**Name**

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**Category**

CRYPTOGRAPHY

**How to solve**

1. I combined aspects from the bacon cipher and morse code to produce a unique form of encryption
2. Basically,

A = AB

B = BAAA

C = BABA

D = BAA

E = A

F = AABA

G = BBA

H = AAAA

I = AA

J = ABBB

K = BAB

L = ABAA

M = BB

N = BA

O = BBB

P = ABBA

Q = BBAB

R = ABA

S = AAA

T = B

U = AAB

V = AAAB

W = ABB

X = BAAB

Y = ABAA

Z = BBAA

0 = BBBBB

1 = ABBBB

2 = AABBB

3 = AAABB

4 = AAAAB

5 = AAAAA

6 = BAAAA

7 = ABAAA

8 = ABBAA

9 = ABBBA

\_ = AABBAB

A and B being dots and slashes respectfully

1. So in this case I will be changing As to caps locks and Bs remain the same

Therefore “HA” can be encrypted to the text ”my name is mary”as

MY NA Me is mary

“MY NA” Is H and “Me” Is A

The rest ,” is”, would be ignored

The spaces that are added into the line are used to separate each character the two spaces after “ME” represent the end of the encrypted text

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| m | y |  | n | a | m | e |  | i | s |  | m | a | r | y |  |  |  |  |  |
| M | Y |  | N | A |  | M | e |  |  |  | i | s |  | m | a | r | y |  |  |
| A | A |  | A | A |  | A | B |  |  |  |  |  |  |  |  |  |  |  |  |
| H | | | | |  | A | |  | <end> | |  |  |  |  |  |  |  |  |  |

1. The plaintext of this challenge is “flag{f\_l\_a\_g}”

We will be hiding it in the text “the ship told me that it likes to eat bacon i told it that i like to eat bacon too”

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| T | | H | e |  | S | |  | | | H | i | P |  | T |  | | | O | | | l |  | | d | |  | m | E | |  |  | { |  | T | H | a | T |  | | |  | | I | | T | |  | | l | | i | K | e | |  | | | S |  | | - | | - |
| A | | A | B |  | A | |  | | | A | B | A |  | A |  | | | A | | | B |  | | B | |  | B | A | |  |  | { |  | A | A | B | A |  | | |  | | A | | A | |  | | B | | B | A | B | |  | | | A |  | | - | | - |
| f | | | | | | |  | | l | | | | | |  | | | a | | | |  | | g | | | | |  | | { |  | f | | | | |  | | | \_ | | | | | | | | | | | |  | | |  | | | - | | - | |
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| B | | A |  | A |  | | A | | | A |  | B | B | A | B | | |  | | | A |  | | B | |  |  | A | | A | B | B |  | A | B |  |  | B | | | B | | A | |  | | } | |  | |  |  |  | |  | | |  |  | |  | |  |
| l | | | | | |  | | | \_ | | | | | | | |  | | | a | | | | | |  | | | \_ | | | | | | |  | | | | g | | | |  | | } | |  | | <end> | | | | | |  | | | | | | | |
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1. The cipher text will be

THe S HiP T Ol d mE { THaT IT liKe S tO E AT baCo N i TOld It thA } t i like to eat bacon too

1. The text itself gives hints on the encryption, for ships to communicate, many actually use morse-code and also the word bacon is a hint to the bacon-cipher

**How to deploy**

1. it is a text file and a way to deploy it would be to upload it to a server and use a link to retrieve the txt file.