在使用shell删除idea生成的配置文件时，发现在不同的目录下执行脚本的执行结果不一致。

具体如下：

1. 在ecommerce目录下执行：find

/Users/huangshihe/env/temp/ecommerce/script/.. -name *.iml

只能找出指定目录下的文件，并不能找出子目录下的文件。

```
/Users/huangshihe/env/temp/ecommerce/script/../ecommerce.iml
huangshihe (b_0_0_1 *) ecommerce $ find /Users/huangshihe/env/temp/ecommerce/script/.. -name *.iml
/Users/huangshihe/env/temp/ecommerce/script/../ecommerce.iml
huangshihe (b_0_0_1 *) ecommerce $
```

2. 在ecommerce/script目录下执行：find

/Users/huangshihe/env/temp/ecommerce/script/.. -name *.iml

可以找出指定目录下及子目录下的文件。

```
huangshihe (b_0_0_1 *) script $ find /Users/huangshihe/env/temp/ecommerce/script/.. -name *.iml
/Users/huangshihe/env/temp/ecommerce/script/../ecommerce-llt/ecommerce-llt.iml
/Users/huangshihe/env/temp/ecommerce/script/../ecommerce-common/ecommerce-common.iml
/Users/huangshihe/env/temp/ecommerce/script/../ecommerce.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-common-config/ec-spark-common-config.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task-manager/ec-spark-task-manager.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-spark/ecommerce-spark-module/ecommerce-spark-module.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task/ec-spark-task.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-spark/ecommerce-spark.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-spark/ecommerce-spark-llt/ecommerce-spark-llt.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-hbase/ecommerce-hbase-module/ecommerce-hbase-module.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-hbase/ecommerce-hbase-module/ec-hbase-dao/ec-hbase-dao.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-hbase/ecommerce-hbase.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/ecommerce-hbase/ecommerce-hbase-llt/ecommerce-hbase-llt.iml
/Users/huangshihe/env/temp/ecommerce/script/../business-services/business-services.iml
huangshihe (b_0_0_1 *) script $
```

为啥这两种情况不一致？？

3. find /Users/huangshihe/env/temp/ecommerce -name *.iml

同样的去掉这个../ 表现还是一样

```
huangshihe (b_0_0_1 *) script $ find /Users/huangshihe/env/temp/ecommerce -name *.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce-llt/ecommerce-llt.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce-common/ecommerce-common.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-common-config/ec-spark-common-config.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task-manager/ec-spark-task-manager.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ecommerce-spark-module.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task/ec-spark-task.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-llt/ecommerce-spark-llt.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase-module/ecommerce-hbase-module.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase-module/ec-hbase-dao/ec-hbase-dao.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase-llt/ecommerce-hbase-llt.iml
/Users/huangshihe/env/temp/ecommerce/business-services/business-services.iml
huangshihe (b_0_0_1 *) script $
```

```
huangshihe (b_0_0_1 *) script $ find /Users/huangshihe/env/temp/ecommerce/ -name *.iml
/Users/huangshihe/env/temp/ecommerce//ecommerce-llt/ecommerce-llt.iml
/Users/huangshihe/env/temp/ecommerce//ecommerce-common/ecommerce-common.iml
/Users/huangshihe/env/temp/ecommerce//ecommerce.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-common-config/ec-spa
rk-common-config.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task-manager/ec-spar
k-task-manager.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-spark/ecommerce-spark-module/ecommerce-spark-module.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task/ec-spark-task.i
ml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-spark/ecommerce-spark.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-spark/ecommerce-spark-llt/ecommerce-spark-llt.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-hbase/ecommerce-hbase-module/ecommerce-hbase-module.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-hbase/ecommerce-hbase-module/ec-hbase-dao/ec-hbase-dao.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-hbase/ecommerce-hbase.iml
/Users/huangshihe/env/temp/ecommerce//business-services/ecommerce-hbase/ecommerce-hbase-llt/ecommerce-hbase-llt.iml
/Users/huangshihe/env/temp/ecommerce//business-services/business-services.iml
huangshihe (b_0_0_1 *) script $ 
```

```
huangshihe (b_0_0_1 *) ecommerce $ find /Users/huangshihe/env/temp/ecommerce/ -name *.iml
/Users/huangshihe/env/temp/ecommerce//ecommerce.iml
huangshihe (b_0_0_1 *) ecommerce $ find /Users/huangshihe/env/temp/ecommerce -name *.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce.iml
huangshihe (b_0_0_1 *) ecommerce $ 
```

