

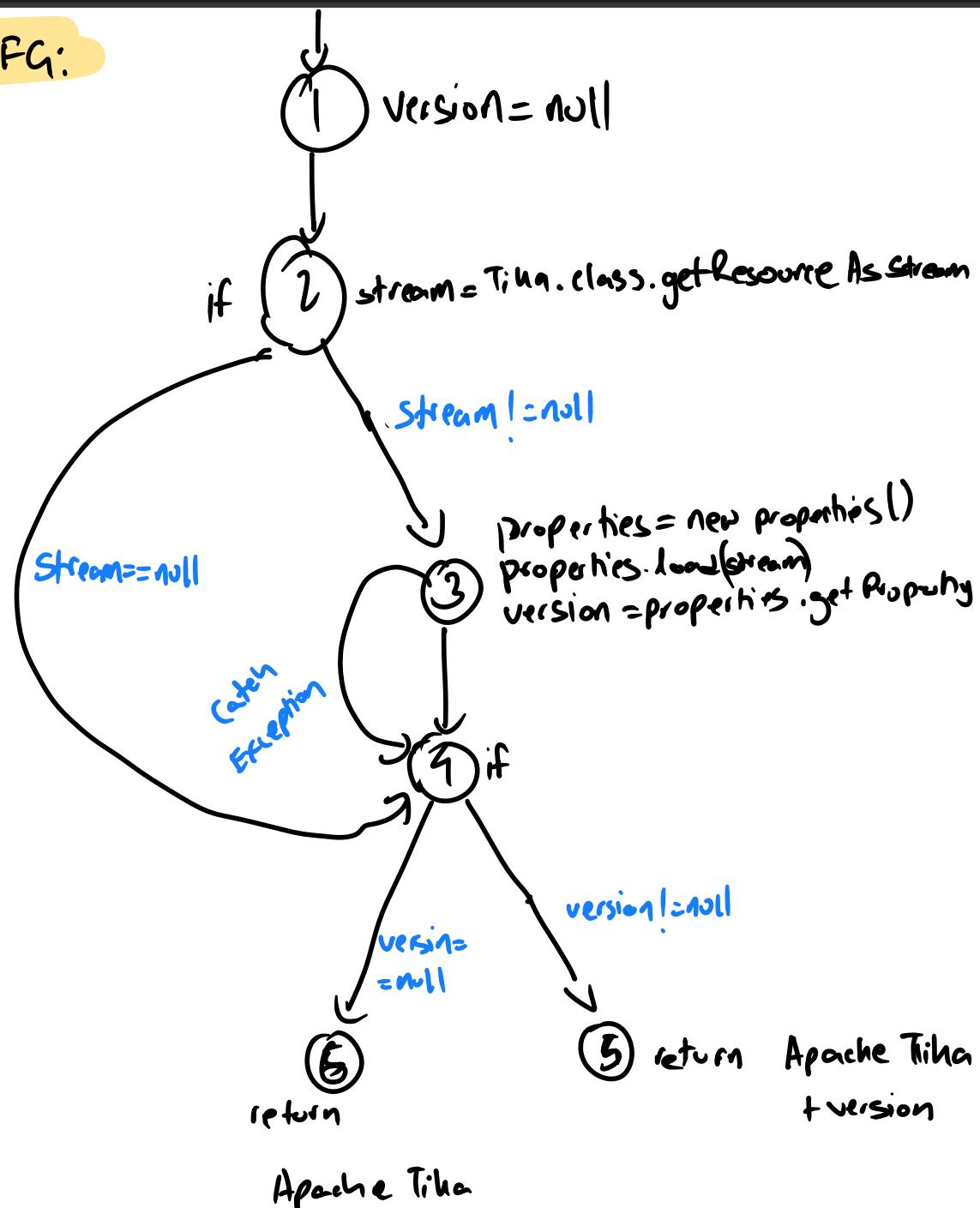
Control Flow Graph & Data Flow Graph

```

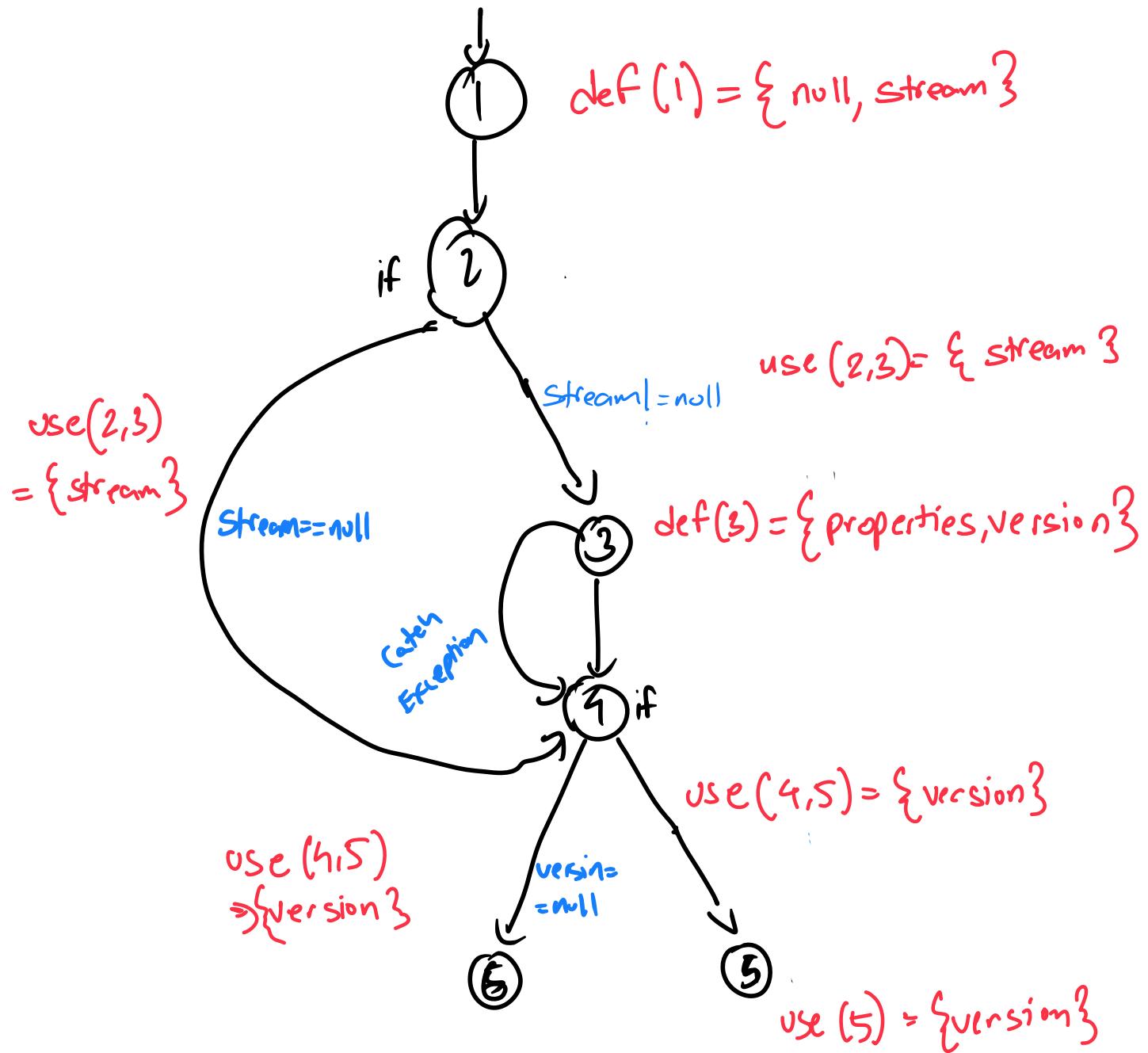
6 public static String getString() {
7     String version = null;
8
9     try (InputStream stream = Tika.class
10         .getResourceAsStream("/META-INF/maven/org.apache.tika/tika-core/pom.properties")) {
11         if (stream != null) {
12             Properties properties = new Properties();
13             properties.load(stream);
14             version = properties.getProperty("version");
15         }
16     } catch (Exception ignore) {
17     }
18
19     if (version != null) {
20         return "Apache Tika " + version;
21     } else {
22         return "Apache Tika";
23     }
24 }
25

```

CFG:



DFG:

