## Cody Problem 23. Finding Perfect Squares

Given a vector of numbers, return true if one of the numbers is a square of one of the numbers. Otherwise return false.

Example:

```
% Input a = [2 3 4]
% Output b is true
```

Output is true since 2^2 is 4 and both 2 and 4 appear on the list.

## **Scratch Pad**

```
a = [2 3 4];
isItSquared(a)
ans = 1

a = [6 10 12 14 36 101];
isItSquared(a)
ans = 1

a = [20:30];
isItSquared(a)
ans = 0
```

## Solution

```
function b = isItSquared(a)
    n = length(a); % Get the length of vector a
    b = false(1, n); % Initialize a logical array to store the results

for i = 1:n
    if any(a(i)^2 == a)
        b(i) = true;
    end
end
b = sum(b);
end
```