

Name <i>string</i>	Abhijit
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Role <i>string</i>	Go Dev
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nameptr <i>*string</i>	0xc000010070
------------------------	--------------

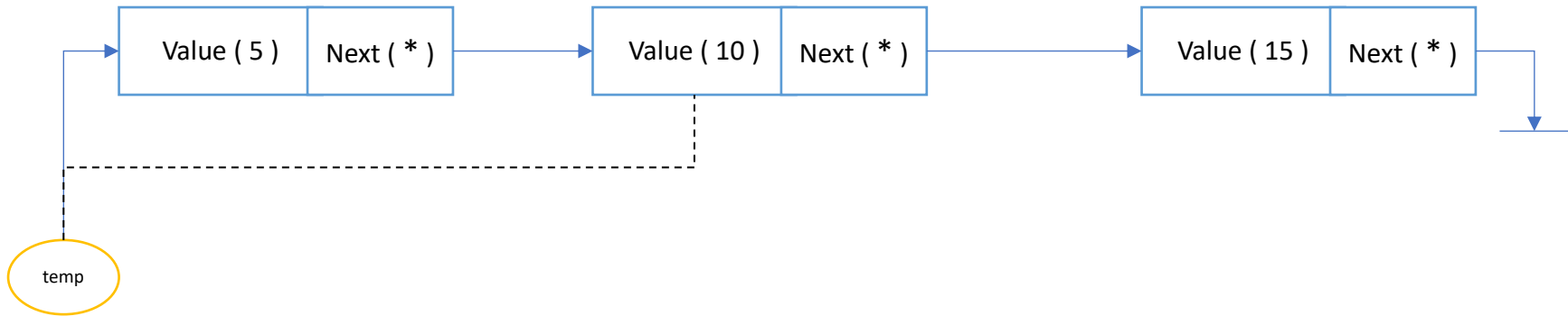
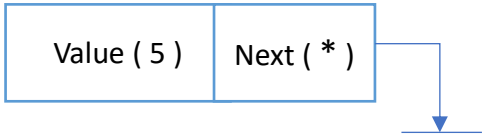
aPtr <i>*string</i>	nil
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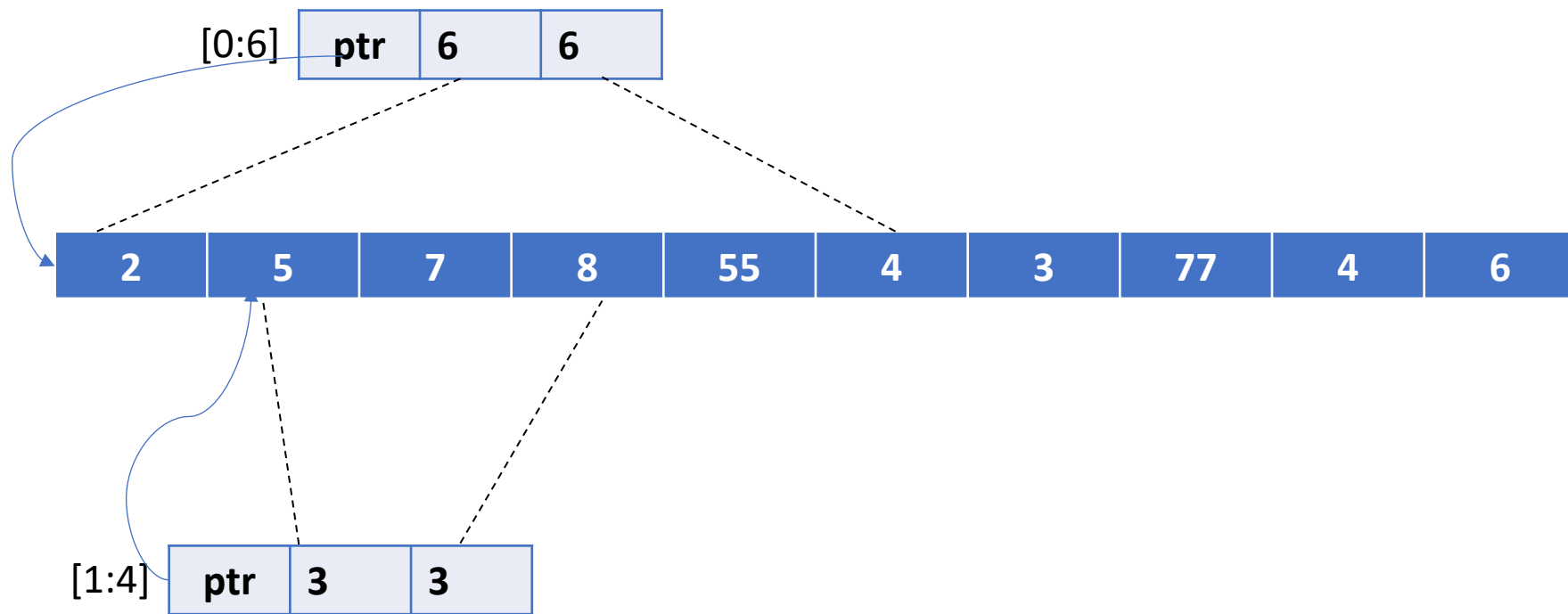
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Copy by pointer