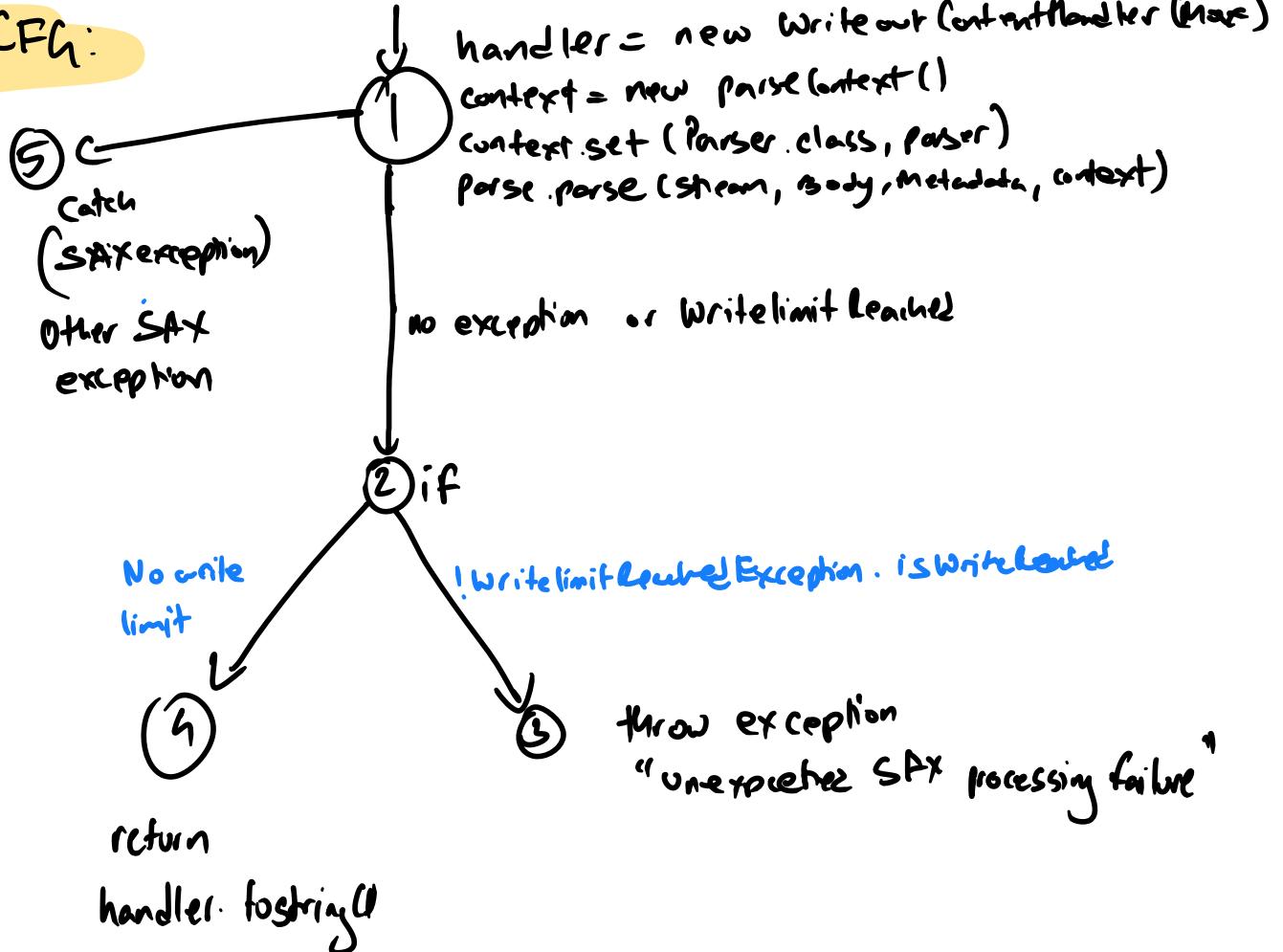


```

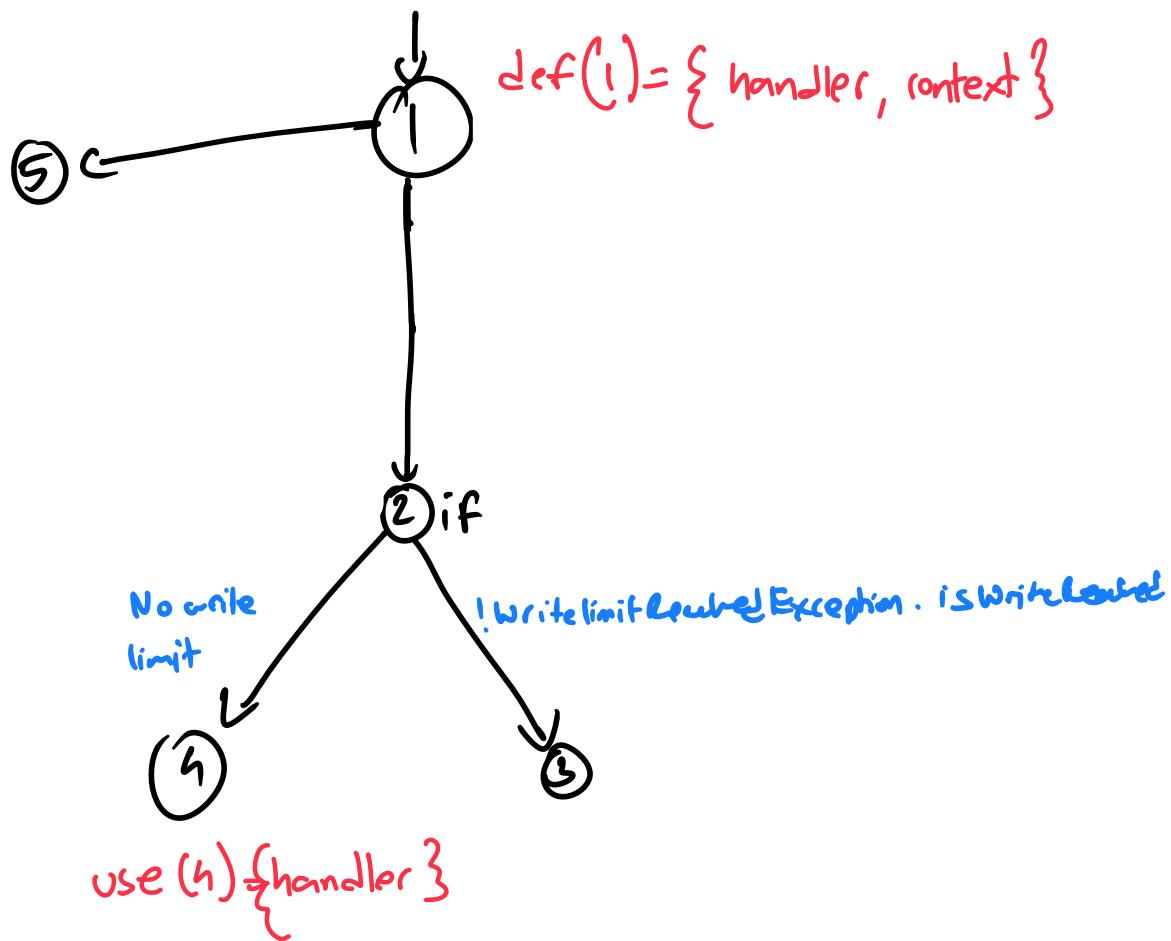
public String parseToString(InputStream stream, Metadata metadata, int maxLength)
    throws IOException, TikaException {
    WriteOutContentHandler handler = new WriteOutContentHandler(maxLength);
    ParseContext context = new ParseContext();
    context.set(Parser.class, parser);
    try (stream) {
        parser.parse(stream, new BodyContentHandler(handler), metadata, context);
    } catch (SAXException e) {
        if (!WriteLimitReachedException.isWriteLimitReached(e)) {
            // This should never happen with BodyContentHandler...
            throw new TikaException("Unexpected SAX processing failure", e);
        }
    }
    return handler.toString();
}

```

CFG:



DFG:



