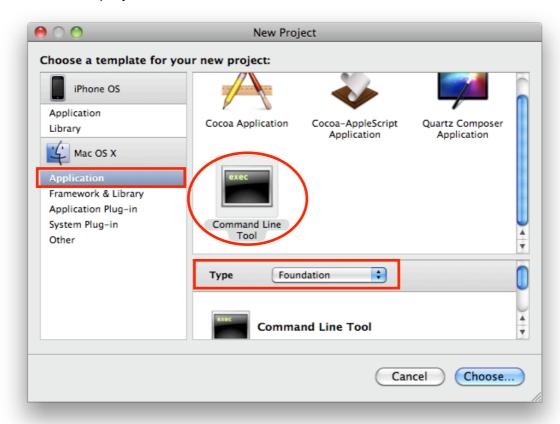
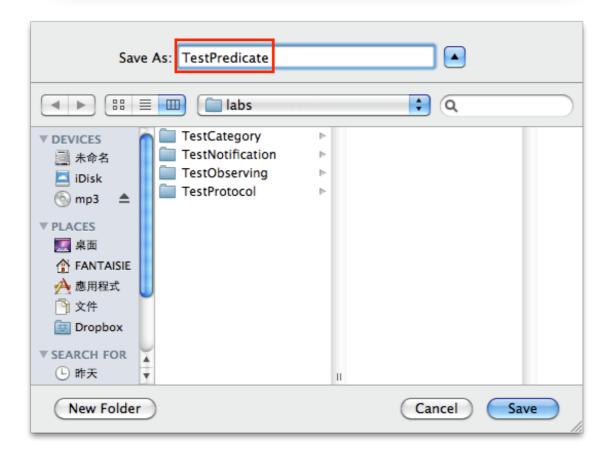
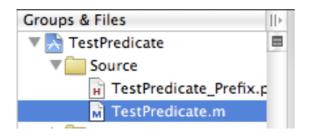
## Lab TestPredicate

Step1. 在File開啓一個新的project, 選擇 MAC OS X的Command line Tool, Type選擇 Foundation, 將project命名為 TestPredicate





Step2. 在Xcode左邊Groups & Files 視窗中,開啓Source > TestPredicate.m 先將印出Hello, World!這行Mark掉, 並加入以下的程式,先加入三個NSDictionary car1 car2 car3, 裡面各有車子的廠牌名稱和年份,然後放進一個NSArray裡面, 之後使用NSPredicate去判斷三台車子裡是否有如需求的brand和year

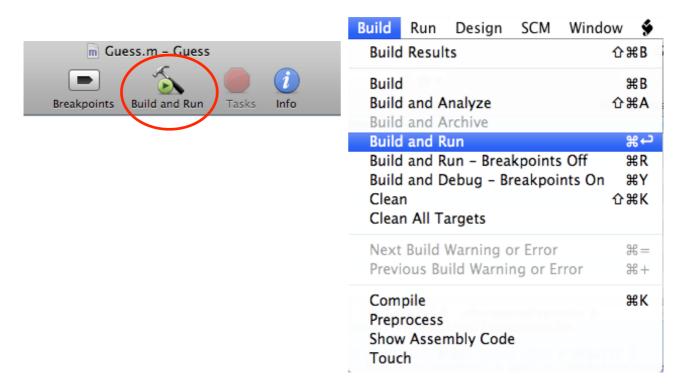


#import <Foundation/Foundation.h>

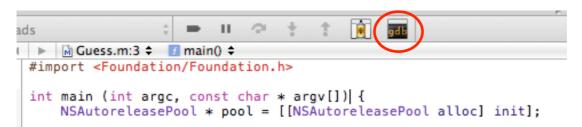
```
int main (int argc, const char * argv[]) {
    NSAutoreleasePool * pool = [[NSAutoreleasePool alloc] init];
    // insert code here...
    //NSLog(@"Hello, World!");
    NSDictionary *car1 = [NSDictionary dictionaryWithObjectsAndKeys:
                                   @"BMW", @"brand", [NSNumber
numberWithInteger:2000], @"year", nil];
    NSDictionary *car2 = [NSDictionary dictionaryWithObjectsAndKeys:
                                   @"Toyota", @"brand", [NSNumber
numberWithInteger:1998], @"year", nil];
    NSDictionary *car3 = [NSDictionary dictionaryWithObjectsAndKeys:
                                   @"Honda", @"brand", [NSNumber
numberWithInteger:2009], @"year", nil];
    NSArray *cars = [NSArray arrayWithObjects:car1, car2, car3, nil];
    NSArray *brands= [NSArray arrayWithObjects:@"Honda", @"Toyota",
nil];
    NSArray *years = [NSArray arrayWithObjects:[NSNumber
numberWithInteger:1995], [NSNumber numberWithInteger:2005], nil];
    NSPredicate *findCar = [NSPredicate predicateWithFormat:@"brand IN
%@ && year BETWEEN %@", brands, years];
    NSArray* foundCar = [cars filteredArrayUsingPredicate:findCar];
    if(foundCar.count > 0)
          NSLog(@"The car(s) found %@", foundCar);
    else
          NSLog(@"No car is found");
    [pool drain];
    return 0;
}
```

Step11. Build and Run (Command + enter)

在Xcode主頁上按下Build and Run, 或是在Build > Build and Run, 即開始Build code並執行.



可在瀏覽程式視窗上方的 gdb 按下來開啓console, 或是在Run > Console來開啓.



Run	Design	SCM	Window	ý	Help
Run				7#4	
Run - Breakpoints Off				∵∺R	
Debug - Breakpoints On				7 <b>%</b> Y	
Run with Performance Tool					•
Stop				⇔器む	
Attach to Process					▶
Debugger			ΰ₩Υ		
Mini Debugger			^# <i>\</i>		
Console			☆端R		
Clear Console			^\#R		
CI	CI.				

## 在Console中顯示有找到一台車brand為Toyota, year為1998

```
● ● ●
                                   TestPredicate - Debugger Console
 Debug | x86_64
                             •
                                                                                         Restart
                                                                                        Pause
                                                     Build and Run
                                                                      Tasks
            Overview
                                       Breakpoints
                                                                                                       Clear Log
There is absolutely no warranty for GDB. Type "show warranty" for This GDB was configured as "x86_64-apple-darwin".tty /dev/ttys000
                                                                             for details.
Loading program into debugger...
Program loaded.
run
[Switching to process 1035]
Running...
2011-02-08 13:26:07.099 TestPredicate[1035:a0f] The car(s) found (
          brand = Toyota;
          year = 1998;
     }
)
Debugger stopped.
Program exited with status value:0.
Debugging of "TestPredicate" ended normally.
                                                                                                  Succeeded
```