```java
public String calculateSignature(...) {
    String baseUrl = baseUrl(uri);
    String encodedParams = encodedParams(oauthTimestamp,...,queryParams);
    StringBuilder sb = StringUtils.stringBuilder();
    sb.append(method);
    sb.append('&');
    Utf8UrlEncoder.encodeAndAppendQueryElement(sb, baseUrl);
    sb.append('&');
    Utf8UrlEncoder.encodeAndAppendQueryElement(sb, encodedParams);
    ByteBuffer rawBase = StringUtils.charSequence2ByteBuffer(sb, UTF_8);
    byte[] rawSignature = mac.digest(rawBase);
    return Base64.encode(rawSignature);
}
```