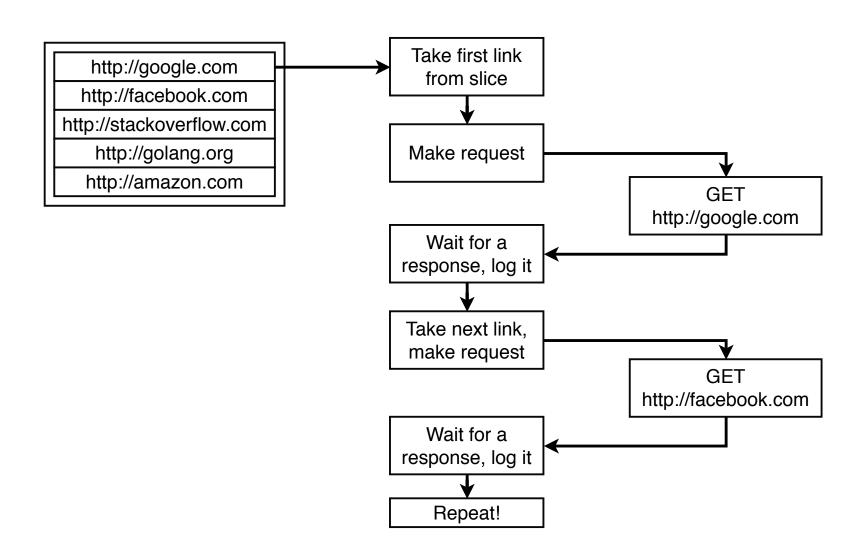
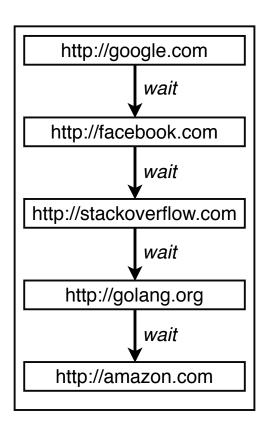
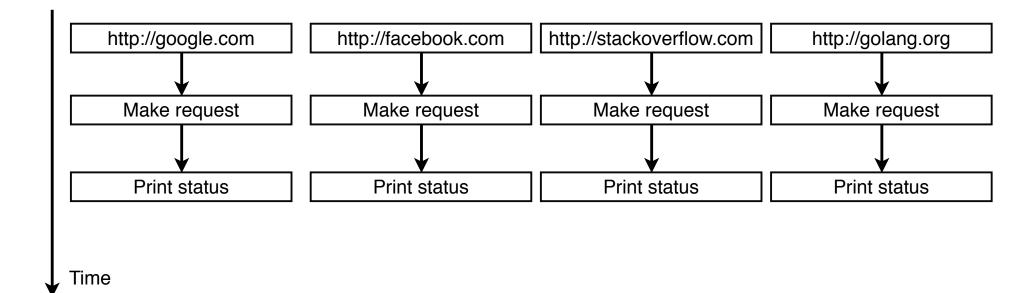


m	
	1







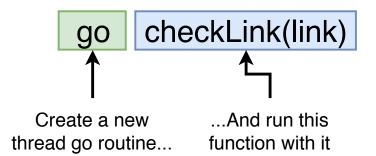
Our Running Program (a process)

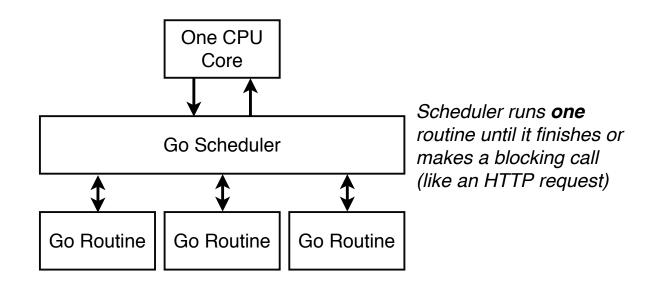
Go Routine

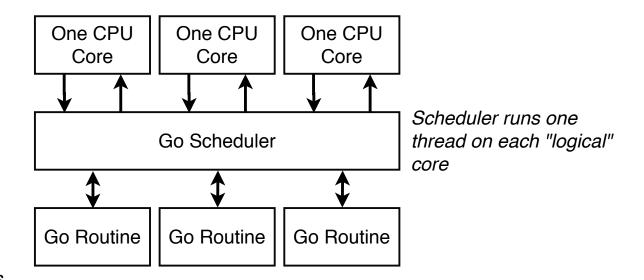
Engine that executes code

```
func main() {
                         links:= []string{
                          "http://google.com",
                          "http://amazon.com",
                        for_, link:=range links {
                          checkLink(link)
Main Go
Routine
                       func checkLink(link string) {
                                                                   Blocking
                        _, err:= http.Get(link)
                                                                   call!
                        if err !=nil {
                          fmt.Println(link, "might be down!")
                          return
                        fmt.Println(link, "is up!")
```

