

2-4: Ownership Rules and Borrowing (Practice)

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Create new crate

- Create new branch in the repository p24
- Create new library crate p24
- Check that p24 is listed as a member of the workspace in the root Cargo.toml

References

- Create new module `refs.rs`
- Write the following functions
 - `f1`: accepts mutable reference to tuple with two `u32`s and `bool` flag. If flag is `false`, returns mutable reference to the first element in the tuple. If flag is `true`, returns mutable reference to the second element in the tuple.
 - `f2`: accepts mutable slice `&mut [u32]` and number `n`, returns mutable reference to the `n`-th element in the slice (counting from zero).
 - `f3`: accepts slice `&mut [u32]` and number `n`, returns mutable reference to the `n`-th element from the end of the slice (counting from zero, i.e. 0 means the last element).
 - `f4`: accepts slice `&[u32]`, partitions it into 4 equal (as much as possible) parts, and returns 4 resulting slices
- Write unit tests for all functions

Fixing bad code

- Copy content of `bad_lifetimes.rs` from <https://github.com/newpavlov/tii-workshop> to `p24/src/main.rs`
- Fix code by adding appropriate lifetime annotations