

Assignment Solution

Problem Solving - If Else



ASSIGNMENTS

1. Given a positive integer A, find a pair of integers a, b such that

- a and b are positive
- $A \leq B$
- $a^2 + b^2 = A$
- $0 \leq A \leq 100000$
-

Solution -> <https://jsfiddle.net/u8thpavd/>

```
function squareSum(num) {  
  var a = 0;  
  while (a * a < num) {  
    var b = 0;  
    while (b * b < num) {  
      if (a * a + b * b == num) {  
        if (a <= b) {  
          console.log(a + "," + b);  
        }  
      }  
      b += 1;  
    }  
    a += 1;  
  }  
}
```

squareSum(50);

2. Create a program to print all the palindromes under 50.

Solution -> <https://jsfiddle.net/9eusv087/>

```
function checkPalindrome(str) {  
  var len = str.length;  
  for (i = 0; i < len / 2; i++) {  
    if (str.charAt(i) != str.charAt(len - i - 1))  
      return false;  
  }  
  return true;  
}  
  
for (j = 1; j <= 50; j++) {  
  if (checkPalindrome(j.toString())) {  
    console.log(j);  
  }  
}
```