1. 分析搜索逻辑是由哪个服务链接或者页面完成，如果有多个请分别列出，并且将发送到服务器的数据以列表方式进行说明
2. 淘宝

服务链接：<https://s.taobao.com/search>

具体参数：

q=%E8%80%B3%E6%9C%BA 即耳机经过编码后的字符串

imgfile= 即图片文件，由于未上传，所以为空

commend=all 即推荐所有内容

ssid=s5-e 即Service Set Identifier，服务集标识

search\_type=item 即查询类型为item

sourceId=tb.index 即源id ：tb.index即淘宝首页

ie=utf8 即编码格式为utf-8

initiative\_id=tbindexz\_20170306 某个id为tbindexz\_20170306 具体意思不太清楚

spm=a21bo.2017.201856-taobao-item.1

SPM是淘宝社区电商业务（xTao）为外部合作伙伴（外站）提供的一套跟踪引导成交效果数据的解决方案。SPM编码：用来跟踪页面模块位置的编码，标准spm编码由4段组成，采用a.b.c.d的格式（建议全部使用数字），其中，

a代表站点类型，对于xTao合作伙伴（外站），a为固定值，a=2014

b代表外站ID（即外站所使用的TOP appkey），比如您的站点使用的TOP appkey=123456789，则b=123456789

c代表b站点上的频道ID，比如是外站某个团购频道，某个逛街频道，某个试用频道等

d代表c频道上的页面ID，比如是某个团购详情页，某个宝贝详情页，某个试用详情页等

1. 京东

服务链接：<https://search.jd.com/Search>

具体参数：

keyword=%E8%80%B3%E6%9C%BA 搜索关键词，解码后即耳机

enc=utf-8 编码格式使用utf-8

pvid=af89dd062d2142f49d87bfbf768f564a Port-base Vlan ID端口的虚拟局域网ID号

服务链接：<https://search.jd.com/attrlog.php>

具体参数：

i: 1570435604.17527

h: 828,830,12800,13833

k: 耳机

c:

m: c2854b4b298925f1282ab1b4007bd18f

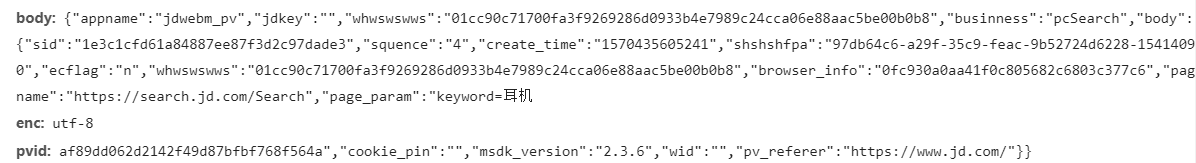
s:

u:

品牌::163442,,21360,,8557,,18374,,14026,,1262,,12286,,68382,,15196,,17052,,6742,,25591,,18095,,44416,,168898,,2032,,63833,,15127,,25684,,151220,,26645,,29553,,12669,,16506,,248803,,9280,,121098,,9495,,7882,,169793,,255278,,15025,,42796,,16207,,105735,,13066,,142783,,66626,,16020,,177192;;分类::842,,862,,863,,12802,,13834;;用途::手机耳机,,游戏耳机,,运动耳机,,音乐耳机,,降噪耳机,,教学耳机,,单耳通话;;佩戴方式::头戴式,,有线入耳式,,颈挂式,,真无线,,骨传导;;连接类型::有线,,无线（蓝牙）;;其他分类::828,,830,,12805,,12803,,16011,,686,,18523,,9920,,9924,,9921,,13821,,13753,,9923,,14404,,9925,,9919,,9922,,13823,,13780,,13868,,829,,677,,15893,,15894,,5146,,675,,2694,,672,,13278,,12798,,6306,,12161,,14771,,5266,,13665,,12079,,1445,,1442,,12078,,4942,,17151,,1446,,13667,,12347,,12349,,12348,,12355,,12352,,12353,,7375,,7374,,4839,,2691,,2629,,1472,,2631,,5152,,1479,,1475,,12143,,2577,,12071,,12072,,2584,,5262,,12073,,13762,,655,,9962,,6965,,12409,,13247,,13983,,13250,,13249,,13991,,21075,,11223,,11222,,14935,,11227,,3977,,11224,,14930,,14928,,16923,,9985,,14929,,11898,,16921,,11889,,13995,,11888,,13984,,11953,,13987,,13988,,14911,,14913,,1349,,9732,,9739,,12005,,9734,,9724,,9736,,6273,,12594,,1508,,12590,,18687,,18690,,18688,,18692,,18686,,1371,,12015,,1369,,18623,,18620,,9930,,9929,,9927,,9926,,11969,,11965,,11166,,11164,,11163,,11165,,11966,,840,,16961,,12358,,12356,,838,,12357,,9715,,9710,,1355,,9717,,17411,,17415,,17408,,17409,,12103,,9764,,12198,,5258,,12070,,5257,,5260,,2580,,5256,,12036,,12033,,9790,,9792,,9794,,12018,,13674,,13669,,12417,,6188,,6189,,6195,,6191,,6277,,806,,1505,,14698,,14697,,7070,,13768,,1661,,1657,,1658,,11167,,6254,,6255,,12602,,4837,,728,,1449,,12376,,9918,,9908,,9909,,9915,,15679,,1290,,13238,,739,,17087,,12344,,833,,700,,11304,,12370,,982,,9881,,11973,,14955,,14230,,14228,,15283,,15286,,18658,,6263,,12121,,15934,,15930,,15937,,17390,,17392,,17398,,18683,,18680,,12123,,16829,,9768,,14102,,16795,,6221,,6315,,6317,,11859,,13245,,9904,,9905,,13973,,15367,,15452,,15623,,13761,,808,,9186,,3380,,4812,,6187,,11878,,9183,,9865,,9886,,17493,,13261,,14957,,14087,,14123,,15260,,15406,,15414,,15830,,16776,,16886,,17200,,17230,,17358,,17389,,17426,,18668;;

服务链接：<https://blackhole.m.jd.com/getinfo>

具体参数：

服务链接：

<https://search.jd.com/im.php?r=176524117&t=1570435604.2391&cs=2ea46230b85c0711b3ee7d68fdc395c6>

具体参数：

**r:** 176524117

**t:** 1570435604.2391

**cs:** 2ea46230b85c0711b3ee7d68fdc395c6

1. 分析服务器的响应结果，数据的格式、数据的类型以及呈现方式；
2. 淘宝

响应结果为200，数据格式为json，都是doc类型，数据多为图片

1. 京东

响应结果为200，数据格式为json，XHR和DOC类型都有，数据多为图片

1. 对比淘宝和京东搜索功能的数据结构，请说明它们的区别和特点；

区别：

京东的搜索速度略快于淘宝，通过京东的服务链接可以看出京东商品的信息是分类获取最终组合成结果，而淘宝则是一次性生成一个商品的信息。

特点：

都对数据进行了严格的加密，对于数据的安全性较高。