

## Ascii "Secret Agent" Challenge

### Task 1: Complete the Binary-to-ASCII table

Fill in the decimal and binary value for each ascii character --- some have already been done for you:

Ascii	Dec	Binary
A	65	0100 0001
B	66	0100 0010
C	67	0100 0011
D	68	0100 0100
E	69	0100 0101
F	70	0100 0110
G	71	0100 0111
H	72	0100 1000
I	73	0100 1001
J	74	0100 1010
K	75	0100 1011
L	76	0100 1100
M	77	0100 1101
N	78	0100 1110
O	79	0100 1111
P	80	0101 0000
Q	81	0101 0001
R	82	0101 0010
S	83	0101 0011
T	84	0101 0100
U	85	0101 0101
V	86	0101 0110
W	87	0101 0111
X	88	0101 1000
Y	89	0101 1001
Z	90	0101 1010

Ascii	Dec	Binary
a	97	0110 0001
b	98	0110 0010
c	99	0110 0011
d	100	0110 0100
e	101	0110 0101
f	102	0110 0110
g	103	0110 0111
h	104	0110 1000
i	105	0110 1001
j	106	0110 1010
k	107	0110 1011
l	108	0110 1100
m	109	0110 1101
n	110	0110 1110
o	111	0110 1111
p	112	0111 0000
q	113	0111 0001
r	114	0111 0010
s	115	0111 0011
t	116	0111 0100
u	117	0111 0101
v	118	0111 0110
w	119	0111 0111
x	120	0111 1000
y	121	0111 1001
z	122	0111 1010

space	32	0010 0000
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.	46	0010 1110
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### Task 2: Binary decoding challenge

#### Challenge 1

Use your completed ascii table to decipher the following message:

0100 0001	0111 0000	0111 0000	0110 1100	0110 0101
A	p	p	l	e

*Hint: Decode the message to find a fruit.*

#### Challenge 2

Use your completed ascii table to decipher the following message:

0101 0011	0110 1110	0110 0001	0110 1011	0110 0101
S	n	a	k	e

*Hint: Decode the message to find a slippery animal.*

### Challenge 3

Use your completed ascii table to decipher the following message:

0100 0011	0110 0001	0110 1011	0110 0101
C	a	k	e

*Clue: I'm a sweet treat, round and baked.*

### Challenge 4

Use your completed ascii table to decipher the following message:

0100 1001	0110 1101	0110 0001	0110 0111	0110 0101
l	m	a	g	e

### Challenge 5

Use your completed ascii table to decipher the following message:

0100 1001	0110 1110	0111 0000	0111 0101	0111 0100
l	n	p	u	t

### Task 3: The final escape

Gather the five decoded words and discover the hidden password by taking the first letter of each answer.

**Password:**

A	S	C	I	I
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### Bonus task:

Use your completed ascii table to create a secret message for your classmates to decode. Use an extra sheet if necessary.


