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**○1** 프로그램 컴파일링

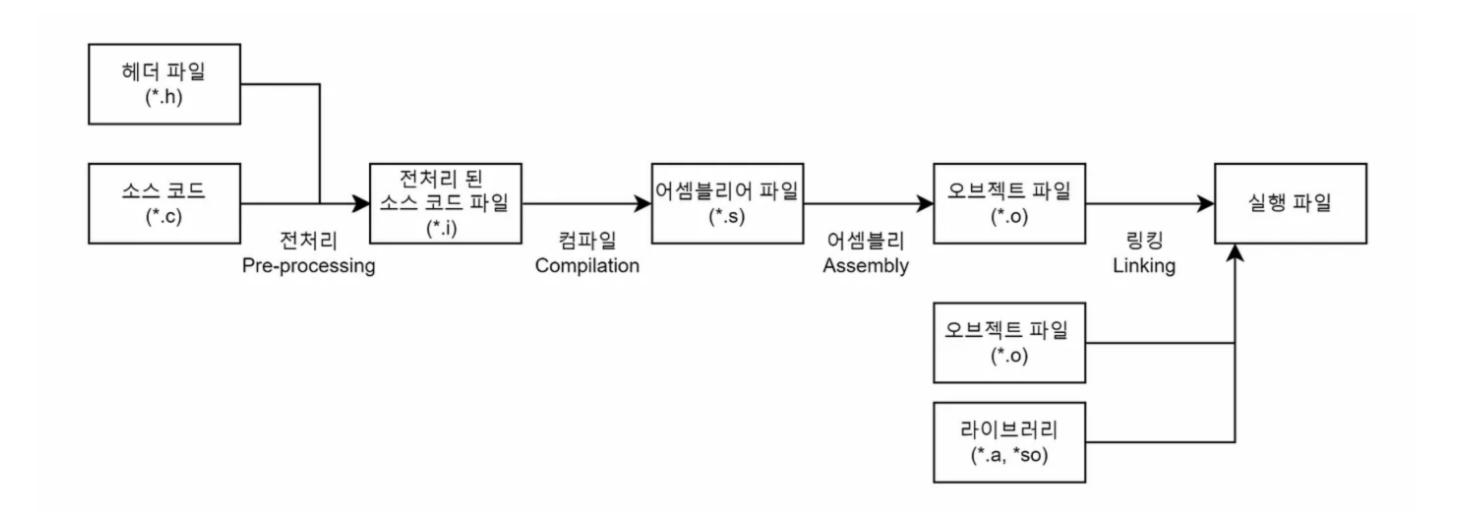
컴파일링 과정 링커와 로더의 차이

**○ 2** 각 언어간 컴파일링 차이

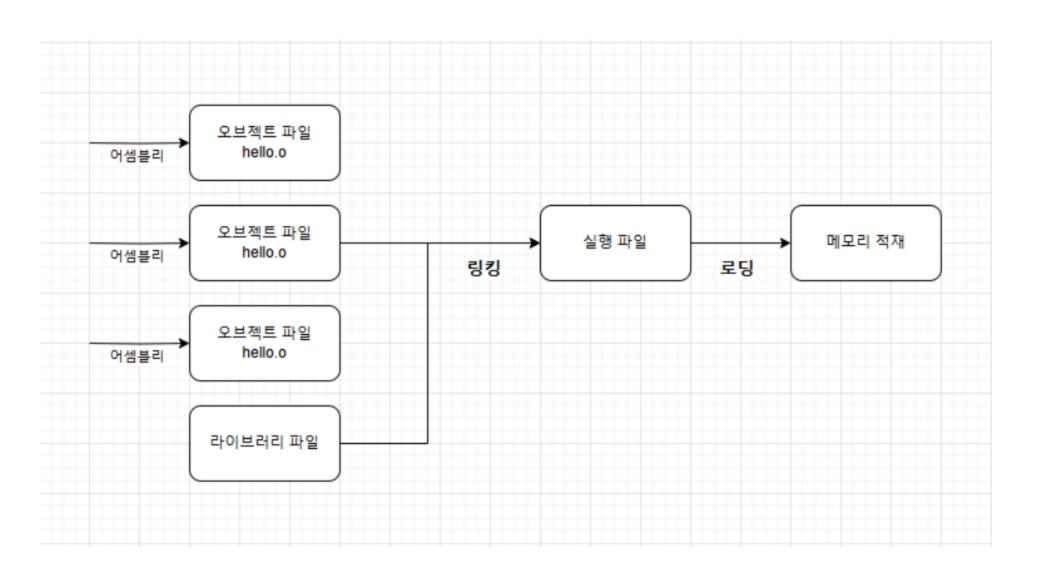
C, Java, Python의 컴파일링 방식 JIT, 인터프리터 방식

컴파일이란?

