You are an expert coding assistant specialized in software refactoring, with many years of experience analyzing code transformations.

You will be given the diffs of a commit:

```
- **Diffs:**
diff --git zapcore/buffered_write_syncer.go
zapcore/buffered_write_syncer.go
index 4b426a5..4e52826 100644
--- zapcore/buffered_write_syncer.go
+++ zapcore/buffered write syncer.go
@@ -109,29 +109,6 @@ type BufferedWriteSyncer struct {
done chan struct{} // closed when flushLoop has stopped
-func (s *BufferedWriteSyncer) initialize() {
- size := s.Size
- if size == 0 
- size = _defaultBufferSize
- }
- flushInterval := s.FlushInterval
- if flushInterval == 0 {
- flushInterval = _defaultFlushInterval
- }
- if s.Clock == nil {
- s.Clock = DefaultClock
- }
- s.ticker = s.Clock.NewTicker(flushInterval)
- s.writer = bufio.NewWriterSize(s.WS, size)
- s.stop = make(chan struct{})
- s.done = make(chan struct{})
- s.initialized = true
- go s.flushLoop()
-}
// Write writes log data into buffer syncer directly, multiple Write
calls will be batched,
// and log data will be flushed to disk when the buffer is full or
periodically.
func (s *BufferedWriteSyncer) Write(bs []byte) (int, error) {
@@ -139,7 +116,26 @@ func (s *BufferedWriteSyncer) Write(bs
[]byte) (int, error) {
```

defer s.mu.Unlock()

```
if !s.initialized {
- s.initialize()
+ size := s.Size
+ if size == 0 {
+ size = _defaultBufferSize
+ flushInterval := s.FlushInterval
+ if flushInterval == 0 {
+ flushInterval = _defaultFlushInterval
+ }
+ if s.Clock == nil {
+ s.Clock = DefaultClock
+ }
+ s.ticker = s.Clock.NewTicker(flushInterval)
+ s.writer = bufio.NewWriterSize(s.WS, size)
+ s.stop = make(chan struct{})
+ s.done = make(chan struct{})
+ s.initialized = true
+ go s.flushLoop()
```

// To avoid partial writes from being flushed, we manually flush the existing buffer if:

Your task is to identify which refactoring type(s) have been applied in transforming the original program into the new version. Use only the following list of predefined refactorings:

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(Rename Class) – Changes the name of a class without altering its structure.

(Rename Package) – Changes the name of a package declaration. (Rename Field) – Changes the name of a class or instance variable.

(Extract Class) – Moves a group of related fields and methods from an existing class into a newly created class.

(Extract Superclass) – Creates a new superclass to encapsulate shared attributes and behavior from two or more existing classes.

(Inline Method) – Replaces a method call with the method's body. (Pull Up Method) – Pull a method from a child class (subclass) in the original code to its parent class (superclass) in the transformed version

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(Move Method) – Relocates a method to a more appropriate class.

(Move Field) – Relocates a field to a more appropriate class. (Replace Magic Number with Constant) – Replaces a literal number with a named constant.

(Encapsulate Field) – Change a field access from not private to private and create get and set methods.

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Inline Method: the standalone initialize() method has been removed, and its body
has been inlined directly into the Write method in place of the original s.initialize()

By eliminating the separate initialize() definition and copying its contents into the if !s.initialized block, the refactoring replaces the method call with its implementation, matching the "Inline Method" pattern.

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You will be given the diffs of a commit:

- **Diffs:**

diff --git zapcore/buffered_write_syncer.go
zapcore/Rbuffered_write_syncer.go
similarity index 100%
rename from zapcore/buffered_write_syncer.go
rename to zapcore/Rbuffered_write_syncer.go
diff --git zapcore/buffered_write_syncer_test.go
zapcore/Rbuffered_write_syncer_test.go
similarity index 100%
rename from zapcore/buffered_write_syncer_test.go
rename to zapcore/Rbuffered_write_syncer_test.go

Your task is to identify which refactoring type(s) have been applied in transforming the original program into the new version. Use only the following list of predefined refactorings:

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No applicable refactoring

The only changes are the file and its corresponding test file being renamed from buffered_write_syncer.go/buffered_write_syncer_test.go to Rbuffered_write_syncer_test.go. There is no change to any package declaration, class/type name, method signature, or field—so none of the refactorings in the given list apply.

