

```
1 "C:\Program Files\Eclipse Adoptium\jdk-17.0.5.8-
  hotspot\bin\java.exe" "-javaagent:C:\Program Files\
  JetBrains\IntelliJ IDEA 2023.1\lib\idea_rt.jar=54143:
  C:\Program Files\JetBrains\IntelliJ IDEA 2023.1\bin
  " -Dfile.encoding=UTF-8 -classpath C:\Users\Conne\
  Documents\000Vaults\SecondBrain\academia\CS228\
  Homework\HW4\Conner_Ohnesorge_HW4\out\production\
  Conner_Ohnesorge_HW4;C:\Users\Conne\Documents\
  000Vaults\SecondBrain\academia\CS228\Homework\HW4\
  Conner_Ohnesorge_HW4\lib\junit-jupiter-5.8.1.jar;C:\
  Users\Conne\Documents\000Vaults\SecondBrain\academia\
  CS228\Homework\HW4\Conner_Ohnesorge_HW4\lib\junit-4.
  13.1.jar edu.iastate.cs228.hw4.MsgTree
2 Please enter filename to decode: HW4S2023_Test_Files/
  cadbard.arch
3 character    code:
4 -----
5 a           0
6 !          100
7 d          1010
8 c          1011
9 r          110
10 b         111
11 -----
12 MESSAGE:
13 cadbard!
14 STATISTICS:
15 Avg bits/char:  2.9
16 Total Characters:  8
17 Space Saving:   65.2%
18
19 Process finished with exit code 0
20
```