copyptr <i>*string</i>	0xc000010070
------------------------	--------------





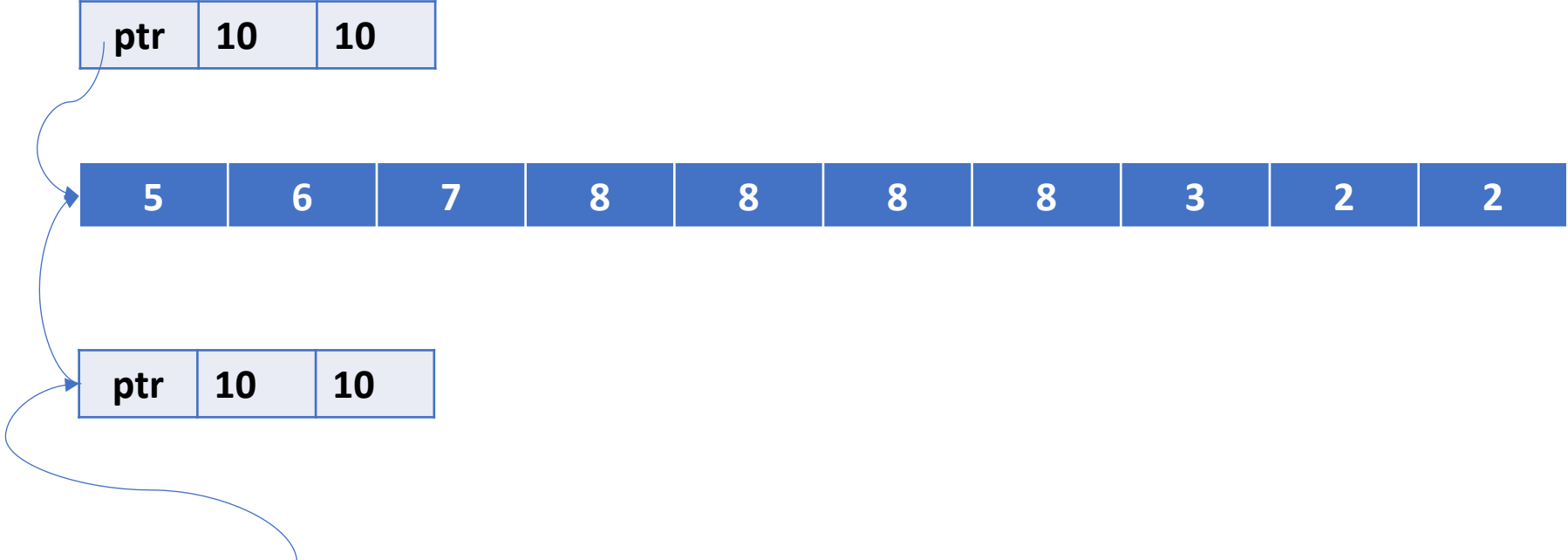


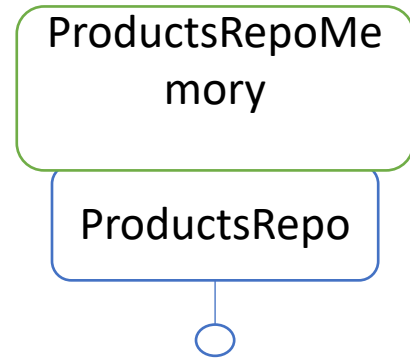
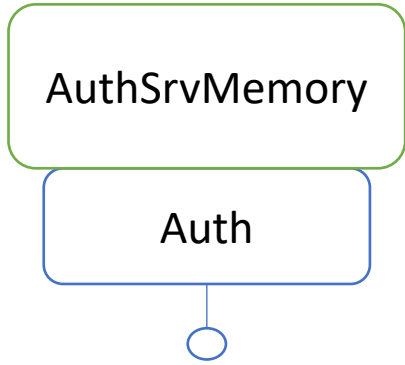
ptr	10	10
-----	----	----

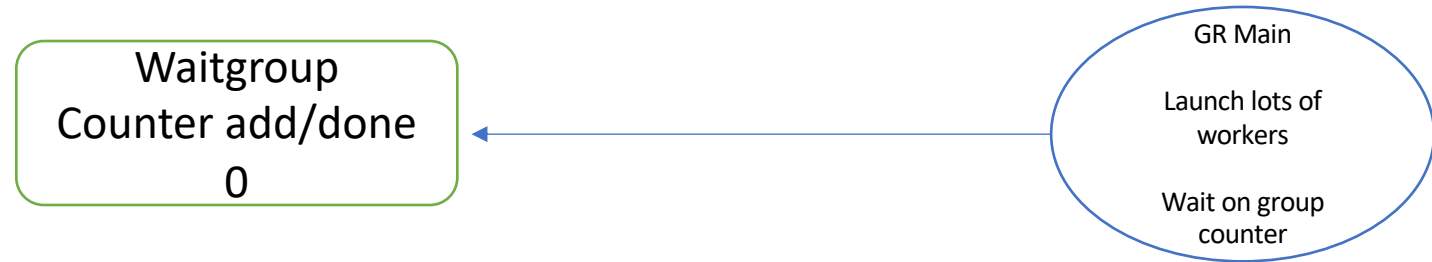
5	6	7	8	8	8	8	3	2	2
---	---	---	---	---	---	---	---	---	---

