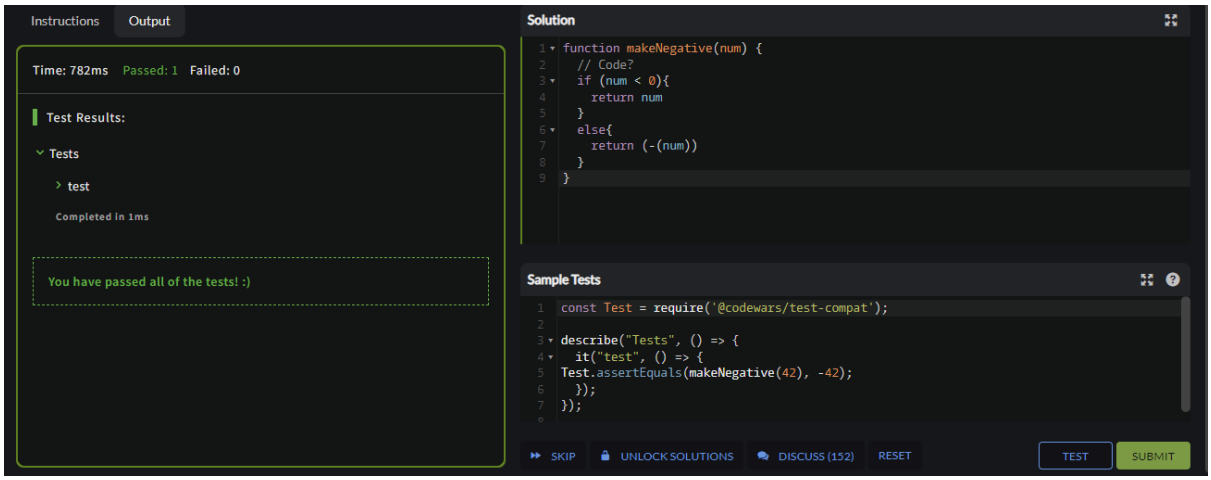
8. Is n divisible by x and y?

```
function isDivisible(n, x, y) {
  if(n%x==0 && n%y==0){
    return true;
  }
  else{
    return false;
  }
}
```



9. Return Negative

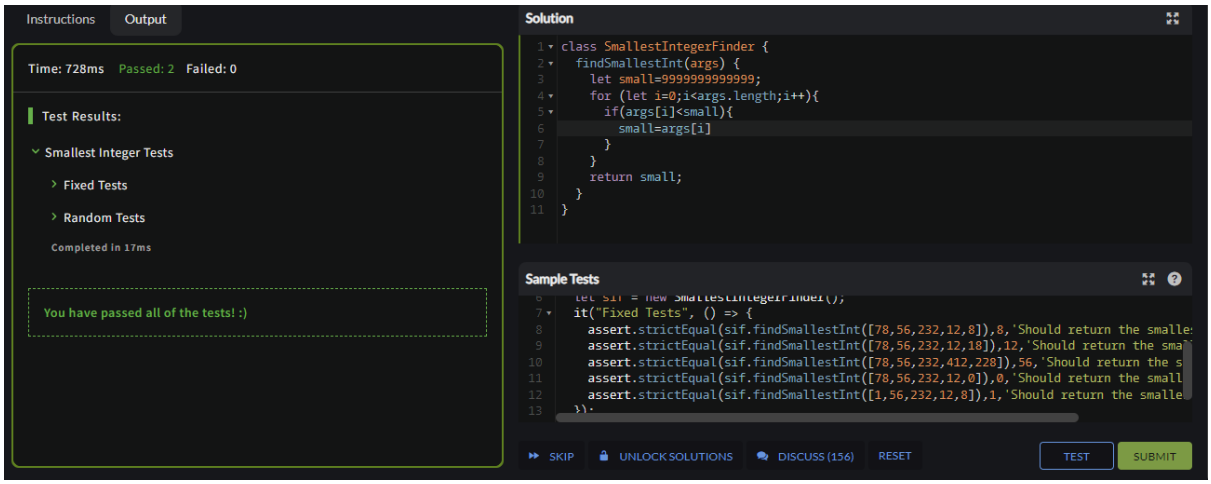
```
function makeNegative(num) {
  // Code?
  if (num < 0){
    return num
  }
  else{
    return (-(num))
  }
}
```



