

TEST 2: corrigé partie pratique (3MCIn2)

RectangleView.h
Date: mercredi, 17 avril 13

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```
1: //  
2: // RectangleView.h  
3: // Rectangle  
4: //  
5: // Created by Gabriel Parriaux on 08.03.13.  
6: // Copyright (c) 2013 pxgab. All rights reserved.  
7: //  
8:  
9: #import <UIKit/UIKit.h>  
10:  
11: @protocol RectangleViewDataSource;  
12:  
13: @interface RectangleView : UIView  
14:  
15: @property (nonatomic, weak) IBOutlet id <RectangleViewDataSource> dataSource;  
16:  
17: @end  
18:  
19: @protocol RectangleViewDataSource  
20:  
21: - (CGFloat)largeurPourRectangleView:(RectangleView *)sender;  
22: - (CGFloat)hauteurPourRectangleView:(RectangleView *)sender;  
23:  
24: @end
```

```
1: //  
2: // RectangleView.m  
3: // Rectangle  
4: //  
5: // Created by Gabriel Parriaux on 08.03.13.  
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7: //  
8:  
9: #import "RectangleView.h"  
10:  
11: @interface RectangleView()  
12:  
13: @property(nonatomic) CGFloat largeurRectangle;  
14: @property(nonatomic) CGFloat hauteurRectangle;  
15:  
16: @end  
17:  
18: @implementation RectangleView  
19:  
20: - (void)drawRect:(CGRect)rect  
21: {  
22:     self.hauteurRectangle = [self.dataSource hauteurPourRectangleView:self];  
23:     if (self.hauteurRectangle > (self.bounds.size.height / 2 * .9)) {  
24:         self.hauteurRectangle = (self.bounds.size.height / 2 * .9);  
25:     }  
26:     if (self.hauteurRectangle < (self.bounds.size.height / 2 * .9 * -1)) {  
27:         self.hauteurRectangle = (self.bounds.size.height / 2 * .9 * -1);  
28:     }  
29:     self.largeurRectangle = [self.dataSource largeurPourRectangleView:self];  
30:     if (self.largeurRectangle > (self.bounds.size.width / 2 * .9)) {  
31:         self.largeurRectangle = (self.bounds.size.width / 2 * .9);  
32:     }  
33:     if (self.largeurRectangle < (self.bounds.size.width / 2 * .9 * -1)) {  
34:         self.largeurRectangle = (self.bounds.size.width / 2 * .9 * -1);  
35:     }  
36:  
37:     CGPoint pointOrigine;  
38:     pointOrigine.x = self.bounds.origin.x + (self.bounds.size.width / 2);  
39:     pointOrigine.y = self.bounds.origin.y + (self.bounds.size.height / 2);  
40:  
41:     CGRect rectangle = CGRectMake(pointOrigine.x, pointOrigine.y, self.largeurRectangle,  
self.hauteurRectangle);  
42:     CGContextRef context = UIGraphicsGetCurrentContext();  
43:  
44:     [[UIColor lightGrayColor] setFill];  
45:  
46:     CGContextBeginPath(context);  
47:     CGContextAddRect(context, rectangle);  
48:     CGContextFillRect(context, rectangle);  
49:  
50: }  
51:  
52:  
53: @end
```

```
1: //  
2: // RectangleViewController.h  
3: // Rectangle  
4: //  
5: // Created by Gabriel Parriaux on 08.03.13.  
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7: //  
8:  
9: #import <UIKit/UIKit.h>  
10: #import "RectangleView.h"  
11:  
12: @interface RectangleViewController : UIViewController  
13:  
14:     // modèle: deux valeurs entières  
15: @property (nonatomic) int largeur;  
16: @property (nonatomic) int hauteur;  
17:  
18: @end
```

```
1: //  
2: // RectangleViewController.m  
3: // Rectangle  
4: //  
5: // Created by Gabriel Parriaux on 08.03.13.  
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7: //  
8:  
9: #import "RectangleViewController.h"  
10:  
11: @interface RectangleViewController () <RectangleViewDataSource>  
12:  
13: @property (weak, nonatomic) IBOutlet RectangleView *rectangleView;  
14:  
15: @end  
16:  
17: @implementation RectangleViewController  
18:  
19: - (void)setRectangleView:(RectangleView *)rectangleView  
20: {  
21:     _rectangleView = rectangleView;  
22:     self.rectangleView.dataSource = self;  
23:     [self.rectangleView addGestureRecognizer:[[UIPanGestureRecognizer alloc]  
initWithTarget:self action:@selector(gererRectangleViewGesture:)]];  
24: }  
25:  
26: #pragma mark -  
27: #pragma mark setters du modèle  
28:  
29: - (void)setLargeur:(int)largeur  
30: {  
31:     _largeur = largeur;  
32:     NSLog(@"largeur = %d", self.largeur);  
33:     [self.rectangleView setNeedsDisplay];  
34: }  
35:  
36: - (void)setHauteur:(int)hauteur  
37: {  
38:     _hauteur = hauteur;  
39:     NSLog(@"hauteur = %d", self.hauteur);  
40:     [self.rectangleView setNeedsDisplay];  
41: }  
42:  
43: #pragma mark -  
44: #pragma mark delegate  
45:  
46: - (CGFloat)hauteurPourRectangleView:(RectangleView *)sender  
47: {  
48:     return (CGFloat)self.hauteur;  
49: }  
50:  
51: - (CGFloat)largeurPourRectangleView:(RectangleView *)sender  
52: {  
53:     return (CGFloat)self.largeur;  
54: }  
55:  
56: #pragma mark -  
57: #pragma mark target pour recognizer  
58:  
59: - (void)gererRectangleViewGesture:(UIPanGestureRecognizer *)gesture  
60: {  
61:     if (gesture.state == UIGestureRecognizerStateChanged || gesture.state ==  
UIGestureRecognizerStateEnded) {  
62:         CGPoint translation = [gesture translationInView:self.rectangleView];  
63:         self.largeur += translation.x * 1.5;  
64:         self.hauteur += translation.y * 1.5;  
65:         [gesture setTranslation:CGPointZero inView:self.rectangleView];  
66:     }  
67: }  
68:  
69: @end
```