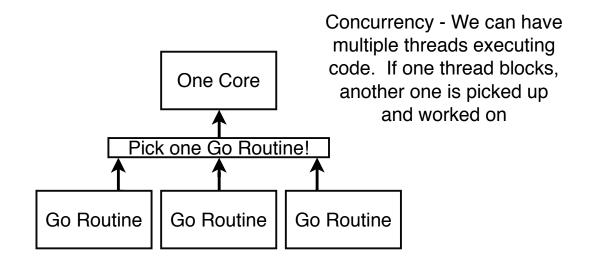
```
func main() {
                                                                             func checkLink(linkstring) {
                            links:= []string{
                                                                              _,err:=http.Get(link)
                             "http://google.com",
                                                                              iferr!=nil{
                                                                               fmt.Println(link,"might be down!")
                             "http://amazon.com",
Main Routine
                                                         Go Routine
                                                                               return
                            for_, link:=range links {
                                                                              fmt.Println(link,"is up!")
                             go checkLink(link)
                                                                          func checkLink(linkstring) {
                                                                            _,err:=http.Get(link)
                                                                            iferr!=nil{
                                                       Go Routine
                                                                             fmt.Println(link,"might be down!")
                                                                             return
                                                                           fmt.Println(link,"is up!")
```

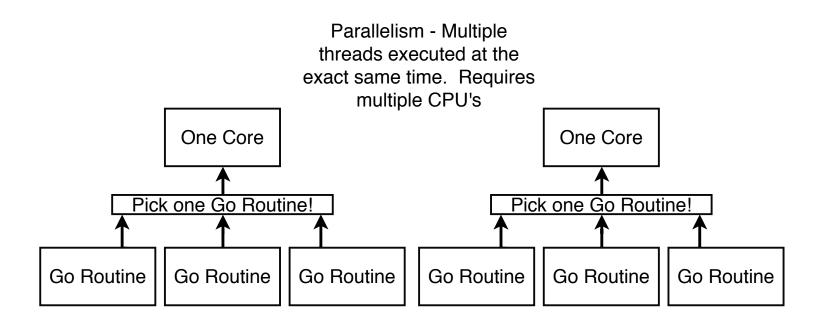


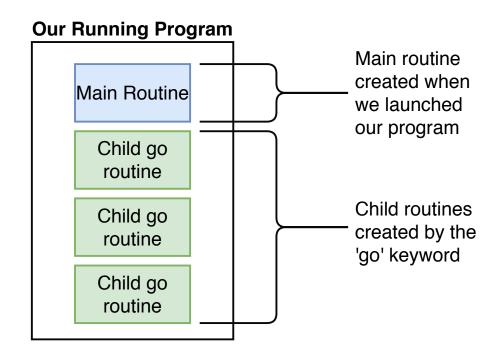


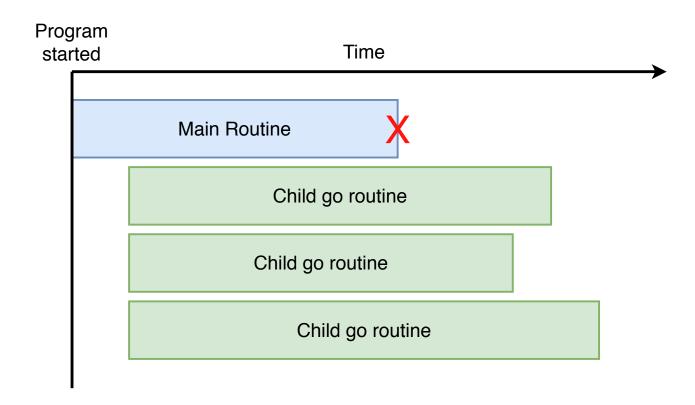


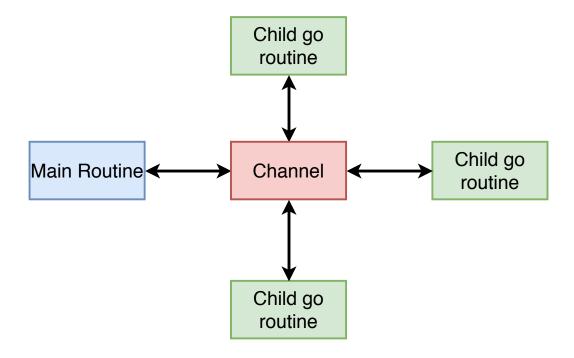
By default Go tries to use one core!