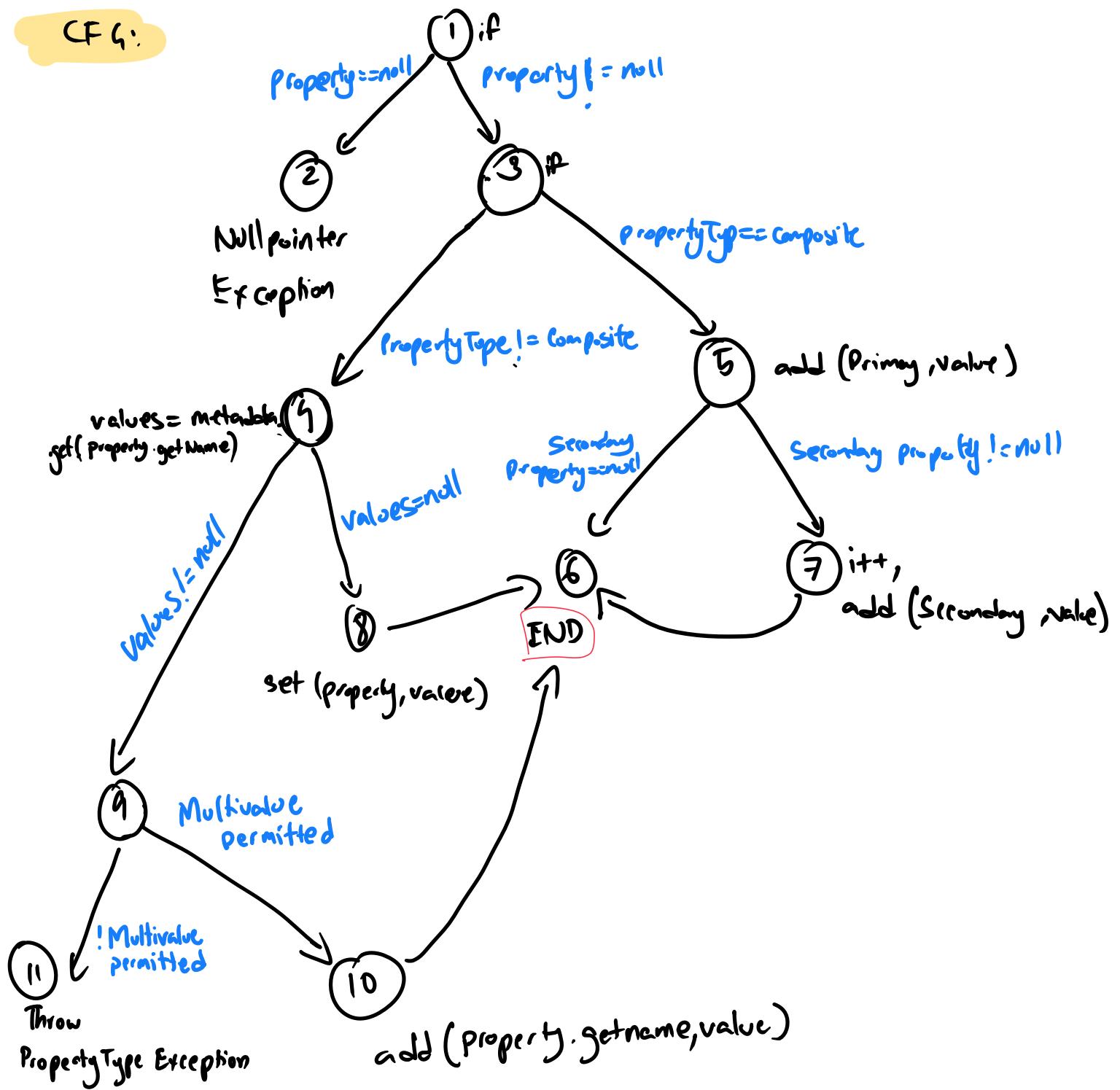
Tika config

```

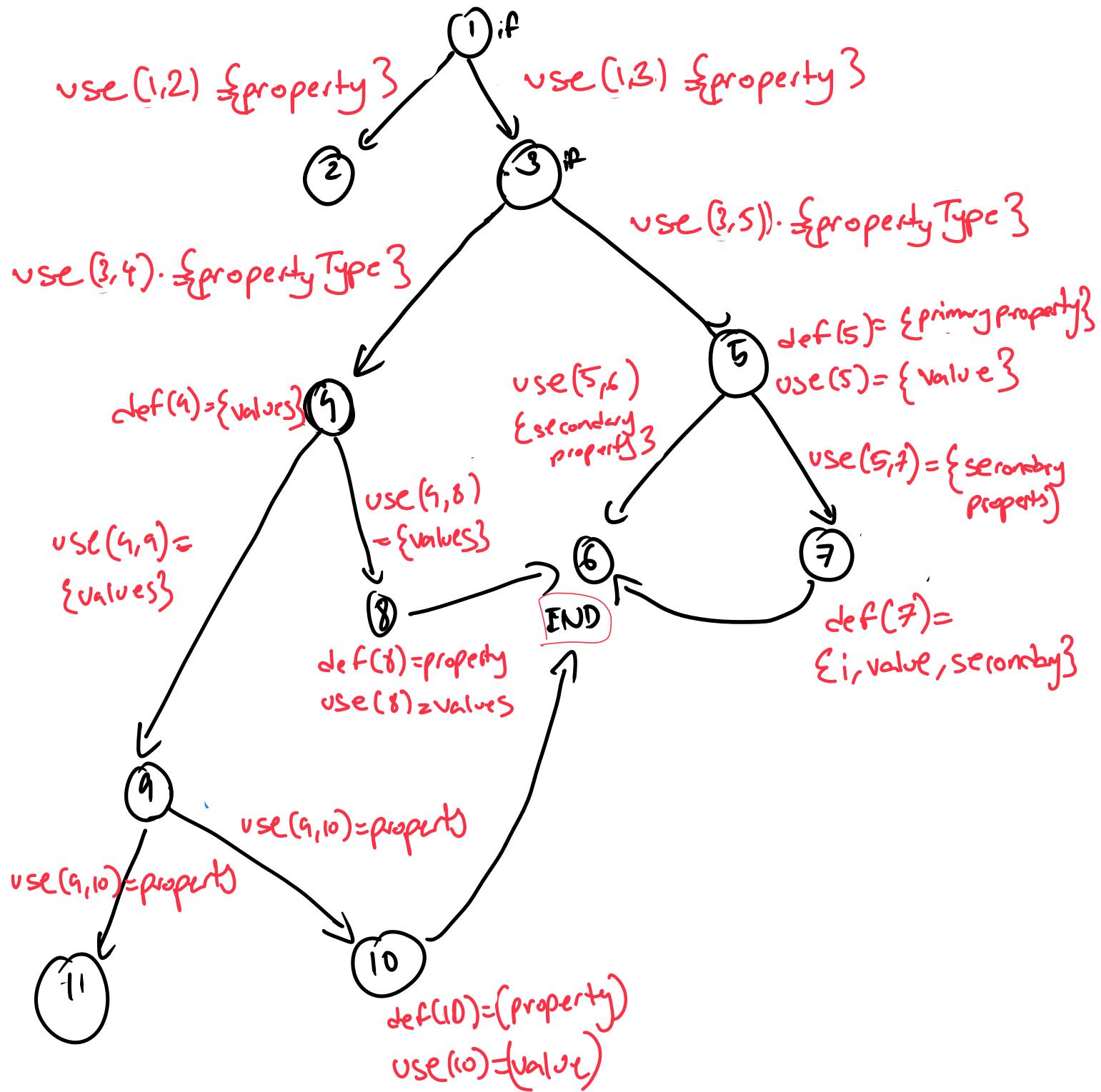
public void add(final Property property, final String value) {
    if (property == null) {
        throw new NullPointerException("property must not be null");
    }
    if (property.getPropertyType() == PropertyType.COMPOSITE) {
        add(property.getPrimaryProperty(), value);
        if (property.getSecondaryExtractProperties() != null) {
            for (Property secondaryExtractProperty : property.getSecondaryExtractProperties()) {
                add(secondaryExtractProperty, value);
            }
        }
    } else {
        String[] values = metadata.get(property.getName());
        if (values == null) {
            set(property, value);
        } else {
            if (property.isMultiValuePermitted()) {
                add(property.getName(), value);
            } else {
                throw new PropertyTypeException(
                    property.getName() + " : " + property.getPropertyType());
            }
        }
    }
}

```

CF 4:



DF4:



TIUA METADATA

```

public boolean equals(Object o) {
    if (!(o instanceof Metadata)) {
        return false;
    }

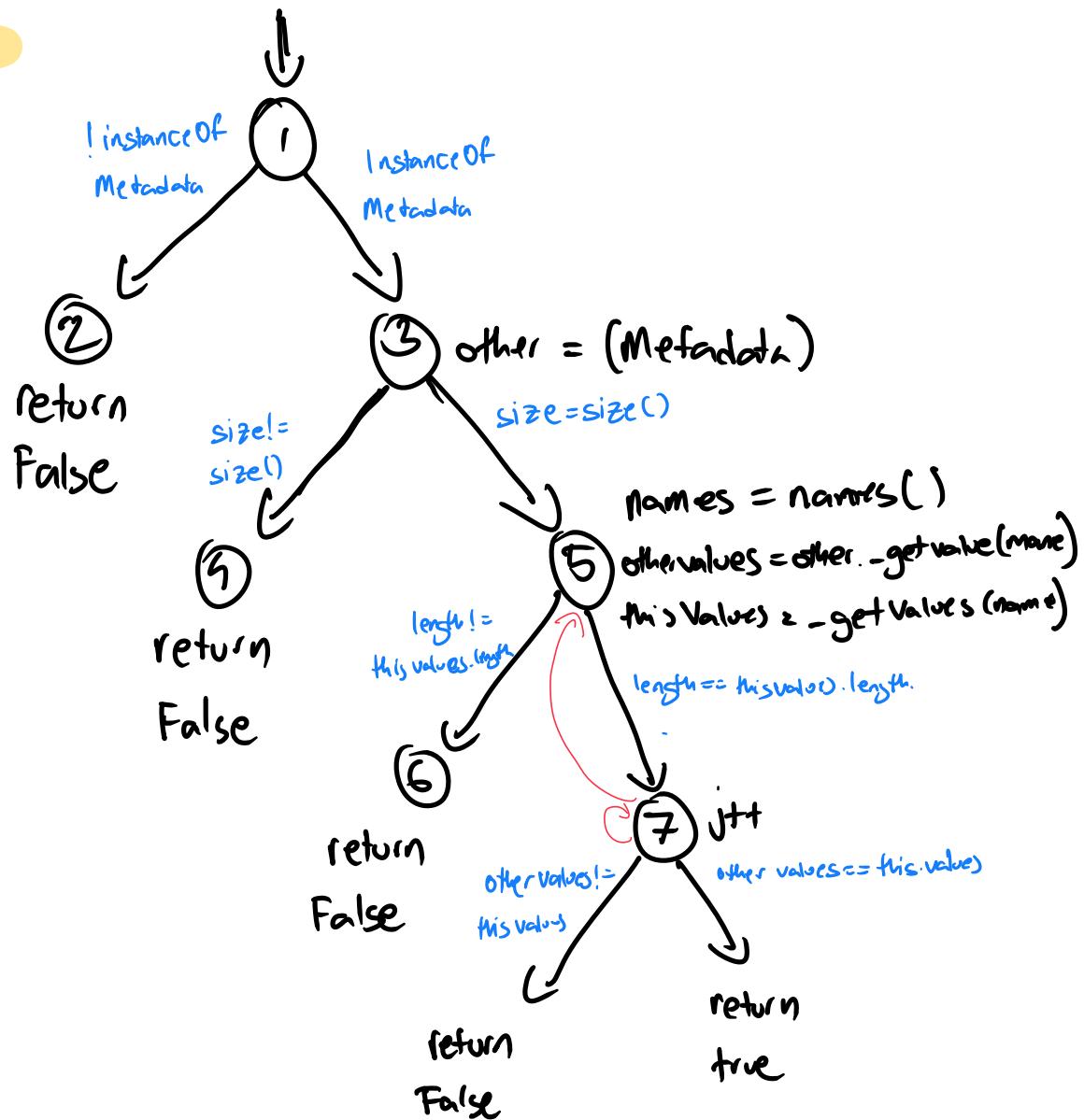
    Metadata other = (Metadata) o;

    if (other.size() != size()) {
        return false;
    }

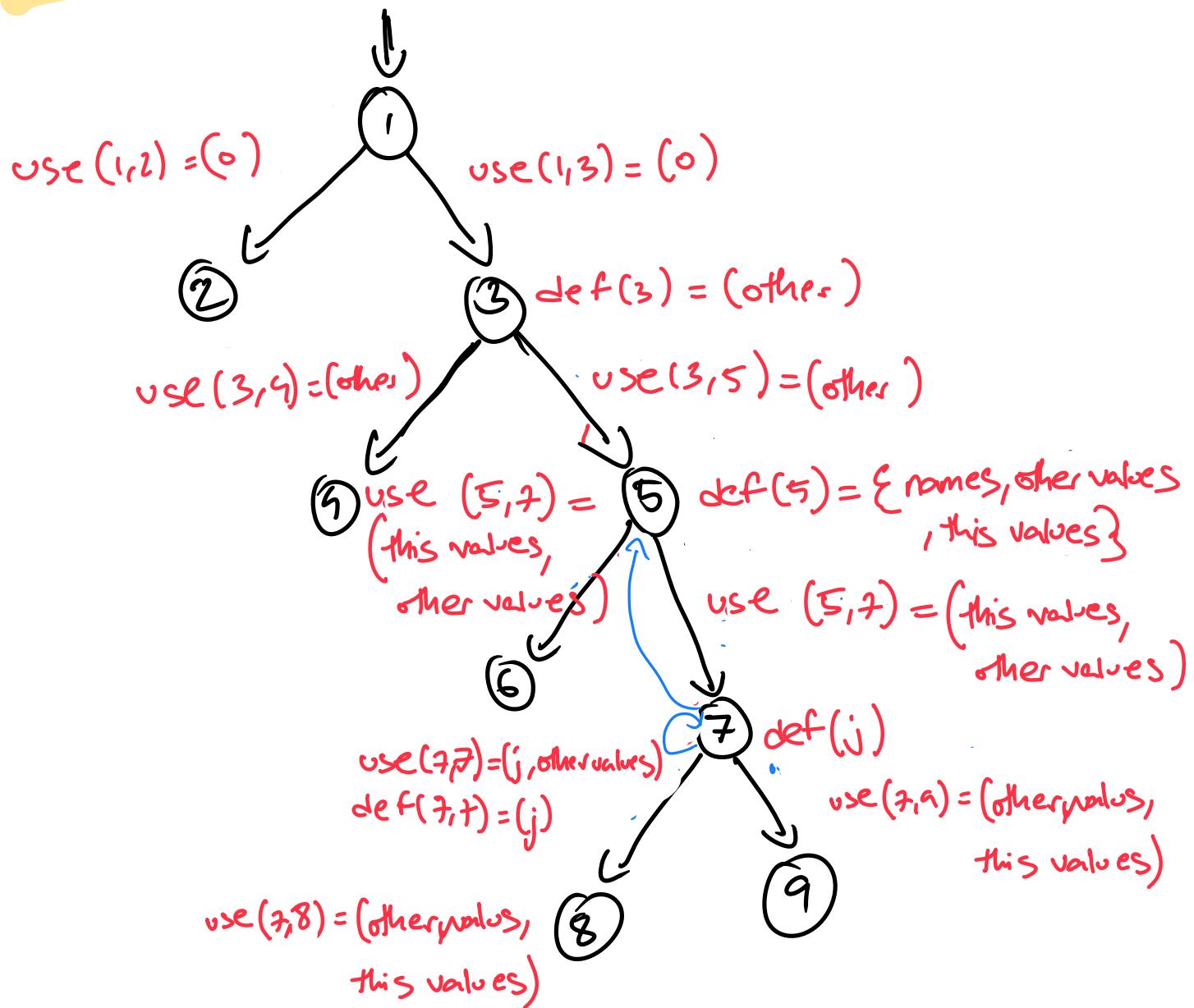
    String[] names = names();
    for (String name : names) {
        String[] otherValues = other._getValues(name);
        String[] thisValues = _getValues(name);
        if (otherValues.length != thisValues.length) {
            return false;
        }
        for (int j = 0; j < otherValues.length; j++) {
            if (!otherValues[j].equals(thisValues[j])) {
                return false;
            }
        }
    }
    return true;
}

```

CFG:



DFG:

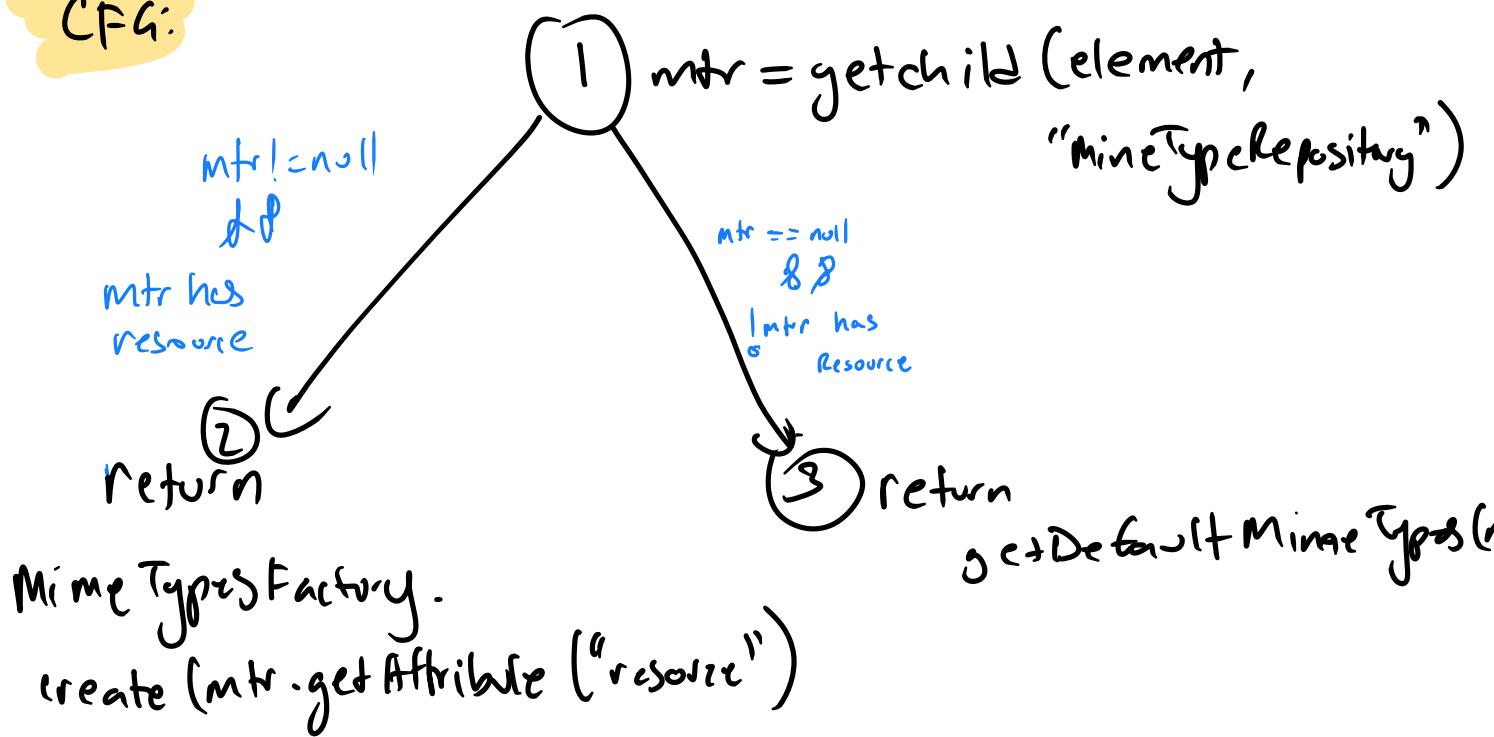


```

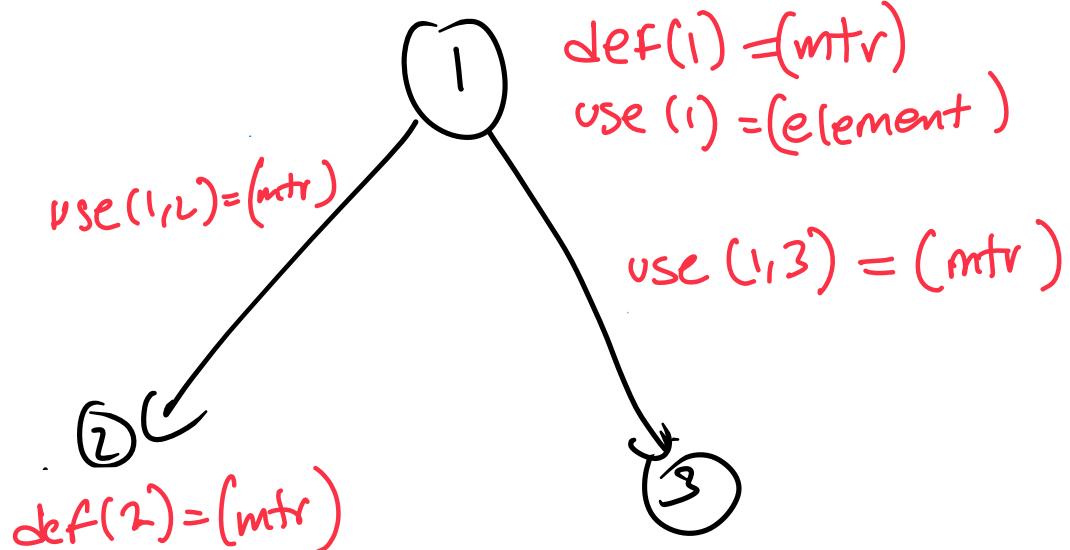
private static MimeTypeTypes typesFromDomElement(Element element)
    throws TikaException, IOException {
    Element mtr = getChild(element, "mimeTypeRepository");
    if (mtr != null && mtr.hasAttribute("resource")) {
        return MimeTypeFactory.create(mtr.getAttribute("resource"));
    } else {
        return getDefaultMimeType(null);
    }
}

```

CFG:



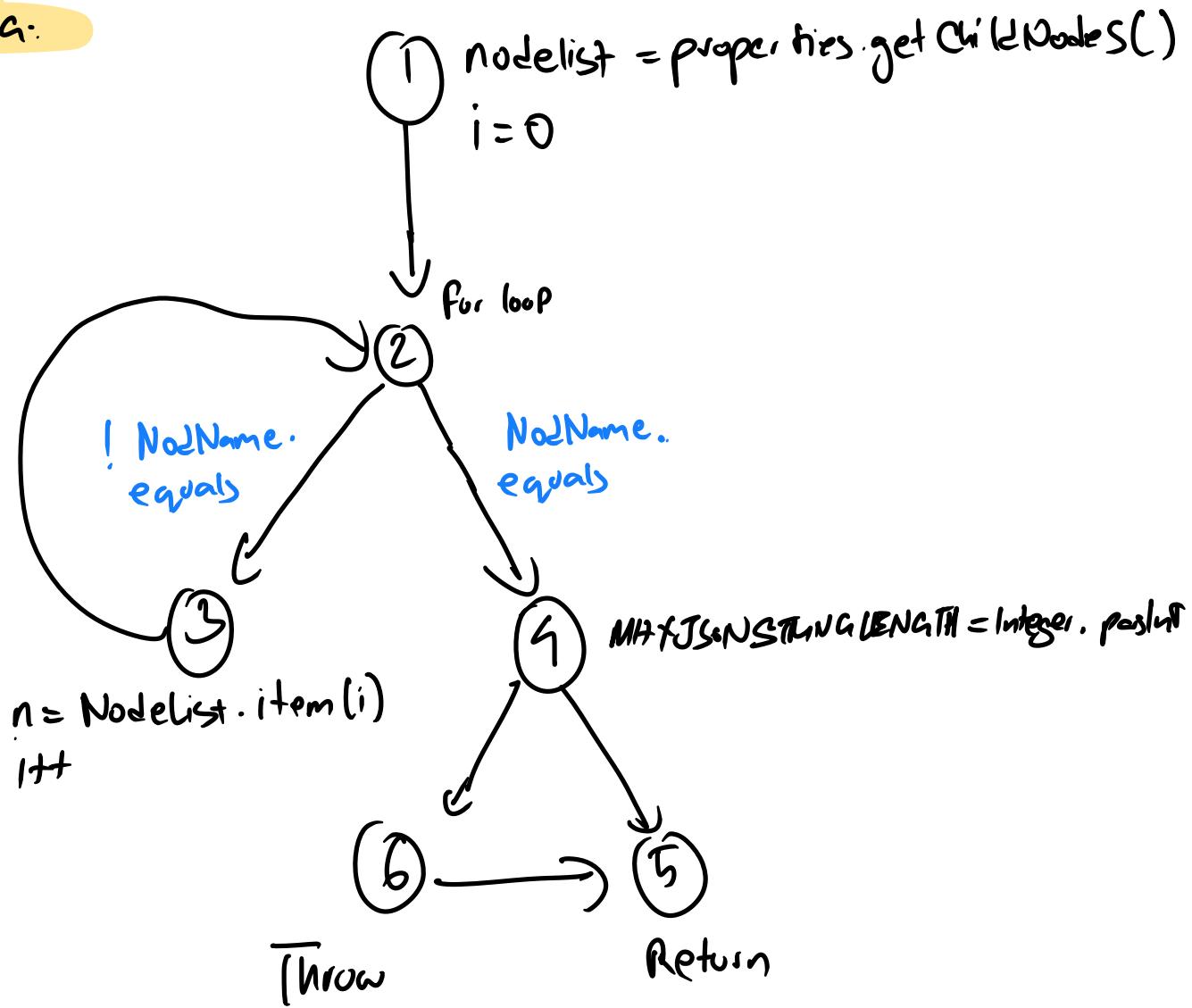
DFG:



Fault INPUT STREAM

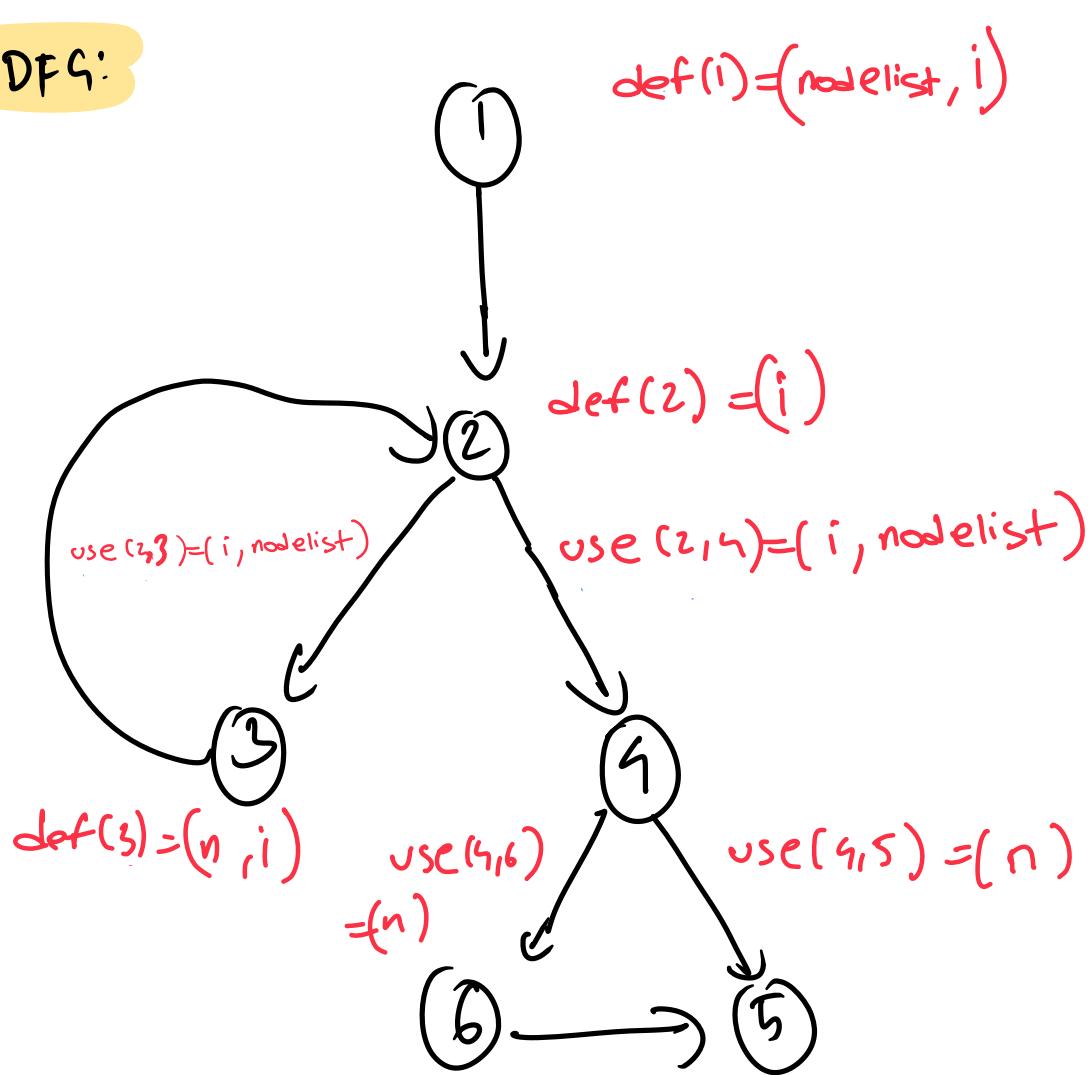
```
private void setMaxJsonStringFieldLength(Element properties) throws TikaConfigException {  
    NodeList nodeList = properties.getChildNodes();  
    for (int i = 0; i < nodeList.getLength(); i++) {  
        Node n = nodeList.item(i);  
        if (n.getNodeName().equals(MAX_JSON_STRING_FIELD_LENGTH_ELEMENT_NAME)) {  
            try {  
                MAX_JSON_STRING_FIELD_LENGTH = Integer.parseInt(n.getTextContent());  
            } catch (NumberFormatException e) {  
                throw new TikaConfigException(MAX_JSON_STRING_FIELD_LENGTH_ELEMENT_NAME + " " +  
                    "is not an integer", e);  
            }  
        }  
    }  
}
```

CFG:



TikaException

DFG:



```

public int peek(byte[] buffer) throws IOException {
    int n = 0;

    mark(buffer.length);

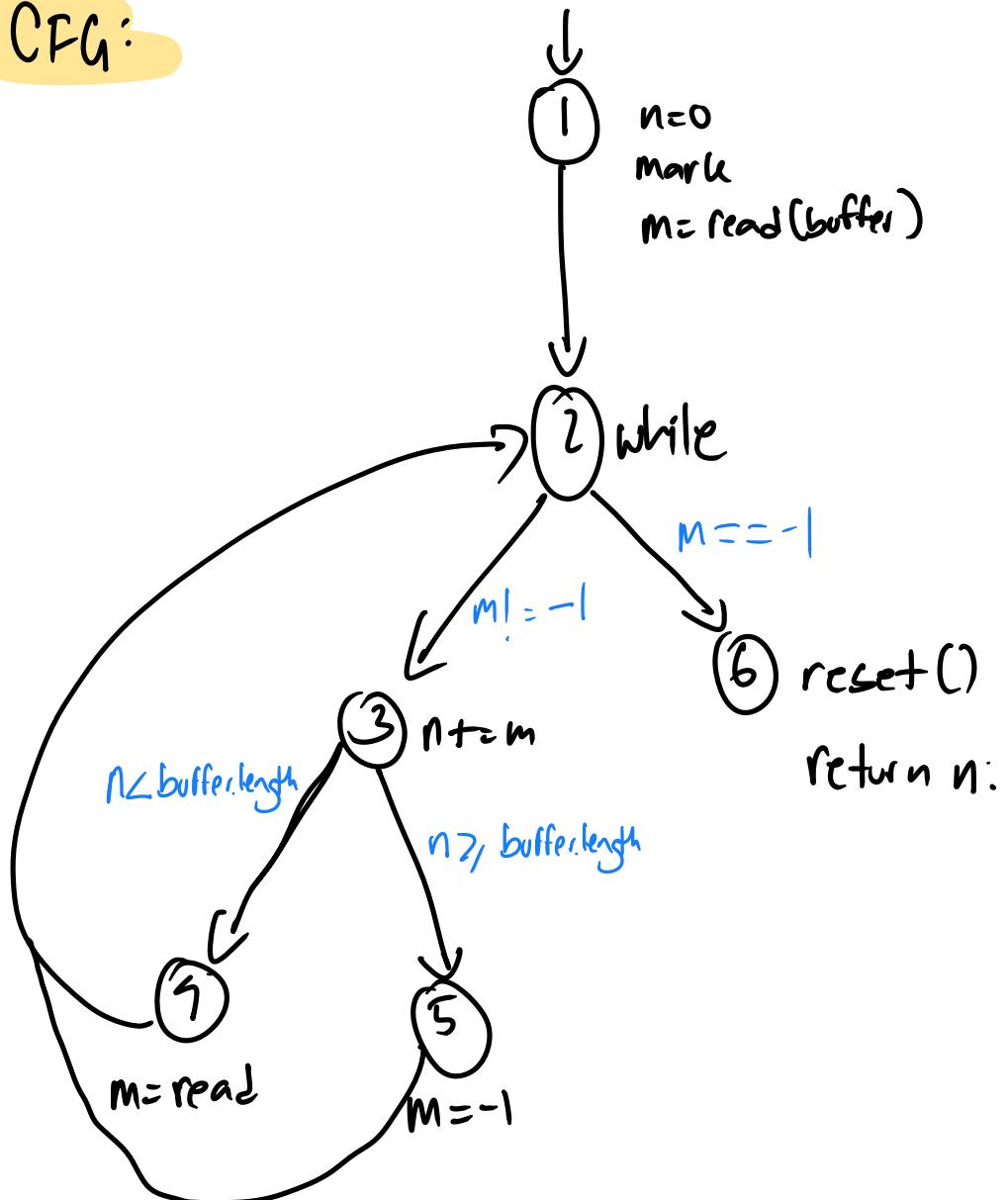
    int m = read(buffer);
    while (m != -1) {
        n += m;
        if (n < buffer.length) {
            m = read(buffer, n, buffer.length - n);
        } else {
            m = -1;
        }
    }

    reset();

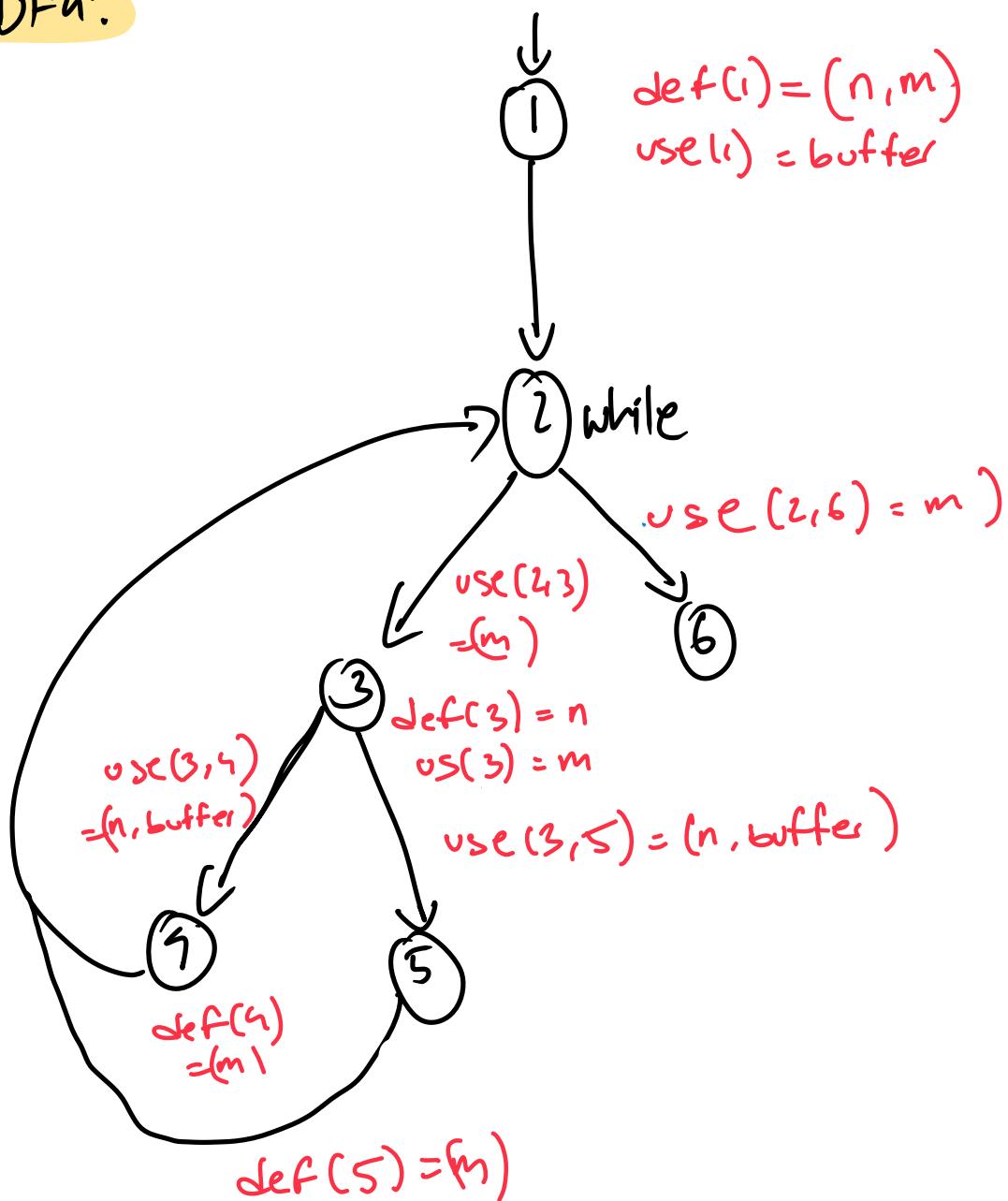
    return n;
}

