Exercise 5-1

Nested struct

Write a program, which

1. Declares a structure according to the given JSON
2. Fills the structure with the data from the json file
3. Print the structure (not as json, just print)

JSON:

```
{
  "Records": [
    {
      "EventVersion": "1.0",
      "EventSource": "aws:sns",
      "Sns": {
        "Message": "Hello from SNS!"
      }
    }
  ]
}
```

1 Step 1: main.go

```
package main

import "fmt"

func main() {

}
```

2 Step 2: main.go

```
package main

import "fmt"

type SNS struct {
    Records []Entry
}

func main() {
}
```

3 Step 3: main.go

```
package main

import "fmt"

type Entry struct {
    EventVersion string
    EventSource  string
}

type SNS struct {
    Records []Entry
}

func main() {
}
```

4 Step 4: main.go

```
package main

import "fmt"

type Entry struct {
    EventVersion string
    EventSource  string
    Sns struct {
        Message string
    }
}

type SNS struct {
    Records []Entry
}

func main() {
}
```

5 Step 5: main.go

```
package main

import "fmt"

type Entry struct {
    EventVersion string
    EventSource  string
    Sns struct {
        Message string
    }
}

type SNS struct {
    Records []Entry
}

func main() {
    var message SNS
    var entry Entry
}
```

6 Step 6: main.go

```
package main

import "fmt"

type Entry struct {
    EventVersion string
    EventSource  string
    Sns struct {
        Message string
    }
}

type SNS struct {
    Records []Entry
}

func main() {
    var message SNS
    var entry Entry
    entry.EventSource = "aws:sns"
    entry.EventVersion = "1.0"
    entry.Sns.Message = "Hello from SNS"
}
```

7 Step 7: main.go

```
package main

import "fmt"

type Entry struct {
    EventVersion string
    EventSource  string
    Sns struct {
        Message string
    }
}

type SNS struct {
    Records []Entry
}

func main() {
    var message SNS
    var entry Entry
    entry.EventSource = "aws:sns"
    entry.EventVersion = "1.0"
    entry.Sns.Message = "Hello from SNS"

    message.Records = make([]Entry, 1)

}
```

8 Step 8: main.go

```
package main

import "fmt"

type Entry struct {
    EventVersion string
    EventSource  string
    Sns struct {
        Message string
    }
}

type SNS struct {
    Records []Entry
}

func main() {
    var message SNS
    var entry Entry
    entry.EventSource = "aws:sns"
    entry.EventVersion = "1.0"
    entry.Sns.Message = "Hello from SNS"

    message.Records = make([]Entry, 1)
    message.Records[0] = entry

    fmt.Println(message)
}
```

9 Step 9: output

```
{{{1.0 aws:sns {Hello from SNS!}}}}
```

1. Create a program skeleton
2. Define outer struct "SNS"
3. Define Entry struct
4. Add SNS inner struct
5. Define variables
6. Fill variables
7. Make room for entries in the array as slice.
8. Set the entry
9. go run main.go