

Northern Michigan University (Marquette Co, MI)
CS344-01-26F: iOS/iPhone Programming
Practice Quiz 5: Thursday 1 October 2026 2:00 P.M. EDT
Time: 15 minutes

I have an SQLite database called "names.db". Within this database is a table called NAMES. The NAMES table has two fields: FIRSTNAME and LASTNAME.

Write the following method in Swift:

```
func Matching () { ... }
```

Matching opens up the NAMES database, prints (to the screen, not to the iPhone) those names, in alphabetical order whose first and last names match and then closes the database.

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```
func Matching () {  
    let path=Bundle.main.path(forResource:"names", ofType:"db")  
    //OR let path="/Users/apoe/Desktop/names.db"  
    var db:OpaquePointer? = nil  
    var stmt:OpaquePointer? = nil  
    sqlite_open (path,&db)  
    sqlite3_prepare_v2 (db,"select LASTNAME,FIRSTNAME from NAMES WHERE  
FIRSTNAME = LASTNAME order by LASTNAME",-1,&stmt,nil)  
    while sqlite3_step (stmt)==SQLITE_ROW {  
        let lname=String(cString:sqlite3_column_text(stmt,0))  
        let fname=String(cString:sqlite3_column_text(stmt,1))  
        print ("\"(lname) \"(fname)")  
    }  
    sqlite3_reset(stmt)  
    sqlite3_finalize(stmt)  
    sqlite3_close (db)  
}
```