```java
 1    public String calculateSignature(...) {
 2        String baseUrl = baseUrl(uri);
 3        String encodedParams = encodedParams(oauthTimestamp,...,queryParams);
 4        StringBuilder sb = StringUtils.stringBuilder();
 5        sb.append(method);
 6        sb.append('&');
 7        Utf8UrlEncoder.encodeAndAppendQueryElement(sb, baseUrl);
 8        sb.append('&');
 9        Utf8UrlEncoder.encodeAndAppendQueryElement(sb, encodedParams);
10        ByteBuffer rawBase = StringUtils.charSequence2ByteBuffer(sb, UTF_8);
11        byte[] rawSignature = mac.digest(rawBase);
12        return Base64.encode(rawSignature);
13    }
```