5. 终于发现！文件名必须加引号！

```
huangshihe (b_0_0_1 *) ecommerce $ find /Users/huangshihe/env/temp/ecommerce -name "*.iml"
/Users/huangshihe/env/temp/ecommerce/ecommerce-llt/ecommerce-llt.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce-common/ecommerce-common.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-common-config/ec-sp
k-common-config.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task-manager/ec-spa
-task-manager.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ecommerce-spark-module.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task/ec-spark-task.
l
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-spark/ecommerce-spark-llt/ecommerce-spark-llt.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase-module/ecommerce-hbase-module.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase-module/ec-hbase-dao/ec-hbase-dao.im
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase.iml
/Users/huangshihe/env/temp/ecommerce/business-services/ecommerce-hbase/ecommerce-hbase-llt/ecommerce-hbase-llt.iml
/Users/huangshihe/env/temp/ecommerce/business-services/business-services.iml
huangshihe (b_0_0_1 *) ecommerce $ find /Users/huangshihe/env/temp/ecommerce -name *.iml
/Users/huangshihe/env/temp/ecommerce/ecommerce.iml
huangshihe (b_0_0_1 *) ecommerce $ 
```

```
huangshihe (b_0_0_1 *) ecommerce $ find . -name *.iml
./ecommerce.iml
huangshihe (b_0_0_1 *) ecommerce $ find . -name "*.iml"
./ecommerce-llt/ecommerce-llt.iml
./ecommerce-common/ecommerce-common.iml
./ecommerce.iml
./business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-common-confi
g/ec-spark-common-config.iml
./business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task-manager
/ec-spark-task-manager.iml
./business-services/ecommerce-spark/ecommerce-spark-module/ecommerce-spark-modul
e.iml
./business-services/ecommerce-spark/ecommerce-spark-module/ec-spark-task/ec-spar
k-task.iml
./business-services/ecommerce-spark/ecommerce-spark.iml
./business-services/ecommerce-spark/ecommerce-spark-llt/ecommerce-spark-llt.iml
./business-services/ecommerce-hbase/ecommerce-hbase-module/ecommerce-hbase-modul
e.iml
./business-services/ecommerce-hbase/ecommerce-hbase-module/ec-hbase-dao/ec-hbase
-dao.iml
./business-services/ecommerce-hbase/ecommerce-hbase.iml
./business-services/ecommerce-hbase/ecommerce-hbase-llt/ecommerce-hbase-llt.iml
./business-services/business-services.iml
```

6. 原因

6.1 双引号阻止单词分割，常用于文件名中包含空格等场景；

6.2 双引号中，参数展开，算数表达式展开和命令替换仍然有效；

6.3 查看文档，准确来说，应该使用单引号，而不是双引号：

```
- Find files by extension:
    find root_path -name '*.ext'

- Find files matching path pattern:
    find root_path -path '**/lib/**/*.ext'

- Run a command for each file, use {} within the command to access the filename:
    find root_path -name '*.ext' -exec wc -l {} \;

- Find files modified in the last 24-hour period:
    find root_path -mtime -1

- Find files using case insensitive name matching, of a certain size:
    find root_path -size +500k -size -10MB -iname '*.TaR.gZ'

- Delete files by name, older than 180 days:
    find root_path -name '*.ext' -mtime +180 -delete

- Find files matching more than one search criteria:
    find root_path -name '*.py' -or -name '*.r'

- Find files matching a given pattern, while excluding specific paths:
    find root_path -name '*.py' -not -path '*/site-packages/*'
```

6.4 如果要禁止所有的展开，使用单引号：

```
huangshihe (b_0_0_1 *) ecommerce $ echo text ~/*.txt {a, b} $(echo foo) $((2+2)) $USER
text /Users/huangshihe/*.txt {a, b} foo 4 huangshihe
huangshihe (b_0_0_1 *) ecommerce $ echo "text ~/*.txt {a, b} $(echo foo) $((2+2)) $USER"
text ~/*.txt {a, b} foo 4 huangshihe
huangshihe (b_0_0_1 *) ecommerce $ echo 'text ~/*.txt {a, b} $(echo foo) $((2+2)) $USER'
text ~/*.txt {a, b} $(echo foo) $((2+2)) $USER
```