10. Find the smallest integer in the array

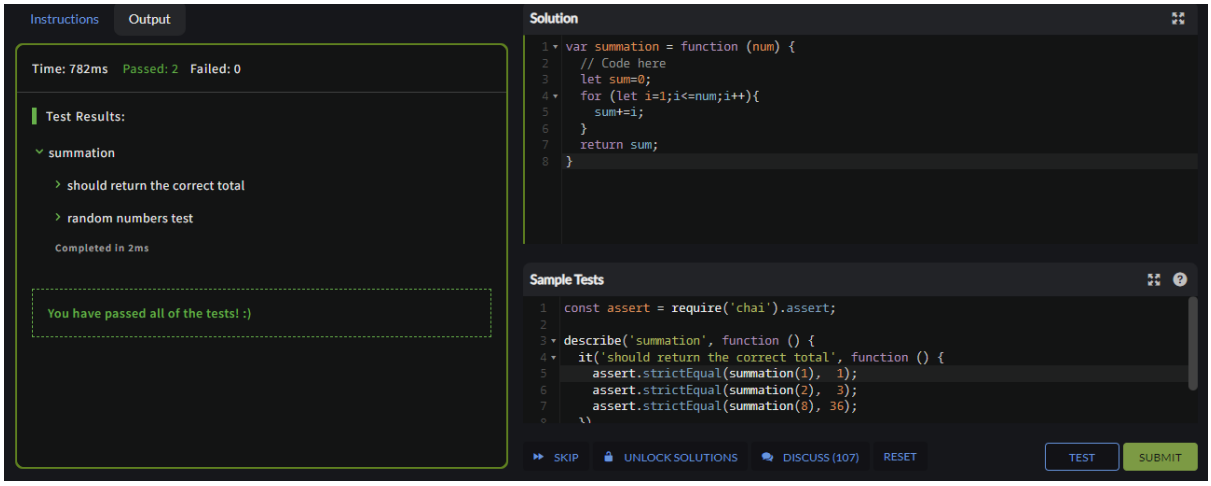
```
class SmallestIntegerFinder {
  findSmallestInt(args) {
    let small=9999999999999;
    for (let i=0;i<args.length;i++){
      if(args[i]<small){
        small=args[i]
      }
```

```
    }
    return small;
  }
}
```



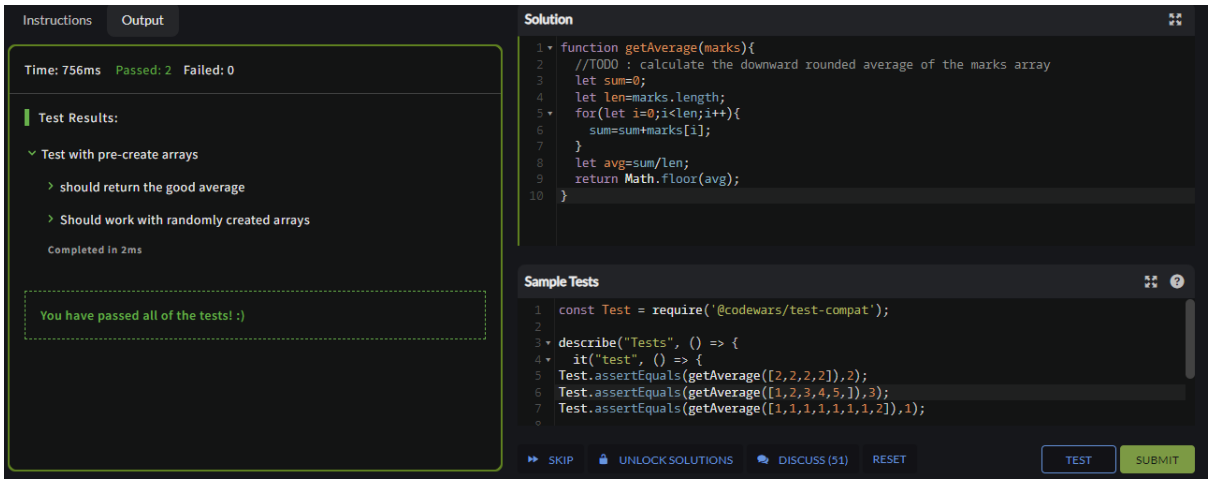
11. Grasshopper – Summation

```
var summation = function (num) {
  // Code here
  let sum=0;
  for (let i=1;i<=num;i++){
    sum+=i;
  }
  return sum;
}
```



