

```
javac Apriori.java
```

```
java Apriori
```

```
-----  
{0, }  
{<=50K, }  
{White, }  
{Private, }  
{United-States, }  
{Male, }  
{0, <=50K, }  
{0, White, }  
{0, Private, }  
{0, United-States, }  
{0, Male, }  
{<=50K, White, }  
{<=50K, United-States, }  
{White, United-States, }  
{Private, United-States, }  
{0, <=50K, White, }  
{0, <=50K, United-States, }  
{0, White, United-States, }  
{0, Private, United-States, }  
Running time: 99.634
```

```
javac FPGrowth.java
```

```
java FPGrowth
```

```
-----  
{0, White, }  
{United-States, }  
{United-States, 0, Private, }  
{<=50K, }  
{Male, }  
{<=50K, White, }  
{United-States, White, }  
{0, Private, }  
{United-States, Private, }  
{0, <=50K, United-States, }  
{0, }  
{White, }  
{<=50K, 0, }  
{0, United-States, }  
{United-States, 0, White, }  
{0, Male, }  
{0, <=50K, White, }
```

```
{Private, }  
{<=50K, United-States, }  
Running time: 0.293
```

```
javac AprioriImproved.java  
java AprioriImproved
```

```
-----  
{White, }  
{Male, }  
{Private, }  
{<=50K, }  
{United-States, }  
{0, }  
{White, <=50K, }  
{White, United-States, }  
{White, 0, }  
{Male, 0, }  
{Private, United-States, }  
{Private, 0, }  
{<=50K, United-States, }  
{<=50K, 0, }  
{United-States, 0, }  
{White, <=50K, 0, }  
{White, United-States, 0, }  
{Private, United-States, 0, }  
{<=50K, United-States, 0, }  
Running time: 0.538
```