GUIDE

Use the website to check your answers for every stage.

Stage 1
There are 2 photos. A message is hidden using the 2 photos. Find the hidden message to solve Stage 2.

Stage 2
In this stage, you are to find the most efficient path from an initial to a final node. This information is obtained from Stage 1. Represent your most efficient path using nodes. Suppose the initial node is a_1 and the final node is a_{12}. If the most efficient path, inclusive of initial and final, for example, is $[a_1, a_2, a_{10}, a_{11}, a_{12}]$, represent the answer as $[1, 2, 10, 11, 12]$. Key into the website with the square brackets and no spaces to check your answer.

Stage 3
2 keys are needed to decipher the message in Stage 3. One key is provided to you.
`Xr"co}"rgdrylx#vjbx"pkdkw#ys"vimu ebnxhiq."jqoefjaxhp|"FSSR 41!`

The other key is obtained from Stage 2.
Using your answer in Stage 2, take $mod\ 5$ for every element in the path. If your answer to Stage 2 is $[1, 51, 48, 3]$, then the "converted" list will be $[1, 1, 3, 3]$. This will be the other key

Stage 4
$C \equiv m^e \ (mod\ n)$

C: Ciphertext, 883816286515865749118413768 27
m: Original message (converted to number), 988248110997968101
e: Public key, 89313067008001
n: Mod, 9939496403495249435000646844 3

We have provided C, e and n. Determine m (in text).