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```
You will be given the diffs of a commit:
- **Diffs:**
diff -- git zapcore/console encoder.go
zapcore/console_encoder.go
index 98eea51..f1f3eb9 100644
--- zapcore/console_encoder.go
+++ zapcore/console_encoder.go
@@ -47,7 +47,7 @@ type consoleEncoder struct {
*isonEncoder
-// NewConsoleEncoder creates an encoder whose output is
designed for human -
+// RNewConsoleEncoder creates an encoder whose output is
designed for human -
// rather than machine - consumption. It serializes the core log
entry data
// (message, level, timestamp, etc.) in a plain-text format and
leaves the
// structured context as JSON.
@@ -55,7 +55,7 @@ type consoleEncoder struct {
// Note that although the console encoder doesn't use the keys
specified in the
// encoder configuration, it will omit any element whose key is set
to the empty
// string.
-func NewConsoleEncoder(cfg EncoderConfig) Encoder {
+func RNewConsoleEncoder(cfg EncoderConfig) Encoder {
if cfg.ConsoleSeparator == "" {
// Use a default delimiter of '\t' for backwards compatibility
cfg.ConsoleSeparator = "\t"
diff --git zapcore/console_encoder_bench_test.go
zapcore/console_encoder_bench_test.go
index a2a360f..bb86649 100644
--- zapcore/console_encoder_bench_test.go
+++ zapcore/console_encoder_bench_test.go
@@ -30,7 +30,7 @@ import (
func BenchmarkZapConsole(b *testing.B) {
b.RunParallel(func(pb *testing.PB) {
for pb.Next() {
- enc := NewConsoleEncoder(humanEncoderConfig())
+ enc := RNewConsoleEncoder(humanEncoderConfig())
enc.AddString("str", "foo")
enc.AddInt64("int64-1", 1)
enc.AddInt64("int64-2", 2)
diff --git zapcore/console_encoder_test.go
```

```
zapcore/console_encoder_test.go
index be8adc7..9b13d4f 100644
--- zapcore/console_encoder_test.go
+++ zapcore/console encoder test.go
@@ -68,7 +68,7 @@ func TestConsoleEncodeEntry(t *testing.T) {
cfg := testEncoderConfig()
cfg.EncodeTime = RFC3339TimeEncoder
- enc := NewConsoleEncoder(cfg)
+ enc := RNewConsoleEncoder(cfg)
for _, tt := range tests {
t.Run(tt.desc, func(t *testing.T) {
@@ -110,7 +110,7 @@ func TestConsoleSeparator(t *testing.T) {
for _, tt := range tests {
- console :=
NewConsoleEncoder(encoderTestEncoderConfig(tt.separator))
+ console :=
RNewConsoleEncoder(encoderTestEncoderConfig(tt.separator))
t.Run(tt.desc, func(t *testing.T) {
entry := testEntry
consoleOut, err := console.EncodeEntry(entry, nil)
diff --qit zapcore/encoder_test.go zapcore/encoder_test.go
index f89f489..7414ed9 100644
--- zapcore/encoder_test.go
+++ zapcore/encoder_test.go
@@ -531,7 +531,7 @@ func TestEncoderConfiguration(t
*testing.T) {
for i, tt := range tests {
json := NewJSONEncoder(tt.cfg)
- console := NewConsoleEncoder(tt.cfg)
+ console := RNewConsoleEncoder(tt.cfg)
if tt.extra != nil {
tt.extra(json)
tt.extra(console)
```

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Rename Method

The constructor function NewConsoleEncoder has been renamed to RNewConsoleEncoder, and all its call sites in benchmarks and tests have been updated accordingly, matching the "Rename Method" refactoring.

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You will be given the diffs of a commit:

```
- **Diffs·**
diff --git config.go config.go
index e76e4e6..181aa40 100644
--- config.go
+++ config.go
@@ -130,7 +130,7 @@ func NewProductionEncoderConfig()
zapcore.EncoderConfig {
FunctionKey: zapcore.OmitKey,
MessageKey: "msg",
StacktraceKey: "stacktrace",
- LineEnding: zapcore.DefaultLineEnding,
+ lineEnding: zapcore.DefaultLineEnding,
EncodeLevel: zapcore.LowercaseLevelEncoder,
EncodeTime: zapcore.EpochTimeEncoder,
EncodeDuration: zapcore.SecondsDurationEncoder,
@@ -207,7 +207,7 @@ func NewDevelopmentEncoderConfig()
zapcore.EncoderConfig {
FunctionKey: zapcore.OmitKey,
MessageKey: "M",
StacktraceKey: "S",
- LineEnding: zapcore.DefaultLineEnding,
+ lineEnding: zapcore.DefaultLineEnding,
EncodeLevel: zapcore.CapitalLevelEncoder,
EncodeTime: zapcore.ISO8601TimeEncoder,
EncodeDuration: zapcore.StringDurationEncoder,
diff --git zapcore/console_encoder.go
zapcore/console_encoder.go
index f1f3eb9..d3899ab 100644
--- zapcore/console_encoder.go
+++ zapcore/console_encoder.go
@@ -125,7 +125,7 @@ func (c consoleEncoder) EncodeEntry(ent
Entry, fields []Field) (*buffer.Buffer,
```

```
line.AppendString(ent.Stack)
- line.AppendString(c.LineEnding)
+ line.AppendString(c.lineEnding)
return line, nil
diff --git zapcore/encoder.go zapcore/encoder.go
index 0446254..cbe9d7d 100644
--- zapcore/encoder.go
+++ zapcore/encoder.go
@@ -339,7 +339,7 @@ type EncoderConfig struct {
FunctionKey string json: "functionKey" yaml: "functionKey"
StacktraceKey string json: "stacktraceKey"
yaml:"stacktraceKey"
SkipLineEnding bool json: "skipLineEnding"
yaml:"skipLineEnding"
- LineEnding string json: "lineEnding" yaml: "lineEnding"
+ lineEnding string json: "lineEnding" yaml: "lineEnding"
// Configure the primitive representations of common complex
types. For
// example, some users may want all time. Times serialized as
floating-point
// seconds since epoch, while others may prefer ISO8601 strings.
@@ -358,6 +358,14 @@ type EncoderConfig struct {
ConsoleSeparator string json: "consoleSeparator"
yaml:"consoleSeparator"
+func (e *EncoderConfig) LineEnding() string {
+ return e.lineEnding
+}
+func (e *EncoderConfig) SetLineEnding(lineEnding string) {
+ e.lineEnding = lineEnding
+}
// ObjectEncoder is a strongly-typed, encoding-agnostic interface
for adding a
// map- or struct-like object to the logging context. Like maps,
ObjectEncoders
// aren't safe for concurrent use (though typical use shouldn't
require locks).
diff --git zapcore/json_encoder.go zapcore/json_encoder.go
index 9685169..c9c5447 100644
--- zapcore/json_encoder.go
+++ zapcore/json_encoder.go
@@ -80,9 +80,9 @@ func NewJSONEncoder(cfg EncoderConfig)
```

```
Encoder {
func newJSONEncoder(cfg EncoderConfig, spaced bool)
*isonEncoder {
if cfg.SkipLineEnding {
- cfg.LineEnding = ""
- } else if cfg.LineEnding == "" {
- cfg.LineEnding = DefaultLineEnding
+ cfg.lineEnding = ""
+ } else if cfg.lineEnding == "" {
+ cfg.lineEnding = DefaultLineEnding
// If no EncoderConfig.NewReflectedEncoder is provided by the
user, then use default
@@ -423,7 +423,7 @@ func (enc *jsonEncoder) EncodeEntry(ent
Entry, fields []Field) (*buffer.Buffer,
final.AddString(final.StacktraceKey, ent.Stack)
final.buf.AppendByte('}')
- final.buf.AppendString(final.LineEnding)
+ final.buf.AppendString(final.lineEnding)
ret := final.buf
putJSONEncoder(final)
```

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Encapsulate Field

The public LineEnding field on EncoderConfig has been renamed to a private lineEnding and accessor methods LineEnding() and SetLineEnding(string) were introduced. All direct uses of the old field have been updated to the new private field, securing its access behind the new getter/setter pair.

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You will be given the diffs of a commit:

```
- **Diffs:**
diff --git zapcore/error.go zapcore/error.go
index c40df13..7e5546e 100644
--- zapcore/error.go
+++ zapcore/error.go
@@ -107,7 +107,7 @@ func (errs errArray) MarshalLogArray(arr
ArrayEncoder) error {
return nil
-var _errArrayElemPool = pool.New(func() *errArrayElem {
+var _RerrArrayElemPool = pool.New(func() *errArrayElem {
return &errArrayElem{}
@@ -117,7 +117,7 @@ var errArrayElemPool = pool.New(func()
*errArrayElem {
type errArrayElem struct{ err error }
func newErrArrayElem(err error) *errArrayElem {
- e := _errArrayElemPool.Get()
+ e := _RerrArrayElemPool.Get()
e.err = err
return e
@@ -132,5 +132,5 @@ func (e *errArrayElem)
MarshalLogObject(enc ObjectEncoder) error {
func (e *errArrayElem) Free() {
e.err = nil
- _errArrayElemPool.Put(e)
+ _RerrArrayElemPool.Put(e)
```

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Rename Field

The package-level variable _errArrayElemPool was renamed to _RerrArrayElemPool, and all its references in newErrArrayElem and (*errArrayElem). Free were updated to match the new name.

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```
- **Diffs:**

diff --git zapcore/lhooked.go zapcore/lhooked.go
new file mode 100644
index 0000000..ada49f0
--- /dev/null
+++ zapcore/lhooked.go
@@ -0,0 +1,5 @@
+package zapcore
+
+type lhooked interface {
+ Level() Level
+}
```

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Extract Interface

A new Ihooked interface has been introduced, defining the Level() method. This matches creating an interface from existing behavior (the Level method), fitting the "Extract Interface" refactoring.

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You will be given the diffs of a commit:

```
- **Diffs:**
diff --git zapcore/level.go zapcore/level.go
index f3e166d..ec85de4 100644
--- zapcore/level.go
+++ zapcore/level.go
@@ -68,7 +68,7 @@ const (
// levels.
func ParseLevel(text string) (Level, error) {
var level Level
- err := level.UnmarshalText([]byte(text))
+ err := level.RUnmarshalText([]byte(text))
return level, err
@@ -161,13 +161,13 @@ func (| Level) MarshalText() ([]byte, error)
return []byte(l.String()), nil
-// UnmarshalText unmarshals text to a level. Like MarshalText,
UnmarshalText
+// RUnmarshalText unmarshals text to a level. Like MarshalText,
RUnmarshalText
// expects the text representation of a Level to drop the -Level
suffix (see
// example).
// In particular, this makes it easy to configure logging levels using
YAML,
// TOML, or JSON files.
-func (I *Level) UnmarshalText(text []byte) error {
+func (I *Level) RUnmarshalText(text []byte) error {
if I == nil \{
return errUnmarshalNilLevel
@@ -201,7 +201,7 @@ func (I *Level) unmarshalText(text []byte)
bool {
// Set sets the level for the flag. Value interface.
```

```
func (I *Level) Set(s string) error {
- return I.UnmarshalText([]byte(s))
+ return I.RUnmarshalText([]byte(s))
// Get gets the level for the flag. Getter interface.
diff --git zapcore/level_test.go zapcore/level_test.go
index d0beadc..36527fc 100644
--- zapcore/level test.go
+++ zapcore/level_test.go
@@ -71,7 +71,7 @@ func TestLevelText(t *testing.T) {
var unmarshaled Level
- err := unmarshaled.UnmarshalText([]byte(tt.text))
+ err := unmarshaled.RUnmarshalText([]byte(tt.text))
assert.NoError(t, err, Unexpected error unmarshaling text %q
to level., tt.text)
assert. Equal(t, tt.level, unmarshaled, Text %q unmarshaled to an
unexpected level., tt.text)
@@ -81,7 +81,7 @@ func TestLevelText(t *testing.T) {
t.Run("unmarshal warning compatibility", func(t *testing.T) {
var unmarshaled Level
input := []byte("warning")
- err := unmarshaled.UnmarshalText(input)
+ err := unmarshaled.RUnmarshalText(input)
assert.NoError(t, err, Unexpected error unmarshaling text %q
to level., string(input))
assert. Equal(t, WarnLevel, unmarshaled, Text %q unmarshaled to
an unexpected level., string(input))
@@ -124,7 +124,7 @@ func TestCapitalLevelsParse(t *testing.T) {
for _, tt := range tests {
var unmarshaled Level
- err := unmarshaled.UnmarshalText([]byte(tt.text))
+ err := unmarshaled.RUnmarshalText([]byte(tt.text))
assert.NoError(t, err, Unexpected error unmarshaling text %q
to level., tt.text)
assert. Equal(t, tt.level, unmarshaled, Text %q unmarshaled to an
unexpected level., tt.text)
}
@@ -155,7 +155,7 @@ func TestWeirdLevelsParse(t *testing.T) {
for _, tt := range tests {
var unmarshaled Level
- err := unmarshaled.UnmarshalText([]byte(tt.text))
+ err := unmarshaled.RUnmarshalText([]byte(tt.text))
```

```
assert.NoError(t, err, Unexpected error unmarshaling text %q
to level., tt.text)
assert. Equal(t, tt.level, unmarshaled, Text %q unmarshaled to an
unexpected level., tt.text)
@@ -173,13 +173,13 @@ func TestLevelNils(t *testing.T) {
_, _ = I.MarshalText() // should panic
}, "Expected to panic when marshalling a nil level.")
- err := I.UnmarshalText([]byte("debug"))
+ err := I.RUnmarshalText([]byte("debug"))
assert.Equal(t, errUnmarshalNilLevel, err, "Expected to error
unmarshalling into a nil Level.")
func TestLevelUnmarshalUnknownText(t *testing.T) {
var I Level
- err := I.UnmarshalText([]byte("foo"))
+ err := I.RUnmarshalText([]byte("foo"))
assert.ErrorContains(t, err, "unrecognized level", "Expected
unmarshaling arbitrary text to fail.")
```