ptr	10	10
-----	----	----

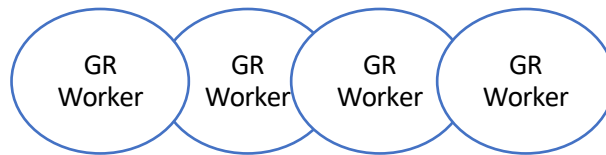
Copy by pointer	0xc000010070
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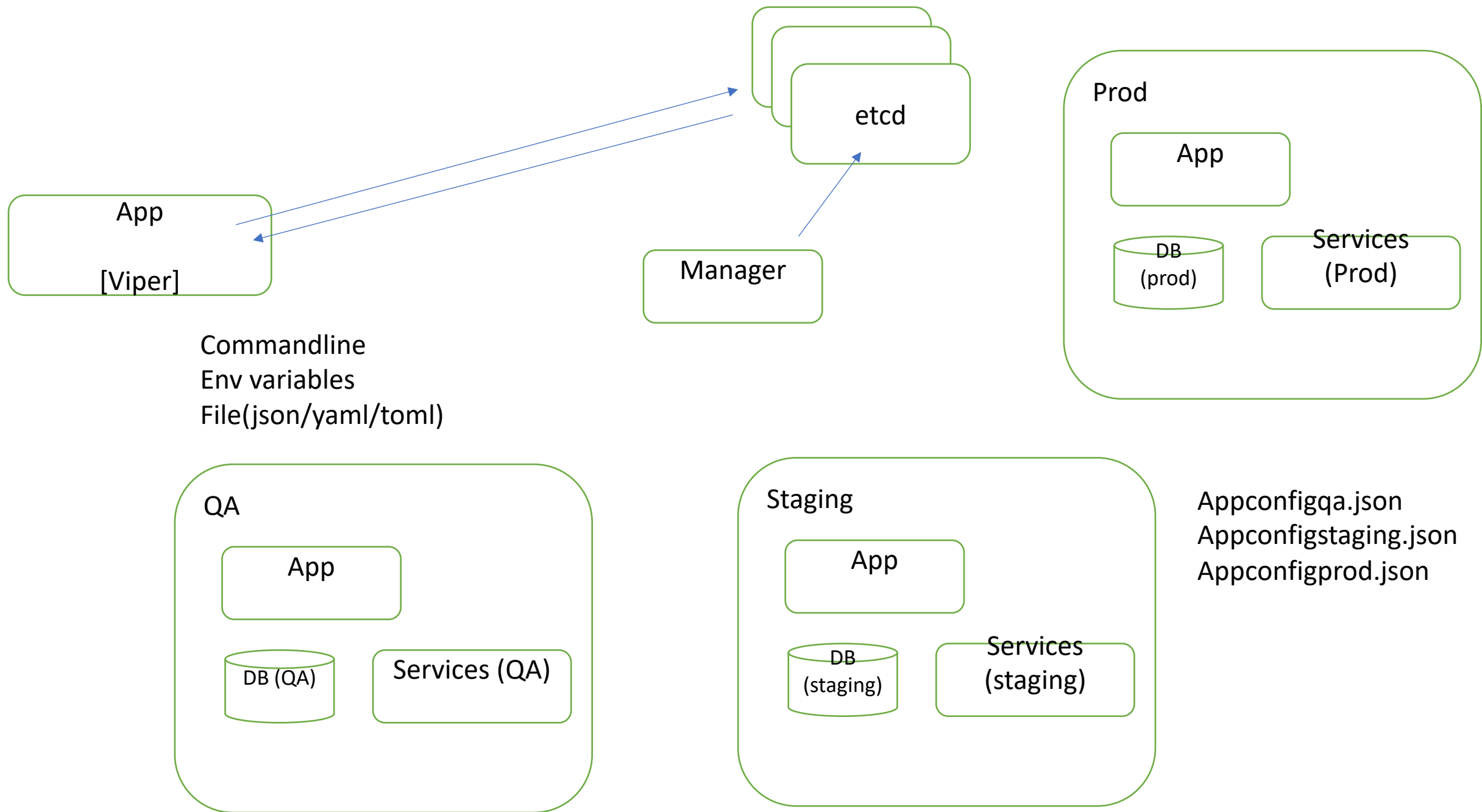


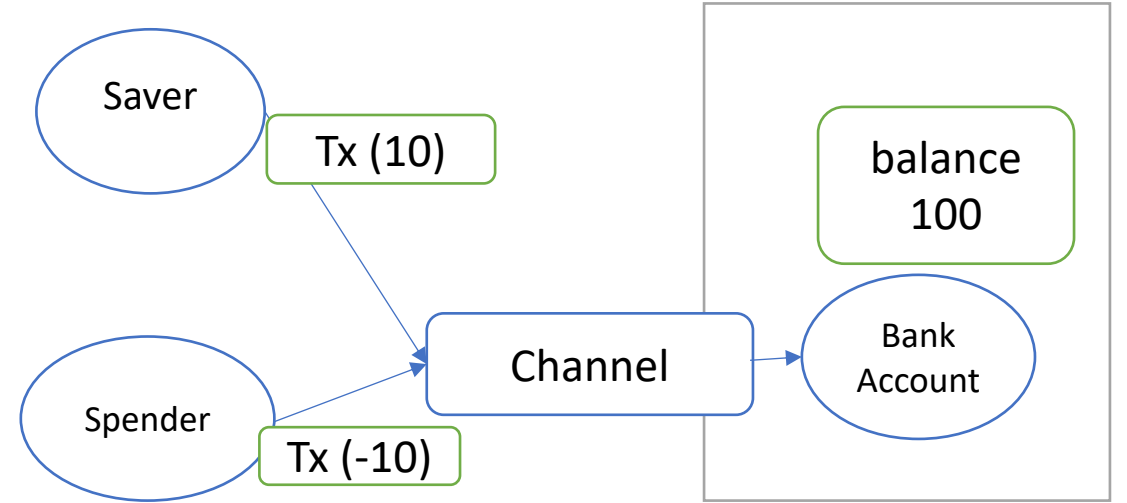
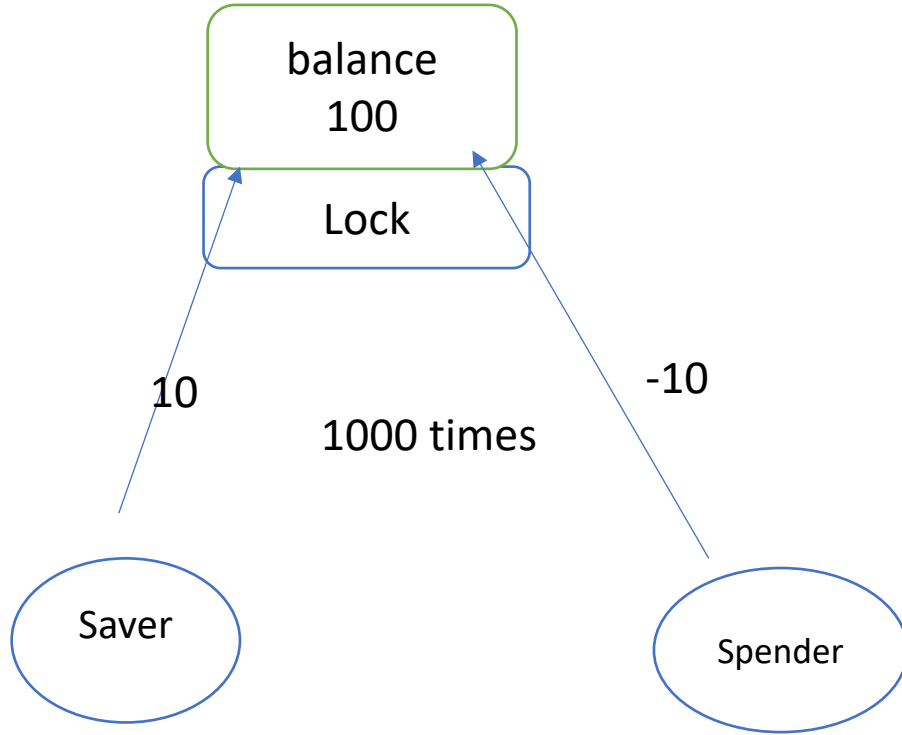




