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Soal 1

Sumber: https://id.gadget-info.com/difference-between-recursion

1.) Telenik relengif adalah letika p	penyataan dalam quatu fungs: memangg. p quatu looping.
fungs: itu sendini, sehingga mini	p quata looping.
Relears; f	Iteratif
- Diteraplem untuk Fuggi.	- Pitemplum chlam pernyataan itemsi
	/ 100p.
- Kecepalan lambat.	(- Elizaberii lebih capat.
- Pernyation regrange !! fungli ita) - Untuck me erjalanten inchante ; beardong
Sendini.	leali.

```
[10:27:01] khusyasy:tp-modul-13 $ go run <u>2.go</u> 9 3 5 7 1 2 4 6 8 0
```

```
package · main
     import "fmt"
     const \cdot NMAX \cdot = \cdot 10
     type·tabInt·[NMAX]int
     func · main() · {
     \rightarrow var arr tabInt = [NMAX]int{9, 3, 5, 7, 1, 2, 4, 6, 8, 0}
     printRekursif(arr, 0)
10
11
12
13
      func · printRekursif(arr · tabInt, · i · int) · {
     \rightarrow if i >= NMAX {
14
      →  fmt.Println()
15
     → → return
16
17
     fmt.Print(arr[i], " ")
18
     → printRekursif(arr, i+1)
19
20
21
```

```
[10:31:10] khusyasy:tp-modul-13 $ go run 3.go
n: 10000
5 digit
[10:31:14] khusyasy:tp-modul-13 $ go run 3.go
n: 3829371
7 digit
```

```
package · main
     import "fmt"
     func · main() · {
     → fmt.Print("n: ")
     → fmt.Scan(&n)
    → fmt.Println(digitRekursif(n), "digit")
10
11
     func digitRekursif(n int) int {
12
13
    → if n < 10 {
    14
15
     → return 1 + digitRekursif(n / 10)
16
17
18
```

```
[10:32:44] khusyasy:tp-modul-13 $ go run 4.go
n: 2
10
[10:33:03] khusyasy:tp-modul-13 $ go run 4.go
n: 12
1100
[10:33:05] khusyasy:tp-modul-13 $ go run 4.go
n: 38
100110
```

```
package · main
     import "fmt"
     func · main() · {
     → fmt.Print("n: ")
     → fmt.Scan(&n)
     → fmt.Println(binerRekursif(n))
10
11
     func · binerRekursif(d · int) · int · {
12
13
     → if d == 1 {
     → → return·1
14
15
     → return (binerRekursif(d / 2) * 10) + (d % 2)
16
17
18
```