

Java I/O Stream API

byte stream

character stream

O ↗
↓ ↙

InputStream

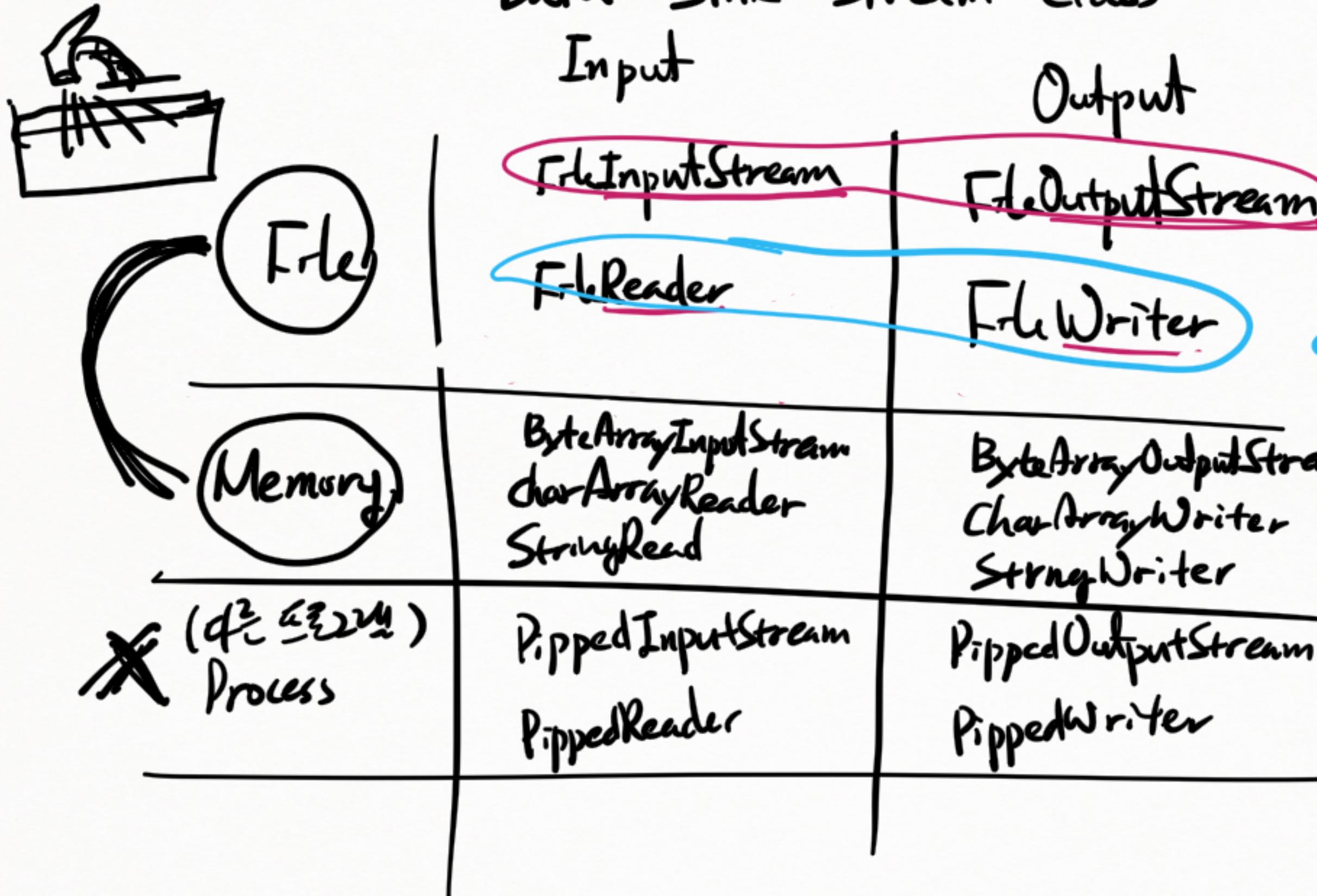
Reader

↗ I ↗
↓ ↙

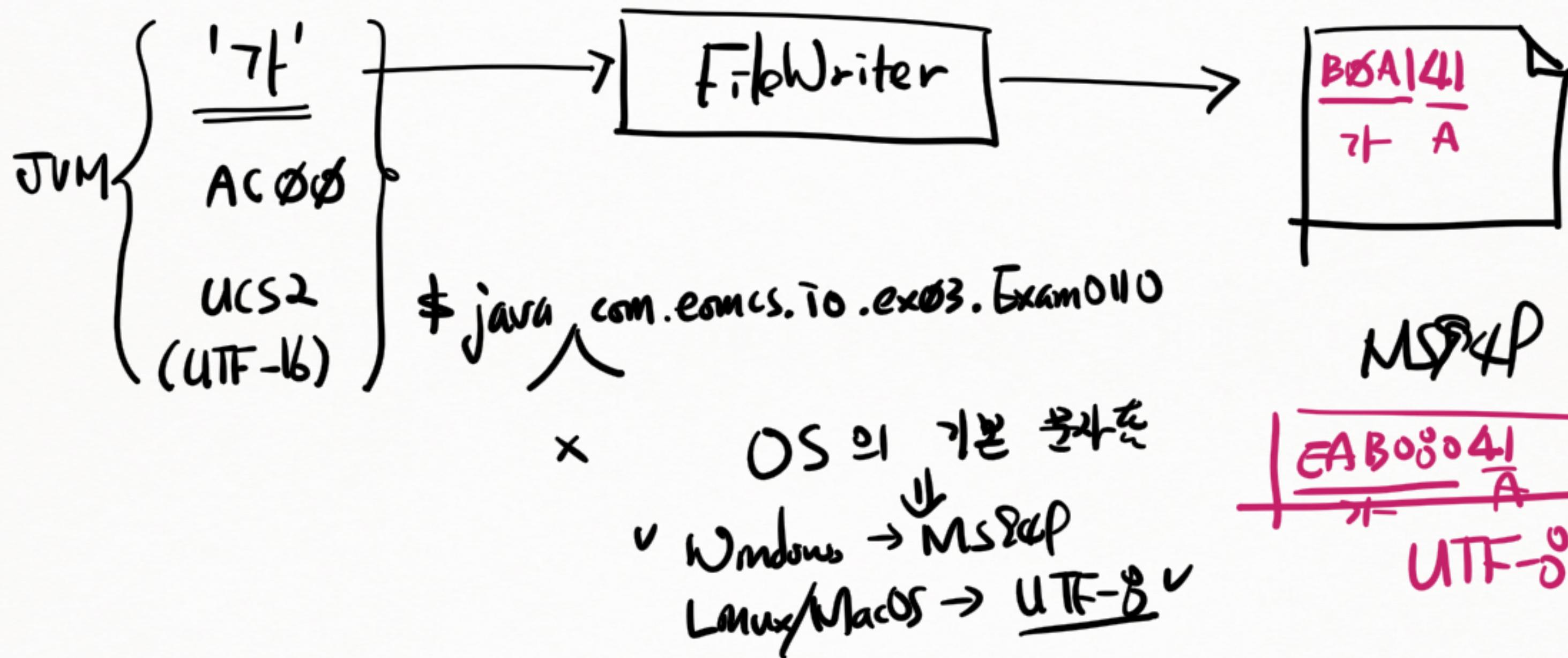
OutputStream

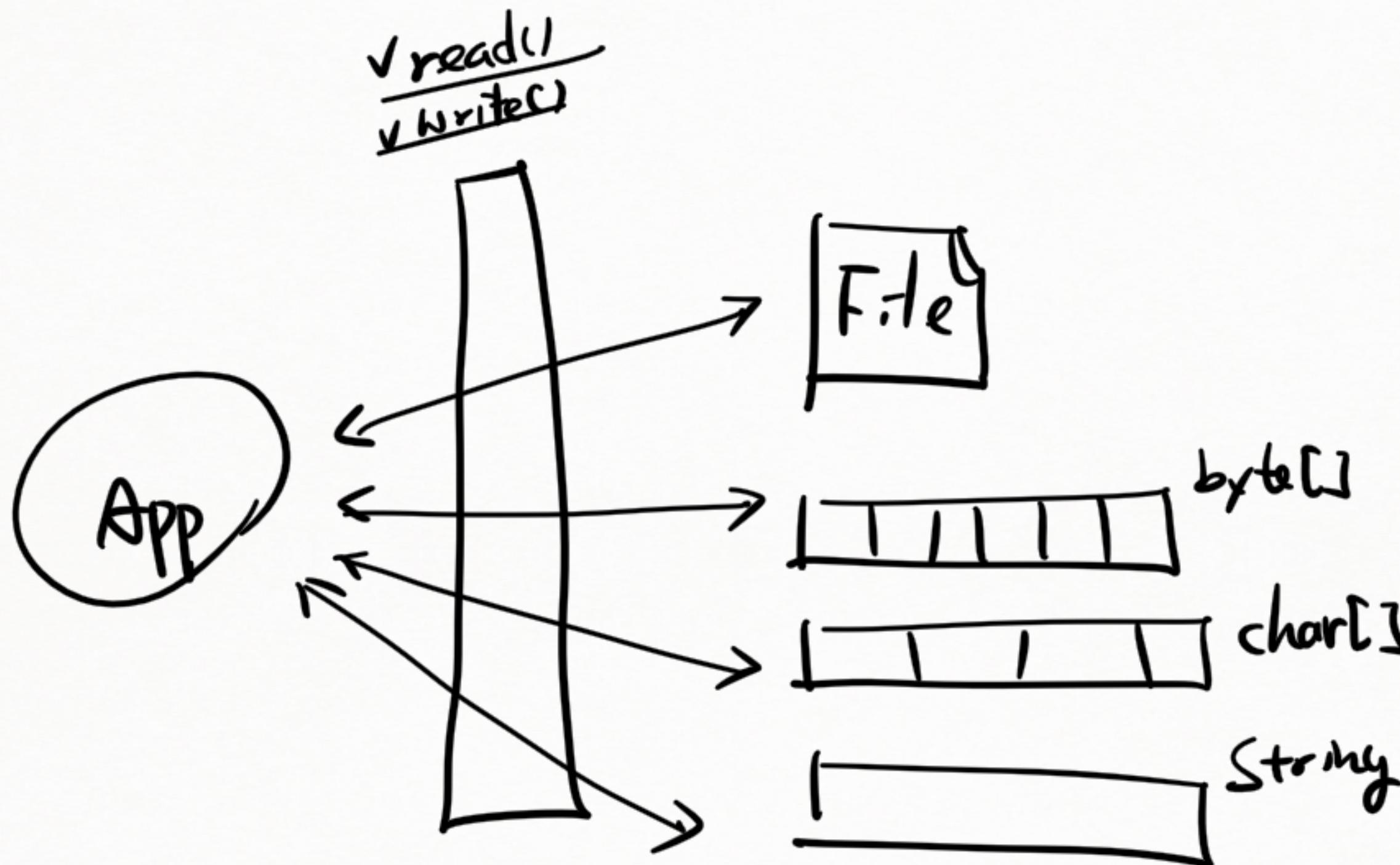
Writer

Data Sink Stream Class



ex) .grf - jpg - ppt
.avi - pdf
ex) .csv .html .java
.js .css .txt





MS949 : 41 42 B0 A1 B0 A2

UTF-8 : 41 42 EA B0 80 EA B0 81

UTF-16BE : 0041 0042 AC00 AC01

UTF-16LE : 4100 4200 AC00 AC01

JVM
↓

char : UCS2 (UTF-16BE)

0041 0042 AC00 AC01
A B 𠂇 𠂇

new String(byte[] , offset , length , charset)

File/Network

✗ MS949
✗ EUC-KR
UTF-8



DBMS
↓
✗

JVM



UCS2

"

