

```

1 "C:\Program Files\Java\jdk1.8.0_144\bin\java" "-javaagent:E:\IntelliJ IDEA 2017.2.6\lib\idea_rt.jar=56999:E:\
IntelliJ IDEA 2017.2.6\bin" -Dfile.encoding=UTF-8 -classpath "C:\Program Files\Java\jdk1.8.0_144\jre\lib\
charsets.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\deploy.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\
ext\access-bridge-64.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\ext\cldrdata.jar;C:\Program Files\Java\jdk1
.8.0_144\jre\lib\ext\dnsns.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\ext\jaccess.jar;C:\Program Files\Java
\jdk1.8.0_144\jre\lib\ext\jfxrt.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\ext\localedata.jar;C:\Program
Files\Java\jdk1.8.0_144\jre\lib\ext\nashorn.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\ext\sunec.jar;C:\
Program Files\Java\jdk1.8.0_144\jre\lib\ext\sunjc_provider.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\ext\
sunscapi.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\ext\sunpkcs11.jar;C:\Program Files\Java\jdk1.8.0_144\
jre\lib\ext\zipfs.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\javaws.jar;C:\Program Files\Java\jdk1.8.0_144\
jre\lib\jce.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\jfr.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\
jfxswt.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\jsse.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\
management-agent.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\plugin.jar;C:\Program Files\Java\jdk1.8.0_144\
jre\lib\resources.jar;C:\Program Files\Java\jdk1.8.0_144\jre\lib\rt.jar;C:\Users\xiyang\Desktop\cap5771\proj\
Economy\target\scala-2.11\classes;C:\Users\xiyang\ivy2\cache\aoalliance\jars\aoalliance-1.0.jar;
C:\Users\xiyang\ivy2\cache\xmlenc\jars\xmlenc-0.52.jar;C:\Users\xiyang\ivy2\cache\xml-apis\xml-apis\
jars\xml-apis-1.3.04.jar;C:\Users\xiyang\ivy2\cache\xercesImpl\jars\xercesImpl-2.9.1.jar;C:\Users\
xiyang\ivy2\cache\oro\jars\oro-2.0.8.jar;C:\Users\xiyang\ivy2\cache\org.xerial.snappy\snappy-java\bundles
\snappy-java-1.1.2.6.jar;C:\Users\xiyang\ivy2\cache\org.typelevel\macro-compat_2.11\jars\macro-compat_2.11-1.1
.1.jar;C:\Users\xiyang\ivy2\cache\org.typelevel\machinist_2.11\jars\machinist_2.11-0.6.1.jar;C:\Users\xiyang\
ivy2\cache\org.tukaani\xz\jars\xz-1.0.jar;C:\Users\xiyang\ivy2\cache\org.spire-math\spire_2.11\jars\spire_2.11
-0.13.0.jar;C:\Users\xiyang\ivy2\cache\org.spire-math\spire-macros_2.11\jars\spire-macros_2.11-0.13.0.jar;C:\
Users\xiyang\ivy2\cache\org.spark-project.spark\unused\jars\unused-1.0.0.jar;C:\Users\xiyang\ivy2\cache\org.
sonatype.sisu.inject\cglib\jars\cglib-2.2.1-v20090111.jar;C:\Users\xiyang\ivy2\cache\org.slf4j\slf4j-log4j12\
jars\slf4j-log4j12-1.7.16.jar;C:\Users\xiyang\ivy2\cache\org.slf4j\jul-to-slf4j\jars\jul-to-slf4j-api-1.7.16.jar;C:\
Users\xiyang\ivy2\cache\org.slf4j\jul-over-slf4j\jars\jul-over-slf4j-1.7.16.jar;C:\Users\xiyang\ivy2\cache\org.
