

2. (a)

```
public static String findFirstTag(String text)
{
    int tagStart = text.indexOf("<");
    if (tagStart != -1)
    {
        int tagEnd = text.indexOf(">");
        return text.substring(tagStart, tagEnd + 1);
    }
    else
        return null;
}
```

(b)

```
public static String remove(String text, String str)
{
    int pos = text.indexOf(str);
    if (pos != -1)
        text = text.substring(0, pos) +
                text.substring(pos + str.length());
    return text;
}
```

(c)

```
public static String removeAllTags(String text)
{
    String tag = findFirstTag(text);
    while (tag != null)
    {
        String closingTag = "</" + tag.substring(1);
        if (text.indexOf(closingTag) < text.indexOf(tag))
            throw new IllegalArgumentException();
        text = remove(text, tag);1
        text = remove(text, closingTag);

        tag = findFirstTag(text);
    }
    return text;
}
```

Notes:

1. Not just

```
remove(text, tag);
```

— because Strings are immutable.