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Applying Regular Expressions on the Contents of a File



```
import java.io.FileInputStream;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.CharBuffer;
import java.nio.channels.FileChannel;
import java.nio.charset.Charset;
import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class Main {
    public static CharSequence fromFile(String filename) throws IOException {
        FileInputStream fis = new FileInputStream(filename);
        FileChannel fc = fis.getChannel();

        // Create a read-only CharBuffer on the file
        ByteBuffer bbuf = fc.map(FileChannel.MapMode.READ_ONLY, 0, (int) fc.size());
        CharBuffer cbuf = Charset.forName("8859_1").newDecoder().decode(bbuf);
        return cbuf;
    }

    public static void main(String[] argv) throws Exception {
        // Create matcher on file
        Pattern pattern = Pattern.compile("pattern");
        Matcher matcher = pattern.matcher(fromFile("infile.txt"));

        // Find all matches
        while (matcher.find()) {
            // Get the matching string
            String match = matcher.group();
        }
    }
}
```



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2. [Use NIO to read a text file.](#)

3. [Create a read-only memory-mapped file](#)
4. [Create a read-write memory-mapped file](#)
5. [Create a private \(copy-on-write\) memory-mapped file.](#)
6. [use FileChannel and ByteBuffer](#)
7. [Fast Copy File](#)
8. [A ByteBuffer is a fixed-capacity buffer that holds byte values.](#)
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10. [Create a non-direct ByteBuffer with a 10 byte capacity](#)
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16. [Get remaining byte count in a ByteBuffer](#)
17. [Set the limit for ByteBuffer](#)
18. [This convenience method sets the position to 0](#)
19. [Putting Bytes into a ByteBuffer](#)
20. [Converting Between a ByteBuffer an a Byte Array](#)
21. [Retrieve bytes between the position and limit](#)
22. [Retrieve all bytes in the buffer](#)
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