slf4j\jcl-over-slf4j\jars\jcl-over-slf4j-1.7.16.jar;C:\Users\xiyang\ivy2\cache\org.scalanlp\breeze_2.11\jars\
breeze_2.11-0.13.1.jar;C:\Users\xiyang\ivy2\cache\org.scalanlp\breeze-macros_2.11\jars\breeze-macros_2.11-0.13
.1.jar;C:\Users\xiyang\ivy2\cache\org.scalafx\scalafx_2.11\jars\scalafx_2.11-8.0.102-R11.jar;C:\Users\xiyang\
ivy2\cache\org.scala-lang.modules\scala-parser-combinators_2.11\jars\scala-parser-combinators_2.11-1.0.4.jar;C:\Users\
org.scala-lang.modules\scala-parser-combinators_2.11\jars\scala-parser-combinators_2.11-1.0.4.jar;C:\Users\
xiyang\ivy2\cache\org.scala-lang\scalap\jars\scalap-2.11.8.jar;C:\Users\xiyang\ivy2\cache\org.scala-lang\
scala-reflect\jars\scala-reflect-2.11.8.jar;C:\Users\xiyang\ivy2\cache\org.scala-lang\scala-library\jars\scala
-library-2.11.8.jar;C:\Users\xiyang\ivy2\cache\org.scala-lang\scala-compiler\jars\scala-compiler-2.11.8.jar;C
:\Users\xiyang\ivy2\cache\org.roaringbitmap\RoaringBitmap-0.5.11.jar;C:\Users\xiyang\ivy2\cache\org.mortbay.jetty-
ivy2\cache\org.objenesis\objenesis\jars\objenesis-2.1.jar;C:\Users\xiyang\ivy2\cache\org.json4s-jackson\j
son4s-jackson-2.11-3.2.11.jar;C:\Users\xiyang\ivy2\cache\org.json4s-core_2.11\jars\json4s-core_2.11-3.2.11.
jar;C:\Users\xiyang\ivy2\cache\org.json4s-ast_2.11\jars\json4s-ast_2.11-3.2.11.jar;C:\Users\xiyang\

```

```

1 ivy2\cache\org.jpmml\pmml-schema\jars\pmml-schema-1.2.15.jar;C:\Users\xiyang\ivy2\cache\org.jpmml\pmml-model\jars\pmml-model-1.2.15.jar;C:\Users\xiyang\ivy2\cache\org.javassist\jassists\bundles\javassist-3.18.1-GA.jar;C:\Users\xiyang\ivy2\cache\org.htrace\htrace-core\jars\htrace-core-3.0.4.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey.media\jersey-media-jaxb\jars\jersey-media-jaxb-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey.core\jersey-server\jars\jersey-server-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey.core\jersey-common\jars\jersey-common-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey-client\jars\jersey-client-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey-container-servlet-core\jars\jersey-container-servlet-core-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey-container-servlet\jars\jersey-container-servlet-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.jersey.bundles.repackaged\jersey-guava\bundles\jersey-guava-2.22.2.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.hk2.external\javax.inject\jars\javax.inject-2.4.0-b34.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.hk2.external\io.aopalliance-repackaged\jars\io.aopalliance-repackaged-2.4.0-b34.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.hk2.osgi-resource-locator\jars\osgi-resource-locator-1.0.1.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.hk2-locator\jars\hk2-utis-2.4.0-b34.jar;C:\Users\xiyang\ivy2\cache\org.glassfish.hk2-api\jars\hk2-api-2.4.0-locator\jars\hk2-locator-2.4.0-b34.jar;C:\Users\xiyang\ivy2\cache\org.fusesource.leveldbjni\leveldbjni-all\bundles\leveldbjni-all-1.8.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.jettison\jettison-1.1.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.janino\janino\jars\janino-3.0.0.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.janino\commons-compiler\jars\commons-compiler-3.0.0.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.jackson\jackson-xc\jars\jackson-xc-1.9.13.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.jackson\jackson-mapper-asl\jars\jackson-mapper-asl-1.9.13.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.jackson\jackson-jaxrs\jars\jackson-jaxrs-1.9.13.jar;C:\Users\xiyang\ivy2\cache\org.codehaus.jackson\jackson-core-asl\jars\jackson-core-asl-1.9.13.jar;C:\Users\xiyang\ivy2\cache\org.bouncycastle\bcprov-jdk15on\jars\bcprov-jdk15on-1.51.jar;C:\Users\xiyang\ivy2\cache\org.apache.zookeeper\zookeeper\jars\zookeeper-3.4.6.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-asm5-shaded\bundles\spark-asm5-shaded-4.4.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-unsafe_2.11\jars\spark-unsafe_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-streaming_2.11\jars\spark-streaming_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-sql_2.11\jars\spark-sql_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-sketch_2.11\jars\spark-sketch_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-network-shuffle_2.11\jars\spark-network-shuffle_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-network-common_2.11\jars\spark-network-common_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-mllib_2.11\jars\spark-mllib_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-launcher_2.11\jars\spark-launcher_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-graphx_2.11\jars\spark-graphx_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.spark\spark-catalyst_2.11\jars\spark-catalyst_2.11-2.2.0.jar;C:\Users\xiyang\ivy2\cache\org.apache.parquet\parquet-jackson\jars\parquet-jackson-1.8.2.jar;C:\Users\xiyang\ivy2\cache\org.apache.parquet\parquet-hadoop\jars\parquet-hadoop-1.8.2.jar;C:\Users\xiyang\ivy2\cache\org.apache.parquet\parquet-format-2.3.1.jar;C:\Users\xiyang\ivy2\cache\

```



```

1 cache\javax.xml.bind\jaxb-api\jars\jaxb-api-2.2.2.jar;C:\Users\xiyang\ivy2\cache\javax.ws.rs-api\
jars\javax.ws.rs-api-2.0.1.jar;C:\Users\xiyang\ivy2\cache\javax.validation\validation-api\jars\validation-api-
1.1.0.Final.jar;C:\Users\xiyang\ivy2\cache\javax.servlet\javax.servlet-api-3.1.0.jar;C
:\Users\xiyang\ivy2\cache\javax.mail\jars\mail-1.4.7.jar;C:\Users\xiyang\ivy2\cache\javax.inject\javax.