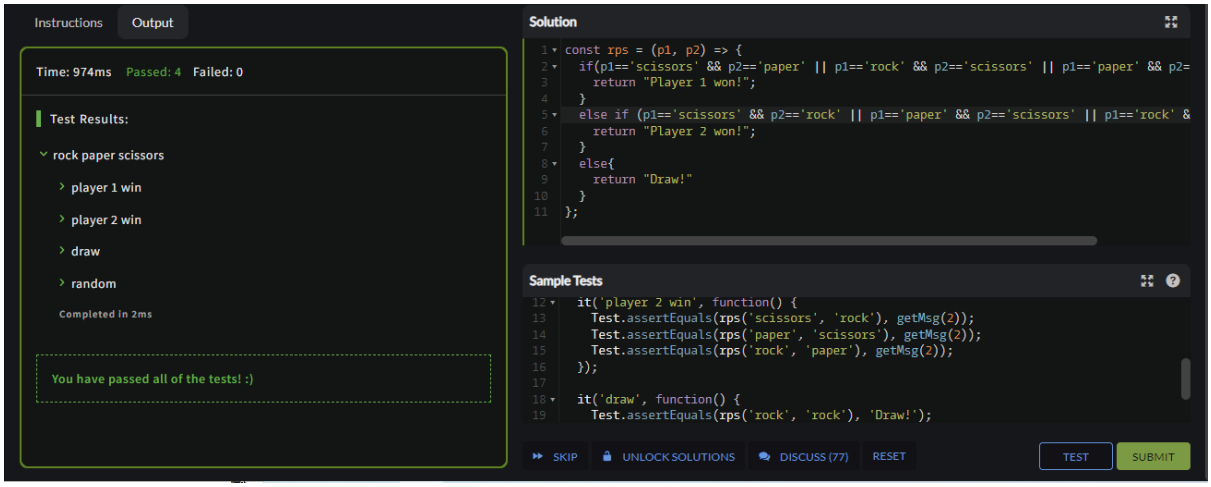
12. Get the mean of an array

```
function getAverage(marks){
  //TODO : calculate the downward rounded average of the marks array
  let sum=0;
  let len=marks.length;
  for(let i=0;i<len;i++){
    sum=sum+marks[i];
  }
  let avg=sum/len;
  return Math.floor(avg);
}
```



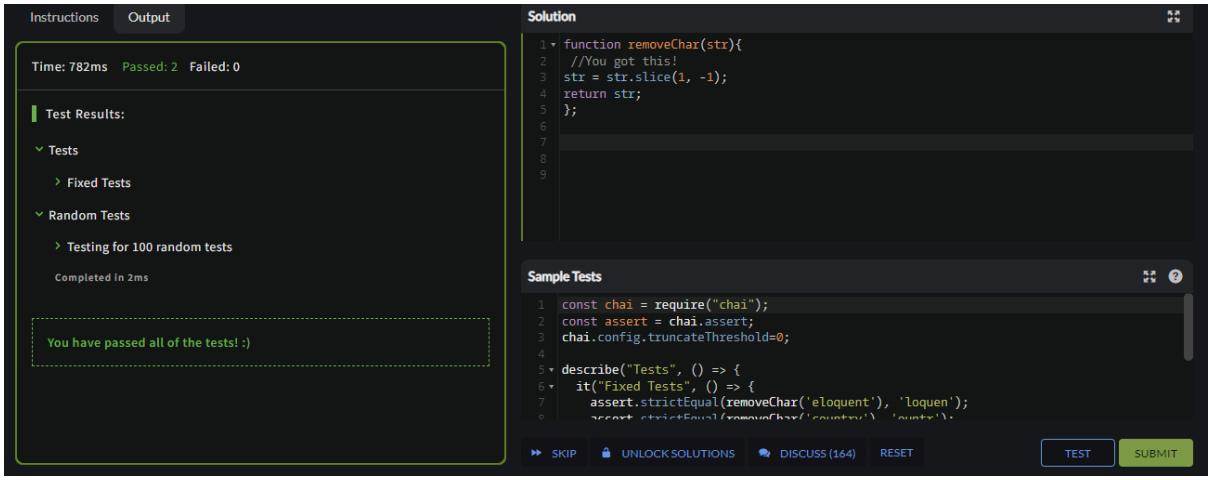
13. Rock Paper Scissors!

```
const rps = (p1, p2) => {
  if(p1=='scissors' && p2=='paper' || p1=='rock' && p2=='scissors' || p1=='paper' && p2=='rock'){
    return "Player 1 won!";
  }
  else if (p1=='scissors' && p2=='rock' || p1=='paper' && p2=='scissors' || p1=='rock' && p2=='paper'){
    return "Player 2 won!";
  }
  else{
    return "Draw!"
  }
};
```



