

```
1 /Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/bin/java -javaagent:/Users/huyang/Library/Application Support/JetBrains/Toolbox/apps/IDEA-U/ch-0/213.6777.52/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=52537:/Users/huyang/Library/Application Support/JetBrains/Toolbox/apps/IDEA-U/ch-0/213.6777.52/IntelliJ IDEA.app/Contents/bin -Dfile.encoding=UTF-8 -classpath /Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/charsets.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/deploy.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/cldrdata.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/dnsns.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/jaccess.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/jfxrt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/ldrdata.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/nashorn.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/sunec.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/sunec_provider.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/sunpkcs11.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/ext/zipfs.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/javaws.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/jce.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/jfr.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/jfxswt.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/jsse.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/management-agent.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/plugin.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/resources.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/jre/lib/rt.jar:/Users/huyang/Desktop/Courses/大数据原理与技术/final_project/SimpleGeneticAlgorithm/target/classes:/Users/huyang/.m2/repository/org/apache/hadoop/hadoop-common/3.3.3/hadoop-common-3.3.3.jar:/Users/huyang/.m2/repository/org/apache/hadoop/hadoop-thirdparty/hadoop-shaded-protobuf_3_7/1.1.1/hadoop-shaded-protobuf_3_7-1.1.1.jar:/Users/huyang/.m2/repository/org/apache/hadoop/hadoop-annotations/3.3.3/hadoop-annotations-3.3.3.jar:/Library/Java/JavaVirtualMachines/jdk1.8.0_311.jdk/Contents/Home/lib/tools.jar:/Users/huyang/.m2/repository/org/apache/hadoop/thirdparty/hadoop-shaded-guava/1.1.1/hadoop-shaded-guava-1.1.1.jar:/Users/huyang/.m2/repository/com/google/guava/guava/27.0-jre/guava-27.0-jre.jar:/Users/huyang/.m2/repository/com/google/guava/failureaccess/1.0/failureaccess-1.0.jar:/Users/huyang/.m2/repository/com/google/guava/listenablefuture/9999.0-empty-to-avoid-conflict-with-guava/listenablefuture-9999.0-empty-to-avoid-conflict-with-guava.jar:/Users/huyang/.m2/repository/org/checkerframework/checker-qual/2.5.2/checker-qual-2.5.2.jar:/Users/huyang/.m2/repository/com/google/j2objc/j2objc-annotations/1.1/j2objc-annotations-1.1.jar:/Users/huyang/.m2/repository/org/codehaus/mojo/animal-sniffer-annotations/1.17/animal-sniffer-annotations-1.17.jar:/Users/huyang/.m2/repository/commons-cli/1.2/commons-cli-1.2.jar:/Users/huyang/.m2/repository/org/apache/commons/commons-math3/3.1.1/commons-math3-3.1.1.jar:/Users/huyang/.m2/repository/org/apache/httpcomponents/httpclient/4.5.13/httpclient-4.5.13.jar:/Users/huyang/.m2/repository/org/apache/httpcomponents/httpcore/4.4.13/httpcore-4.4.13.jar:/Users/huyang/.m2/repository/commons-codec/commons-codec/1.15/commons-codec-1.15.jar:/Users/huyang/.m2/repository/commons-io/commons-io/2.8.0/commons-io-2.8.0.jar:/Users/huyang/.m2/repository/commons-net/commons-net/3.6/commons-net-3.6.jar:/Users/huyang/.m2/repository/commons-collections/commons-collections/3.2.2/commons-collections-3.2.2.jar:/Users/huyang/.m2/repository/javax/servlet/javax.servlet-api/3.1.0/javax.servlet-api-3.1.0.jar:/Users/huyang/.m2/repository/jakarta/activation/jakarta.activation-api/1.2.1/jakarta.activation-api-1.2.1.