

[Solved] Swift error: return from initializer without initializing all stored properties

Swift error: return from initializer without initializing all stored properties

The **swift error: return from initializer without initializing all stored properties**, occurs when all the properties in the structure are not initialized in the init method.

Let us recreate this scenario. We shall define a structure with three properties but only two of them are initialized in init method.

main.swift

```
struct car {  
    var brand: String
```

```
struct car {  
    var brand: String  
    var name: String  
    var capacity: Int  
  
    init(brand: String, name: String) {  
        self.brand = brand  
        self.name = name  
    }  
}  
  
let car1 = car(brand: "Hyundai", name: "Creta")  
  
print("Car details\n-----")  
print("Brand is \(car1.brand)")  
print("Name is \(car1.name)")  
print("Seating capacity is \(car1.capacity)")
```

Output

```
main.swift:9:4: error:  
return from initializer
```

```
main.swift:9:4: error: return from initializer without initializing all stored properties  
}  
^  
main.swift:4:8: note: 'self.capacity' not initialized  
var capacity: Int  
^
```

How to resolve this issue?

To solve this issue, we have to initialize all the properties of the structure in the init method or provide a default value to the property while declaring the property in the structure.

Solution 1: Initialize all properties in init method

Let us initialize all the methods in the init method of structure. Also, we will provide all the arguments during structure call.

main.swift

```
struct car {  
    var brand: String  
    var name: String  
    var capacity: Int  
  
    init(brand: String, name: String, capacity: Int) {  
        self.brand = brand  
        self.name = name  
        self.capacity = capacity  
    }  
}  
  
let car1 = car(brand: "Hyundai", name: "Creta", capacity: 5)  
  
print("Car details\n-----")  
print("Brand is \(car1.brand)")  
print("Name is \(car1.name)")  
print("Seating capacity is \(car1.capacity)")
```

Output

```
Car details  
-----  
Brand is Hyundai  
Name is Creta  
Seating capacity is 5
```

Solution 2: Provide a default value to the property

We can also provide a default value to the properties that are not initialized in the init method.

main.swift

```
struct car {  
    var brand: String
```

```
struct car {  
    var brand: String  
    var name: String  
    var capacity = 5  
  
    init(brand: String, name: String) {  
        self.brand = brand  
        self.name = name  
    }  
}  
  
let car1 = car(brand: "Hyundai", name: "Creta")  
  
print("Car details\n-----")  
print("Brand is \(car1.brand)")  
print("Name is \(car1.name)")  
print("Seating capacity is \(car1.capacity)")
```

Output

```
Car details
```

```
Car details  
-----  
Brand is Hyundai  
Name is Creta  
Seating capacity is 5
```

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