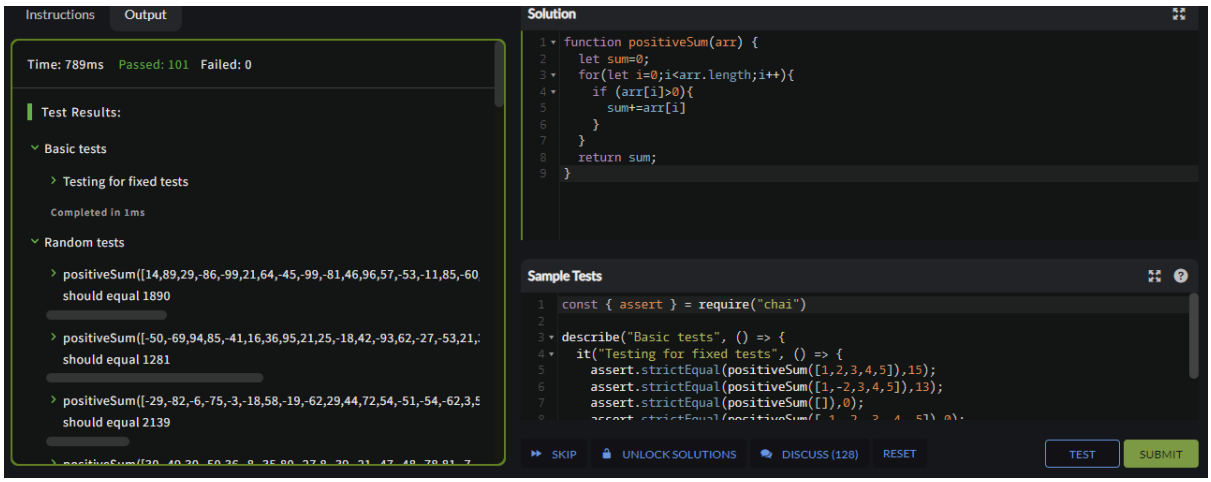
14. Remove First and Last Character

```
function removeChar(str){
str = str.slice(1, -1);
return str;
};
```



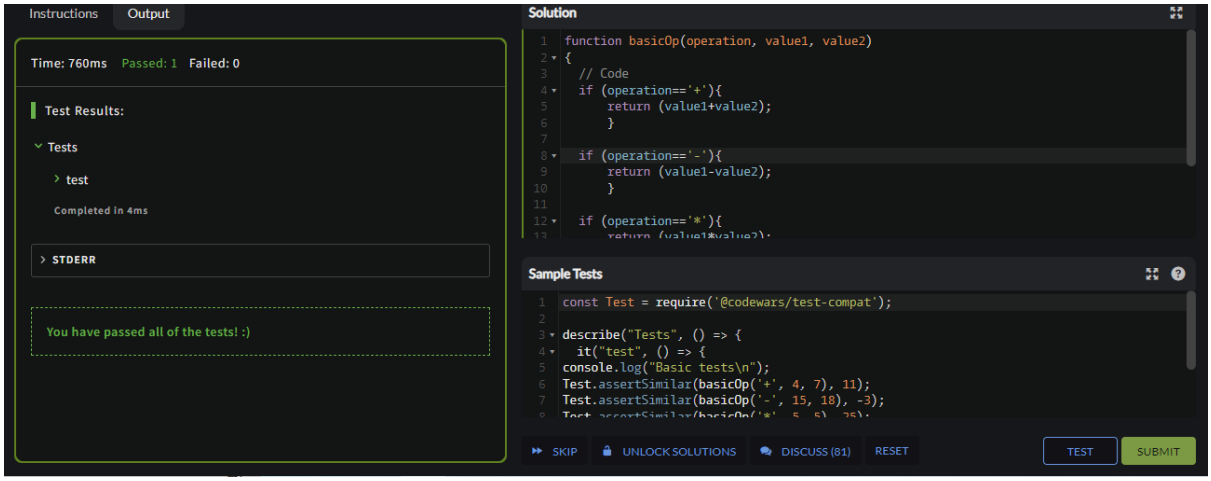
15. Sum of positive

```
function positiveSum(arr) {
  let sum=0;
  for(let i=0;i<arr.length;i++){
    if (arr[i]>0){
      sum+=arr[i]
    }
  }
  return sum;
}
```