inject\jars\javax.inject-1.jar;C:\Users\xiyang\ivy2\cache\javax.annotation\javax.annotation-api\jars\javax.
annotation-api-1.2.jar;C:\Users\xiyang\ivy2\cache\javax.activation\activation\jars\activation-1.1.1.jar;C:\
Users\xiyang\ivy2\cache\io.netty\netty-all\jars\netty-all-4.0.43.Final.jar;C:\Users\xiyang\ivy2\cache\io.
netty\netty\bundles\netty-3.9.9.Final.jar;C:\Users\xiyang\ivy2\cache\io.dropwizard.metrics\metrics-jvm\bundle
s\metrics-jvm-3.1.2.jar;C:\Users\xiyang\ivy2\cache\io.dropwizard.metrics\metrics-json\bundles\metrics-json-3.1.
2.jar;C:\Users\xiyang\ivy2\cache\io.dropwizard.metrics\metrics-graphite\bundles\metrics-graphite-3.1.2.jar;C:\
Users\xiyang\ivy2\cache\io.dropwizard.metrics\metrics-core\bundles\metrics-core-3.1.2.jar;C:\Users\xiyang\
ivy2\cache\commons-net\commons-net\jars\commons-net-2.2.jar;C:\Users\xiyang\ivy2\cache\commons-lang\commons-
lang\jars\commons-lang-2.6.jar;C:\Users\xiyang\ivy2\cache\commons-io\commons-io\jars\commons-io-2.4.jar;C:\
Users\xiyang\ivy2\cache\commons-httpclient\commons-httpclient\jars\commons-httpclient-3.1.jar;C:\Users\xiyang
\ivy2\cache\commons-digester\commons-digester\jars\commons-digester-1.8.jar;C:\Users\xiyang\ivy2\cache\
commons-configuration\commons-configuration\jars\commons-configuration-1.6.jar;C:\Users\xiyang\ivy2\cache\
commons-collections\commons-collections\jars\commons-collections-3.2.2.jar;C:\Users\xiyang\ivy2\cache\commons-
codec\commons-codec\jars\commons-codec-1.10.jar;C:\Users\xiyang\ivy2\cache\commons-beanutils\commons-beanutils
-core-1.8.0.jar;C:\Users\xiyang\ivy2\cache\commons-beanutils\commons-beanutils-core\jars\commons-beanutils-
core-1.8.0.jar;C:\Users\xiyang\ivy2\cache\com.univocity\univocity-parsers\jars\univocity-parsers-2.2.1.jar;C:\Users\
xiyang\ivy2\cache\com.twitter\chill_2.11\jars\chill_2.11-0.8.0.jar;C:\Users\xiyang\ivy2\cache\com.twitter\
chill-java\jars\chill-java-0.8.0.jar;C:\Users\xiyang\ivy2\cache\com.thoughtworks.paranamer\paranamer\jars\
paranamer-2.6.jar;C:\Users\xiyang\ivy2\cache\com.ning\compress-lzf\bundles\compress-lzf-1.0.3.jar;C:\Users\
xiyang\ivy2\cache\com.jamesmurty.utils\java-xmlbuilder\jars\java-xmlbuilder-1.0.jar;C:\Users\xiyang\ivy2\
cache\com.google.protobuf\protobuf-java\bundles\protobuf-java-2.5.0.jar;C:\Users\xiyang\ivy2\cache\com.google.