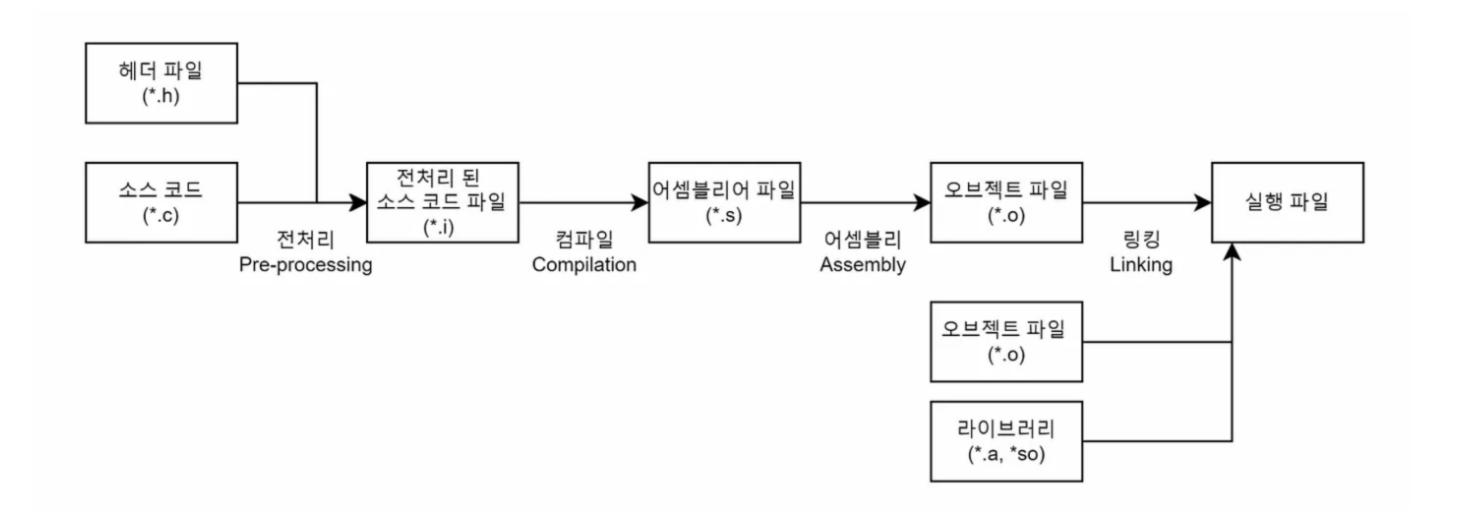
#### 컴파일 과정



### 링커와 로더



### C언어



#### C언어

```
GNU nano 7.2
#include <stdio.h>
int main() {
    printf("Hello, Linux!\n");
    return 0;
}
```

```
GNU nano 7.2
# 0 "hello.c"
# 0 "<built-in>"
# 0 "<command-line>"
# 1 "/usr/include/stdc-predef.h" 1 3 4
# 0 "<command-line>" 2
# 1 "hello.c"
# 1 "/usr/include/stdio.h" 1 3 4
# 28 "/usr/include/stdio.h" 3 4
# 1 "/usr/include/stdio.h" 3 4
# 1 "/usr/include/x86_64-linux-gnu/bits/libc-header-start.h" 1 3 4
# 33 "/usr/include/x86_64-linux-gnu/bits/libc-header-start.h" 3 4
# 394 "/usr/include/features.h" 1 3 4
# 394 "/usr/include/features.h" 3 4
# 1 "/usr/include/features-time64.h" 1 3 4
# 20 "/usr/include/features-time64.h" 3 4
# 1 "/usr/include/features-time64.h" 3 4
```

