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```
package main
import ("fmt")
const NMAX int = 1000
type himpunan struct {
    info [NMAX]string
    nElemen int
}

func createSet_1301223029 (set *himpunan) {
    var (input string ; count int)
    for i := 0 ; i < NMAX ; i++ {
        fmt.Scan (&input)
        for j := 0 ; j < len(set.info) ; j++ {
            if input == set.info[j] {
                count++
            }
        }
        if count > 0 {
            break
        }
        set.info[i] = input
        set.nElemen++
    }
}

func printSet_1301223029 (set himpunan) {
    for i := 0 ; i < len(set.info) ; i++ {
        if set.info[i] != "" {
            fmt.Print (set.info[i], " ")
        }
    }
    fmt.Print ("\n")
}

func isMember_1301223029 (set himpunan ; s string) bool {
    var hasil int
    for i := 0 ; i < len(set.info) ; i++ {
        if s == set.info[i] {
            hasil++
        }
    }
}
```

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if hasil > 0 {  
    return true  
} else {  
    return false  
}
```

```
{  
func intersection - 1301223029 (set1, set2 himpunan, set3 *  
himpunan) {
```

```
    for i := 0 ; i < len(set1.info) ; i++ {  
        for j := 0 ; j < len(set2.info) ; j++ {  
            if set1.info[i] == set2.info[j] {  
                duplikat := false  
                for k := 0 ; k < len(set3.info) ; k++ {  
                    if set2.info[i] == set3.info[k] {  
                        duplikat = true  
                        break  
                    }  
                }  
                if !duplikat & set3.info[i] == set1.info[i] {  
                    set3.info[i] = set1.info[i]  
                    set3.nElemen++  
                }  
            }  
        }  
    }
```

```
}  
  
func union - 1301223029 (set1, set2 himpunan, set3 *himpunan) {  
    set3.nElemen = 0
```

```
    for i := 0 ; i < set1.nElemen ; i++ {  
        if !isMember - 1301223029 (*set3, set1.info[i]) {  
            set3.info[set3.nElemen] = set1.info[i]  
            set3.nElemen++  
        }  
    }
```

```
    for j := 0 ; j < set2.nElemen ; j++ {  
        if !isMember - 1301223029 (*set3, set2.info[j]) {  
            set3.info[set3.nElemen] = set2.info[j]  
            set3.nElemen++  
        }  
    }
```

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```
func main() {  
    var (A, B, C, D himpunan)  
    createSet_1301223029 (&A)  
    createSet_1301223029 (&B)  
    for i := 0; i < len(C.info); i++ {  
        if C.info[i] != "" {  
            fmt.Printf(C.info[i], " ")  
        }  
    }  
    fmt.Println()  
    union_1301223029 (A, B, &D)  
    for i := 0; i < D.nElemen; i++ {  
        fmt.Printf(D.info[i], " ")  
    }  
}
```