

```
"C:\Program Files\Java\jdk-14.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA
2020.2.3\lib\idea_rt.jar=64754:C:\Program Files\JetBrains\IntelliJ IDEA 2020.2.3\bin" -
Dfile.encoding=UTF-8 -classpath
C:\Roux\CS5010\projects\HuffmanCodingTree\out\production\HuffmanCodingTree Driver
```

This is a cipher program that will encode or decode text.

You will provide a symbol -> code dictionary. This can be done either by providing it in a file or entering it here.

Please format the dictionary as 'symbol=code~symbol=code'.

Example formatting: o=0010~y=0011~s=01000.

Will you enter the dictionary at the console (Y/N)?

y

Please enter the dictionary.

```
=000~o=0010~y=0011~s=01000~e=01001~k=0101~n=01100~m=01101~u=0111~v=1000~z=1001~b=101
000~j=101001~g=10101~q=10110~.=10111~f=1100~l=11010~p=11011~c=111000~a=1110010~i=111001
1~t=11101~r=11110~d=111110~,=111111000~w=111111001~h=11111101~x=1111111
```

This is the dictionary: { =000, a=1110010, b=101000, c=111000, d=111110, e=01001, f=1100, g=10101, h=11111101, i=1110011, j=101001, k=0101, l=11010, ,=111111000, m=01101, n=01100, .=10111, o=0010, p=11011, q=10110, r=11110, s=01000, t=11101, u=0111, v=1000, w=111111001, x=1111111, y=0011, z=1001}

Do you want to encode or decode based on the input dictionary (encode / decode)?.

decode

Please enter the string to decode. You may only use the symbols provided for the message as displayed above.

```
01101001100001100111001001101010010001110011010000001110011011001110011101010010000
01101001001100111010010001111100100000011001001110000101111001111010110100000110100
1100011001110010111011111101010011111000011011111100100111011111001011110010010001
1101001000011111011100110100110111
```

Decoded message: my name is inigo montoya you kill my father prepare to die.

Process finished with exit code 0