inject\guice\jars\guice-3.0.jar;C:\Users\xiyang\ivy2\cache\com.google.guava\guava\jars\guava-11.0.2.jar;C:\
Users\xiyang\ivy2\cache\com.google.gson\jars\gson-2.2.4.jar;C:\Users\xiyang\ivy2\cache\com.google.
code.findbugs\jsr305\jars\jsr305-1.3.9.jar;C:\Users\xiyang\ivy2\cache\com.github.rwl\jtransforms\jars\
jtransforms-2.4.0.jar;C:\Users\xiyang\ivy2\cache\com.github.fommil.netlib\core\jars\core-1.1.2.jar;C:\Users\
xiyang\ivy2\cache\com.fasterxml.jackson.module\jackson-module-scala_2.11\bundles\jackson-module-
scala_2.11-2.6.5.jar;C:\Users\xiyang\ivy2\cache\com.fasterxml.jackson.module\jackson-module-scala_2.11-2.6
-paranamer-2.6.5.jar;C:\Users\xiyang\ivy2\cache\com.fasterxml.jackson.core\jackson-core\bundles\jackson-
databind-2.6.5.jar;C:\Users\xiyang\ivy2\cache\com.fasterxml.jackson.core\jackson-core\bundles\jackson-core-2.6
.5.jar;C:\Users\xiyang\ivy2\cache\com.fasterxml.jackson.core\jackson-core\bundles\jackson-annotations-2
.6.5.jar;C:\Users\xiyang\ivy2\cache\com.esotericsoftware\minlog\bundles\minlog-1.3.0.jar;C:\Users\xiyang\ivy2
\cache\com.esotericsoftware\kryo-shaded\bundles\kryo-shaded-3.0.3.jar;C:\Users\xiyang\ivy2\cache\com.
cleanspring.analytics\stream\jars\stream-2.7.0.jar;C:\Users\xiyang\ivy2\cache\com.chuusai\shapeless_2.11\
bundles\shapeless_2.11-2.3.2.jar" Unemployment

```

```

2 Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties
3 17/12/09 15:03:25 INFO SparkContext: Running Spark version 2.2.0
4 17/12/09 15:03:26 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using
  builtin-java classes where applicable
5 17/12/09 15:03:26 INFO SparkContext: Submitted application: PreprocessUnemploymentRate
6 17/12/09 15:03:26 INFO SecurityManager: Changing view acls to: xiyang
7 17/12/09 15:03:26 INFO SecurityManager: Changing modify acls to: xiyang
8 17/12/09 15:03:26 INFO SecurityManager: Changing view acls groups to:
9 17/12/09 15:03:26 INFO SecurityManager: Changing modify acls groups to:
10 17/12/09 15:03:26 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with
  view permissions: Set(xiyang); groups with view permissions: Set(); users with modify permissions: Set(xiyang
  ); groups with modify permissions: Set()
11 17/12/09 15:03:27 INFO Utils: Successfully started service 'sparkDriver' on port 57023.
12 17/12/09 15:03:27 INFO SparkEnv: Registering MapOutputTracker
13 17/12/09 15:03:27 INFO SparkEnv: Registering BlockManagerMaster
14 17/12/09 15:03:27 INFO BlockManagerMasterEndpoint: Using org.apache.spark.storage.DefaultTopologyMapper for
  getting topology information
15 17/12/09 15:03:27 INFO BlockManagerMasterEndpoint: BlockManagerMasterEndpoint up
16 17/12/09 15:03:27 INFO DiskBlockManager: Created local directory at C:\Users\xiyang\AppData\Local\Temp\blockmgr
  -61f600ef-4d13-42c6-8fb8-3e81d6cb889c
17 17/12/09 15:03:27 INFO MemoryStore: MemoryStore started with capacity 1994.1 MB
18 17/12/09 15:03:27 INFO SparkEnv: Registering OutputCommitCoordinator
19 17/12/09 15:03:27 INFO Utils: Successfully started service 'SparkUI' on port 4040.
20 17/12/09 15:03:28 INFO SparkUI: Bound SparkUI to 0.0.0.0, and started at http://192.168.200.1:4040
21 17/12/09 15:03:28 INFO Executor: Starting executor ID driver on host localhost
22 17/12/09 15:03:28 INFO Utils: Successfully started service 'org.apache.spark.network.netty.
  NettyBlockTransferService' on port 57045.