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(Encapsulate Field) – Change a field access from not private to private and create get and set methods.

- **Instructions:**
- 1. Begin your response with a bullet-point list of the refactoring type(s) applied.
- 2. Then, briefly justify each identified refactoring with reference to the specific code changes.
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Do not generate explanations unrelated to the given transformation.

Rename Method

The UnmarshalText method on *Level was renamed to RUnmarshalText, and all its definitions, comments, and call sites (in ParseLevel, Set, and tests) were updated to the new name, matching the "Rename Method" refactoring.

You are an expert coding assistant specialized in software refactoring, with many years of experience analyzing code transformations.

You will be given the diffs of a commit: - **Diffs·** diff --git basic/main.go basic/main.go index 6d86997..5bc818c 100644 --- basic/main.go +++ basic/main.go @@ -1,25 +1,24 @@ package main import (- "net/http" "github.com/gin-gonic/gin" + "net/http" var db = make(map[string]string) -func setupRouter() *gin.Engine { +func main() { // Disable Console Color // gin.DisableConsoleColor() - r := gin.Default() + r2 := gin.Default() // Ping test - r.GET("/ping", func(c *gin.Context) { + r2.GET("/ping", func(c *gin.Context) { c.String(http.StatusOK, "pong") }) // Get user value - r.GET("/user/:name", func(c *gin.Context) { + r2.GET("/user/:name", func(c *gin.Context) { user := c.Params.ByName("name") value, ok := db[user] if ok { @@ -36,7 +35,7 @@ func setupRouter() *gin.Engine { // "foo": "bar", // "manu": "123", //})) - authorized := r.Group("/", gin.BasicAuth(gin.Accounts{ + authorized := r2.Group("/", gin.BasicAuth(gin.Accounts{ "foo": "bar", // user:foo password:bar "manu": "123", // user:manu password:123

