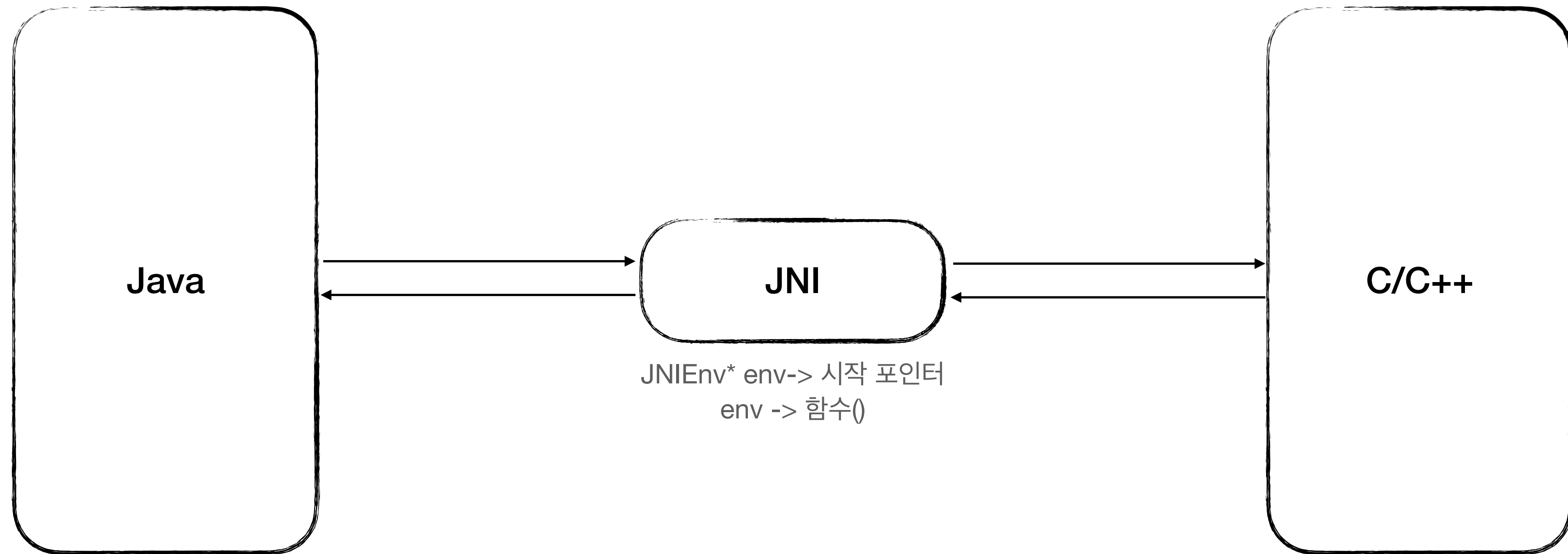


# Android JNI

# JNI 란 ?

- Java Native Interface



# 시그네이처

## - signatur

Java

```
com.example.androidaosp
```

```
public class SignaturActivity
```

```
...  
public native String fun_signatur();
```

```
public native String fun_signatur(String s);
```

```
public native String fun_signatur(int i, int j);
```

