

BLOCK NONCE #4: Use the standard library

What?

Rust (and Python) have large standard libraries. Use them to replace short loops and common patterns.

Why?

When we use the standard library the code is shorter, easier to write and easier to understand. In addition, the standard library is already debugged and optimized :)

How?

```
let mut index = 0;
for item in shopping_list.iter() {
    println!("{}", item, index + 1);
    index += 1;
}
```

becomes

```
for (index, item) in shopping_list.iter().enumerate() {
    println!("{}", item, index + 1);
}
```

and


```
if !words_per_length.contains_key(&len) {
    words_per_length.insert(len, 0);
}
*words_per_length.get_mut(&len).unwrap() += 1;
```

becomes

```
*words_per_length.entry(len).or_insert(0) += 1;
```

There are many others:

- `vec!["A", "B", "C"].join(", ")` (= "A, B, C")
- `vec![1, 2, 3, 4, 5].chunks(2)` (= `[[1, 2], [3, 4], [5]]`)
- `487_u32.next_multiple_of(100)` (= 500)

TIP  Most of the examples here have Python equivalents