```

CFG:



DFA:



```

public static TikaInputStream get(URL url, Metadata metadata) throws IOException {
    // Special handling for file:// URLs
    if ("file".equalsIgnoreCase(url.getProtocol())) {
        try {
            Path path = Paths.get(url.toURI());
            if (Files.isRegularFile(path)) {
                return get(path, metadata);
            }
        } catch (URISyntaxException e) {
            // fall through
        }
    }

    URLConnection connection = url.openConnection();

    String path = url.getPath();
    int slash = path.lastIndexOf('/');
    if (slash + 1 < path.length()) { // works even with -1!
        metadata.set(TikaCoreProperties.RESOURCE_NAME_KEY, path.substring(slash + 1));
    }

    String type = connection.getContentType();
    if (type != null) {
        metadata.set(Metadata.CONTENT_TYPE, type);
    }

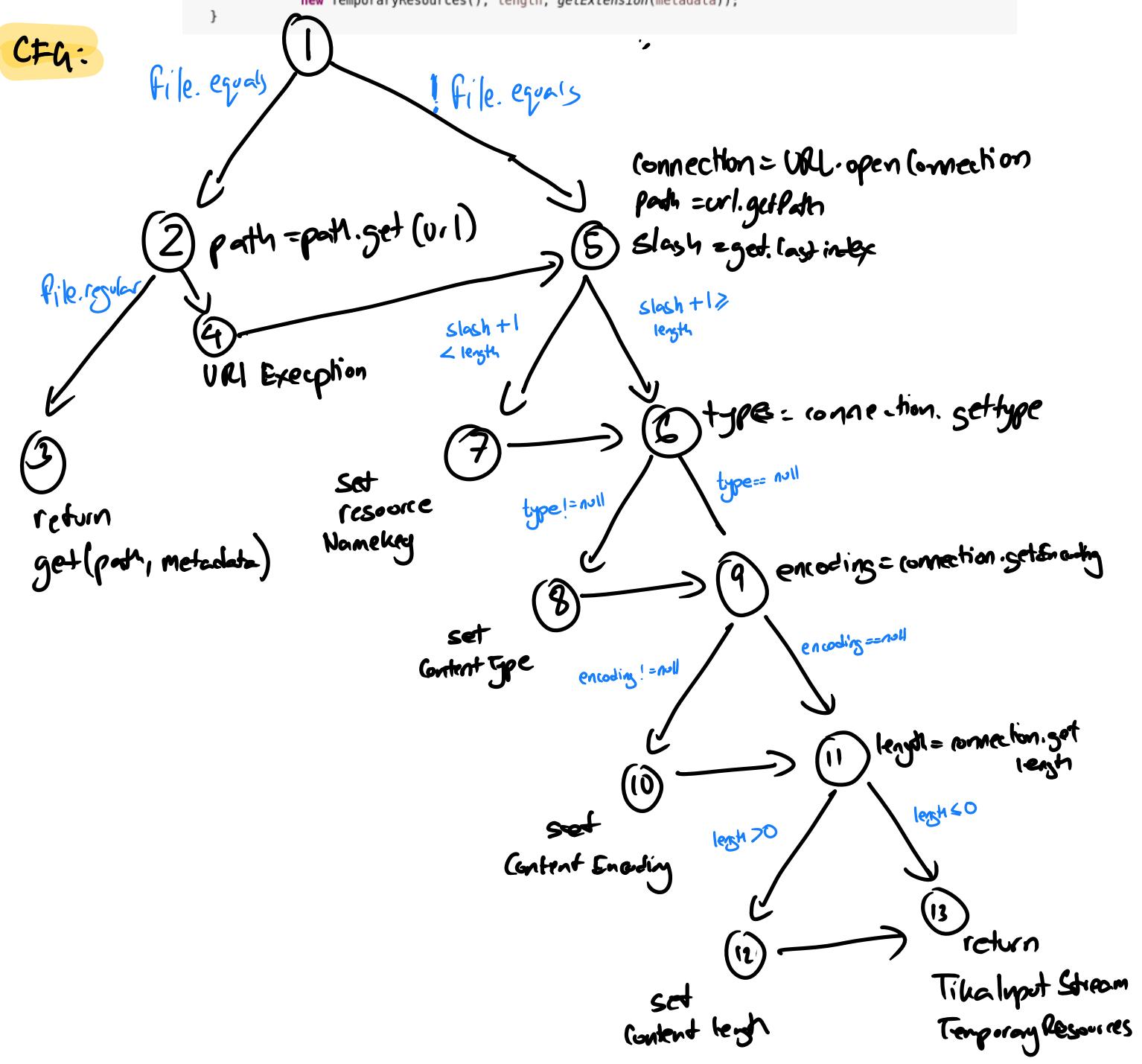
    String encoding = connection.getContentEncoding();
    if (encoding != null) {
        metadata.set(Metadata.CONTENT_ENCODING, encoding);
    }

    int length = connection.getContentLength();
    if (length >= 0) {
        metadata.set(Metadata.CONTENT_LENGTH, Integer.toString(length));
    }

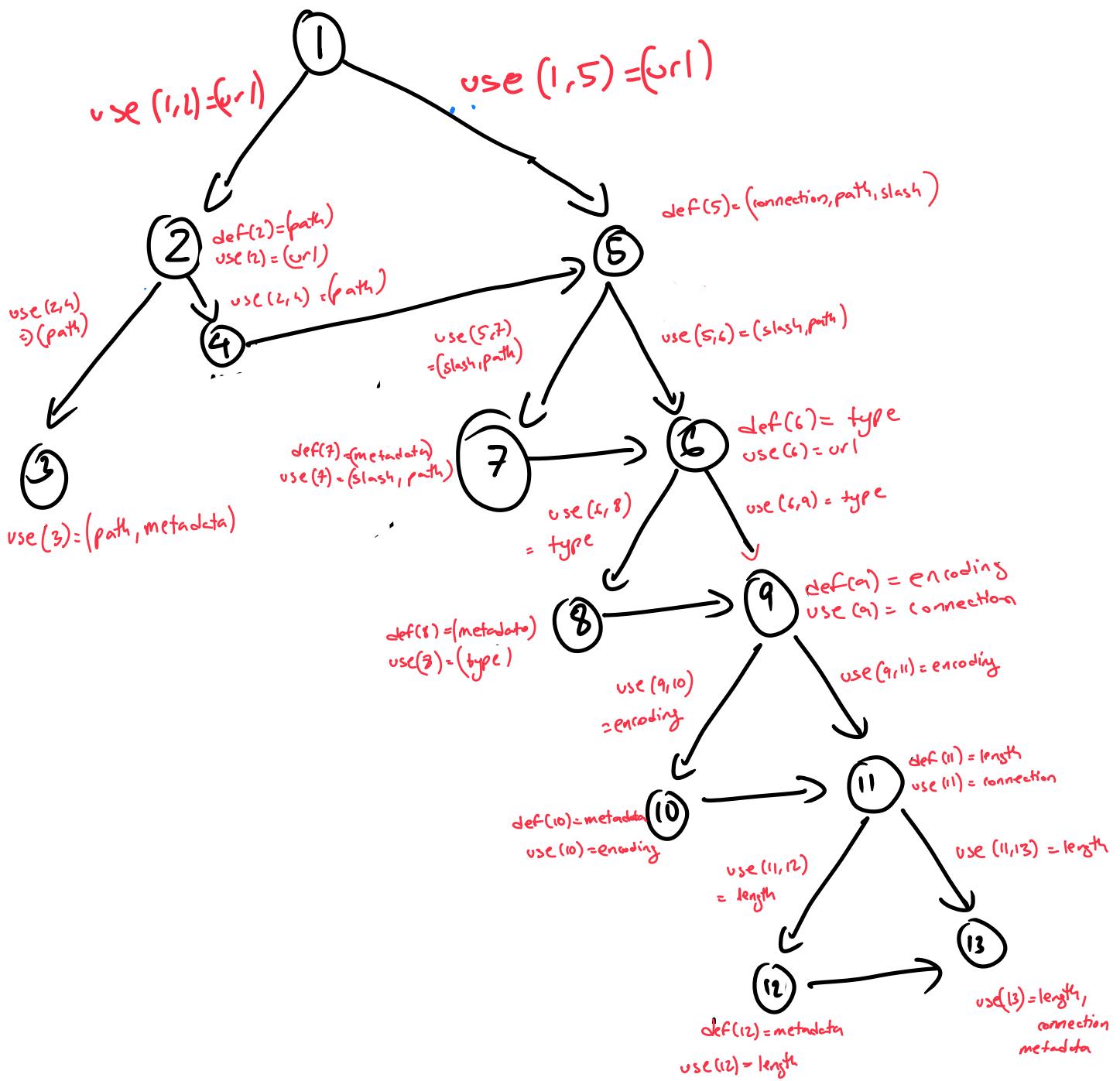
    return new TikaInputStream(new BufferedInputStream(connection.getInputStream()),
        new TemporaryResources(), length, getExtension(metadata));
}