23 17/12/09 15:03:28 INFO NettyBlockTransferService: Server created on 192.168.200.1:57045
24 17/12/09 15:03:28 INFO BlockManager: Using org.apache.spark.storage.RandomBlockReplicationPolicy for block
  replication policy
25 17/12/09 15:03:28 INFO BlockManagerMaster: Registering BlockManager BlockManagerId(driver, 192.168.200.1, 57045
  , None)
26 17/12/09 15:03:28 INFO BlockManagerMasterEndpoint: Registering block manager 192.168.200.1:57045 with 1994.1 MB
  RAM, BlockManagerId(driver, 192.168.200.1, 57045, None)
27 17/12/09 15:03:28 INFO BlockManagerMaster: Registered BlockManager BlockManagerId(driver, 192.168.200.1, 57045
  , None)
28 17/12/09 15:03:28 INFO BlockManager: Initialized BlockManager: BlockManagerId(driver, 192.168.200.1, 57045,
  None)
29 17/12/09 15:03:28 INFO SharedState: Setting hive.metastore.warehouse.dir ('null') to the value of spark.sql.

```

```
29 warehouse_dir ('file://C:/Users/xiyang/Desktop/cap5771/proj/Economy/spark-warehouse/').
30 17/12/09 15:03:28 INFO SharedState: Warehouse path is 'file://C:/Users/xiyang/Desktop/cap5771/proj/Economy/spark
   -warehouse/'.
31 17/12/09 15:03:29 INFO StateStoreCoordinatorRef: Registered StateStoreCoordinator endpoint
32 ***** Linear Regression *****
33 17/12/09 15:03:45 WARN BLAS: Failed to load implementation from: com.github.fommil.netlib.NativeSystemBLAS
34 17/12/09 15:03:45 WARN BLAS: Failed to load implementation from: com.github.fommil.netlib.NativeRefBLAS
35 17/12/09 15:03:45 WARN BlockManager: Block rdd_104_1 already exists on this machine; not re-adding it
36 17/12/09 15:03:45 WARN BlockManager: Block rdd_129_1 already exists on this machine; not re-adding it
37 Coefficients: [1496.4765402668827,3.1006436472582695] Intercept: -89317.97157181425
38 objectiveHistory: [0.5000000000000001,0.4902514484531376,0.47926815071049716,0.47645517926155284,0.
   475061224514633,0.47505115571467965,0.47505074332574015,0.4750507431861518,0.47505074317336854]
39 RMSE: 96151.74709792313
40 r2: 0.049899864627175994
41 ***** Multilayer perceptron classifier *****
42 *****
43 Accuracy: 0.17379679144385027
44 Summary Statistics
45 Precision = 0.16531742173453404
46 Recall = 0.17379679144385027
47 F1 Score = 0.1447922113016544
48 ***** Logistic Regression *****
49 *****
50 Test accuracy = 0.00267379679144385
51 Summary Statistics
52 Precision = 7.149189281935428E-6
53 Recall = 0.00267379679144385
54 F1 Score = 1.4260249554367201E-5
55 ***** random forest *****
56 *****
57 +-----+-----+-----+-----+-----+
58 |predictedLabel|label|          features|
59 +-----+-----+-----+-----+-----+
60 |          24.0| 24.0|[9.63846153846154...|
61 |          24.0|  6.0|[9.10769230769230...|
62 |          22.0|  9.0|[6.66923076923076...|
63 |          24.0| 24.0|[14.9384615384615...|
64 |          35.0| 28.0|[6.07692307692307...|
65 +-----+-----+-----+-----+-----+
```

```
66 only showing top 5 rows
67
68 Test accuracy = 0.23796791443850268
69 Summary Statistics
70 Precision = 0.2614812996699072
71 Recall = 0.23796791443850268
72 F1 Score = 0.17736917338484193
73 *****
74 done
75 SwiftVis2 autosep string = 1.510402e+01
76 SwiftVis2 autosep string = 7.190444e+00
77 SwiftVis2 autosep string = 1.510402e+01
78 SwiftVis2 autosep string = 7.190444e+00
79 SwiftVis2 autosep string = 1.510402e+01
80 SwiftVis2 autosep string = 7.190444e+00
81 SwiftVis2 autosep string = 1.510402e+01
82 SwiftVis2 autosep string = 7.190444e+00
83 SwiftVis2 autosep string = 1.510402e+01
84 SwiftVis2 autosep string = 7.190444e+00
85 SwiftVis2 autosep string = 1.510402e+01
86 SwiftVis2 autosep string = 7.190444e+00
87 SwiftVis2 autosep string = 4.129487e+00
88 SwiftVis2 autosep string = 1.410967e+04
89 SwiftVis2 autosep string = 4.129487e+00
90 SwiftVis2 autosep string = 1.410967e+04
91
92 Process finished with exit code 0
93
```