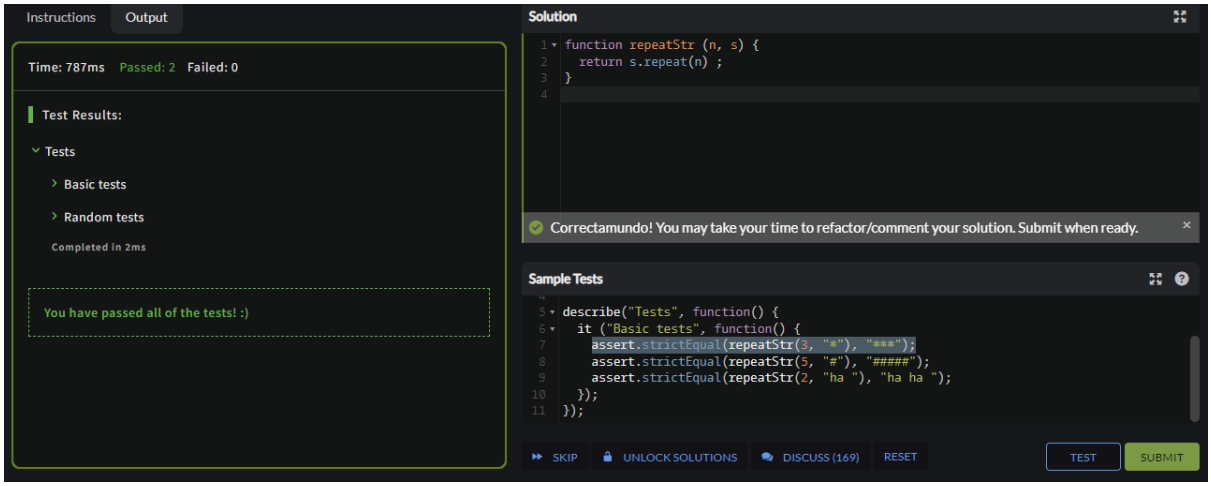
16. Basic Mathematical Operations

```
function basicOp(operation, value1, value2)
{
  if (operation=='+'){
     return (value1+value2);
     }

  if (operation=='-'){
     return (value1-value2);
     }

  if (operation=='*'){
     return (value1*value2);
     }

  if (operation=='/'){
     return (value1/value2);
     }
}
```



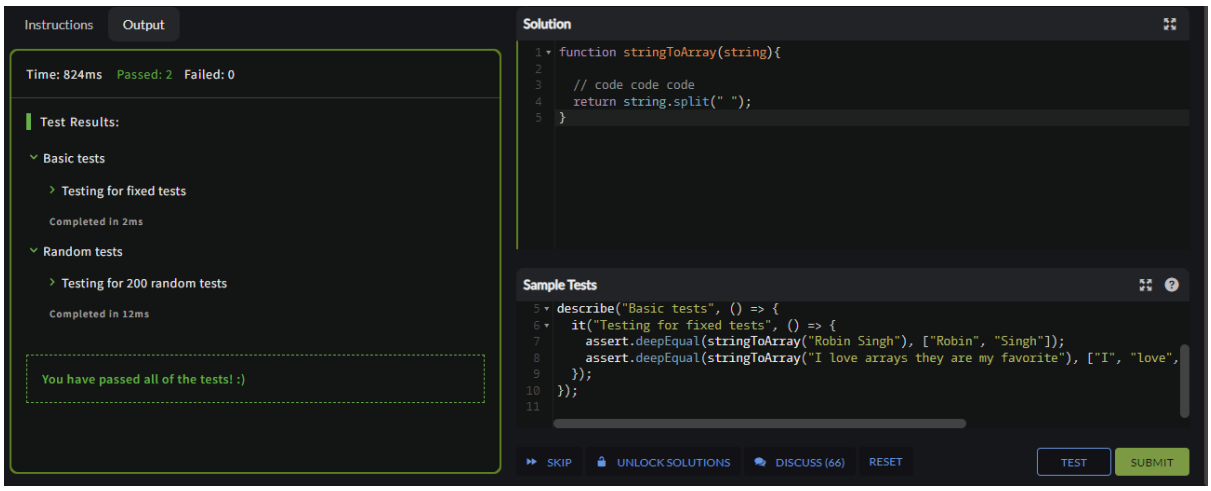
17. String repeat

```
function repeatStr (n, s) {
  return s.repeat(n) ;
}
```



18. Convert a string to an array

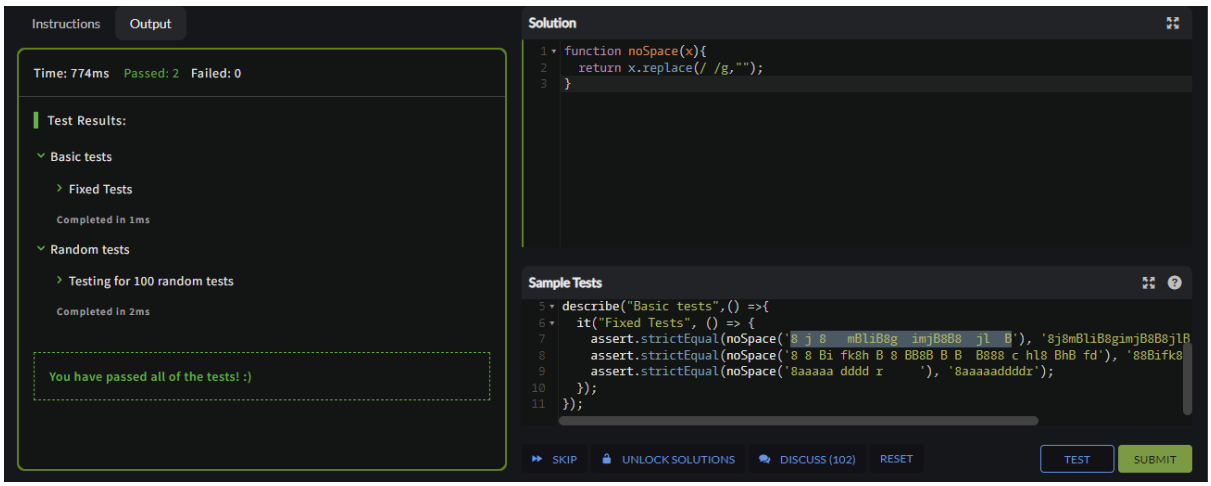
```
function stringToArray(string){
  return string.split(" ");
}
```



