Homework 6

1. Continue the rustlings exercises, todays exercises are in directory homework6

   To run today's exercises do `rustlings homework 6`

Extra Credit

Recommended Reading:

- What is a Program Derived Address
- Cross Program Invocation
- An Introduction to the Solana Account Model

Coding Challenge

If you've already finished the Rustling's homework heres' an extra coding challenge.

> **Running Sum of 1D Vector**
>
> Given a vector `nums`, create a new vector called `runningSum` where each element at index `i` is the sum of all elements from the beginning of the vector up to index `i`.
>
> Return the running sum of `nums`.
>
> Example 1:

```
Input: nums = [1,2,3,4]
Output: [1,3,6,10]
Explanation: Running sum is obtained as
follows: [1, 1+2, 1+2+3, 1+2+3+4]
```

Example 2:

```
Input: nums = [1,1,1,1,1]
Output: [1,2,3,4,5]
Explanation: [1, 1+1, 1+1+1, 1+1+1+1,
1+1+1+1+1]
```

Example 3:

```
Input: nums = [3,1,2,10,1]
Output: [3,4,6,16,17]
```

```rust
fn running_sum(nums: Vec<i32>) -> Vec<i32>
{
    // Your code here
}

fn main() {
    println!("{:?}", running_sum(vec![1,
```

```
1, 1, 1, 1]));
}
```

See if you can figure out a "Rusty" way to do it using Rust's iterators and methods.

Try it on Rust Playground