需求分析

```
需求:有大量的文本(文档、网页),需要建立搜索索引思路分析:
首选将文档的内容全部读取出来,加上文档的名字作为 key,文档的 value 为 1,组织成这样的一种形式的数据map 端数据输出hello-a.txt 1 hello-a.txt 1 hello-a.txt 1 hello-a.txt 1 hello-a.txt 1
```

代码实现

```
public class IndexCreate extends Configured implements Tool {
    public static void main(String[] args) throws Exception {
        ToolRunner. run(new Configuration(), new IndexCreate(), args);
    }
    @Override
    public int run(String[] args) throws Exception {
        Job job = Job. getInstance(super. getConf(),
        IndexCreate. class. getSimpleName());
        job. setInputFormatClass(TextInputFormat. class);
```

```
TextInputFormat. addInputPath job, new Path("file:///F:\\青软实
训大数据离线阶段课程资料\\7、大数据离线第七天\\索引\\inindex"));
       job. setMapperClass(IndexCreateMapper. class);
       job. setMapOutputKeyClass(Text. class);
       job. setMapOutputValueClass(IntWritable. class);
       job. setReducerClass(IndexCreateReducer. class);
       job. setOutputKeyClass(Text. class);
       job. setOutputValueClass(IntWritable. class);
       job. setOutputFormatClass(TextOutputFormat. class);
       TextOutputFormat. setOutputPath(job, new Path("file:///F:\\青软
实训大数据离线阶段课程资料\\7、大数据离线第七天\\索引\\outindex"));
       boolean bool = job. waitForCompletion(true);
       return bool?0:1;
   public
               static
                           class
                                      IndexCreateMapper
                                                            extends
Mapper < Long Writable, Text, Text, IntWritable > {
       Text text = new Text();
       IntWritable v = new IntWritable(1);
       @Override
       protected void map(LongWritable key, Text value,
                                                            Context
context) throws IOException, InterruptedException {
           //获取文件切片
           FileSplit
                          fileSplit
                                                        (FileSplit)
context.getInputSplit();
           //通过文件切片获取文件名
           String name = fileSplit.getPath().getName();
           String line = value.toString();
           String[] split = line.split(" ");
           //输出 单词--文件名作为 key value 是 1
```

```
for (String word : split) {
               ; text. set (word+"--"+name);
                context.write(text,v);
    public
                static
                            class
                                       IndexCreateReducer
                                                                extends
Reducer<Text, IntWritable, Text, IntWritable>{
        IntWritable value = new IntWritable();
        @Override
        protected void reduce(Text key, Iterable<IntWritable> values,
Context context) throws IOException, InterruptedException {
            int count = 0;
            for (IntWritable value : values) {
                count += value.get();
            value. set (count);
            context. write(key, value);
```