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UJIAN

1. Kode program (not complete):

```
package main
import "fmt"

type set[2022] int

//Ini adalah fungsi untuk mengembalikan nilai true apabila bilangan val ada di
dalam array T yang berisi sejumlah n bilangan bulangan
func exist(t[] int, n int, val int) bool{

}

//
func inputSet(T *[] int, n *int){

}

//
func findIntersection(T1, T2 [] int, n, m int, T3 *[], h *int){

}

//
func prinSet(T[], n int){

}

func main(){
    var s1_2311102253, s2, s3 [] int
    var n1, n2, n3 int
    inputSet(&s1_2311102253, &n1)
    inputSet(&s2, &n2)
    findIntersection(s3, n3)
}
```

2. Kode program (Not complete):

```
package main

import "fmt"

const nMax int = 51

//Struct untuk mendeklarasikan tipe data mahasiswa
type mahasiswa struct {
    nim    string
    nama   string
    nilai  int
}

type arrayMahasiswa struct {
    mahasiswa []int
}

func main() {
    var n_2311102253 int

    fmt.Print("Masukan banyak data: ")
    fmt.Scan(&n_2311102253)

    arr := make([]int, n_2311102253)

    fmt.Print("Masukkan nilai array: ")
    for i := 0; i < n_2311102253; i++ {
        fmt.Scan(&arr[i])
    }

    for i := 0; i < n_2311102253; i++ {
        fmt.Print(arr[i])
    }
}
```

3. Kode program (not complete):

```
package main
import(
    "fmt"
    "strings"
)

const nProv int = 34
type NamaProv = array[nProv] string
type PopProv = array[nProv] int
type TumbuhProv = array[nProv] float64

func InputData(prov[NamaProv], pop[PopProv], tumbuh[TumbuhProv]){

}

func ProvinsiTercepat(tumbuh[TumbuhProv]) int{

}

func Prediksi(prov[NamaProv], pop[PopProv], tumbuh[TumbuhProv]){

}

func IndeksProvinsi(prov[NamaProv], nama string) int{

}
```

4. Kode program (Complete):

```
package main

//Menggunakan library tambahan untuk mempermudah pembuatan program
import (
    "bufio"
    "fmt"
    "os"
    "strconv"
    "strings"
)

func selectionSort(T_2311102253 []int) {
    n := len(T_2311102253)
    for i := 0; i < n-1; i++ {
```

```

        minIdx := i
        for j := i + 1; j < n; j++ {
            if T_2311102253[j] < T_2311102253[minIdx] {
                minIdx = j
            }
        }
        T_2311102253[i], T_2311102253[minIdx] = T_2311102253[minIdx],
T_2311102253[i]
    }
}

// Fungsi ini berguna untuk mengetahui median pada program
func median(T_2311102253 []int) int {
    n := len(T_2311102253)
    if n%2 == 1 {
        return T_2311102253[n/2]
    }
    return (T_2311102253[n/2-1] + T_2311102253[n/2]) / 2
}

func main() {
    reader := bufio.NewReader(os.Stdin)

    fmt.Println("Masukkan data (akhiri dengan -5313541):")
    data := []int{}
    for {
        input, _ := reader.ReadString('\n')
        input = strings.TrimSpace(input)
        values := strings.Fields(input)

        for _, value := range values {
            num, _ := strconv.Atoi(value)

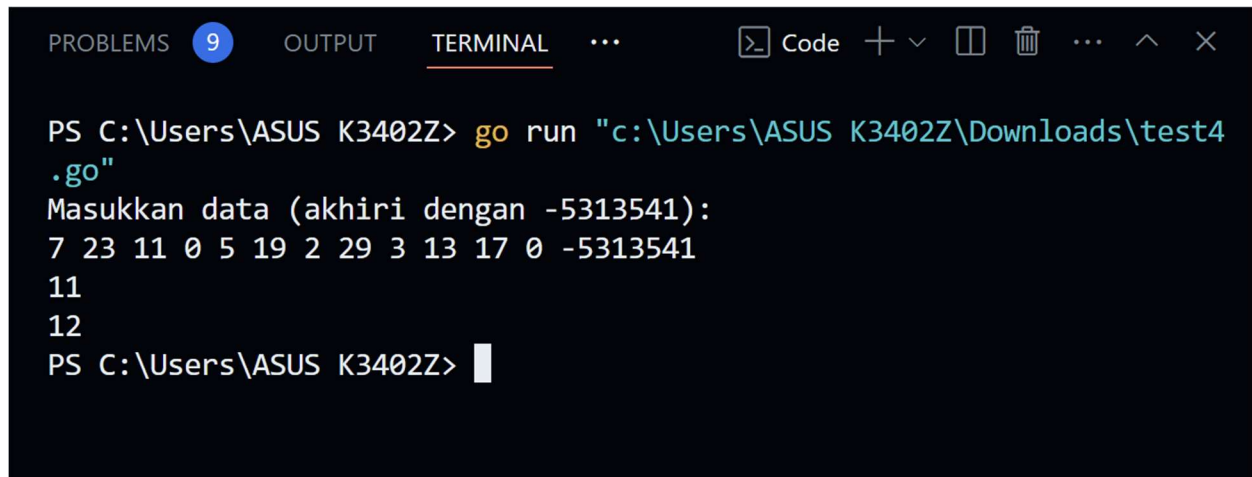
            if num == -5313541 {
                return
            }

            if num == 0 {
                selectionSort(data)
                median := median(data)
                fmt.Println(median)
            } else {
                data = append(data, num)
            }
        }
    }
}

```

```
}  
}
```

Screenshoot Output:



```
PROBLEMS 9 OUTPUT TERMINAL ... Code + - [ ] [ ] ... ^ X  
  
PS C:\Users\ASUS K3402Z> go run "c:\Users\ASUS K3402Z\Downloads\test4  
.go"  
Masukkan data (akhiri dengan -5313541):  
7 23 11 0 5 19 2 29 3 13 17 0 -5313541  
11  
12  
PS C:\Users\ASUS K3402Z> |
```

5. Kode program (not complete):

```
package main  
  
import "fmt"  
  
//const Nmax = 100000  
  
//type partai struct{  
//nama_partai int  
//}  
  
//var party[Nmax] int  
  
//  
func main() {  
    var n_2311102253 int  
  
    fmt.Print("Masukan banyak data: ")  
    fmt.Scan(&n_2311102253)  
  
    partai := make([]int, n_2311102253)  
  
    fmt.Print("Masukkan nilai array: ")  
    for i := 0; i < n_2311102253; i++ {
```

```
        fmt.Scan(&partai[i])
    }

    for i := 0; i < n_2311102253; i++ {
        fmt.Print(partai[i])
    }
}

//func posisi(t [] int, n int, nama int) int{
//}
```