UTF-16BE

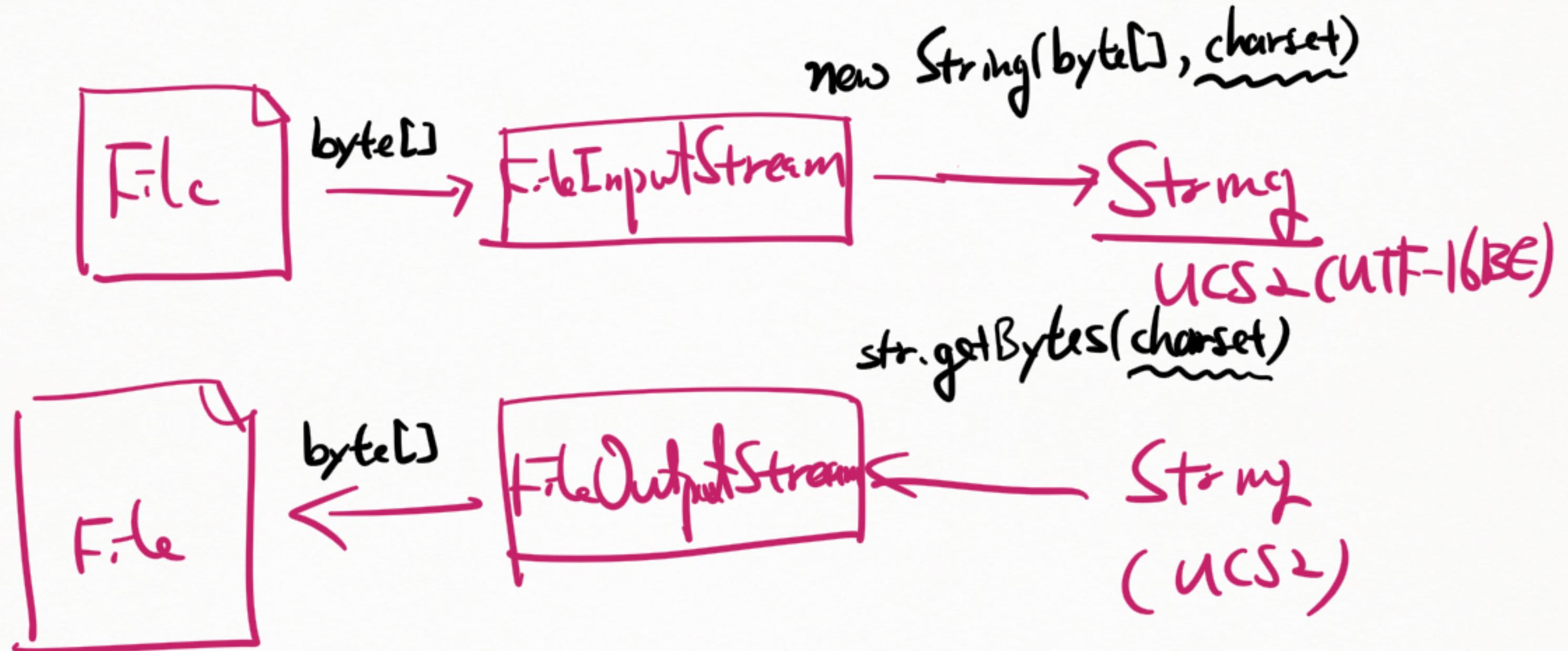
"