19. Remove String Spaces

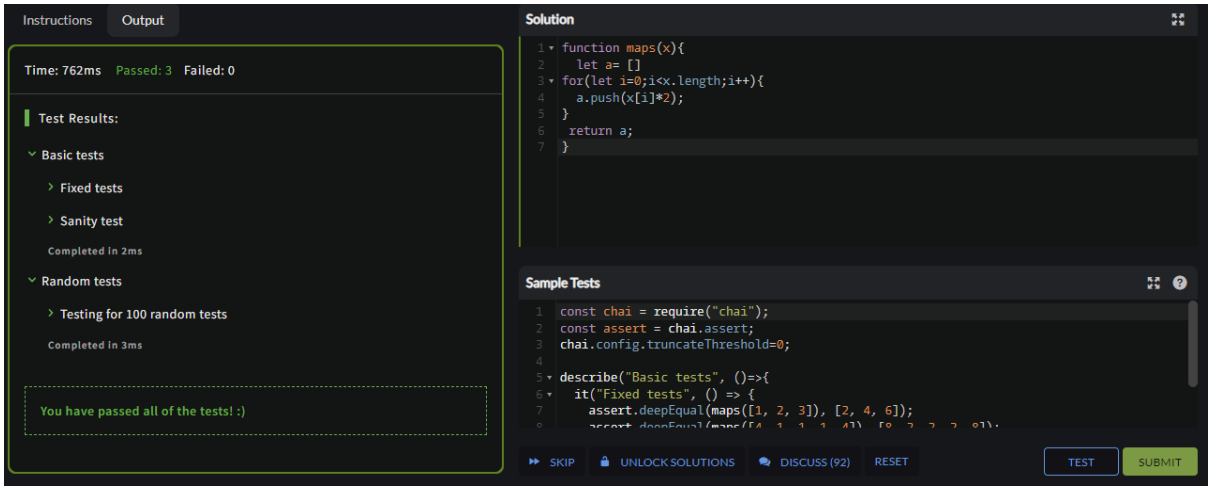
```
function noSpace(x){
```

```
  return x.replace(/ /g,"");
}
```



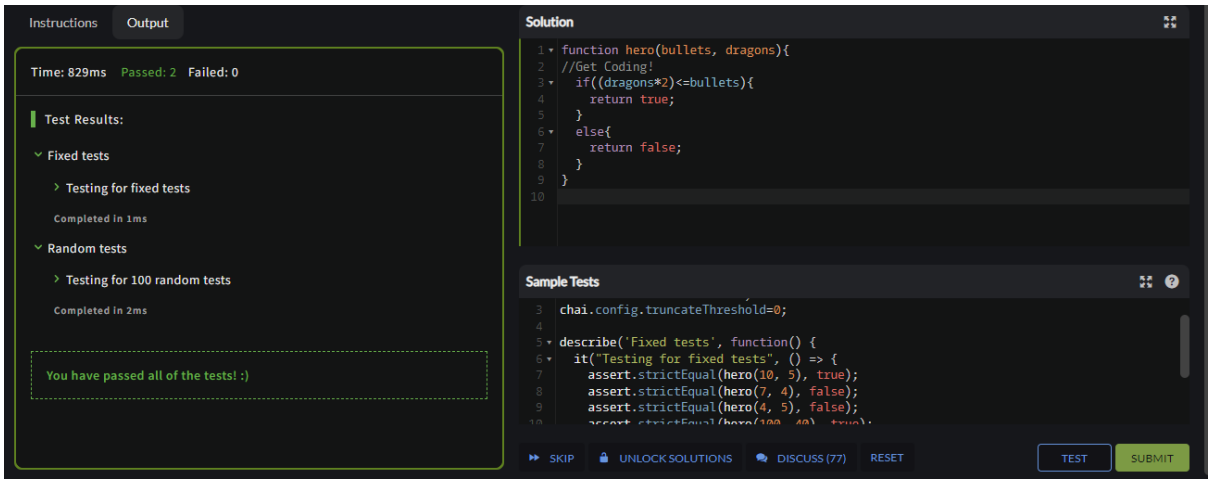
20. Beginner - Lost Without a Map

```
function maps(x){
  let a= []
for(let i=0;i<x.length;i++){
  a.push(x[i]*2);
}
 return a;
}
```