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-server/9.4.43.v20210629/jetty-server-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-http/9.4.43.v20210629/jetty-http-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-io/9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-util/9.4.43.v20210629/jetty-util-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-servlet/9.4.43.v20210629/jetty-servlet-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-security/9.4.43.v20210629/jetty-security-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/webapp/9.4.43.v20210629/jetty-webapp-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/org/eclipse/jetty/jetty-xml/9.4.43.v20210629/jetty-xml-9.4.43.v20210629.jar:/Users/huyang/.m2/repository/javax/servlet/jsp/jsp-api/2.1/jsp-api-2.1.jar:/Users/huyang/.m2/repository/com/sun/jersey/jersey-core/1.19/jersey-core-1.19.jar:/Users/huyang/.m2/repository/javax/ws/rs/jsr311-api/1.1.1/jsr311-api-1.1.1.jar:/Users/huyang/.m2/repository/com/sun/jersey/jersey-servlet/1.19/jersey-servlet-1.19.jar:/Users/huyang/.m2/repository/com/sun/jersey/jersey-json/1.19/jersey-json-1.19.jar:/Users/huyang/.m2/repository/org/codehaus/jettison/jettison/1.1/jettison-1.1.jar:/Users/huyang/.m2/repository/com/sun/xml/bind/jaxb-impl/2.2.3-1/jaxb-impl-2.2.3-1.jar:/Users/huyang/.m2/repository/org/codehaus/jackson/jackson-core-asl/1.9.2/jackson-core-asl-1.9.2.jar:/Users/huyang/.m2/repository/org/codehaus/jackson/jackson-jaxrs/1.9.2/jackson-jaxrs-1.9.2.jar:/Users/huyang/.m2/repository/org/codehaus/jackson/jackson-xc/1.9.2/jackson-xc-1.9.2.jar:/Users/huyang/.m2/repository/com/sun/jersey/jersey-server/1.19/jersey-server-1.19.jar:/Users/huyang/.m2/repository/commons-logging/commons-logging/1.1.3/commons-logging-1.1.3.jar:/Users/huyang/.m2/repository/ch/qos/reload4j/reload4j/1.2.18.3/reload4j-1.2.18.3.jar:/Users/huyang/.m2/repository/commons-beanutils/commons-beanutils/1.9.4/commons-beanutils-1.9.4.jar:/Users/huyang/.m2/repository/org/apache/commons/commons-configuration2/2.1.1/commons-configuration2-2.1.1.jar:/Users/huyang/.m2/repository/org/apache/commons/commons-lang3/3.12.0/commons-lang3-3.12.0.jar:/Users/huyang/.m2/repository/org/apache/commons/commons-text/1.4/commons-text-1.4.jar:/Users/huyang/.m2/repository/org/slf4j/slf4j-api/1.7.36/slf4j-api-1.7.36.jar:/Users/huyang/.m2/repository/org/slf4j/slf4j-reload4j/1.7.36/slf4j-reload4j-1.7.36.jar:/Users/huyang/.m2/repository/org/apache/avro/avro/1.7.7/avro-1.7.7.jar:/Users/huyang/.m2/repository/com/thoughtworks/paranamer/paranamer/2.3/paranamer-2.3.jar:/Users/huyang/.m2/repository/com/google/re2j/re2j/1.1/re2j-1.1.jar:/Users/huyang/.m2/repository/com/google/protobuf/protobuf-java/2.5.0/protobuf-java-2.5.0.jar:/Users/huyang/.m2/repository/com/google/code/gson/gson/2.8.9/gson-2.8.9.jar:/Users/huyang/.m2/repository/org/apache/hadoop/hadoop-auth/3.3.3/hadoop-auth-3.3.3.jar:/Users/huyang/.m2/repository/com/nimbusds/nimbus-jose-jwt/9.8.1/nimbus-jose-jwt-9.8.1.jar:/Users/huyang/.m2/repository/com/github/stephenc/jcip/jcip-annotations/1.0-1/jcip-annotations-1.0-1.jar:/Users/huyang/.m2/repository/net/minidev/json-smart/2.4.7/json-smart-2.4.7.jar:/Users/huyang/.m2/repository/net/minidev/accessors-smart/2.4.7/accessors-smart-2.4.7.jar:/Users/huyang/.m2/repository/org/ow2/asm/asm/9.1/asm-9.1.jar:/Users/huyang/.m2/repository/org/apache/curator/curator-framework/4.2.0/curator-framework-4.2.0.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-simplekdc/1.0.1/kerb-simplekdc-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-client/1.0.1/kerb-client-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerby-config/1.0.1/kerby-config-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-common/1.0.1/kerb-common-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-crypto/1.0.1/kerb-crypto-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-util/1.0.1/kerb-util-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerby-token-provider/1.0.1/kerby-token-provider-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-admin/1.0.1/kerb-admin-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-server/1.0.1/kerb-server-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerb-identity/1.0.1/kerb-identity-1.0.1.jar:/Users/huyang/.m2/repository/org/apache/kerby/kerby-xdr/1.0.1/kerby-xdr-1.0.1.jar:/Users/huyang/.m2/repository/com/jcraft/jsch/0.1.55/jsch-0.1.55.jar:/Users/huyang/.m2/repository/org/apache/curator/curator-client/4.2.0/curator-client-4.2.0.jar:/Users/huyang/.m2/repository/org/apache/curator/curator-recipes/4.2.0/curator-recipes-4.2.0.jar:/Users/huyang/.m2/repository/com/google/code/findbugs/jsr305/3.0.2/jsr305-3.0.2.jar:/Users/huyang/.m2/repository/org/apache/zookeeper/zookeeper/3.5.6/zookeeper-3.5.6.jar:/Users/huyang/.m2/repository/org/apache/zookeeper/zookeeper-jute/3.5.6/zookeeper-jute-3.5.6.jar:/Users/huyang/.m2/repository/org/apache/yetus/audience-annotations/0.5.0/audience-annotations-0.5.0.jar:/Users/huyang/.m2/repository/io/netty/netty-handler/4.1.42.Final/netty-handler-4
```


