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How to reuse a `Result`?

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The following does not compile. What's the canonical way to make this work?

```
let file = File::open(&args.path)?;
let reader = BufReader::new(file);

for line in reader.lines() {
    if line?.contains(&args.pattern) {
        println!("{}", line?);
    }
}
```

Here's the error message, for completeness:

```
34 |     println!("{}", line?);
    |                  ^^^^^ value used here after move
```

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edited Jun 20 '20 at 19:23



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3,071 ● 1 ● 11 ● 21

asked Jun 20 '20 at 18:46



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In your example `line` is a `Result`, which is moved when you use `?` (but do we really need the `Result` after you've unwrapped its contents??). To alleviate your problem, let's *shadow* the value of the `Result` in a local variable of the same name.

```
for line in reader.lines() {
    let line = line?;
    if line.contains(&args.pattern) {
        println!("{}", line);
    }
}
```

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edited Jun 20 '20 at 19:14

answered Jun 20 '20 at 18:55



[MeetTitan](#)

3,071 ● 1 ● 11 ● 21

Thanks. This was my initial solution, too. But as a developer coming from numerous other languages without Rust's ownership model, creating an extra local variable just felt wrong somehow.

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I understand, it seems clunky at first. I believe (but am not positive) that when we shadow a variable by using the same name the previous value is dropped from memory, so it's not even incurring a performance hit; we're just making the borrow checker happy :)

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