21. Is he gonna survive?

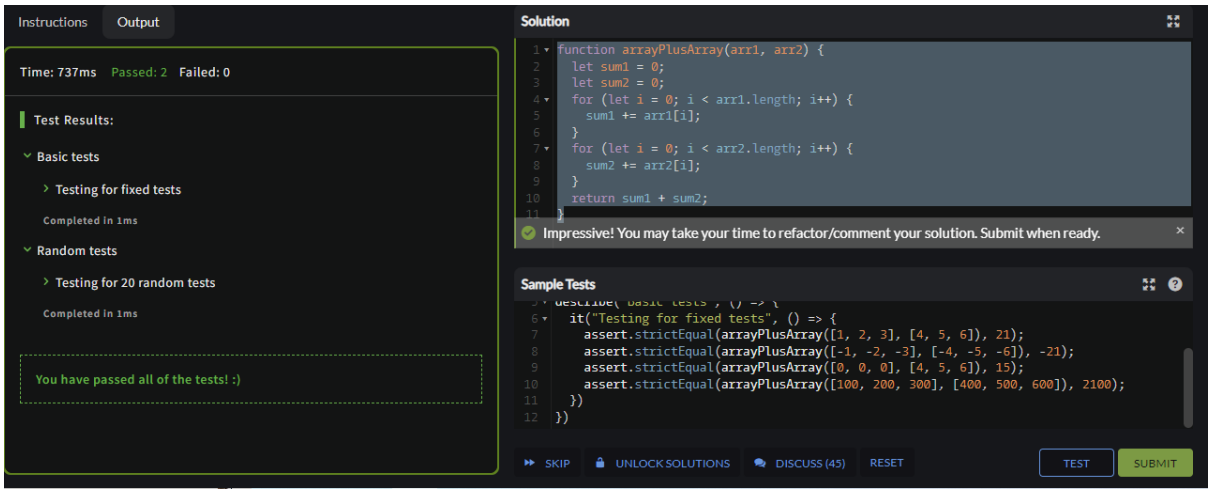
```
function hero(bullets, dragons){
//Get Coding!
  if((dragons*2)<=bullets){
    return true;
  }
  else{
    return false;
  }
}
```



22. Array plus array

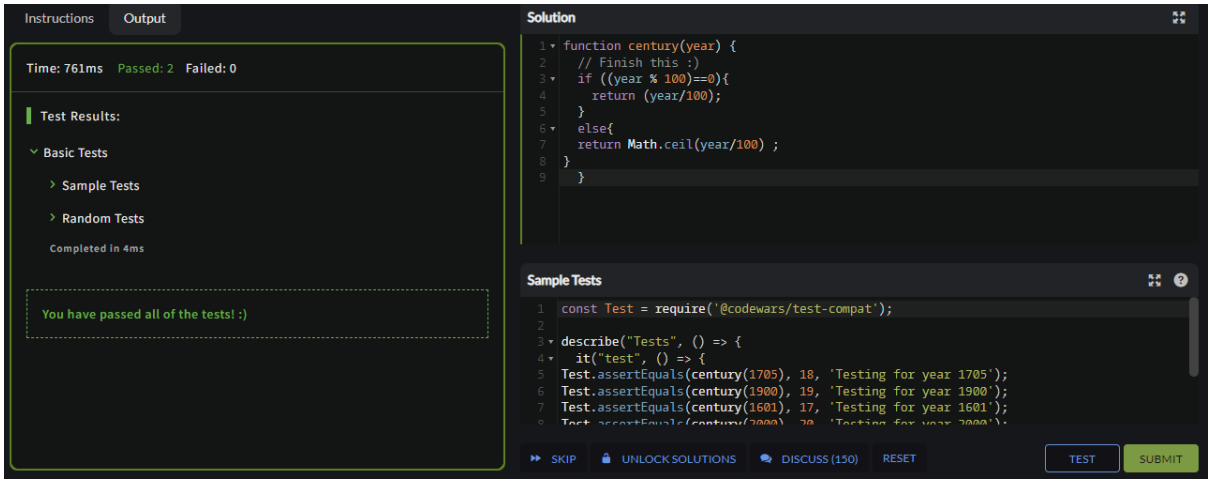
```
function arrayPlusArray(arr1, arr2) {
  let sum1 = 0;
  let sum2 = 0;
  for (let i = 0; i < arr1.length; i++) {
    sum1 += arr1[i];
  }
```

```
  for (let i = 0; i < arr2.length; i++) {
    sum2 += arr2[i];
  }
  return sum1 + sum2;
}
```