Each routine notifies when done to waitgroup



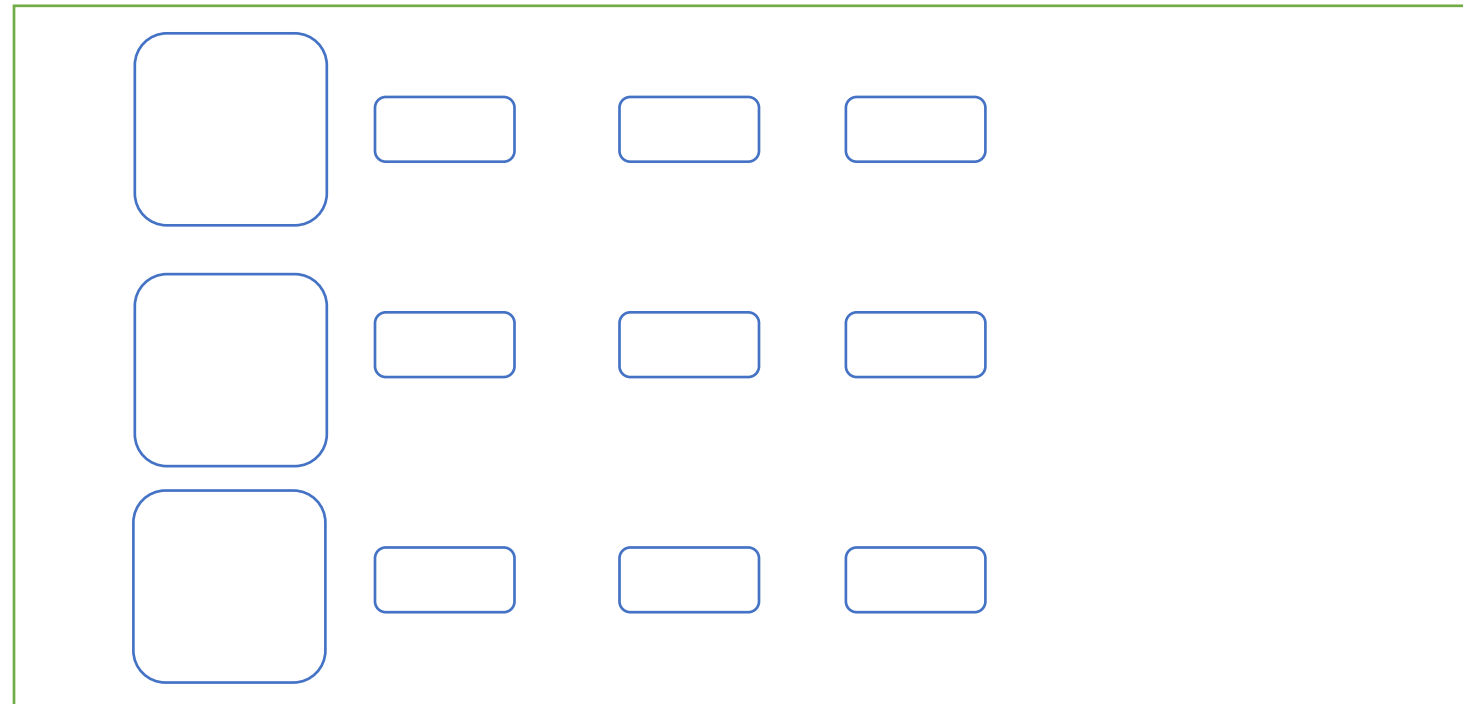






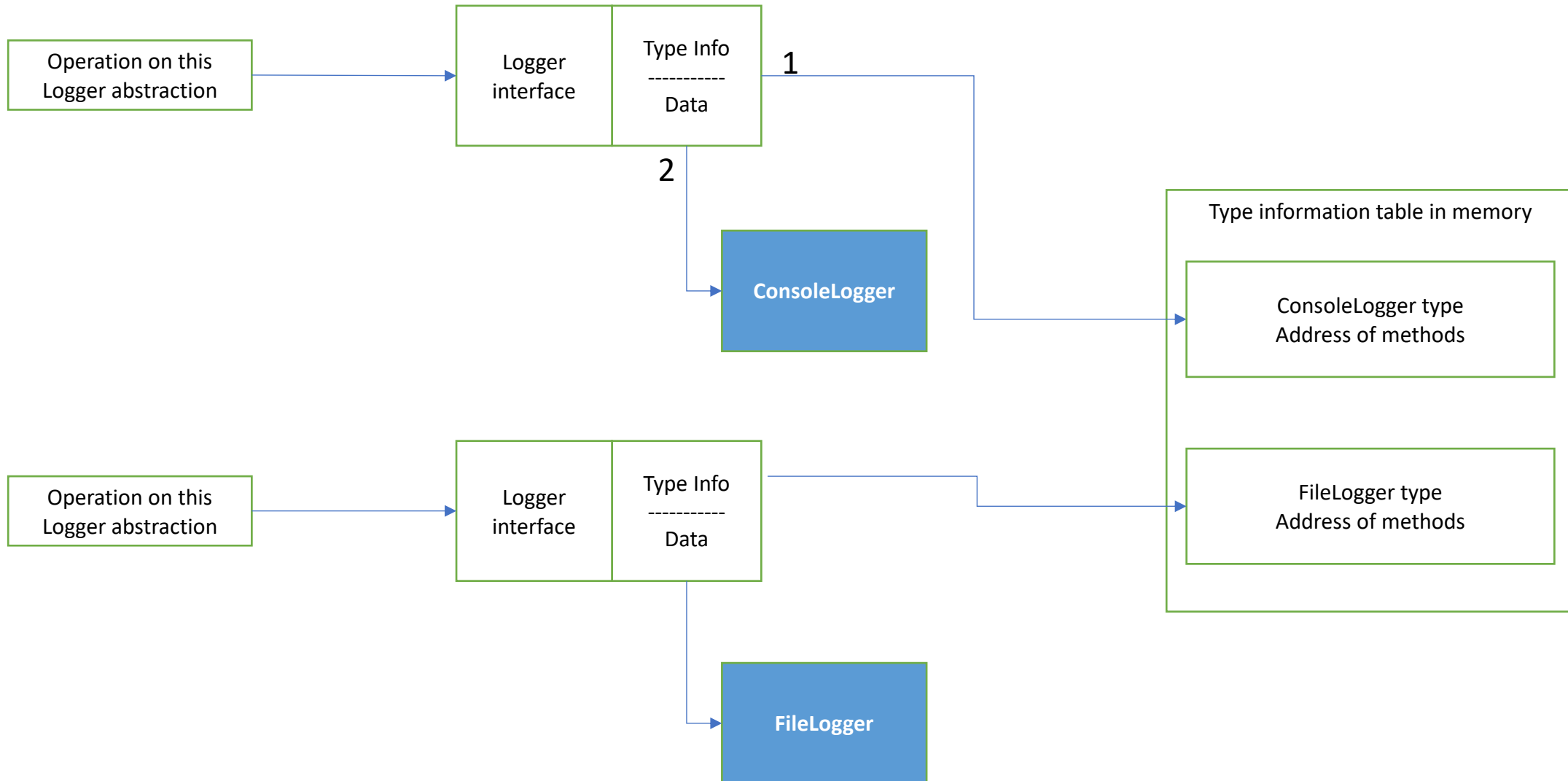
Electronics      1000  
Mobile              1001