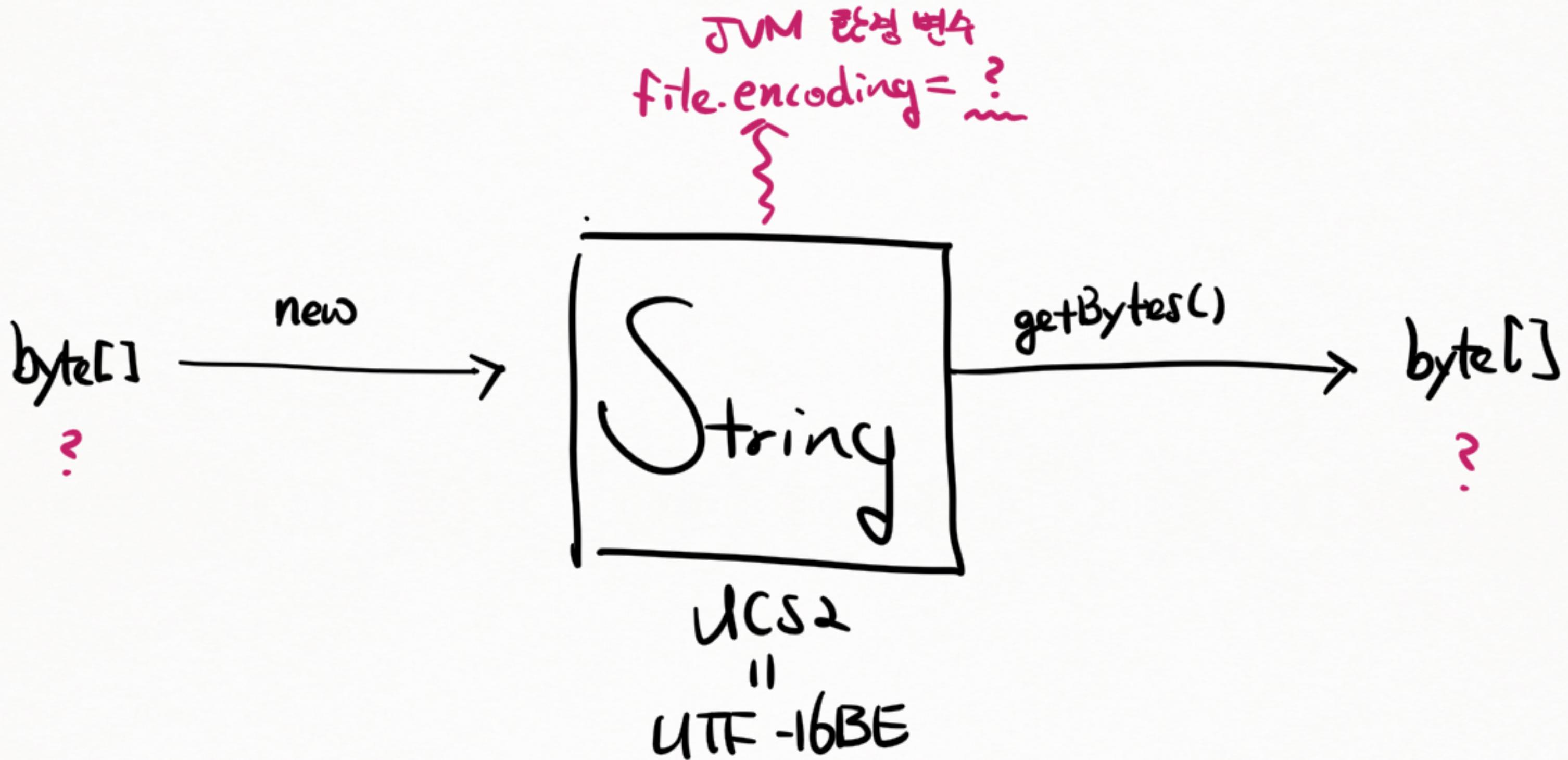
char c;
~~~ 'A' → 0041  
'가' → Aced

File/Network

MSP430  
✗  
EUC-KR  
**UTF-8**







$$E \Rightarrow \underline{3017} - \underline{3030} \Rightarrow \text{값 } \boxed{?}$$

2×XX

중식

$34\text{XX} - 30\text{XX}$  합식

$$\begin{array}{r} 411X - 30XX - 30XX \quad 190 \text{ 만원} \\ 9999 + 30XX - 12XX - 30XX \quad 13 \end{array}$$

✓ A  $\Rightarrow \begin{array}{r} 2134 \\ 3418 - 3012 \\ \hline 12 \end{array}$

✓ B  $\Rightarrow \begin{array}{r} 3418 - 3011 \\ 4119 - 3011 \\ \hline 12 \end{array}$

✓ C  $\Rightarrow \begin{array}{r} 4133 \\ 9999 - 3017 \\ \hline 12 \end{array}$

D  $\Rightarrow \begin{array}{r} 3083 \\ 9999 - 3017 \\ \hline 12 \end{array}$

file.encoding = UTF-8

