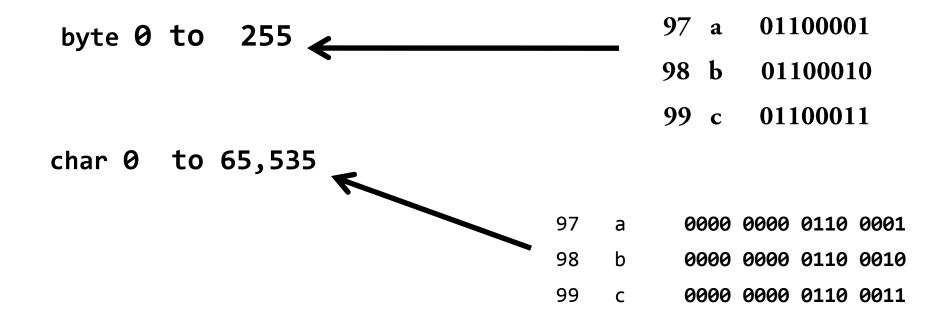


Byte Streams

Character Streams

• byte -128 to +127

• char -32,768 to 32,767



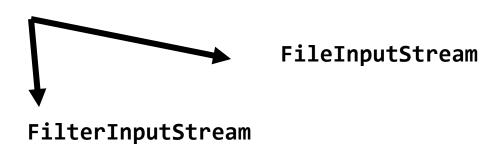
Byte Streams

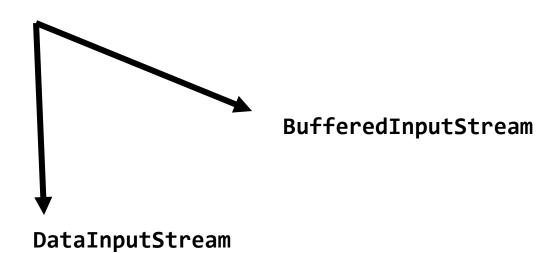
• java.io.*;

InputStream

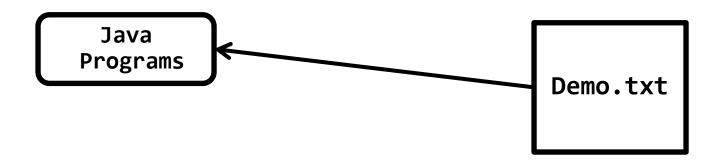
OutputStream

InputStream

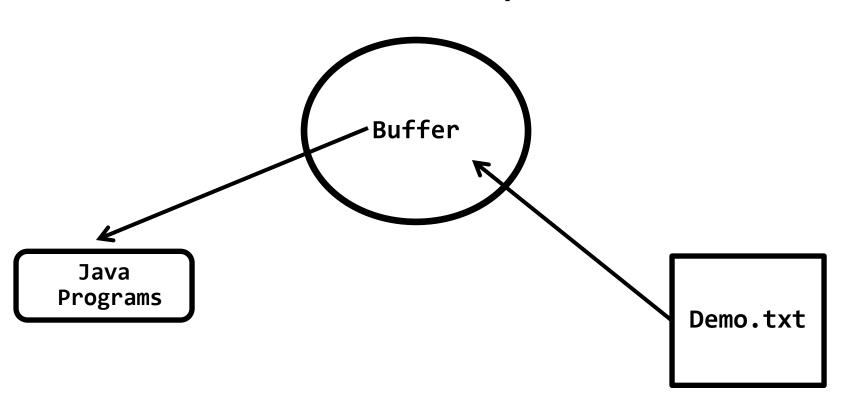




FileInputStream



BufferedInputStream



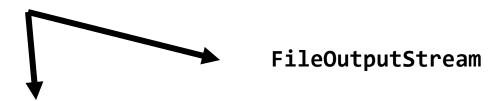
```
class InputStream
{
   int read()
   int read(byte[])
   int available()
}
```

✓ BufferedInputStream(InputStream)

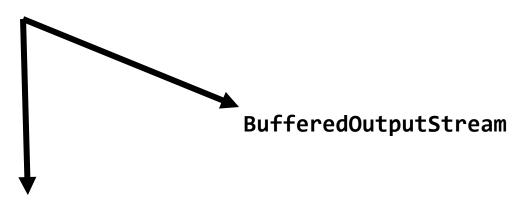
✓ BufferedInputStream(InputStream,int)

```
FileInputStream fis=new FileInputStream("Test.txt");
int c;
while((c=fis.read())!=-1)
{
    System.out.print(" "+(char)c);
}
```

OutputStream

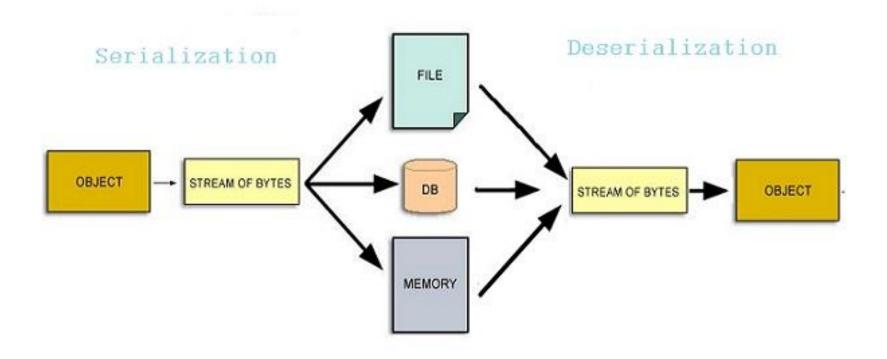


FilterOutputStream



D-+-U-+---+C+----

```
class OutputStream
{
    void write(byte[])
    void write(byte[], int, int)
    void close()
}
```



Serialization

```
class ObjectOutputStream
{
    void writeObject(Object)
}
```

```
class ObjectInputStream
{
   Object readObject()
}
```

Character Streams

• java.io.*;

Reader

Writer

• java.io.*;

InputStream → Reader

OutputStream → Writer

• java.io.*;