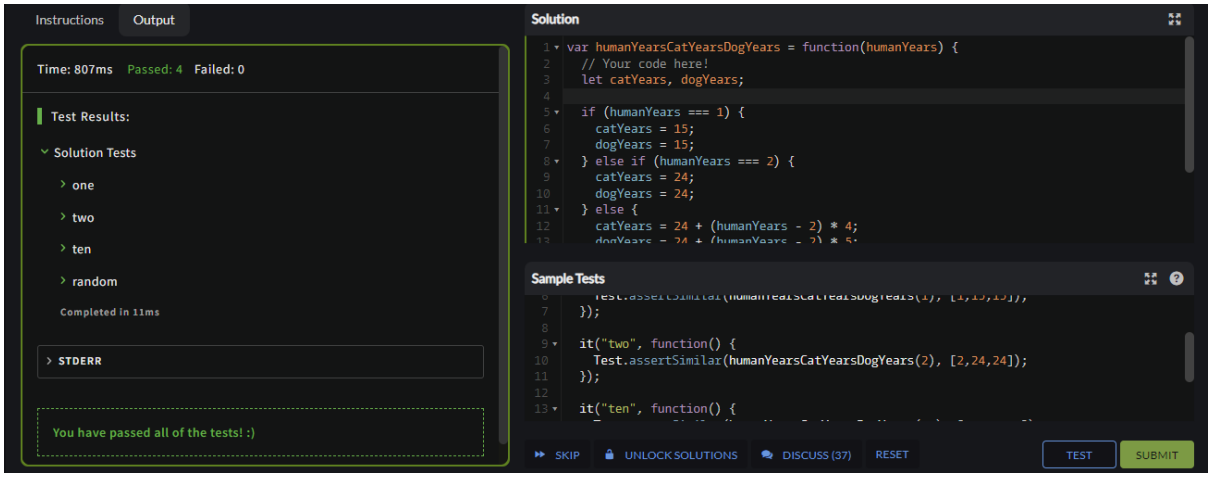
23. Century From Year

```
function century(year) {
  // Finish this :)
  if ((year % 100)==0){
    return (year/100);
  }
  else{
  return Math.ceil(year/100) ;
}
  }
```



24. Cat years, Dog years

```
var humanYearsCatYearsDogYears = function(humanYears) {
  // Your code here!
  let catYears, dogYears;
  if (humanYears === 1) {
    catYears = 15;
    dogYears = 15;
  } else if (humanYears === 2) {
    catYears = 24;
    dogYears = 24;
  } else {
    catYears = 24 + (humanYears - 2) * 4;
    dogYears = 24 + (humanYears - 2) * 5;
  }
  return [humanYears, catYears, dogYears];
}
```



25. Total amount of points

```
function points(games) {
  let total=0
  for(let i=0;i<games.length;i++){
    let [a,b]=games[i].split(':');
    if (a>b){
      total+=3;
    }
    else if (a==b){
      total+=1;
    }
  }
  return total;
}
```

Instructions | Output

Time: 771ms Passed: 2 Failed: 0

Test Results:

Total amount of points

Fixed Tests

Random tests

Completed in 4ms

You have passed all of the tests! :)

Solution

```javascript
function points(games) {
  let total=0
  for(let i=0;i<games.length;i++){
    let [a,b]=games[i].split(':');
    if (a>b){
      total+=3;
    }
    else if (a==b){
      total+=1;
    }
  }
  return total;
}
```

Sample Tests

```javascript
  it("Sample Tests", function(){
    assert.strictEqual(points(["1:0","2:0","3:0","4:0","2:1","3:1","4:1","3:2","4:2","4:
    assert.strictEqual(points(["1:1","2:2","3:3","4:4","2:2","3:3","4:4","3:3","4:4","4:
    assert.strictEqual(points(["0:1","0:2","0:3","0:4","1:2","1:3","1:4","2:3","2:4","3
    assert.strictEqual(points(["1:0","2:0","3:0","4:0","2:1","1:3","1:4","2:3","2:4","3
    assert.strictEqual(points(["1:0","2:0","3:0","4:4","2:2","3:3","1:4","2:3","2:4","3
  });
});
```

SKIP | UNLOCK SOLUTIONS | DISCUSS (114) | RESET | TEST | SUBMIT