@@ -63,12 +62,7 @@ func setupRouter() *gin.Engine {

```
c.JSON(http.StatusOK, gin.H{"status": "ok"})
})
- return r
-}
-func main() {
- r := setupRouter()
+ r := r2
// Listen and Server in 0.0.0.0:8080
r.Run(":8080")
diff --git basic/main_test.go basic/main_test.go
index 5eb8524..af7aebf 100644
--- basic/main_test.go
+++ basic/main_test.go
@@ -9,7 +9,61 @@ import (
)
func TestPingRoute(t *testing.T) {
- router := setupRouter()
+ // Disable Console Color
+ // gin.DisableConsoleColor()
+ r := gin.Default()
+ // Ping test
+ r.GET("/ping", func(c *gin.Context) {
+ c.String(http.StatusOK, "pong")
+ })
+ // Get user value
+ r.GET("/user/:name", func(c *gin.Context) {
+ user := c.Params.ByName("name")
+ value, ok := db[user]
+ if ok {
+ c.JSON(http.StatusOK, gin.H{"user": user, "value": value})
+ c.JSON(http.StatusOK, gin.H{"user": user, "status": "no value"})
+ }
+ })
+ // Authorized group (uses gin.BasicAuth() middleware)
+ // Same than:
+ // authorized := r.Group("/")
+ // authorized.Use(gin.BasicAuth(gin.Credentials{
+ // "foo": "bar",
+ // "manu": "123",
+ //}))
```

```
+ authorized := r.Group("/", gin.BasicAuth(gin.Accounts{
+ "foo": "bar", // user:foo password:bar
+ "manu": "123", // user:manu password:123
+ }))
+ /* example curl for /admin with basicauth header
+ Zm9vOmJhcg== is base64("foo:bar")
+ curl -X POST \
+ http://localhost:8080/admin \
+ -H 'authorization: Basic Zm9vOmJhcg==' \
+ -H 'content-type: application/json' \
+ -d '{"value":"bar"}'
+ */
+ authorized.POST("admin", func(c *gin.Context) {
+ user := c.MustGet(gin.AuthUserKey).(string)
+ // Parse JSON
+ var json struct {
+ Value string json:"value" binding:"required"
+ }
+ if c.Bind(\&json) == nil {
+ db[user] = json.Value
+ c.JSON(http.StatusOK, gin.H{"status": "ok"})
+ }
+ })
+ router := r
w := httptest.NewRecorder()
req, _ := http.NewRequest("GET", "/ping", nil)
```

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Inline Method

The setupRouter() function has been removed, and its entire body has been copied directly into main() (and manually reproduced in the test), replacing calls to setupRouter() with the inlined code. This matches the "Inline Method" refactoring.

You are an expert coding assistant specialized in software refactoring, with many years of experience analyzing code transformations.

You will be given the diffs of a commit:

```
- **Diffs:**

diff --git grpc/example1/gen/helloworld/v1/IRouter.go
grpc/example1/gen/helloworld/v1/IRouter.go
new file mode 100644
index 0000000..8156207
--- /dev/null
+++ grpc/example1/gen/helloworld/v1/IRouter.go
@@ -0,0 +1,7 @@
+package v1
+
+import "github.com/gin-gonic/gin"
+
+type RouterGroup interface {
+ GET(relativePath string, handlers ...gin.HandlerFunc) gin.IRoutes
+}
```

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Extract Interface

A new RouterGroup interface has been introduced, defining the GET(relativePath string, handlers ...gin.HandlerFunc) gin.IRoutes method. This matches the "Extract Interface" refactoring, as it pulls an existing method signature into a newly created interface.

You are an expert coding assistant specialized in software refactoring, with many years of experience analyzing code transformations.

You will be given the diffs of a commit:

```
- **Diffs:**
diff --git forward-proxy/main.go forward-proxy/main.go
index 1260547..3eaa827 100644
--- forward-proxy/main.go
+++ forward-proxy/main.go
@@ -33,7 +33,11 @@ func ForwardMid(c *gin.Context) {
return
defer resp.Body.Close()
- copyHeader(c.Writer.Header(), resp.Header)
+ for k, vv := range resp.Header {
+ for _, v2 := range vv {
+ c.Writer.Header().Add(k, v2)
+ }
+ }
c.Writer.WriteHeader(resp.StatusCode)
io.Copy(c.Writer, resp.Body)
c.Abort()
@@ -44,14 +48,6 @@ func ForwardMid(c *gin.Context) {
c.Next()
-func copyHeader(dst, src http.Header) {
- for k, vv := range src {
- for _, v := range vv {
- dst.Add(k, v)
- }
- }
func Reverse(c *gin.Context) {
remote, _ := url.Parse("http://xxx.xxx.xxx")
proxy := httputil.NewSingleHostReverseProxy(remote)
```

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Inline Method

The standalone helper function copyHeader(dst, src http.Header) was removed, and its body was directly inlined into ForwardMid in place of the original copyHeader(...) call, matching the "Inline Method" refactoring.

From ChatGPT, designed with FancyGPT