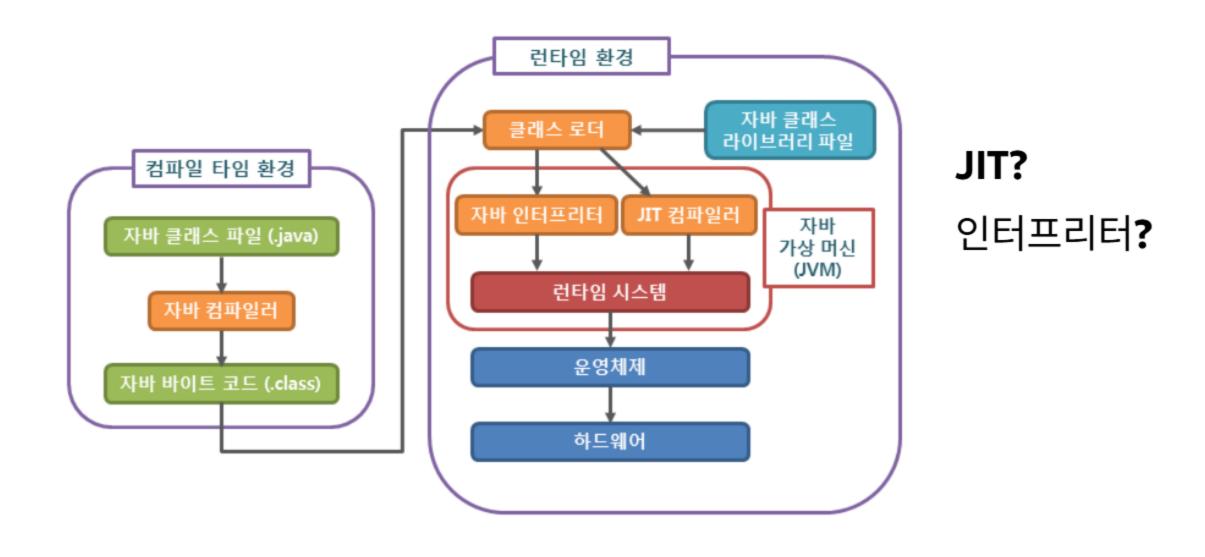
GNU nano 7.2

main:
.LFB0:

.cfi\_startproc
endbr64
pushq %rbp
.cfi\_def\_cfa\_offset 16
.cfi\_offset 6, -16
movq %rsp, %rbp
.cfi\_def\_cfa\_register 6
leaq .LC0(%rip), %rax

hello.c hello.i hello.s

Java



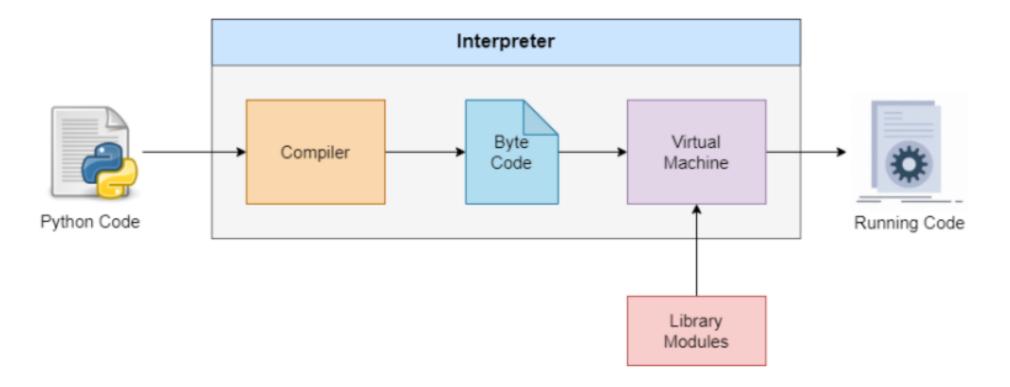
Java

```
GNU nano 7.2
public class hello {
    public static void main(String[] args) {
        System.out.println("Hello, Java!");
    }
}
```

hello.java

hello.class

#### **Python**



#### **Python**

```
GNU nano 7.2
def greet():
    print("Hello Python!")

if __name__ == "__main__":
    greet()
```

hello.py

hello.pyc

# Q&A