C/C++

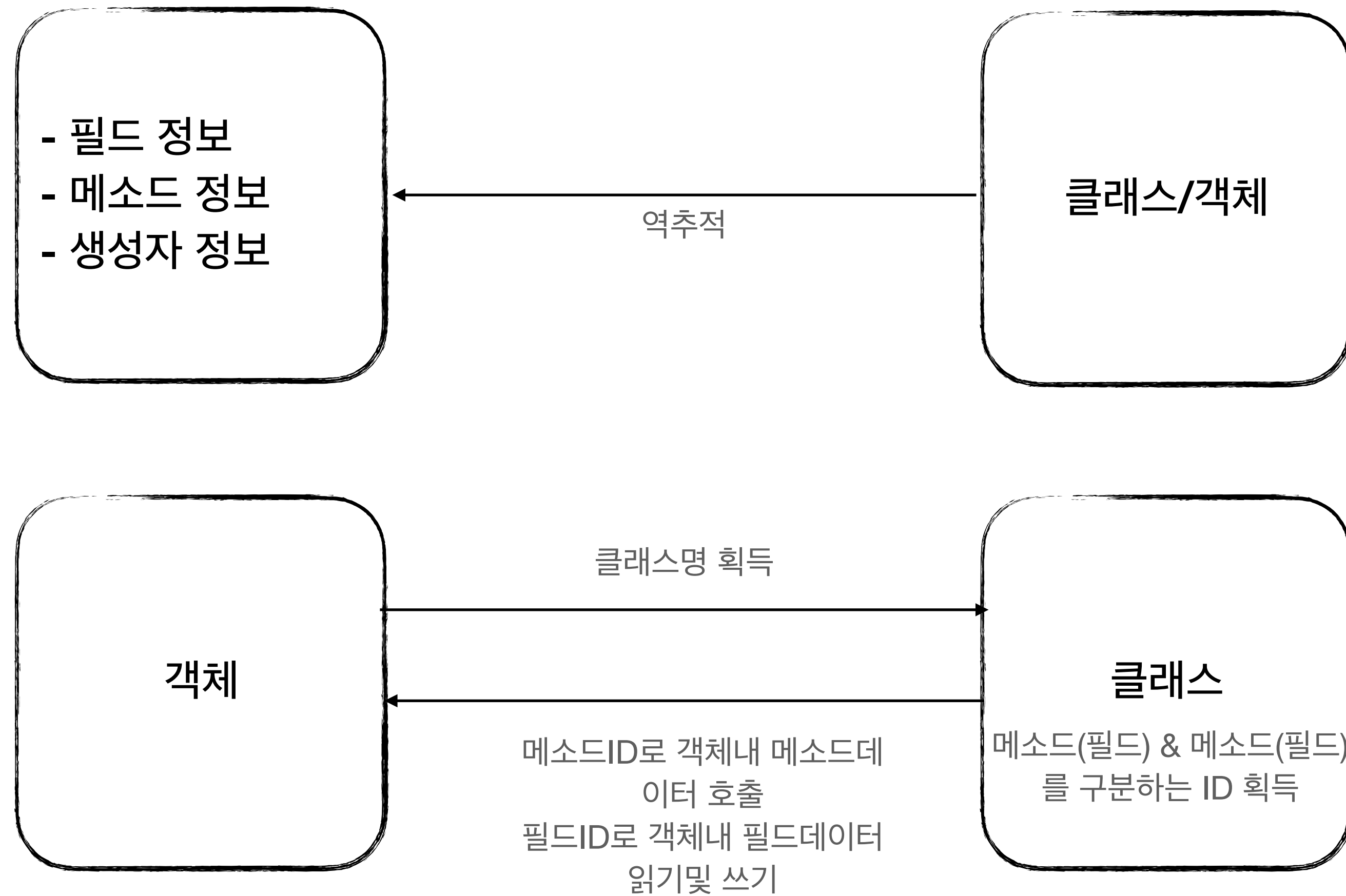
```
extern "C" JINEXPORT jstring JNICALL  
Java_com_example_androidaosp_SignaturActivity_fun_1signatur(JNIEnv *, object);
```

```
extern "C" JINEXPORT jstring JNICALL  
Java_com_example_androidaosp_SignaturActivity_fun_1signatur(Ljava_lang_String_2  
(JNIEnv *, object, jstring s);
```

```
extern "C" JINEXPORT jstring JNICALL  
Java_com_example_androidaosp_SignaturActivity_fun_1signatur__II  
(JNIEnv *, object, jint i, jint j)
```

# reflection

- 클래스와 객체로부터 필드, 메소드, 생성자 등의 정보를 역으로 추적하여 파악



# 클래스 반환

## - 자바로부터 클래스 반환 받기

포인터를 반환

```
jclass GetObjectClass(jobject, obj) : <jni.h>  
jclass FindClasss(const char *name): <jni.h>
```

메소드 아이디를 반환

```
jmethodID GetMethodID(  
jclass clazz,  
const char *name,
```

네이티브 소스 작성 예시

나열 : NativeType Call<type>Method(jobject obj, jmethodID, ...)

가변 변수 : NativeType Call<type>Method(jobject obj, jmethodID methodID, va\_list args)