key	value
Electronics	10
Mobile	5
Grocery	4
etc	15
..	
..	



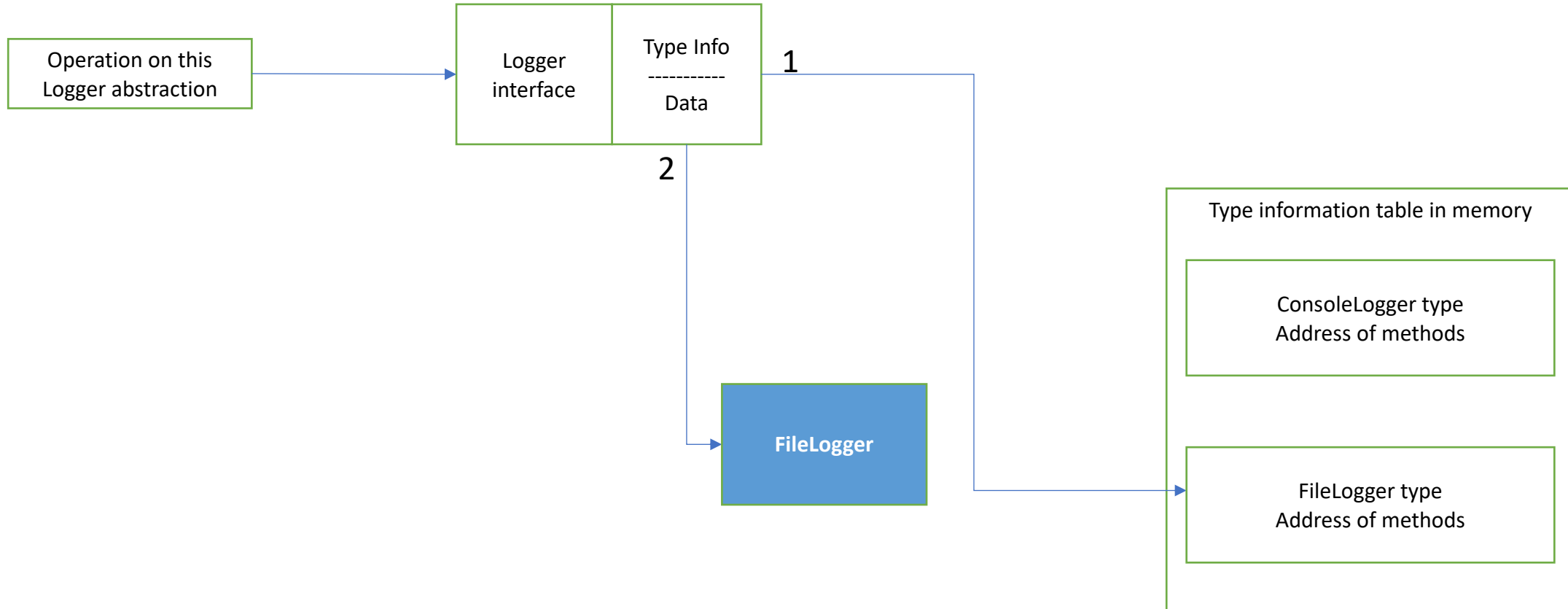
Interface points to or \*contains 2 things:

- 1) Type info
- 2) Data, which is actual instance in memory



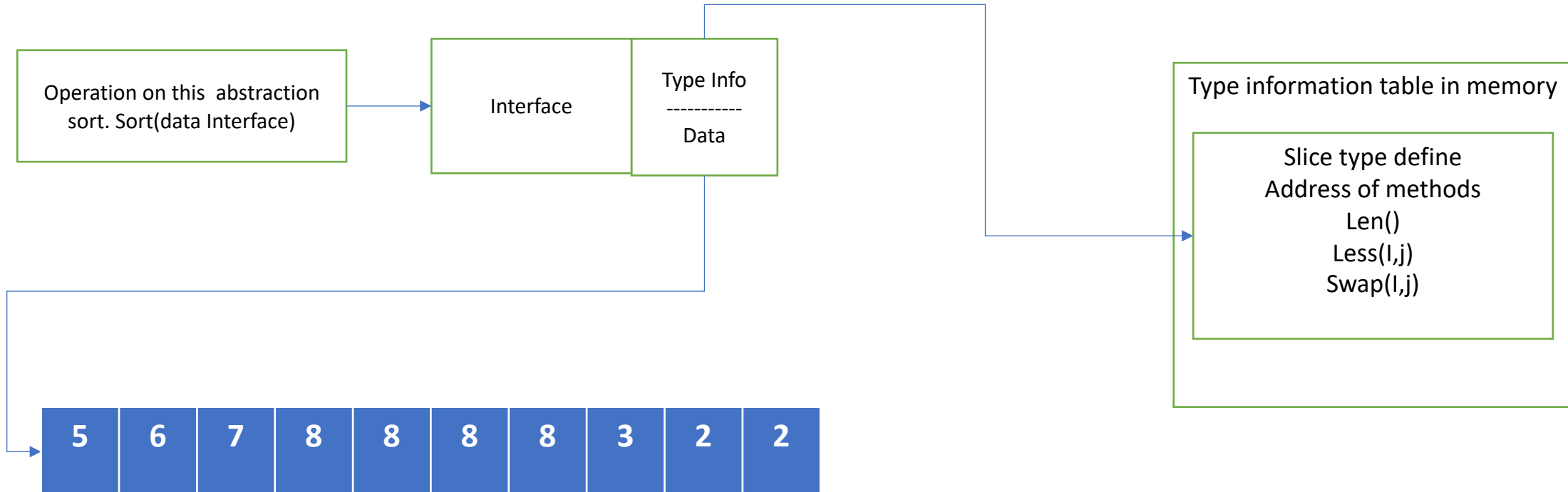
Interface points to or \*contains 2 things:

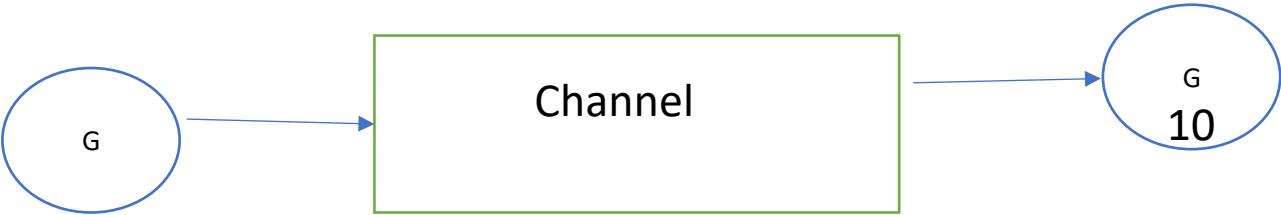
- 1) Type info
- 2) Data, which is actual instance in memory

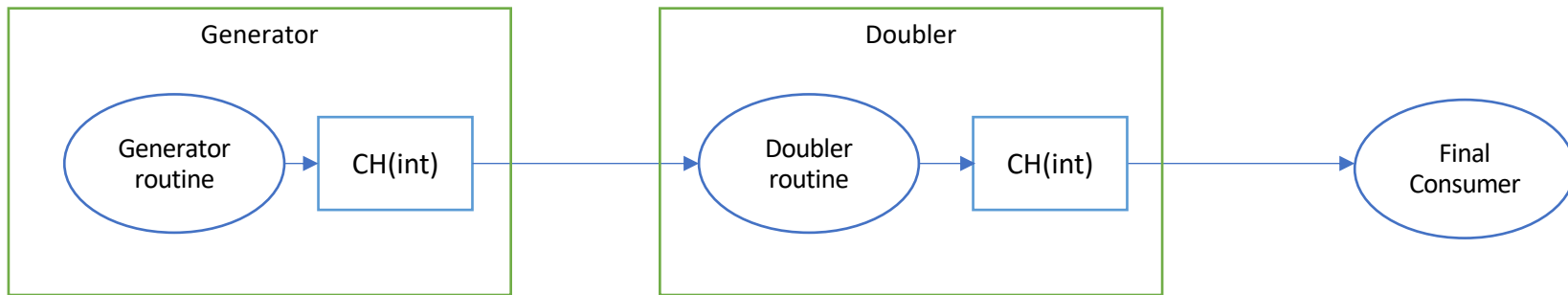


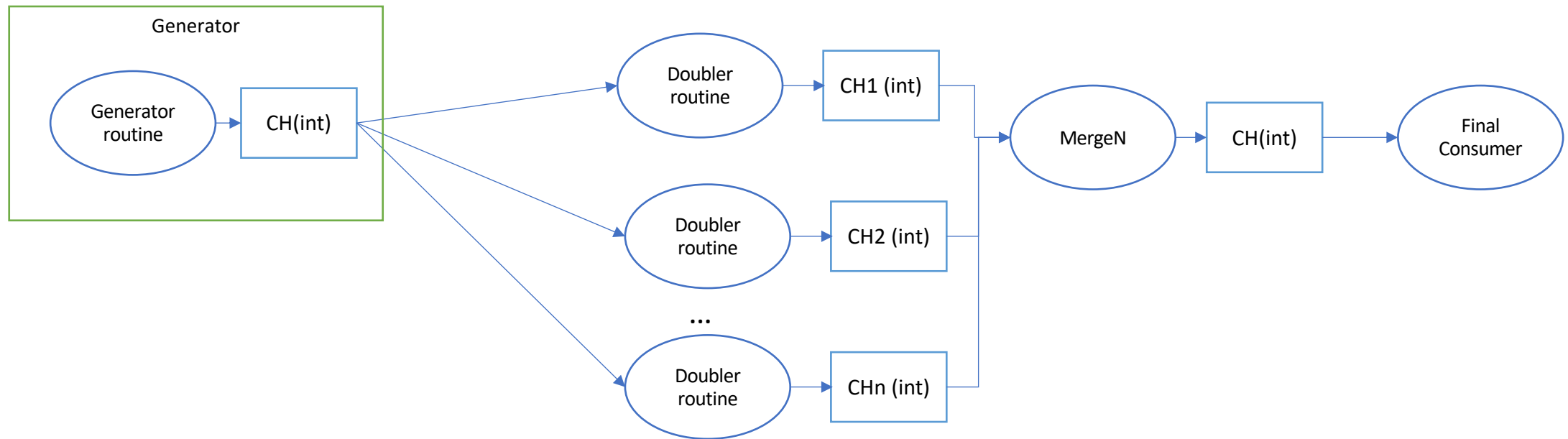
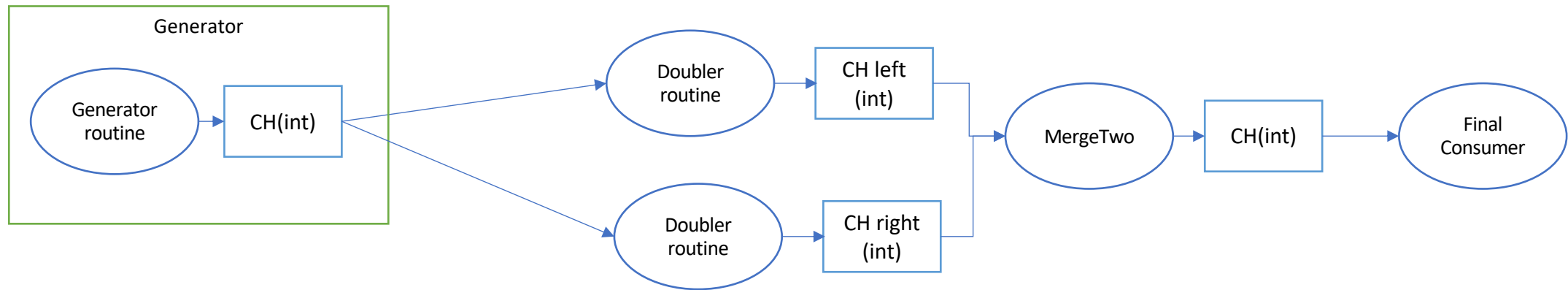
<https://pkg.go.dev/sort>

