1. Write a program to find the min(or max) value.

   x := [ ]int{38,76,65,48,52,28,36,60,33,39, 9, 19,28,84,19,26}

<소스코드>

```go
package main

import "fmt"

func main(){
  x := []int{38, 76, 65, 48, 52, 28, 36, 60, 33, 39, 9, 19, 28, 84, 19, 26}

  arrLen := 15
  max := x[0]
  min := x[0]

  for i := 0; i < arrLen; i++{
    if(max > x[i]){
      max = max
    } else{
      max = x[i]
    }
  }
  for j := 0; j < arrLen; j++{
    if(min < x[j]){
      min = min
    } else{
      min = x[j]
    }
  }
  fmt.Println("max value: ",max)
  fmt.Println("min value: ",min)
}
```

<실행화면>

```
max value:   84
min value:    9
```

2. Write a function to find the min (or max) value in the variable number of arguments.

<소스코드>

```go
package main
import "fmt"

var n int

func Find_to_Max(arr [10000]int)int{
    max := arr[0]
    for i:= 0; i < n; i++{
        if max > arr[i]{
            max = max
        } else{
            max = arr[i]
        }
    }
    return max
}

func Find_to_Min(arr [10000]int)int{
    min := arr[0]
    for i := 0; i < n; i++{
        if min < arr[i] {
            min = min
        }else{
```

```go
            min = arr[i]
        }
    }
    return min
}


func main(){
    var x[10000]int
    var s1 int
    fmt.Println("몇개의 정수를 입력받으시겠습니까? ")
    fmt.Scan(&n)
    for i := 0; i < n; i++{
        fmt.Printf("%d번째 정수 : ", i+1)
        fmt.Scan(&s1)
        x[i] = s1
        fmt.Printf("x[%d] : ",i+1)
        fmt.Println(x[i])
    }


    fmt.Println("max value : ", Find_to_Max(x))
    fmt.Println("min value : ", Find_to_Min(x))
}
```

<실행화면>

```
몇개의 정수를 입력받으시겠습니까?
10
1번째 정수 : 19
x[1] : 19
2번째 정수 : 31
x[2] : 31
3번째 정수 : -61
x[3] : -61
4번째 정수 : 3
x[4] : 3
5번째 정수 : 0
x[5] : 0
6번째 정수 : -1
x[6] : -1
7번째 정수 : 100
x[7] : 100
8번째 정수 : 2018
x[8] : 2018
9번째 정수 : -1000
x[9] : -1000
10번째 정수 : 23
x[10] : 23
max value :  2018
min value :  -1000
```

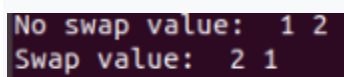# 3. A function swap(&x, &y)to exchange x and y.

<소스코드>

```go
package main

import "fmt"
func swap(x ,y *int){
   temp := *x
   *x = *y
   *y = temp
}
func main(){
   x:= int(1)
   y:= int(2)
   fmt.Println("No swap value: ",x, y)
   swap(&x, &y)
   fmt.Println("Swap value: ",x, y)
}
```

<실행화면>

```
No swap value:  1 2
Swap value:  2 1
```

4. Wirte a closure for 'Fibonacci'. ("A tour of Go" number 44 and 66)

<소스코드>

```go
package main

import "fmt"


func fibonacci(n int, c chan int){

    x, y := 0, 1;

    for i := 0; i < n; i++{

        c <- x

        x, y = y, x+y

    }

    close(c)

}


func main(){

    c := make(chan int, 10)

    go fibonacci(cap(c), c)

    for i := range c{

        fmt.Println(i)

    }

}
```

<실행화면>

```
0
1
1
2
3
5
8
13
21
34
```