

Exercise 3: Decoding

Purpose: Learn how characters are represented in computers.

Instructions

1. In the following exercises, manually lookup the character using the number.
2. Each group member will practice decoding characters from binary numbers.

Show your team assistant the matching result on the sheet before continuing!

- a. Team Member 1: Decode
 - i. 0111 1010
 - ii. 0110 0011
 - iii. 0110 0100
 - iv. 0110 0110
 - v. 0011 1010
 - b. Team Member 2: Decode
 - i. 0101 1010
 - ii. 0100 0011
 - iii. 0100 0100
 - iv. 0100 0110
 - v. 0011 1011
3. Each group member will practice encoding words.
- A word is just a sequence of letters, which will become a sequence of numbers!
- Show your team assistant the matching result on the sheet before continuing to the next word.
- a. Team Member 1: Decode
 - i. 0110 0010
0110 0101
0111 0100
 - ii. 0110 0011
0111 0010
0110 1001
0110 1110
0110 0111
0110 0101
 - b. Team Member 2: Decode
 - i. 0110 1110
0111 0000
0110 0011
 - ii. 0100 0111
0110 1100
0110 1111
0111 0111
0010 0000
0111 0101
0111 0000

Exercise 3: Decoding

4. Each group member will practice encoding phrases.

Keep track of your phrase in a text file.

Show your team assistant the result **before** continuing.

a. Team Member 1: Decode

A SPACE is also a character!!!

i. 0100 1100
0110 1111
0111 0111
0110 1011
0110 0101
0111 1001
0010 0000
0110 0111
0110 1000
0110 1111
0111 0011
0111 0100
0110 0101
0110 0100

b. Team Member 2: Decode

A SPACE is also a character!!!

i. 0100 0011
0100 0101
0101 0100
0010 0000
0101 0110
0110 1001
0110 0010
0110 1001
0110 1110
0010 0111
0010 0000
0110 1000
0110 0001
0111 0010
0110 0100

5. Check you answers when you're done!

Decode secrets/3_answers.txt.gpg.

- Right click on the file.
- Select Decrypt.
- Enter in the password supplied by the team assistant.