```
import UIKit
   class ViewController: UIViewController {
       @IBOutlet weak var decreaseButton: UIButton!
0
       alBOutlet weak var increaseButton: UIButton!
0
0
       alboutlet weak var vertexCountLabel: UILabel!
0
       alboutlet weak var polygonNameLabel: UILabel!
       lazy var polygonModel: PolygonShape = {
           let polygon = PolygonShape()
           polygon.numberOfSides = 8
           return polygon
       }()
22
       @IBAction func increaseSides(_ sender: UIButton) {
0
           polygonModel.numberOfSides += 1
           updateUI()
       }
       albaction func decreaseSides(_ sender: UIButton) {
0
           polygonModel.numberOfSides -= 1
29
           updateUI()
       }
32
       private func updateUI() {
           polygonNameLabel.text = polygonModel.name
34
           vertexCountLabel.text = "\(polygonModel.numberOfSides)"
           decreaseButton.isEnabled = polygonModel.numberOfSides == 3 ? false : true
36
           increaseButton.isEnabled = polygonModel.numberOfSides == 12 ? false : true
       }
       override func viewDidLoad() {
           super.viewDidLoad()
42
           updateUI()
       }
       override func didReceiveMemoryWarning() {
46
           super.didReceiveMemoryWarning()
       }
```

```
9 import UIKit
11 class PolygonShape: NSObject {
       private let names = ["Triangle", "Square", "Pentagon", "Hexagon", "Heptagon", "Octagon", "Nonagon", "Decagon", "Hendecagon", "Dodecagon"]
12
       var numberOfSides: Int = 8 {
           didSet {
               if !(3...12).contains(numberOfSides) {
                    if oldValue <= 3 {
                       numberOfSides = 3
                    } else {
                       numberOfSides = 12
22
       var name: String {
           get {
27
               return names[numberOfSides - 3]
       override var description: String {
            return name
34
35 }
36
```