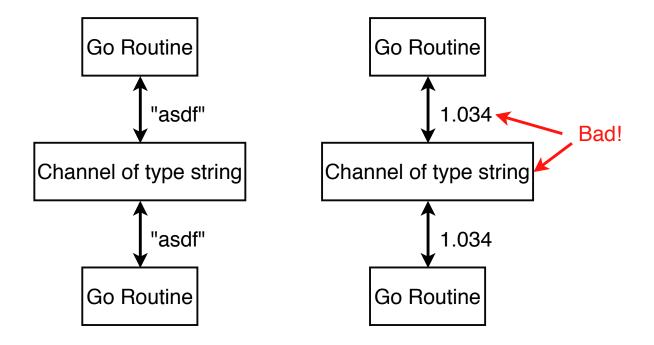


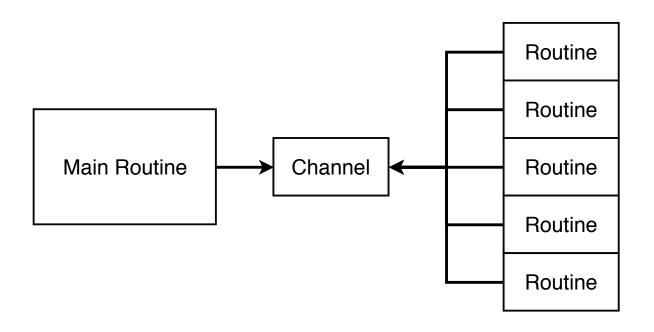












Sending Data with Channels

channel <- 5

Send the value '5' into this channel

myNumber <- channel

Wait for a value to be sent into the channel. When we get one, assign the value to 'myNumber'

fmt.Println(<- channel)</pre>

Wait for a value to be sent into the channel. When we get one, log it out immediately

```
func main() {
    links:= []string{
        "http://google.com",

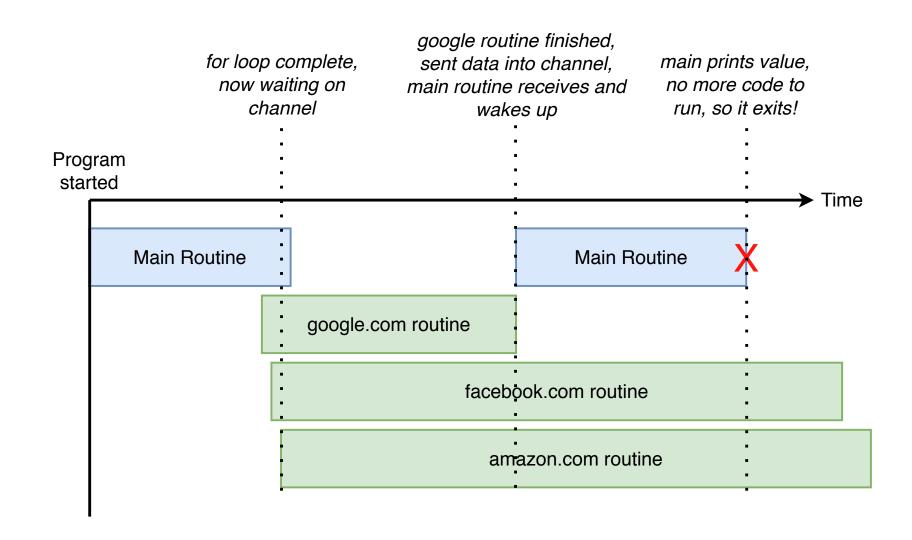
        "http://amazon.com",
      }

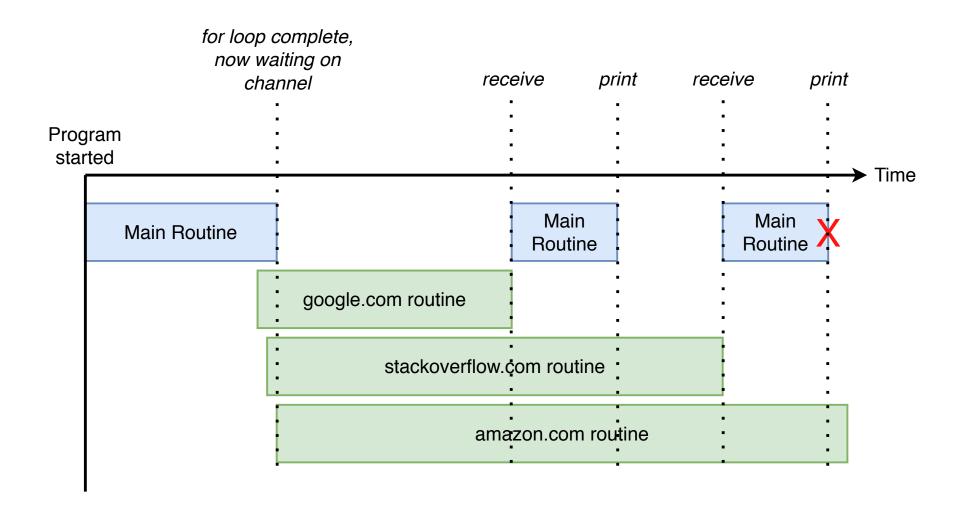
c := make(chan string)

for_, link:=range links {
    go checkLink(link, c)
    }

fmt.Println(<- c)
}
```

```
func checkLink(link string, c chan string) {
    __,err:=http.Get(link)
    if err!=nil{
        fmt.Println(link,"might be down!")
        c <-"Might be down I think"
        return
    }
    fmt.Println(link,"is up!")
    c <-"Yep its up"
}
```





Program started Time google.com routine google.com routine stackoverflow.com routine stackoverflow.com routine amazon.com routine amazon.com routine

Program started Main Routine google.com routine google.com routine stackoverflow.com routine amazon.com routine amazon.com routine amazon.com routine

