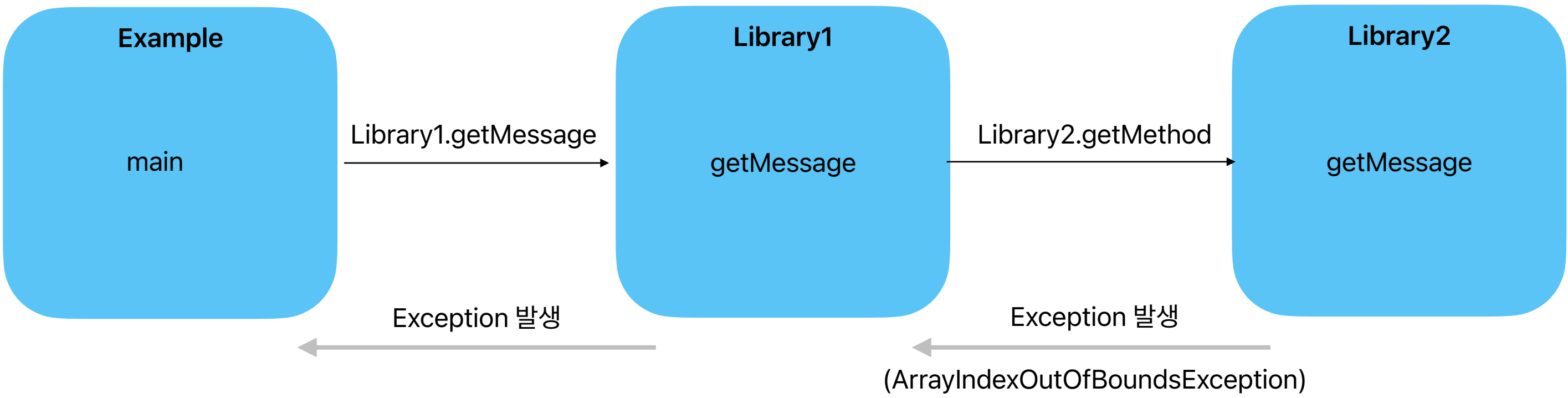


- 반드시 예외처리해야 하는 것은 아님
- 실행 단계에서 발생하는 예외
- 반드시 예외처리해야함
- 처리하지 않을 거면 외부로 던져야함
- 처리하지 않거나 던지지 않으면 컴파일 불가능



```
/**
 * 예외 전파 샘플
 */
public class Example {
    Library1 library = new Library1();
    public Library1 getLibrary() {
        return library;
    }

    public static void main(final String[] args) {
        try{
            final Example example = new Example();
            example.getLibrary().getMessage(100);
        }catch(final Exception e){
            e.printStackTrace();
        }
    }

    /**
     * Library1
     */
    public class Library1 {
        public void getMessage(int indexOfMessage) throws Exception {
            try{
                String msg = new Library2().getMessage(indexOfMessage);
                System.out.println("msg: " + msg);
            }catch(java.lang.ArrayIndexOutOfBoundsException e){
                throw new Exception("심각한 예외:", e);
            }
        }
    }

    /**
     * Library2
     */
    public class Library2 {

        String[] messages = {
            "I am 18 years old.",
            "Maybe, I am a man.",
            "Today is Friday. is it right?",
            "Here is U.S."
        };

        public String getMessage(int indexOfMessage){
            //Occur RnuntimeException : java.lang.ArrayIndexOutOfBoundsException
            return messages[indexOfMessage];
        }
    }
}
```

실행 콘솔 로그

java.lang.Exception: 심각한 예외:
at Example\$Library1.getMessage(Example.java:43)
at Example.main(Example.java:15)
Caused by: java.lang.ArrayIndexOutOfBoundsException: 100
at Example\$Library2.getMessage(Example.java:62)
at Example\$Library1.getMessage(Example.java:40)
... 1 more