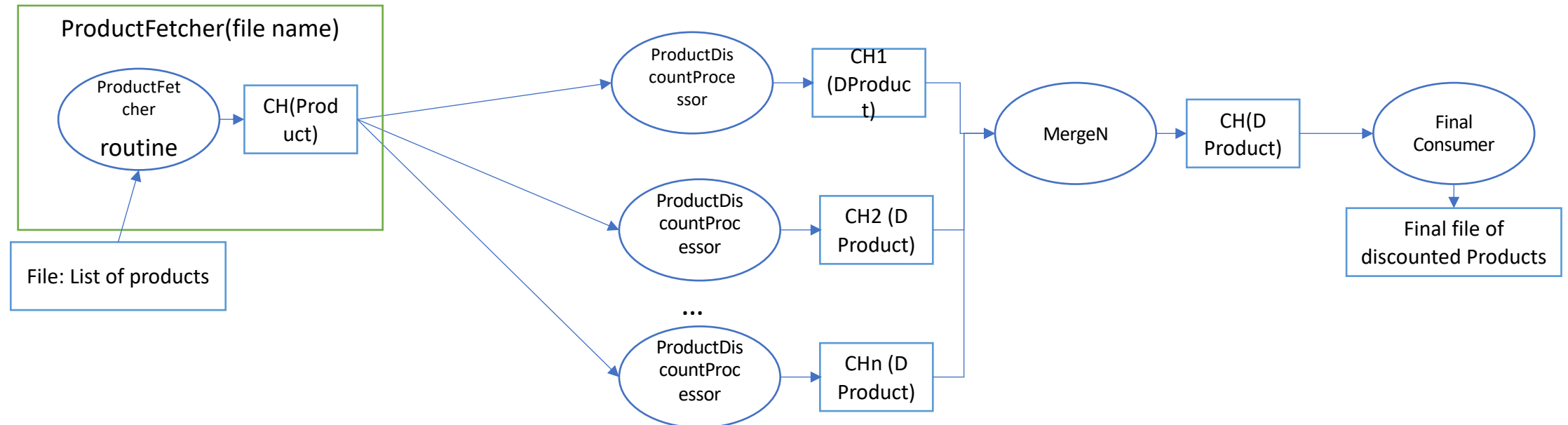
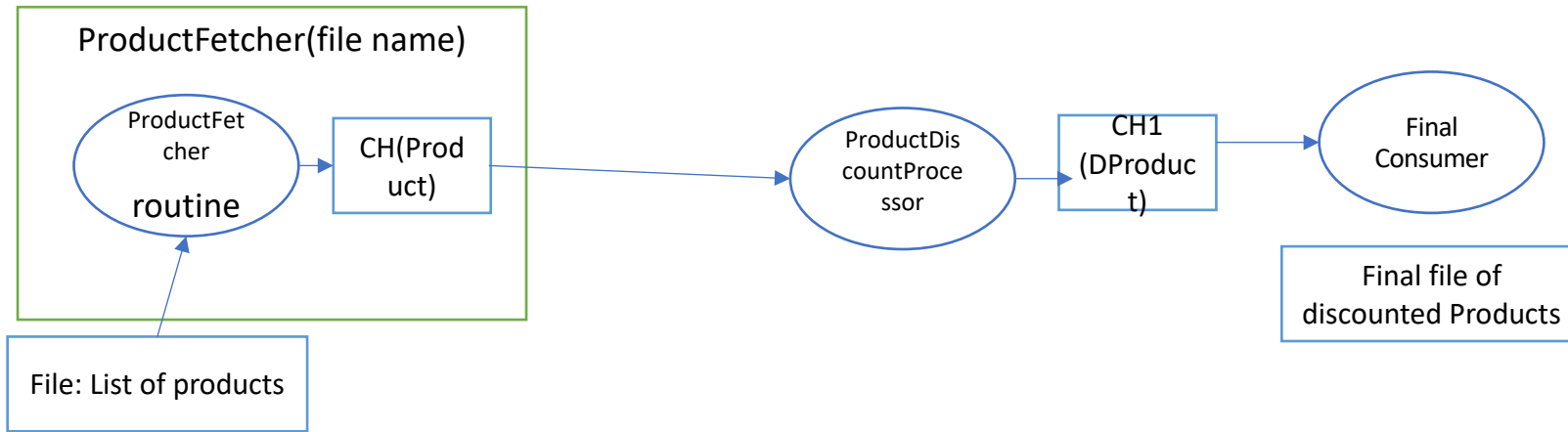
```
type Interface interface {  
    Len() int  
    Less(i, j int) bool  
    Swap(i, j int)  
}
```











