

```
//  
//  grandprix.swift  
//  Rally  
//  
//  Created by Megha Mahna on 2019-10-22.  
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//
```

```
import Foundation
```

```
class GrandPrix{  
    static var count = 0  
    var flag = true  
    var participating_vehicles = [Vehicle]()  
  
    func add(vehicle: Vehicle){  
        participating_vehicles.append(vehicle)  
        if GrandPrix.count >= 40{  
            vehicle.refill()  
        }  
    }  
  
    func check() -> Bool{  
        for item in participating_vehicles{  
            if item.isTwoWheeled(){  
                flag = false  
            }  
        }  
        return flag  
    }  
  
    func run(turn: Int) -> String{  
        var winning_participants = [Vehicle]()  
        guard check() else{  
            print("Not Grand Prix")  
            return " "  
        }  
        GrandPrix.count += turn  
        for item in participating_vehicles{  
            item.charge_level -= turn  
            if item.charge_level > 0{  
                winning_participants.append(item)  
            }  
        }  
        if winning_participants.isEmpty{  
            print("All the vehicles failed to finish the rally")  
        }  
    }  
}
```

```
else{

    var best = winning_participants[0]
    for item in winning_participants{
        if item.better(otherVehicle: best){
            best = item

        }

    }

    print(" The Winner of the grand Prix is \((best) ")

}
return " "

}
```