

temp.rs

```
1  async fn task_a(
2      mut receiver: UnboundedReceiver<Data>,
3      send_to_b: UnboundedSender<Data>,
4      _send_to_c: UnboundedSender<Data>,
5      send_to_d: UnboundedSender<Data>,
6  ) {
7      let initial_data = receiver.recv().await.unwrap();
8      send_to_b.send(initial_data).unwrap();
9      send_to_d.send(initial_data).unwrap();
10
11     let intermediate_data = receiver.recv().await.unwrap();
12     let result = (intermediate_data + initial_data) * 0.7;
13     send_to_b.send(result).unwrap();
14 }
15 async fn task_b(
16     mut receiver: UnboundedReceiver<Data>,
17     send_to_a: UnboundedSender<Data>,
18     send_to_c: UnboundedSender<Data>,
19     _send_to_d: UnboundedSender<Data>,
20 ) {
21     let initial_data = receiver.recv().await.unwrap();
22
23     let intermediate_data = initial_data.powi(3);
24     send_to_a.send(intermediate_data).unwrap();
25     send_to_c.send(intermediate_data).unwrap();
26
27     let first_summand = receiver.recv().await.unwrap();
28     let second_summand = receiver.recv().await.unwrap();
29     let third_summand = receiver.recv().await.unwrap();
30     let result = first_summand + second_summand + third_summand;
31     println!("[B] BINGO: {result}");
32 }
33 async fn task_c(
34     mut receiver: UnboundedReceiver<Data>,
35     mut file: UnboundedReceiver<Data>,
36     _send_to_a: UnboundedSender<Data>,
37     send_to_b: UnboundedSender<Data>,
38     send_to_d: UnboundedSender<Data>,
39 ) {
40     let initial_data = receiver.recv().await.unwrap();
41
42     let intermediate_data = initial_data.powi(3);
43     send_to_d.send(intermediate_data).unwrap();
44
45     let file_content = file.recv().await.unwrap();
46     send_to_b.send(file_content).unwrap();
47 }
48 async fn task_d(
49     mut receiver: UnboundedReceiver<Data>,
50     _send_to_a: UnboundedSender<Data>,
51     send_to_b: UnboundedSender<Data>,
52     _send_to_c: UnboundedSender<Data>,
53 ) {
54     let first_input = receiver.recv().await.unwrap();
55     let second_input = receiver.recv().await.unwrap();
56
57     let result = (first_input * second_input) / (first_input + second_input);
58     send_to_b.send(result).unwrap();
59 }
60
```