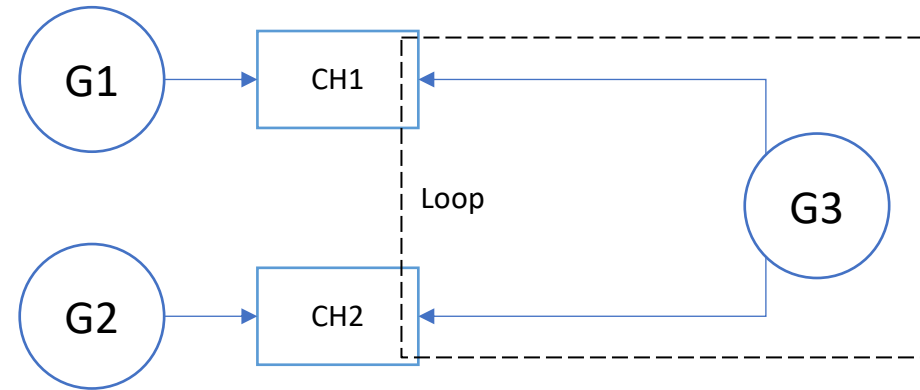


G1 is slow producer

G2 is fast producer

G3 is reading CH1 and then CH2

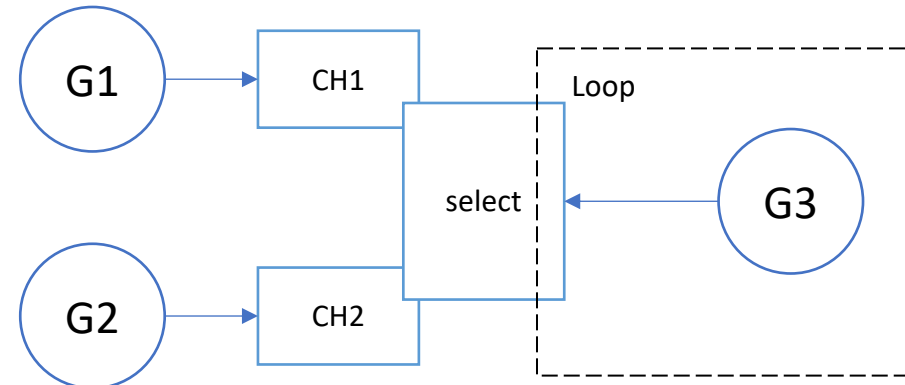
This will block G2 from producing values fast. Since it cannot send further values unless G3 reads them fast



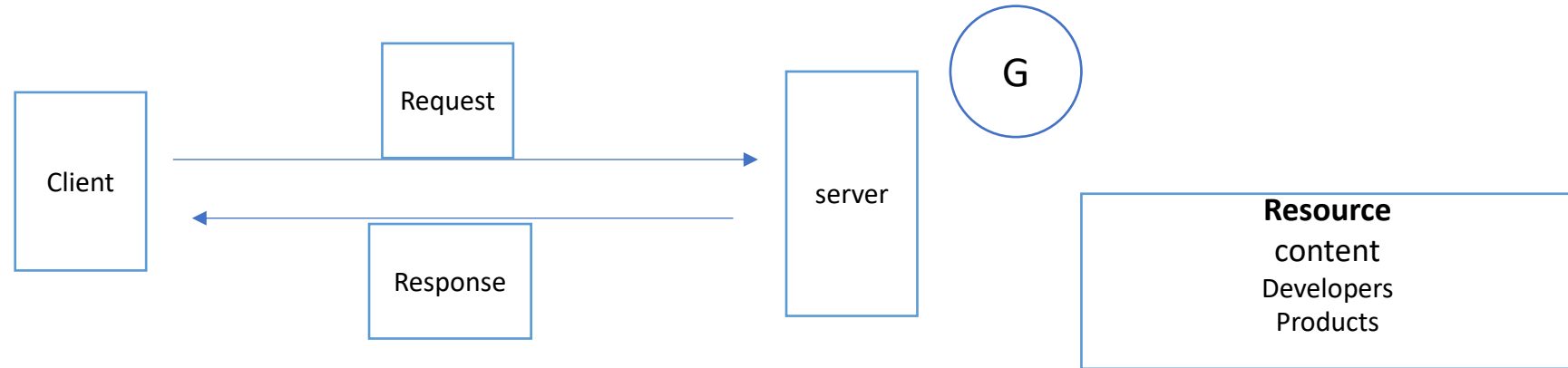
select will let G3 know if there is activity on CH1 or CH2.

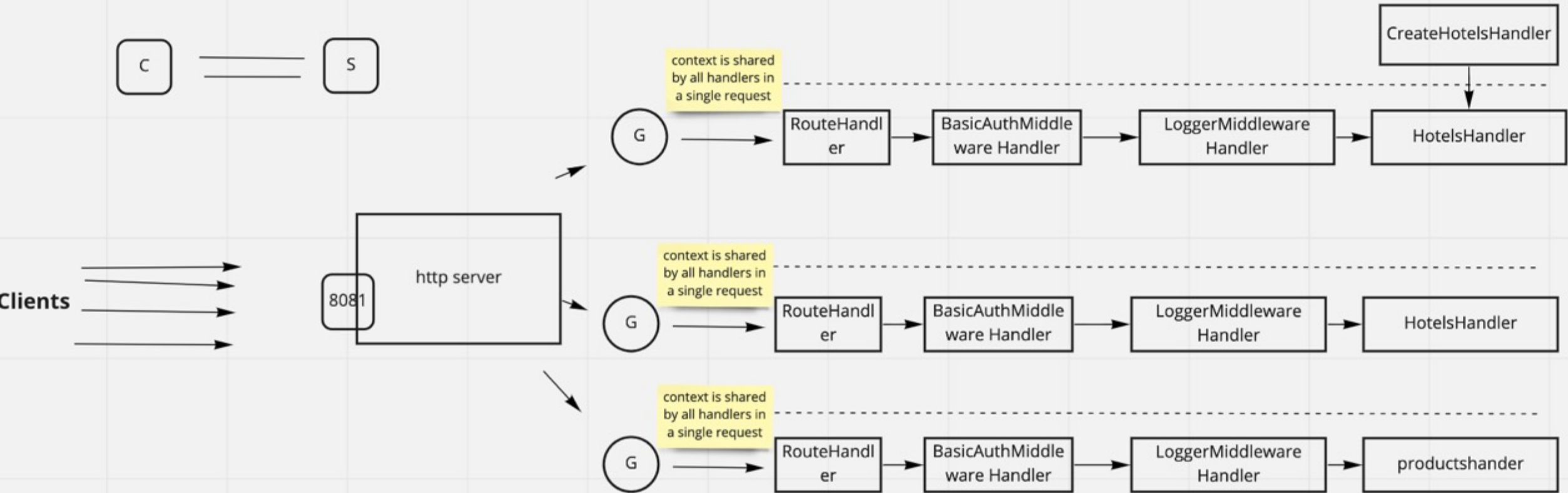
Without a default case select is blocking

If you add a default case, then it is non blocking



Go routine for every http request concurrently





```
type Handler interface {
    ServeHTTP(ResponseWriter, *Request)
}
```

```
func(http.ResponseWriter, *http.Request)
```

Adapter for interface to simple handler: (gives equivalent of functional interface in java)

```
type HandlerFunc func(ResponseWriter, *Request)
```

```
// ServeHTTP calls f(w, r).
```

```
func (f HandlerFunc) ServeHTTP(w ResponseWriter, r *Request) {
    f(w, r)
}
```