

```
//  
// ViewController.h  
// Calculator2  
//  
// Created by Michal Švácha on 02.10.12.  
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//
```

```
#import <UIKit/UIKit.h>
```

```
@interface ViewController : UIViewController  
#pragma mark - Fields  
@property (weak, nonatomic) IBOutlet UILabel *digitLabel;  
#pragma mark - Methods  
- (IBAction)operationPressed:(id)sender;  
- (IBAction)digitPressed:(id)sender;  
- (IBAction)clearPressed:(id)sender;  
@end
```

```

//
// ViewController.m
// Calculator2
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//

#import "ViewController.h"

@interface ViewController ()
@property (nonatomic, strong) NSMutableArray *digits;
@property (nonatomic, strong) NSMutableArray *operations;
@property (nonatomic, strong) NSMutableString *number;
@end

@implementation ViewController

/*
Gets called when view was fully loaded.
*/
- (void)viewDidLoad {
    self.number = [[NSMutableString alloc] init];
    self.digits = [[NSMutableArray alloc] init];
    self.operations = [[NSMutableArray alloc] init];
    [super viewDidLoad];
}

/*
Calculates all operations held on stack.
*/
- (int)performOperations {
    int result = [[self.digits objectAtIndex:0] intValue];
    for (int i = 0; i < self.digits.count - 1; i++) {
        if([[self.operations objectAtIndex:i] intValue] == 1) {
            result += [[self.digits objectAtIndex:i + 1] intValue];
        } else {
            result -= [[self.digits objectAtIndex:i + 1] intValue];
        }
    }
    [self.digits removeAllObjects];
    [self.operations removeAllObjects];
    return result;
}

/*
Listener for operation keys.
plus = 1
minus = 2
equals = 0
*/
- (IBAction)operationPressed:(id)sender {
    if([sender tag]) {
        [self.digits addObject:[NSNumber numberWithInt:[self.number intValue]]];
        [self.operations addObject:[NSNumber numberWithInt:[sender tag]]];
        [self.number setString:@""];
    } else {
        [self.digits addObject:[NSNumber numberWithInt:[self.number intValue]]];
    }
}

```

```
        ];
        [self.digitLabel setText:[NSString stringWithFormat:@"%d", [self
            performOperations]]];
    }
}

/*
 * Listener for digit keys.
 */
- (IBAction)digitPressed:(id)sender {
    [self.number appendString:[NSString stringWithFormat:@"%d", [sender tag]]]
    ;
    [self.digitLabel setText:self.number];
}

- (IBAction)clearPressed:(id)sender {
}

- (void)viewDidUnload {
    [self setDigitLabel:nil];
    [super viewDidUnload];
}
@end
```