[illegible]

File - VeryHard

[illegible]

[illegible]

[illegible]

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196
197 Population: 276865
198 Gene Length: 600
199 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    000001000001000000001000000000010001000000000000001010000000 | 000101010000100000000000 |
200 Best Fitness: 603620
201 Best Weight: 602421
202 Time Taken: 6206ms
203
204 [INFO] Running iteration 18 ...
205 -----
206 Iteration 18
207 -----
208 Population: 276865
209 Gene Length: 600
210 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000100000011000000000000000010000000000000010000100110000000 | 10000000000010000000000 |
211 Best Fitness: 604190
212 Best Weight: 602497
213 Time Taken: 6225ms
214
215 [INFO] Running iteration 19 ...
216 -----
217 Iteration 19
218 -----
219 Population: 276865
220 Gene Length: 600
221 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000100000101000000101000000000100000000001000010100000000 | 10000100000000010000000 |
222 Best Fitness: 604292
223 Best Weight: 601841
224 Time Taken: 6202ms
225
226 [INFO] Running iteration 20 ...
227 -----
228 Iteration 20
229 -----
230 Population: 276865
231 Gene Length: 600
232 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 00000000000000000000000000000000000000000000000000000000 |
    00000000000100000001000000000010001100000000100000011000000100 | 1000000100000000000000000 |
233 Best Fitness: 604548
234 Best Weight: 602550
235 Time Taken: 6220ms
236
237 [INFO] Running iteration 21 ...

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[illegible]

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494 Population: 276865
495 Gene Length: 600
496 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
0010010000011100000111011100001101110000100110010111010100010 | 1001010100111010000000 |
497 Best Fitness: 612754
498 Best Weight: 607738
499 Time Taken: 7260ms
500
501 [INFO] Running iteration 45 ...
502 -----
503 Iteration 45
504 -----
505 Population: 276865
506 Gene Length: 600
507 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
001001000001100000110100000111011100010100110000101110101100 | 1001010101111101000000 |
508 Best Fitness: 613024
509 Best Weight: 607708
510 Time Taken: 6239ms
511
512 [INFO] Running iteration 46 ...
513 -----
514 Iteration 46
515 -----
516 Population: 276865
517 Gene Length: 600
518 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
001001100001110010011101010000111011101000100110000111110101000 | 10010101010111101000000 |
519 Best Fitness: 613431
520 Best Weight: 607903
521 Time Taken: 6208ms
522
523 [INFO] Running iteration 47 ...
524 -----
525 Iteration 47
526 -----
527 Population: 276865
528 Gene Length: 600
529 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
0010010001011100100110101100011101110100010011000011111010000 | 10010101010011111000000 |
530 Best Fitness: 613814
531 Best Weight: 608538
532 Time Taken: 7217ms
533
534 [INFO] Running iteration 48 ...
535 -----

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536 Iteration: 48
537 -----
538 Population: 276865
539 Gene Length: 600
540 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    001001000001110010011010111000111011110100010011000011110101000 | 100101010100011110000000 |
541 Best Fitness: 613982
542 Best Weight: 608442
543 Time Taken: 7205ms
544
545 [INF0] Running iteration 49 ...
546 -----
547 Iteration 49
548 -----
549 Population: 276865
550 Gene Length: 600
551 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    0010011000011100100110101110001110111101010011001011111000000 | 100101010101110011000000 |
552 Best Fitness: 614243
553 Best Weight: 608705
554 Time Taken: 6212ms
555
556 [INF0] Running iteration 50 ...
557 -----
558 Iteration 50
559 -----
560 Population: 276865
561 Gene Length: 600
562 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    0010011000011100100110101110001110111101010011001011111000000 | 100101010101110011000000 |
563 Best Fitness: 614243
564 Best Weight: 608705
565 Time Taken: 7211ms
566
567 [INF0] Running iteration 51 ...
568 -----
569 Iteration 51
570 -----
571 Population: 276865
572 Gene Length: 600
573 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    00000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000 |
    101001100101110010011010110000111011101010011000011110101000 | 1001010101111101000000 |
574 Best Fitness: 614708
575 Best Weight: 608929
576 Time Taken: 6241ms
577

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620 Time Taken: 6194ms
621 -----
622 [INFO] Running iteration 56 ...
623 -----
624 Iteration 56
625 -----
626 Population: 276865
627 Gene Length: 600
628 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
001001100101110010011010111000111011101010100110010111110101100 | 1001010101111111011000000 |
629 Best Fitness: 615572
630 Best Weight: 609375
631 Time Taken: 6206ms
632 -----
633 [INFO] Running iteration 57 ...
634 -----
635 Iteration 57
636 -----
637 Population: 276865
638 Gene Length: 600
639 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
001001100001110010011010110000110111101010100110010111110101100 | 10010101011111111000100 |
640 Best Fitness: 615618
641 Best Weight: 609207
642 Time Taken: 7239ms
643 -----
644 [INFO] Running iteration 58 ...
645 -----
646 Iteration 58
647 -----
648 Population: 276865
649 Gene Length: 600
650 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
0010011000011100100110101100001110111101010100110010111110101100 | 10010101011111111000000 |
651 Best Fitness: 615766
652 Best Weight: 609210
653 Time Taken: 8259ms
654 -----
655 [INFO] Running iteration 59 ...
656 -----
657 Iteration 59
658 -----
659 Population: 276865
660 Gene Length: 600
661 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
0010011001011100100110101100001110111101010100110010111110101000 | 10010101011111111000100 |
```

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[illegible]

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```
792 Gene Length: 600
793 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
101001100101110010011110111000111011111010100111010111110101110 | 1101011101111111111000100 |
794 Best Fitness: 617121
795 Best Weight: 611009
796 Time Taken: 7215ms
797
798 [INFO] Running iteration 72 ...
799 -----
800 Iteration 72
801 -----
802 Population: 276865
803 Gene Length: 600
804 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
101001100101110010011110111000111111101010100111010111110101110 | 110101010111111111000101 |
805 Best Fitness: 617201
806 Best Weight: 611125
807 Time Taken: 7217ms
808
809 [INFO] Running iteration 73 ...
810 -----
811 Iteration 73
812 -----
813 Population: 276865
814 Gene Length: 600
815 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
10100110010111001001111011100011111111010100111010111110101110 | 100101110111111111000101 |
816 Best Fitness: 617316
817 Best Weight: 611315
818 Time Taken: 7214ms
819
820 [INFO] Running iteration 74 ...
821 -----
822 Iteration 74
823 -----
824 Population: 276865
825 Gene Length: 600
826 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
101001100101110010011110111000111011111010100111010111110101110 | 110101110111111111000111 |
827 Best Fitness: 617454
828 Best Weight: 611374
829 Time Taken: 7217ms
830
831 [INFO] Running iteration 75 ...
832 -----
833 Iteration 75
```

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File - VeryHard

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960 Best Weight: 612257
961 Time Taken: 7211ms
962
963 [INF0] Running iteration 87...
964 -----
965 Iteration 87
966 -----
967 Population: 276865
968 Gene Length: 600
969 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
10100110010111001001111011110011110111100111010111110101111 | 111011101111111111100111 |
970 Best Fitness: 618050
971 Best Weight: 612557
972 Time Taken: 7214ms
973
974 [INF0] Running iteration 88...
975 -----
976 Iteration 88
977 -----
978 Population: 276865
979 Gene Length: 600
980 Best Individual: 0000000000000000000000000000000000000000000000000000000 | 0000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
000000000000000000000000000000000000000000000000000000000000000000000000 | 000000000000000000000000000000000000000000000000000000000000000000000000 |
1010011001011100100111101111001111110111100111010111110101111 | 1101011101111111111100111 |
981 Best Fitness: 618141
982 Best Weight: 612808
983 Time Taken: 7213ms
984
985 [INF0] Running iteration 89...
986
987 Process finished with exit code 255
988
```