10-commr

目标:实现 comm 命令

实现

· 枚举 Column

```
Rust

1  #[derive(Debug)]
2  enum Column<'a> {
3     Col1(&'a str),
4     Col2(&'a str),
5     Col3(&'a str),
6 }
```

·处理主流程

```
Rust
 1
    pub fn run(config: Config) -> MyResult<()> {
 2
        let file1 = &config.file1;
 4
        let file2 = &config.file2;
 5
        if file1 == "-" && file2 == "-" {
 6
 7
             return Err(From::from("Both input files cannot be STDIN (\"-\")"));
        }
 8
 9
        let case = |line: String| {
10
            if config.insensitive {
11
                line.to_lowercase()
12
            } else {
13
                 line
14
            }
15
        };
16
17
        let mut lines1 = open(file1)?.lines().filter_map(Result::ok).map(case);
18
        let mut lines2 = open(file2)?.lines().filter_map(Result::ok).map(case);
19
20
```

```
21
        let print = |col: Column| {
            let mut columns = vec![];
22
23
            match col {
                Col1(val) => {
24
                     if config.show_col1 {
25
                         columns.push(val);
26
27
                     }
28
                Col2(val) => {
29
                     if config.show_col2 {
30
                         if config.show_col1 {
31
                             columns.push("");
32
33
                         }
                         columns.push(val);
34
35
                     }
36
                Col3(val) => {
37
                     if config.show_col3 {
38
                         if config.show_col1 {
39
                             columns.push("");
40
                         }
41
                         if config.show_col2 {
42
                             columns.push("");
43
44
                         }
45
                         columns.push(val);
                     }
46
                }
47
            };
48
49
50
            if !columns.is_empty() {
                 println!("{}", columns.join(&config.delimiter));
51
            }
52
53
        };
54
        let mut line1 = lines1.next();
55
        let mut line2 = lines2.next();
56
57
        while line1.is_some() || line2.is_some() {
58
            match (&line1, &line2) {
59
60
                 (Some(val1), Some(val2)) => match val1.cmp(val2) {
                     Equal => {
61
                         print(Col3(val1));
62
                         line1 = lines1.next();
63
                         line2 = lines2.next();
64
65
                     }
                     Less => {
66
67
                         print(Col1(val1));
62
                         line1 - lines1 nev+().
```

```
OO
                          LINET - LINEST.NEXL(),
69
                     Greater => {
70
                         print(Col2(val2));
71
                         line2 = lines2.next();
72
                     }
73
74
                 },
                 (Some(val1), None) => {
75
                     print(Col1(val1));
76
                     line1 = lines1.next();
77
                 }
78
                 (None, Some(val2)) => {
79
                     print(Col2(val2));
80
                     line2 = lines2.next();
81
82
                 }
                 _ => (),
83
84
            }
        }
85
86
        0k(())
87
   }
88
```

- You can choose when to advance any iterator by using Iterator::next. For instance, when used with a filehandle, you can manually select the next line.
- · You can use match on combinations of possibilities by grouping them into a tuple. (用 tuple 做 match)
- You can use the cmp method of the Ord trait to compare one value to another. The result is a variant of std::cmp::Ordering.