

```
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=54126:  
  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/  
  monalisa.arch  
3 character    code:  
4 -----  
5 8            0  
6             10  
7 Z            110  
8  
9             111000  
10 `           11100100  
11 r           111001010000  
12 o           111001010001  
13 x           111001010010  
14 u           111001010011  
15 i           111001010100  
16 ]           111001010101  
17 n           111001010110  
18 m           111001010111  
19 W           111001011  
20 '           11100110  
21 M           111001110  
22 -           111001111  
23 ,           111010  
24 b           11101100  
25 a           11101101  
26 "           11101110  
27 P           111011110  
28 <           11101111100
```

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29 )      111011111010
30 V      1110111110110
31 N      1110111110111
32 (      11101111110
33 e      111011111110
34 >      111011111111
35 l      111100
36 .      1111010
37 _      11110110
38 d      111101110
39 Y      1111011110
40 |      11110111110
41 @      11110111111
42 I      111110
43 ;      111111
44 -----
45 MESSAGE:
46
47                      -----
48                      _,,ad8888888888bba,_
49                      ,ad88888I888888888888888ba,
50                      ,88888888I88888888888888888888a,
51                      ,
52                      d8888888888I8888888888888888888b,
53                      d88888PP"""" ""
54                      YY88888888888888888888888b,
55                      ,d88""' __,,-----,.,.,.;
56                      ZZZY88888888888888,
57                      ,8IIl'"                      ;;l"
58                      ZZZIII8888888888,
59                      ,I88l;'                      ;
60                      lZZZZZ888III8888888,
61                      ,II88Zl;.                      ;
62                      llZZZZZ888888I888888,
63                      ,II888Zl;.                      .:;:;:;
64                      lllZZZ888888I8888b
65                      ,II8888Z;;                      `:;:;:;'
66                      llZZ8888888I8888,
67                      II88888Z;'                      .;
68                      lZZZ8888888I888b
69                      II88888Z; _ ,aaa,          .,aaaaa,__.l;
70                      llZZZ888888888I888

```

```
60      II88888IZZZZZZZZZ, .ZZZZZZZZZZZZZZZ;  
    lLZZ88888888I888,  
61      II88888IZZ<'(@@>Z| |ZZZ<'(@@>ZZZ;;  
    lLZZ888888888I88I  
62      ,II88888; `"" ;| |ZZ; `"" ;;  
    lLZ8888888888I888  
63      II888888l `;; .;  
    lLZZ8888888888I888,  
64      ,II888888Z; ;;; .;;  
    lLZZZ8888888888I888I  
65      III888888Zl; .., `;; ,;;  
    lLlZZZ88888888888I888  
66      II88888888Z;;...;(_ _),;;;  
    lLZZZZ88888888888I888,  
67      II88888888Zl;::::;' `--'Z;. .,::::  
    lLZZZZ88888888888I888b  
68      ]I888888888Z;::::;' ";lLlLlL;..;;;  
    lLlZZZZ88888888888I8888,  
69      II8888888888Zl.;;"Y88bd888P";;,...;  
    lLlZZZZZ88888888888I8888I  
70      II88888888888Zl.;`"PPP";;,...;  
    lLlZZZZZZZ88888888888I88888  
71      II8888888888888Zl;;. `;;;l;::::  
    lLlZZZZZZZZZW88888888888I88888  
72      `II88888888888888Zl;. ,;;  
    lLlZZZZZZZZZWMZ88888888888I88888  
73      II88888888888888888ZbaalLlZZZZZZZZZZWWMZZZ88888888888I8  
    88888,  
74      `II8888888888888888888b"  
    WWZZZZZWWWMMZZZZZZI8888888888I888888b  
75      `II888888888888888888;  
    ZZMMMMMMZZZZZZZZlI8888888888I8888888  
76      `II888888888888888888 `;  
    lZZZZZZZZZZZlLlLl8888888888I8888888,  
77      II88888888888888888, `;lLlZZZZlLlLlL;..  
    Y888888888I8888888b,  
78      ,II88888888888888888b .;;lLlLlLl;...;  
    888888888I88888888b,  
79      II8888888888888888PZI;. `;;;.;;;...;  
    888888888I88888888888,
```