```

CFG:



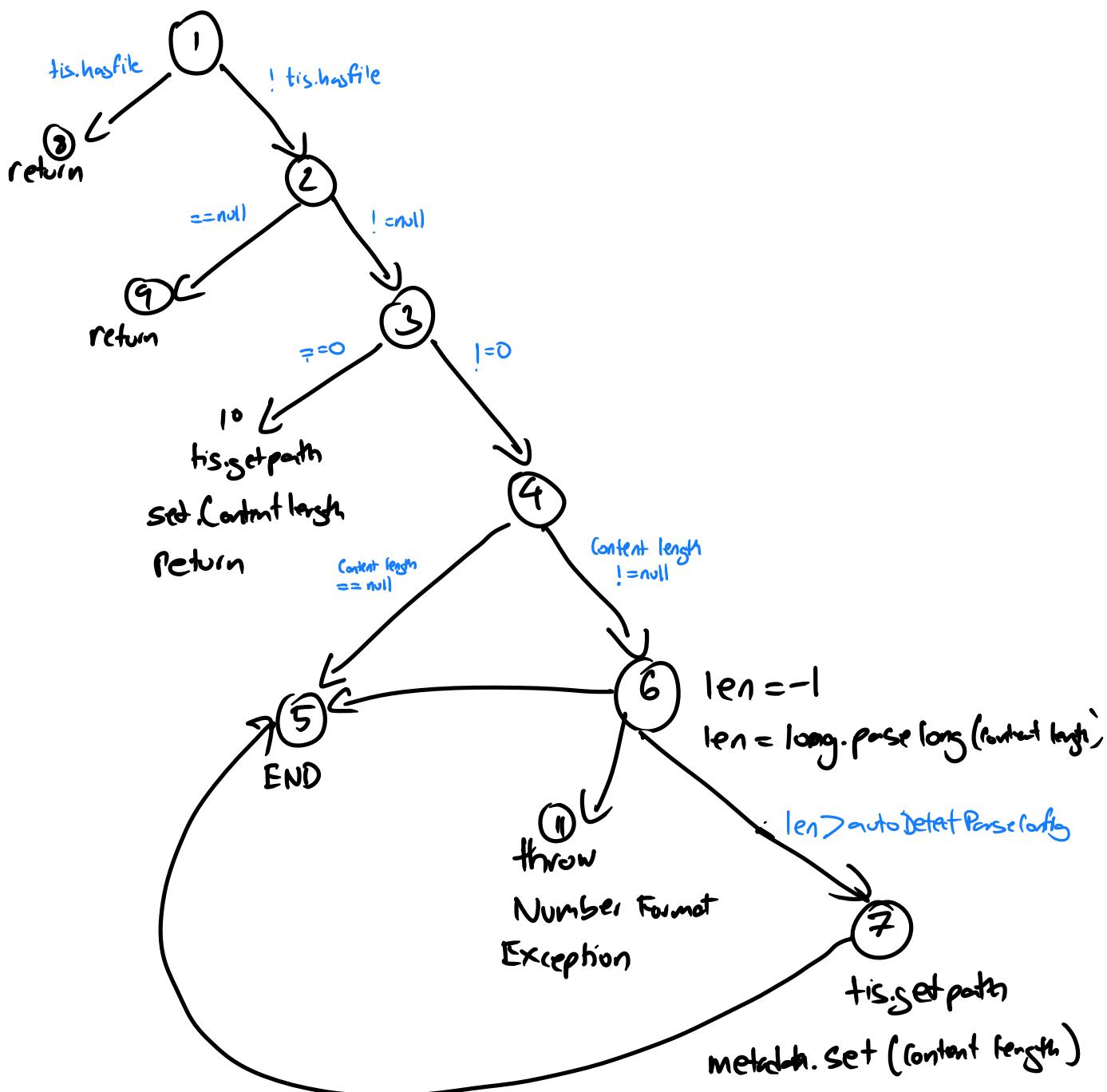
DFA:



```

private void maybeSpool(TikaInputStream tis, AutoDetectParserConfig autoDetectParserConfig,
    Metadata metadata) throws IOException {
    if (tis.hasFile()) {
        return;
    }
    if (autoDetectParserConfig.getSpoolToDisk() == null) {
        return;
    }
    //whether or not a content-length has been sent in,
    //if spoolToDisk == 0, spool it
    if (autoDetectParserConfig.getSpoolToDisk() == 0) {
        tis.getPath();
        metadata.set(HttpHeaders.CONTENT_LENGTH, Long.toString(tis.getLength()));
        return;
    }
    if (metadata.get(Metadata.CONTENT_LENGTH) != null) {
        long len = -1;
        try {
            len = Long.parseLong(metadata.get(Metadata.CONTENT_LENGTH));
            if (len > autoDetectParserConfig.getSpoolToDisk()) {
                tis.getPath();
                metadata.set(HttpHeaders.CONTENT_LENGTH, Long.toString(tis.getLength()));
            }
        } catch (NumberFormatException e) {
            //swallow...maybe log?
        }
    }
}

```



DFG:

